

# Asia-Pacific Financial Forum

## 2016 Progress Report to the APEC Finance Ministers

[Draft as of 2016-07-29]

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8 **Asia-Pacific Financial Forum**  
9 **2016 Progress Report to the APEC Finance Ministers**

10 **EXECUTIVE SUMMARY**

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11 Home to 39 percent of the world’s population and generating 57 percent of its  
12 economic output, the Asia-Pacific region is undoubtedly the most dynamic corner of  
13 the globe. Fueled by external trade and investment, many of its economies,  
14 particularly on the Western side of the Pacific, experienced rapid growth and rising  
15 prosperity in the late 20<sup>th</sup> and early in this century to become some of today’s top  
16 manufacturing, trading and technological powerhouses.

17 However, the financial sector has lagged behind in this process. With the exception  
18 of the USA, most economies in the region have yet to develop the deep and liquid  
19 capital markets needed to support financial stability and the financing of long-term  
20 undertakings and projects, especially infrastructure. Most formal financial  
21 institutions, particularly in the banking system where the region’s financial  
22 resources are concentrated, remain unable to serve the needs of large parts of the  
23 population as well as micro-, small and medium enterprises (MSMEs).

24 With a few exceptions, markets in the region are not supported by the presence of  
25 a strong long-term investor base, especially insurance firms and pension funds. The  
26 region’s fragmented markets, regulatory regimes and market infrastructure provide  
27 a difficult terrain for lenders and investors seeking opportunities in financing  
28 cross-border projects and transactions. Many economies’ legal frameworks,  
29 especially in secured transactions, insolvency, privacy and credit information, need  
30 to be redesigned to fit the needs of enterprises in a globalized and digital world.

31 To provide a platform for public-private collaboration to develop robust and  
32 integrated financial markets in the region, the APEC Business Advisory Council  
33 proposed the establishment of the Asia-Pacific Financial Forum (APFF). APEC  
34 Finance Ministers, at their 2013 annual meeting in Bali, launched the APFF as one of  
35 their policy initiatives. The APFF work program is currently structured around four  
36 major clusters: MSMEs’ access to financial services; the development of deep, liquid  
37 and integrated financial markets; promoting financial resilience; and financial  
38 innovation.

39 Enabling MSMEs to effectively participate in economic activities and global value  
40 chains is an important objective for APEC member economies. For most MSMEs,  
41 lack of access to finance is a key obstacle. Since the 2015 APEC Finance Ministers’  
42 Meeting, ABAC has collaborated with finance ministries, regulatory agencies and  
43 other stakeholders in the APFF to undertake several activities to address this issue.  
44 These include the launch of the Financial Infrastructure Development Network  
45 (FIDN) in November 2015 and seminars and workshops held in the Philippines, China

46 and Thailand to support them in developing their credit information and secured  
47 transaction systems, as well as a workshop in Singapore to address issues in trade  
48 and supply chain finance.

49 ■ ***It is recommended that APEC member economies work with FIDN to develop***  
50 ***modern credit information systems and regionally consistent legal and***  
51 ***institutional frameworks for secured transactions and insolvency that can***  
52 ***expand MSMEs' access to finance and enable them to increase their***  
53 ***contributions to regional integration.***

54 In today's globalized economies, cross-border trade, supply chains and supply chain  
55 finance play key roles in the deepening and broadening of an economy's industrial  
56 base, leading to growth. Increased risk aversion in the wake of the global financial  
57 crisis has led to a general tightening of credit for lesser known enterprises,  
58 particularly for MSMEs in lower tiers of global supply chains. Thus, the need to  
59 reduce barriers and inefficiencies in the trade ecosystem to facilitate businesses'  
60 abilities to conduct cross-border trade and access supply chain finance has become  
61 even more important than before.

62 ■ ***It is recommended that APEC member economies collaborate with APFF in***  
63 ***holding public-private dialogues across all relevant agencies and stakeholders on***  
64 ***regulatory issues and emerging facilitators of trade and supply chain finance.***  
65 ***These should aim to promote effective and regionally consistent implementation***  
66 ***of capital and liquidity standards, greater awareness of Know-Your-Customer,***  
67 ***Counterparty Due Diligence and Anti-Money Laundering rules, as well as***  
68 ***expanded use of technology including electronic supply chain management***  
69 ***platforms; wider use of Bank Payment Obligations (BPOs) and related working***  
70 ***capital management techniques; and facilitating market education and***  
71 ***information exchanges on the use of regional currencies such as the RMB.***

72 Being in the world's most natural disaster-prone region, Asia-Pacific policy makers  
73 are setting their sights on developing financial instruments to help mitigate the  
74 impact of disasters ex ante. APFF supports the Finance Ministers' work on disaster  
75 risk financing and insurance, identifying deliverables and their timelines to (a)  
76 establish private disaster insurance schemes and deepen insurance penetration  
77 within economies; (b) develop regional risk sharing measures, and (c) develop a  
78 roadmap and network of experts through the support of APFF for expanding the  
79 coverage of micro-insurance and disaster risk finance in member economies.

80 ■ ***APEC member economies are encouraged to identify economies and perils of***  
81 ***priority as an initial step in promoting private disaster insurance schemes as***  
82 ***envisaged under the Cebu Action Plan (CAP). This may be undertaken through a***  
83 ***workshop in early 2017.***

84 ■ ***It is proposed that the Finance Ministers' Process complete the stock-taking on***  
85 ***availability of risk exposure data as a step toward the aforementioned workshop***  
86 ***in conjunction with the previous recommendation.***

87 ■ ***It is proposed that the drafting of an APEC roadmap for DRFI be initiated as***  
88 ***envisaged under the CAP, involving experts from the public and private sectors***  
89 ***and multilateral institutions.***

90 Effective risk management through microinsurance is critical for low income  
91 individuals, micro- and small enterprises, and developing economies. It is an  
92 important financial product for developing economies that are exposed to frequent  
93 natural disasters. It plays a key role in disaster risk financing, where the  
94 underdevelopment of capital markets hinders the use of instruments such as  
95 natural catastrophe bonds. An estimated three billion people globally are potential  
96 microinsurance customers who can generate an estimated \$30 billion in insurance  
97 premiums - a substantial market for many developing economies. New  
98 developments in mobile insurance, disaster risk management and public-private  
99 partnerships are helping to expand inclusive insurance while also requiring a  
100 paradigm shift for regulators, insurers, and others in the insurance value chain.

101 ■ ***It is proposed that stakeholders in the APEC Finance Ministers' Process***  
102 ***undertake activities in 2017 to complete the roadmap for expanding***  
103 ***microinsurance coverage as envisioned under the CAP. Discussions on the***  
104 ***roadmap may include the following elements: (a) adoption of the toolkit***  
105 ***developed by the Regulatory Framework Promotion of Pro-poor Insurance***  
106 ***Markets in Asia (RFPI Asia) of the GIZ for integrating insurance into DRFI***  
107 ***mechanisms to help insurers develop products that are appropriate for MSMEs;<sup>1</sup>***  
108 ***(b) development of policy frameworks for establishing risk pools and other DRFI***  
109 ***instruments, provision of incentives, use of technologies, and mechanisms for***  
110 ***public-private sector cooperation; (c) creation of the legal basis for the provision***  
111 ***of mandatory insurance coverage to MSMEs; (d) capacity building for public and***  
112 ***private stakeholders regarding product development, distribution and***  
113 ***promotion of MSME insurance; (d) development of data management on***  
114 ***catastrophic events; (e) establishment of central business registries with hazard***  
115 ***mapping and catastrophe coverage for enterprises; (f) proportionate regulation***  
116 ***to support a wide range of insurance products designed for MSMEs; (g)***  
117 ***mechanisms for public-private dialogue in developing products and solutions for***  
118 ***responses to and mitigation of disaster risk; and (h) implementation, financing***  
119 ***and coordination.***

120 Long-term investors such as insurers and pension funds play critical roles in the  
121 development of capital markets and financing of infrastructure projects, in addition  
122 to the important functions that they play in providing financial security. With the  
123 progressive aging of much of the region's population, their roles will become even  
124 more important going forward in channeling long-term liabilities into long-term  
125 assets that can provide adequate returns to meet future emergency and retirement

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<sup>1</sup> The toolkit highlights four steps: risk assessment, disaster risk management mapping, identification of gaps and exploration of disaster risk options. Throughout these steps, the framework supports the integration of microinsurance as a key part of broader disaster risk strategies

126 needs.

127 ■ **APEC economies should consider the establishment of mandatory and scalable**  
128 **retirement systems. *Scalability could be achieved through the implementation of***  
129 ***strong tax incentives to encourage higher levels of retirement savings.***

130 ■ **APEC economies should promote infrastructure investment as a defined asset**  
131 **class, to facilitate more holistic regulatory treatment that can encourage more**  
132 **private sector infrastructure investment.**

133 ■ **APEC economies should adopt accounting, solvency, investment, and securities**  
134 **standards supportive of the development of retirement savings and**  
135 **infrastructure investment.**

136 ■ **It is recommended that APEC Finance Ministers encourage the participation of all**  
137 **relevant public sector stakeholders in dialogues with the private sector to**  
138 **address barriers to long-term investment.**

139 Islamic finance has significant potential to meet long-term funding needs for  
140 infrastructure projects, which are suitable for its asset-based and risk-sharing nature.  
141 The global Islamic capital market has been growing in size and depth across  
142 jurisdictions, with a combined market capitalization of over \$21.5 trillion spread  
143 across 70 jurisdictions now covered by the Dow Jones Islamic Market indices. At the  
144 2015 APEC Finance Ministers' Meeting hosted by the Philippines in Cebu, ministers  
145 and the private sector discussed the development of an Islamic Infrastructure  
146 Investment Platform (I3P), in order to facilitate the mobilization of capital in Islamic  
147 institutions to fund infrastructure across the region. Subsequent workshops were  
148 convened in Brunei Darussalam and Kuala Lumpur to advance thinking on the issue.

149 ■ **APEC should establish an Islamic Infrastructure Investment Platform (I3P) as a**  
150 **pathfinder initiative to provide a platform for collaboration among public,**  
151 **private, international and academic experts to address the key obstacles to the**  
152 **expansion of cross-border investment by Islamic financial institutions, especially**  
153 **long-term investment from takaful and Islamic pension funds, in infrastructure**  
154 **projects in APEC economies. I3P should address in its work the definitions of**  
155 **infrastructure and financial instruments; Islamic hedging instruments; financial**  
156 **instruments for pension funds and takaful; discriminatory tax policies; directory**  
157 **of experts, definitions, funders, participating economies and qualifying**  
158 **infrastructure projects; and collaboration with the International Infrastructure**  
159 **Support System (IISS).**

160 Capital markets, particularly local currency bond markets, are of crucial importance  
161 for the region's financial stability, economic growth, and the efficient channeling of  
162 long-term savings to investment in long-term assets like infrastructure. Various  
163 initiatives have successfully brought about the rapid growth of Asian government  
164 bond markets, a key stage in the process of capital market development. The next  
165 stage, which is increasing market depth and liquidity, will be critical to the sustained

166 growth and development of the region's capital markets.

167 APFF continues to engage with domestic regulators and governments to encourage  
168 the further development of classic repo and derivatives markets and increasing  
169 secondary market liquidity in the region. APFF also created a series of  
170 self-assessment templates on disclosure, bond market data and information on  
171 investor rights in insolvency that can serve as tools to facilitate and shape  
172 public-private sector dialogue on information for investors in the region's debt  
173 markets, especially those for non-bank corporate debt. Finally, the APFF is  
174 supporting the successful launch of the Asia Region Funds Passport.

175 ■ ***Member economies are encouraged to collaborate with APFF in undertaking***  
176 ***workshops on development of classic repo and derivatives markets to enable the***  
177 ***effective use of hedging instruments and improve bond market liquidity. The***  
178 ***APFF also welcomes collaboration from other interested organizations in***  
179 ***financing and convening these activities.***

180 ■ ***More member economies should engage with APFF in using the self-assessment***  
181 ***templates on information for capital market investors to help expand the***  
182 ***investor base.***

183 ■ ***More member economies should join the Asia Region Funds Passport (ARFP) by***  
184 ***signing the Memorandum of Cooperation. APFF also welcomes opportunities and***  
185 ***invitations to provide private sector resource persons to dialogue with***  
186 ***regulators and industry in economies that decide to consider joining the ARFP.***

187 ■ ***It is recommended that ARFP regulators continue to engage the private sector***  
188 ***on the implementation of the ARFP.***

189 Facilitating flows of capital across the region's markets is a key factor for economic  
190 growth in the region. The APFF's work on financial market infrastructure and  
191 cross-border practices seeks to address the most significant obstacles to  
192 cross-border investment flows related to the connectivity platform and standards  
193 used in financial market infrastructure (FMI). The central objective is to promote  
194 cross-border portfolio investment flows with market practice, standards and  
195 platforms that can selectively harmonize market access and repatriation practices,  
196 improve the inter-operability, liquidity and connectivity of domestic and  
197 cross-border financial markets, and reduce systemic risks.

198 ■ ***APFF proposes to convene a regional symposium in 2017 on the development of a***  
199 ***roadmap for improving the regional financial market infrastructure. Discussions***  
200 ***could focus on the harmonization of market access and repatriation practices,***  
201 ***improving the inter-operability, liquidity and connectivity of domestic and***  
202 ***cross-border financial markets, reducing systemic risks, and creating a securities***  
203 ***investment ecosystem that can promote cross-border portfolio investment flows***  
204 ***across member economies.***

205 The growing role of financial technology (Fintech) raises new opportunities and  
206 risks with respect to the development of the region's financial market infrastructure  
207 (FMI), which is also particularly important in promoting cross-border operations of  
208 MSMEs. The APFF can provide a platform for industry, public sector and multilateral  
209 stakeholders to help policy makers and regulators identify approaches and ways  
210 forward to address issues in three key areas. These cut across Fintech  
211 developments in APEC and where we believe early work and progress can be made  
212 under the APFF process – cybersecurity, Know-Your-Customer (KYC) rules and  
213 electronic payments (e-Payments) – through a series of workshops.

214 ■ ***Policy makers and regulators should participate in APFF workshops on***  
215 ***cybersecurity, Know-Your-Customer (KYC) rules and e-Payments to facilitate***  
216 ***innovation in the region's financial market infrastructure.***

217 The potential of FinTech to drive inclusive growth is huge, but technological  
218 innovations can also magnify the potential for damage to the economy and financial  
219 systems. This increases the burden on regulators to keep pace with the innovations  
220 in the market, which will enable them to make regulations more effective in  
221 enhancing stability and enabling innovation and growth, and to strike the right  
222 balance between adapting to the local contexts across different markets and  
223 developing a regulatory model that can be applicable in many markets and thus able  
224 to contain compliance costs and provide seamless scale.

225 ■ ***It is recommended that APEC Finance Ministers establish a regional platform to***  
226 ***bring together stakeholders from the public and private sectors to address in***  
227 ***close collaboration with each other key issues arising from the development of***  
228 ***FinTech, and identify concrete ways to help member economies harness financial***  
229 ***innovation to build bigger, robust, inclusive and integrated financial markets.***

230 The rapid and continuing evolution of financial markets and ongoing efforts by  
231 Asia-Pacific economies to modernize their financial systems pose major challenges  
232 to policy makers and regulators. APFF continues to provide a platform for research  
233 and discussions on the present conditions and future directions of financial markets  
234 and regulations, which help authorities and industry deepen their knowledge of  
235 markets and anticipate emerging issues. This includes work on the role of Islamic  
236 finance in cross-border funding of infrastructure developed in conjunction with  
237 Harvard University that would help overcome the problems arising from differing  
238 interpretations of Sharia compliance.

239 ■ ***It is recommended that APEC Finance Ministers encourage policy makers and***  
240 ***regulators involved in the region's financial markets to participate in dialogues***  
241 ***and programs organized by academic and research institutions together with the***  
242 ***financial industry to further the work of APFF on regional financial architecture***  
243 ***and regulations.***

244 ■ ***It is recommended that APEC Finance Ministers welcome the APFF's work on***  
245 ***definitions of infrastructure and real assets in the context of developing an***

246 ***enabling environment for investment by Islamic financial institutions in***  
247 ***infrastructure and encourage their adoption.***

248 Building on its 2014 Interim Report and 2015 Progress Report to APEC Finance  
249 Ministers, the APFF this year advanced its work on several initiatives, through a  
250 number of roundtables, workshops and conferences across the region, work stream  
251 discussions, and collaboration with APEC finance officials. This year, the APFF  
252 supported the Finance Ministers' efforts to begin implementing the initiatives  
253 implementation of the CAP. The APFF also continues to undertake activities  
254 assigned by the CAP in the areas of capital market development, financial  
255 infrastructure for MSMEs and trade and supply chain finance.

256 The success of these undertakings will depend on active participation and  
257 engagement from the public sector. APFF intends to provide a forum and informal  
258 network for dialogue and capacity building where they can interact on a regular and  
259 sustained basis with experts in relevant specialized and technical fields from the  
260 private sector and international and academic organizations. The APFF looks  
261 forward to close collaboration with the APEC Finance Ministers in achieving  
262 concrete results in advancing the various initiatives under the Cebu Action Plan.



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# Asia-Pacific Financial Forum

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## 2016 Progress Report to the APEC Finance Ministers

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### INTRODUCTION

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Home to 39 percent of the world's population and generating 57 percent of its economic output, the Asia-Pacific region is undoubtedly the most dynamic corner of the globe. Fueled by external trade and investment, many of its economies, particularly on the Western side of the Pacific, experienced rapid growth and rising prosperity in the late 20<sup>th</sup> and early in this century to become some of today's top manufacturing, trading and technological powerhouses.

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However, the financial sector has lagged behind in this process. With the exception of the USA, most economies in the region have yet to develop the deep and liquid capital markets needed to support financial stability and the financing of long-term undertakings and projects, especially infrastructure. Most formal financial institutions, particularly in the banking system where the region's financial resources are concentrated, remain unable to serve the needs of large parts of the population as well as micro-, small and medium enterprises (MSMEs).

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With a few exceptions, markets in the region are not supported by the presence of a strong long-term investor base, especially insurance firms and pension funds. The region's fragmented markets, regulatory regimes and market infrastructure provide a difficult terrain for lenders and investors seeking opportunities in financing cross-border projects and transactions. Many economies' legal frameworks, especially in secured transactions, insolvency, privacy and credit information, need to be redesigned to fit the needs of enterprises in a globalized and digital world.

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The lack of a robust financial sector was not a significant issue in the early stages of the region's economic development, when rapid growth was driven by exports to North America and Europe, direct investments and the migration of labor from agriculture to manufacturing. As their economies matured, requiring a more balanced mix of consumption and investment to spur growth, and trading patterns increased in complexity with the emergence of supply chains, the need for more developed financial systems became more pronounced.

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The Asian Financial Crisis of 1997-98 exposed the weaknesses of the region's financial systems, which relied overwhelmingly on the banking sector. Economies' exposure to the double (maturity and currency) mismatch that led to the crisis and its painful aftermath prompted domestic and regional efforts to pursue the development of local currency bond markets. Economies' growing need for investment in infrastructure to alleviate the strains generated by rapidly growing business activities in urban centers also placed the spotlight on inadequate capital markets and the dearth of domestic sources of long-term finance.

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301 The combined impact of underdeveloped financial systems on consumption,  
302 investment, enterprise growth, trade and infrastructure development and their  
303 knock-on effects on employment and economic growth underscores the  
304 importance of financial sector development for economies to avoid the middle  
305 income trap. At the same time, a fast growing region with huge savings, a large  
306 population, high mobile phone penetration, a growing middle class and massive  
307 infrastructure investment needs at a time when traditional business models are  
308 being disrupted across financial services presents tremendous opportunities.

309 This is the context in which the Asia-Pacific Financial Forum (APFF) was proposed by  
310 the APEC Business Advisory Council (ABAC) and launched by APEC Finance Ministers  
311 at their 2013 annual meeting in Bali. Its purpose is to provide a platform for  
312 public-private collaboration to develop robust and integrated financial markets in  
313 the region. The APFF work program is currently structured around four major  
314 clusters.

315 ● The first deals with issues related to MSMEs' access to financial services, which  
316 is a priority issue in many APEC member economies. This focuses on addressing  
317 weaknesses in the financial infrastructure that lenders use to manage credit  
318 risks in lending to MSMEs. This also includes access to trade and supply chain  
319 finance for those involved in global and regional supply chains.

320 ● The second deals with the development of deep, liquid and integrated financial  
321 markets, which is important for a variety of reasons. These include the need for  
322 more diverse and stable financial systems, improved availability and lower costs  
323 of financing for public and private borrowers, more efficient intermediation of  
324 the region's savings into investments, greater capacity to finance infrastructure  
325 development, growth of the region's financial services sector and better  
326 investment opportunities to finance future needs.

327 ● The third deals with promoting financial resilience in the Asia-Pacific region,  
328 which is the most disaster-prone region in the world. It includes access to  
329 microinsurance services for low-income individuals and households as well as  
330 disaster risk financing and insurance (DRFI) mechanisms to help mitigate the  
331 impact of natural catastrophes *ex ante*.

332 ● The fourth deals with financial innovation, in particular how policy makers and  
333 regulators could respond to the growing use of financial technology (Fintech),  
334 which includes mobile money, shared ledger technology, big data, artificial  
335 intelligence, electronic platforms, advanced analytics and automated processes,  
336 among others, that is challenging established business models.

337 An overarching theme that encompasses issues in these four clusters is the regional  
338 financial and regulatory architecture, where APFF is engaging academic financial  
339 experts, regulators, standard setters and industry practitioners. This includes  
340 discussion of the broader global regulatory reform and standard setting process  
341 and the role of the Asia-Pacific regulatory community and financial industry within

342 this setting.

343 This Progress Report is structured along seven major themes, each corresponding  
344 to an active APFF work stream: (a) financial infrastructure, which is divided into  
345 credit information and secured transactions and movable asset finance systems; (b)  
346 trade and supply chain finance; (c) microinsurance and disaster risk finance and  
347 insurance (DRFI); (d) retirement income and long-term investment in capital  
348 markets and infrastructure, which includes the impact of regulation and accounting  
349 issues; (e) capital markets, which includes sections on classic repo and derivatives  
350 markets, information for capital market investors, support for the Asia Region  
351 Funds Passport (ARFP) initiative, and financial market infrastructure and  
352 cross-border practices; (f) financial innovation; and (g) linkages and structural  
353 issues.

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355 **ADVANCING THE FINANCIAL INFRASTRUCTURE DEVELOPMENT NETWORK**  
356 **(FIDN)**

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357 *FIDN has been an excellent platform for stakeholders to share and learn from each*  
358 *other on how to develop the financial infrastructure necessary for broad based*  
359 *growth and development. For the Bangko Sentral ng Pilipinas, we continue to learn*  
360 *from other jurisdictions and experts on the areas of credit information systems,*  
361 *secured transaction systems and collateral registries which all contribute to making*  
362 *our financial system more inclusive.*

363 **Nestor Espenilla – Deputy Governor, Bangko Sentral ng Pilipinas, Republic of**  
364 **the Philippines**

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366 *Initiatives such as FIDN paved the way for the development of better financial*  
367 *innovation policies, as regulators, financial institutions and development partners*  
368 *collaborate to pursue reforms in all forms and on all fronts to improve and develop*  
369 *inclusive financial services for all, especially for the underserved and marginalized*  
370 *sectors of society.*

371 *The launching of FIDN in the Philippines last November 2015 followed by the two FIDN*  
372 *conferences, sent a strong message that the government, in partnership with the*  
373 *private sector and development partners, is committed in its aspiration for an*  
374 *inclusive growth by pursuing policy reforms to enable MSMEs to tap financial*  
375 *resources through other acceptable and non-traditional forms of collateral.*

376 **Gil Beltran – Undersecretary, Department of Finance, Republic of the**  
377 **Philippines**

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379 *The FIDN events have brought to fore the existing gaps in the secured transactions*  
380 *regime in the Philippines, particularly, as regards the use of movable collaterals. They*  
381 *have broadened my knowledge on the possibilities that our economy could consider*  
382 *adopting in our quest to improve existing laws, systems and procedures to further*  
383 *bolster financial inclusion of our MSMEs. Further, the lessons and experiences shared*  
384 *by other economies provide a rich source of information which the Philippines can*  
385 *use in coming up with the right formula to address our own challenges in this regard.*

386 *The said events also made it clear that for this endeavor to succeed, it would entail*  
387 *not only the active participation of all government agencies concerned but that, it*  
388 *would also require the invaluable cooperation of all the stakeholders, such as the*  
389 *different lending institutions and, more importantly, the MSMEs themselves. Indeed,*  
390 *the passage into law of the desired legislative measure is just the first step in our long*  
391 *journey to achieving a modern secured transactions regime that is truly responsive to*  
392 *the needs of both our MSMEs and lending institutions.*

393 **Ronaldo Ortile – Deputy Administrator, Land Registration Authority,**  
394 **Department of Justice, Republic of the Philippines**

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*Given the velocity with which entrepreneurs can spot opportunities, the promised availability of credit only leads stakeholders to automatically think bigger and more outward towards the larger markets. The opportunity to do business outside the economy, whether as a participant in a global value chain or as a direct entrant into the other ASEAN economies, creates a demand to find parallel solutions to those issues encountered in the Philippines, i.e. access to credit. It is quite fortunate that there is the FIDN project in place that the CIC can participate in.*

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*The existence of the FIDN gives the CIC credibility to fulfill the promise that a better credit and collateral regime in this economy, better for its openness and transparency, will be replicated elsewhere which in turn will open up more international opportunities in a level playing field. The depth of organizations and resource persons made visible in the various FIDN forums brings faces to the organization that inspire the local entrepreneur that what is spoken of can actually be done.*

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*Ultimately, while the success of a local or ASEAN wide venture is subject to many variables, FIDN promises to be the platform from which cross border ventures will find the energy to launch, not as a guarantee of success, but as an assurance of a playing field where the terms of engagement are clear. The benefit to CIC is how this exciting prospect pushes the local stakeholders into full and enthusiastic compliance as they come to understand that locally, the CIC's data sharing registry is the entry point into a greater set of international opportunities.*

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***Jaime Garchitorena – CEO & President, Credit Information Corporation***

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Enabling MSMEs to effectively participate in economic activities and global value chains is an important objective for APEC member economies. For most MSMEs, lack of access to finance is a key obstacle. Behind this are factors such as inadequate legal and institutional infrastructure to support risk-based lending using transaction data and the use of movable assets as collateral. The Finance Ministers have identified these issues as priorities and incorporated them in the Cebu Action Plan.

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Since the 2015 APEC Finance Ministers' Meeting, APFF has provided the platform for collaboration among the private sector, finance ministries, regulatory agencies and other stakeholders to undertake various activities to advance these initiatives. These include the launch of the Financial Infrastructure Development Network (FIDN) as a subgroup of the APFF in November 2015 and seminars and workshops held in the Philippines, China and Thailand to support them in developing their credit information and secured transaction systems.

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### **Credit information**

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With the approval of the Cebu Action Plan in 2015, specific projects were set for credit information sharing (CIS) as part of FIDN. Regarding CIS, the FIDN specifies the following 5 core deliverables/work streams:

- the development of a consumer credit information data dictionary;

- 436 ■ the development of a commercial credit information data dictionary;
- 437 ■ the implementation of a consumer credit information cross-border data sharing
- 438 pilot;
- 439 ■ the implementation of a commercial credit information cross-border data
- 440 sharing pilot; and
- 441 ■ the completion of a baseline study on consumer/commercial credit information
- 442 sharing practices and laws.

443 A CIS Steering Committee was created to execute the work plan specified in the  
 444 Cebu Action Plan. The FIDN CIS Steering Committee is comprised of representatives  
 445 from the private sector (the Asia Pacific Credit Coalition or APCC, the Consumer  
 446 Data Industry Association or CDIA, the Business Information Industry Association or  
 447 BIIA, the Australian Retail Credit Association or ARCA, and the global firms  
 448 Lexis-Nexis, D&B, Experian and TransUnion), and from non-governmental  
 449 organizations and multilateral institutions (Policy and Economic Research Council or  
 450 PERC, the International Finance Corporation/World Bank Group or IFC/WBG and  
 451 ABAC). Individual project managers were designated for each of the 5 sub-streams  
 452 (CDIA leading sub-stream 1; BIIA leading sub-stream 2; ARCA/D&B/PERC leading  
 453 sub-stream 3; IFC/BIIA leading sub-stream 4; and PERC leading sub-stream 5).  
 454 Individual project managers report progress to the FIDN CIS Steering Committee at  
 455 least quarterly or more often as needed.

456 The following describes the work of the different substreams

- 457 ■ Sub-stream 1: Consumer Credit Data Dictionary. After various consultations,  
 458 CDIA has agreed to share a copy of Metro 2 (a new standard electronic data  
 459 reporting format) with either PERC and/or BIIA for use in efforts to generate a  
 460 regional template data dictionary. In addition, the project manager secured  
 461 participation from experts with both Experian and TransUnion to guide and  
 462 assist efforts in this work stream. This represents a major step forward as the  
 463 combined expertise from designated experts at Experian and TransUnion will  
 464 greatly expedite progress with the development of the consumer credit data  
 465 dictionary. CDIA and BIIA have begun coordinating efforts to control  
 466 for/minimize duplicative work given the recognition of the substantial overlay  
 467 between the consumer and commercial credit data dictionary work streams. It  
 468 is anticipated that a draft consumer credit data dictionary will be completed by  
 469 the end of 2016, to be revised and finalized by mid-2017.

- 470 ■ Sub-stream 2: Commercial Credit Data Dictionary. Project managers from the  
 471 BIIA have begun collecting data formats and guidebooks for business  
 472 information from among APEC member economies and have amassed over one  
 473 dozen. In addition, BIIA has socialized this project with its membership and has  
 474 enlisted the active participation of CRIF, CreditSafe, Experian, and IFC/WBG in a  
 475 peer review capacity. As with the consumer credit data dictionary, the  
 476 generation of a regional template commercial credit data dictionary will be  
 477 greatly aided with the active participation of subject matter experts from the

478 private sector. The project manager has begun a comparative analysis of the  
479 various data formats in an effort to emphasize similarities and to target distinct  
480 differences as areas to address moving forward. It is anticipated that a draft  
481 commercial credit data dictionary will be completed by the end of 2016 to be  
482 revised and finalized by mid-2017.

483 ■ Sub-stream 3: Cross-border Consumer Credit Data Sharing Pilot. The project  
484 manager has been engaged in ongoing discussion with ARCA about the  
485 potential for a cross-border pilot using consumer credit data flows among  
486 Australia, New Zealand, and several surrounding Pacific islands. ARCA had  
487 received a prior pledge of support for such a project from the parliaments in  
488 both Australia and New Zealand. It is expected that ARCA will reach a decision  
489 on the proposed collaboration with FIDN on this project during the 3rd quarter  
490 of 2016. In the event that ARCA is unable to move forward, APCC member D&B  
491 Australasia has indicated a potential willingness to take the lead on the pilot  
492 and aid PERC/APCC and the FIDN CIS Steering Committee. This project is  
493 expected to begin in 2017.

494 ■ Sub-stream 4: Cross-border Commercial Credit Report Sharing Pilot. In line with  
495 the Cebu Action Plan's call for a regional credit information network, IFC/WBG  
496 and ABAC organized the first meeting of the Mekong sub-region credit  
497 reporting services providers (CRSPs) in Bangkok on July 4, 2016, with the  
498 support of the BIIA, National Credit Bureau of Thailand, and the Thai Bankers'  
499 Association. The event managed to gather together eight CRSPs from China,  
500 Vietnam, Thailand, Cambodia and Lao PDR to seriously discuss how to share  
501 credit information for the purpose of trade, investment and cross-border  
502 employment.<sup>2</sup> Participants agreed on a set of basic principles for the  
503 sub-regional credit reporting collaboration. Among others, these include the  
504 following:

- 505 ➤ Sharing will be in the form of credit reports only, not a physical transfer of  
506 data from one economy to another.
- 507 ➤ CRSPs will set up voluntary, bilateral and reciprocal arrangements among  
508 themselves.
- 509 ➤ Sharing will be conducted based on commercial principles and driven by  
510 enquiries from the data subject host economies.
- 511 ➤ CRSPs should comply with any existing regulatory requirements in the data  
512 subject source economies (e.g., consent, permissible use, security

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<sup>2</sup> Participants recognized and agreed on the need for cross-economy exchanges of credit information in view of the deepening economic integration in the Asia Pacific Region. It is acknowledged that credit information collaboration across borders is particularly challenging as various economies have structured their credit reporting systems to service domestic members only. All participating CRSPs expressed willingness to develop ways for such exchanges subject to their respective stages of development, regulatory requirements and market demands. Participants brainstormed on the basic process of sharing credit reports across the borders and how to handle identify verification and dispute resolutions. They also agreed to meet on an annual basis in order to know each other better and to review progress. The on-going work on the credit reporting Data Dictionary led by BIIA will be complementary to this pilot initiative in the Mekong.

- 513 requirement).
- 514 ➤ Host economy CRSP should validate the identity of data subjects and be  
515 prepared to assist the source economy CRSP on any information disputes.
- 516 ➤ CRSPs should make available English version credit reports. Participants  
517 also emphasized the importance of adequate communications with their  
518 regulators, members and data subjects on this new type of services. IFC will  
519 take the lead to develop a sample bilateral agreement.
- 520 ■ Sub-stream 5: Baseline Research on Credit Information Sharing Within APEC.  
521 PERC and the National Center for APEC discussed funding for this research  
522 project with various organizations. USAID and the US Department of State,  
523 which are both collaborating with FIDN, indicated that the project is significant  
524 and would yield valuable information that would support the objectives of the  
525 Cebu Action Plan, and offered to help close any funding gap should the project  
526 receive partial funding. The project managers will work to submit funding notes  
527 for different segments of the FIDN deliverables during the next APEC funding  
528 cycle, while continuing to seek funding for the baseline research. Once funding  
529 is secured, the research and analysis can be completed within 12 months.  
530 Aspirationally, this work stands to be concluded at the end of 2017.

### 531 **Secured Transactions Reform**

532 The Secured Transaction Reform Committee (STRC) of the FIDN promotes an  
533 enabling environment based upon clear and predictable legal frameworks for  
534 economic development and inclusive growth, specifically focused on facilitating a  
535 diverse set of financing solutions for MSMEs, infrastructure projects and  
536 cross-border trade and supply chains. ABAC, partnering private sector organizations,  
537 IFC/WBG and the Organization for Economic Co-operation and Development (OECD),  
538 will collaborate with and be supported by a broad range of institutions including  
539 international organizations, public sector bodies, private sector firms, and academic  
540 entities within interested economies.

541 Through workshops, direct policy maker outreach, dialogues and studies, the  
542 Committee is seeking to:

- 543 ■ support reform and development of secured transactions systems and  
544 insolvency frameworks among APEC economies;
- 545 ■ promote good practices and internationally accepted principles on secured  
546 transactions legislation, including comprehensive definitions of eligible  
547 collateral, the free assignability of claims for the purposes of financing, and  
548 other provisions shown to enhance the ease of credit for MSMEs;
- 549 ■ foster the establishment and development of effective modern collateral  
550 registries and promoting pathways to single, central and online security  
551 interests notice filing systems and comprehensive coverage of security interests  
552 on movable assets, receivables and other forms of intangible assets within the



553 economy; and

554 ■ partner with local economy stakeholder to improve the capacity of lenders in  
555 structuring, delivering and managing credits based on movable assets,  
556 receivables and other forms of intangible assets as well as the development of  
557 the necessary operational infrastructure such as third-party collateral  
558 management industries, electronic finance platforms and credit enhancement  
559 services to support the expansion of such credits for MSMEs, agri-business  
560 operators, domestic and cross-border traders and infrastructure companies,  
561 among others.

562 Since the launch of FIDN in November 2015, the Committee has developed a  
563 network of leading experts in secured transaction reform to support member  
564 economies. This network encompasses multilateral development agencies,  
565 leading industry trade groups, private sector lenders, academic think tanks and  
566 universities, leading legal experts, and collateral registry officials. This diverse  
567 network provides member economies with simple, cost efficient access to global  
568 best practices and expertise across the necessary elements to achieve modern  
569 secured transaction reform, including areas such as:

570 ■ Legislative / Model Laws: Committee members include experts from IFC/WBG,  
571 UNCITRAL, USAID, National Law Center, Harvard University and a number of  
572 consultants with experience working with economies to develop modern  
573 secured transaction regimes.

574 ■ Collateral Registry Development: Committee members include the Australian  
575 Financial Security Authority (Australia’s collateral registry registrar), the  
576 Ministry of Economy of Mexico, and the Land Registration Authority under the  
577 Department of Justice of the Philippines.

578 ■ Training / Capacity Building: Committee members include the Commercial  
579 Finance Association (CFA), the predominant industry trade group for  
580 asset-based lending; and the combined IFG-FCI organization, the leading global  
581 factoring trade organization. These trade groups, additionally joined by  
582 IFC/WBG and its experts, have deep resources and experience in providing  
583 training and capacity building to lenders and factors globally.

584 The Committee has also actively engaged with the Strengthening Economic Legal  
585 Infrastructure (SELI) group of the Economic Committee to promote reform efforts  
586 across the APEC member economies. Since the launch of FIDN, the Committee has  
587 provided expertise to interested member economies, including the Philippines,  
588 Brunei, China and Thailand.

589

### **Supporting the Reform of the Philippines' Financial Infrastructure**

FIDN delivered the following results to the Philippines:

(1) Established a common understanding of the key reforms in secured transactions and credit information systems across the relevant key stakeholders – Through the FIDN's engagements, the mindset has shifted across key relevant stakeholders and clients. Clients and stakeholders are now aligned and in full appreciation of best practices as shared by expert and the business case for Credit Infrastructure reforms.

(2) Established strong partnerships locally and internationally that clients can leverage on – Recognizing that other local agencies are also focused on the same goal of promoting financial inclusion, the Committee extended the invitation to participate to other relevant local government entities like the Philippine central bank. The Deputy Governor of the central bank has become a solid partner championing credit infrastructure reforms and has been very instrumental in facilitating dialogues and presentations relating to the reforms through the FIDN. On the international front, the Committee engaged FIDN's international experts in the private and public sectors. These partners have been additional champions to promote credit infrastructure reforms.

(3) Solidified commitment and priority – the Committee through the FIDN effort was able to solidify the commitment and prioritization of the Department of Finance's objectives in the government's agenda and the APEC's agenda. Credit Infrastructure is now part of the roadmap of reforms that the APEC economies committed to and signed off under the Philippines' APEC leadership in 2015.

FIDN provided the opportunity to collaborate with various agencies within the local government. With the solidified partnership, a number of key officials in the Philippine Government (Chair of the Securities and Exchange Commission, Under Secretaries of the Department of Finance, Deputy Governor and Directors of the Philippine Central Bank and National Treasurer of the Philippines) have become willing and regular active participants of the FIDN forum to facilitate dialogue and act as keynote speakers. Messages coming from this level of the government have been very effective in promoting buy-in among other stakeholders.

The launch of the FIDN in November 2015 brought together around 300 participants (e.g., bankers, MSMEs, lawyers, media) and was covered by 30 media people across local and international networks. It was attended by around 20 APEC delegates and key officials in the Philippine Government (Secretary of Finance, National Treasurer, Securities and Exchange Commission Chair, Central Bank Deputy Governor, among others). The launch was featured in a number of leading local and international newspapers.

Motivated by the lessons learned from FIDN, the Philippines' technical working group on Secured Transactions immediately initiated its working sessions to focus on drafting the new Philippine secured transactions law. Through FIDN, international experts shared their expertise, their lessons of experience and the private sector view with Philippine policy makers pursuing credit infrastructure reforms.

591

592 In March, the Committee provided a workshop on secured lending to interested  
593 stakeholders in Brunei at the invitation of the Monetary Authority of Brunei in  
594 support of their recent enactment of modern secured transaction order. As Brunei

595 sought support for creating a new collateral registry in support of the law, the  
596 Committee provided introductions to the Ministry of Economy in Mexico. As the law  
597 nears implementation, FIDN and the Monetary Authority are discussing additional  
598 capacity building and industry training activities to accelerate adoption of secured  
599 lending and expanded access to credit to Brunei SMEs and mid-market enterprises.

600 On May 21-22, FIDN provided support for a conference in Nanjing to support the  
601 Chinese government to obtain broader and effective support for its plan to  
602 introduce an updated secured transactions law. This joint conference was held with  
603 IFC/WBG, the People's Bank of China (PBOC), the Nanjing University of Finance and  
604 Economics, and the China Society for Civil Law Research. China plans to introduce  
605 the first Civil Code in its history, with approval of general principles expected in early  
606 2017 and various elements to be developed afterwards, including a new secured  
607 transactions law.

608 The conference provided technical knowledge from international experience and  
609 promoted better understanding of the business side of secured transactions among  
610 law academics and legal professionals, who will be involved in advising officials in  
611 the design of the legal framework, such that the advice they will provide to officials  
612 will be consistent with what local banks and SMEs require to effectively lend on a  
613 secured basis. Other participants and speakers included representatives from PBOC,  
614 the National People's Congress, the Supreme People's Court and China's Ministry of  
615 Finance. FIDN provided international experts to talk about best practices in various  
616 aspects of secured transactions from other economies.

617 More recently, FIDN has begun engagement with the Bank of Thailand, in  
618 conjunction with the Thailand Bankers' Association, to support the introduction of  
619 the recently enacted secured transaction law – and is organizing a workshop for  
620 policymakers, regulators and industry participants to be held in August in Bangkok  
621 to build awareness and adoption of the new law.

622 In the short period since its launch in November 2015, FIDN has built a broad  
623 network of experts, enhanced and expanded its support of the reform efforts in the  
624 Philippines, and initiated supporting activities with Brunei, Thailand and China.  
625 During the balance of the APEC year, FIDN hopes to build upon these successes with  
626 each of the economies through continued workshops and capacity building – as  
627 well as further support additional interested member economies.

## 628 **Recommendation**

629 ■ ***It is recommended that APEC member economies work with FIDN to develop***  
630 ***modern credit information systems and regionally consistent legal and***  
631 ***institutional frameworks for secured transactions and insolvency that can***  
632 ***expand MSMEs' access to finance and enable them to increase their***  
633 ***contributions to regional integration. This should involve the convening of***  
634 ***workshops in individual economies bringing together public and private sector***  
635 ***stakeholders and experts; advisory activities and seminars to support legal and***

636 *policy reform and modernization of collateral and credit registries; outreach*  
637 *activities to educate MSMEs, lenders and other market participants on how they*  
638 *can benefit from these opportunities; and support for the pathfinder projects on*  
639 *cross-border sharing of commercial and consumer credit reports among credit*  
640 *bureaus within existing legal and regulatory frameworks, the development of*  
641 *the credit information data dictionary and the baseline analysis of credit*  
642 *information sharing in APEC member economies.*

643

## 644 **FACILITATING TRADE AND SUPPLY CHAIN FINANCE**

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645 In today's globalized economies, cross-border trade, supply chains and supply chain  
646 finance play key roles in the deepening and broadening of an economy's industrial  
647 base, leading to growth. Trade finance is critical to support global trade flows,  
648 which are now being materially reshaped, with intra-regional trade growing in  
649 importance. Production lines that were previously based only in one location are  
650 now increasingly being deconstructed and spread across different locations to take  
651 advantage of factor endowments.

652 Supply chain finance primarily provides the necessary financing and liquidity to  
653 support firms' working capital needs. Increased risk aversion in the wake of the  
654 global financial crisis has led to a general tightening of credit for lesser known  
655 enterprises, particularly for MSMEs in lower tiers of global supply chains. While  
656 many factors influence trade, the long-term sustainability of financing to support  
657 increased production, import and export levels and firms' access to finance are  
658 important factors that have been significantly affected by post-global financial crisis  
659 dynamics.

660 Numerous factors affect trade and supply chain finance. The most important ones  
661 are the environment for secured transactions, bank capital regulations and rules on  
662 counterparty due diligence. Other factors that can facilitate trade and supply chain  
663 finance are innovations such as electronic supply chain management platforms and  
664 Bank Payment Obligations (BPOs) and the wider use of regional currencies in trade  
665 settlement, which can make supply chain participants' access to working capital  
666 more efficient.

667 This year, the APFF's work on trade and supply chain finance was undertaken in the  
668 context of a slowing down of economic growth and a more rapid deceleration of  
669 trade growth, especially in the Asia-Pacific region. These trends are  
670 disproportionately affecting MSMEs and, given their significant contributions to  
671 employment across APEC (over 50 percent) and production (between 20 and 50  
672 percent of GDP),<sup>3</sup> the region's economy as well. Thus, the need to reduce barriers  
673 and inefficiencies in the trade ecosystem to facilitate businesses' abilities to conduct  
674 cross-border trade and access supply chain finance has become even more  
675 important than before.

676 Discussions undertaken by APFF and its partner institutions, including a conference  
677 organized on 9-10 March 2016 by the International Chamber of Commerce in  
678 Singapore, an informal dialogue with trade finance experts in Singapore on July 7  
679 and an APFF workshop hosted by ABAC Singapore and the Singapore Business  
680 Federation on July 8 have yielded the following insights:

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<sup>3</sup> Source:

<http://www.apec.org/Groups/SOM-Steering-Committee-on-Economic-and-Technical-Cooperation/Working-Groups/Small-and-Medium-Enterprises.aspx>

681 **Consistent Know-Your-Customer/Customer Due Diligence/Anti-Money Laundering**  
682 **(KYC/CDD/AML) standards across supply chains and awareness by all participants are**  
683 **needed to facilitate sustainable access to finance.** Of an estimated USD2.1 trillion of  
684 criminal proceeds reported in 2011, USD1.6 trillion were estimated to have been  
685 laundered through financial institutions, of which in turn less than 0.5 percent were  
686 recovered. Additionally, heavy fines were imposed on a number of financial  
687 institutions for weak financial controls, and in 2013, financial institutions accounted  
688 for most of about 2 million Suspicious Activity Reports (SARs) filed globally.<sup>4</sup> Due to  
689 the costly KYC process and regulatory risk for control failures, many banks have  
690 turned to de-risking of selected clients, industries and geographies of concern and  
691 readjusting their risk-acceptance criteria.

692 KYC/AML compliance activity is an ongoing effort that starts from client onboarding  
693 to transaction-level monitoring for suspicious and unusual activities. It is applied  
694 regardless of size to suppliers, buyers and correspondent banks involved in the  
695 whole supply chain and across geographic locations. It is comprehensive,  
696 necessarily detailed and requires sufficient resources including technology to assist  
697 in or to monitor compliance.

698 However, there are scenarios where resource-stretched businesses can neglect  
699 providing timely information to their banks. It can lead to the raising of banks'  
700 internal "red flags" on such businesses, submission of SARs to authorities and  
701 finally seeking to exit relationships when there is a perceived disproportionate  
702 increase of their risks-to-opportunity profile. Some financial institutions are working  
703 with their clients to promote a common standard in KYC/AML compliance and  
704 derisking through education, in order to reduce financial crime and regulatory risk  
705 for both the client and the bank.

706 *What this means for public-private collaboration:* KYC/AML compliance has  
707 significant impact on access to finance, and is taking up considerable resources and  
708 time of financial institutions, given the huge penalties they face for non-compliance.  
709 Greater training and awareness of KYC/AML standards throughout supply chains  
710 can reduce the incidence of KYC/AML breaches and thus, selective de-risking.  
711 Well-considered market utilities can promote efficient, effective and cost-optimal  
712 compliance.

713 **Modernization of secured transactions systems and their convergence across the**  
714 **region can reduce credit risks and promote access to finance.** Secured transactions  
715 laws establish the fundamental framework on which financing and credit risks  
716 management can be executed by banks to improve access to finance. Progressive  
717 improvements in these areas, from reforms started over a decade ago, are now  
718 showing dividends. An example of an economy that has undertaken significant  
719 reform is Vietnam, which recently enacted a civil code that incorporated best

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<sup>4</sup> Standard Chartered Bank: *De-risking, Know-Your-Customer & Anti-Money Laundering Compliance in Trade*, 8 July 2016.

720 practices in secured transactions.

721 However, a number of economies continue to have implementation gaps between  
 722 laws and practices that blunt these laws' positive impact. These gaps include  
 723 insufficient credit information and transparency, a lack of judicial precedence in  
 724 enforcement, and underdeveloped collateral management ecosystems. Economies  
 725 also face the challenges of ensuring that reforms keep pace with the faster pace of  
 726 market development and deepening the understanding of the market and its  
 727 practices by legal professionals, the judiciary and legal experts. APEC economies  
 728 currently exhibit wide variations in level of development of various aspects of  
 729 secured transactions laws, as measured by the World Bank Group. [See Table 1.]

730 **Table 1: Secured Transactions Legal Rights – APEC Economies (10 – key features are**  
 731 **all present)**

Economy	1	2	3	4	5	6	7	8	9	10	Economy Total
Australia	1	1	1	1	1	1	1	1	1	1	10
Brunei Darussalam	0	1	1	1	1	0	0	0	0	0	4
Canada	1	1	1	1	1	0	1	1	0	1	8
Chile	0	0	1	1	1	1	0	0	0	0	4
China	0	0	1	0	1	0	0	0	1	0	3
Hong Kong, China	0	1	1	1	1	0	0	0	1	1	7
Indonesia	0	1	0	1	1	0	0	0	0	0	4
Japan	0	1	0	0	1	0	0	0	1	1	4
Korea	0	0	0	1	1	1	0	1	0	1	5
Malaysia	0	1	1	1	1	0	0	0	1	1	6
Mexico	1	0	1	0	1	1	1	1	1	1	9

732 Legend – Features of a good secured transactions law:

- 733 1. Does an integrated or unified legal framework for secured transactions that extends to the creation, publicity and  
 734 enforcement of functional equivalents to security interests in movable assets exist in the economy?  
 735 2. Does the law allow businesses to grant a non-possessory security right in a single category of movable assets, without  
 736 requiring a specific description of collateral?  
 737 3. Does the law allow businesses to grant a non-possessory security right in substantially all of its assets, without requiring a  
 738 specific description of collateral?  
 739 4. May a security right extend to future or after-acquired assets, and may it extend automatically to the products, proceeds or  
 740 replacements of the original assets?  
 741 5. Is a general description of debts and obligations permitted in collateral agreements; can all types of debts and obligations  
 742 be secured between parties; and can the collateral agreement include a maximum amount for which the assets are  
 743 encumbered?  
 744 6. Is a collateral registry in operation for both incorporated and non-incorporated entities, that is unified geographically and by  
 745 asset type, with an electronic database indexed by debtor's name?  
 746 7. Does a notice-based collateral registry exist in which all functional equivalents can be registered?  
 747 8. Does a modern collateral registry exist in which registrations, amendments, cancellations and searches can be performed  
 748 online by any interested third party?  
 749 9. Are secured creditors paid first (i.e. before tax claims and employee claims) when a debtor defaults outside an insolvency  
 750 procedure?  
 751 10. Does the law allow parties to agree on out of court enforcement at the time a security interest is created? Does the law  
 752 allow the secured creditor to sell the collateral through public auction and private tender, as well as, for the secured creditor  
 753 to keep the asset in satisfaction of the debt?

754 Source: *World Bank Group*

755 *What this means for public-private collaboration.* The work of FIDN on secured  
 756 transactions, credit information and receivables needs to continue, particularly in  
 757 addressing implementation gaps between laws on one hand and regulations and  
 758 market practices on the other through activities promoting greater awareness and

759 an interdisciplinary approach.

760 **The trade and supply chain finance ecosystem is changing as a result of various**  
761 **drivers, including technology, macroeconomics environment, concerns over rising**  
762 **corporate indebtedness and delinquency, legal reforms, and banking capital**  
763 **requirements and compliance needs.** In particular:

764 a. Standardization of supply chain financing terminologies,<sup>5</sup> which took about 2  
765 years to complete, has led to more coherent approaches to trade products and  
766 risks. This is conducive to facilitating more consistent access to financing  
767 products. The business case for further standardization can be considered and  
768 its business case viability will be needed.

769 b. Credit risk management limits like Single Name Limits, a lack of domestic  
770 sources of funds and foreign currency restrictions mean that regional and  
771 multinational banks continue to provide financing from established financial  
772 centers. Their domestic market financing activities remain low key, which in  
773 other ways, allows for collaboration with domestic financial institutions.

774 c. Supply chain financing banks are increasingly utilizing third party platforms that  
775 operate like an “open architecture of banking services” to clients. Banks are  
776 moving away from being “everything to everyone” to being more specialized.  
777 Being plugged into such third party platforms will become more important for  
778 MSMEs and businesses to avail themselves of a range of financing products and  
779 services.

780 d. The development of a secondary market for risks participation, including  
781 securitization-type methods, is important to free capacity in banks’ tighter  
782 balance sheets.

783 e. Pricing for trade finance products is at an all-time low, which should facilitate  
784 access to finance. Participants need to note that this level of pricing is artificially  
785 low and is not sustainable, and a “hockey-stick” increase in pricing could occur.  
786 Businesses should perform stress-tests on their cashflow and profit & loss to  
787 better prepare for such a day.

788 f. Different jurisdictions have different degree of requirements on KYC/AML, and  
789 this lack of consistency can be confusing to businesses’ understanding. Regional  
790 and global banks will take the higher standard offered in any one of its  
791 jurisdiction that it is in, and apply it consistently across.

792 g. Consistent client onboarding documentation and approach are key to grow  
793 supply chain financing.

794 **Technology literacy can expand MSMEs’ capacity to participate in supply chains.**

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<sup>5</sup> Source: Standard Definitions for Techniques of Supply Chain Finance, by BAFT, EBA, FCI, ICC and ITFA, 2016



795 Technology is a financing enabler, and e-commerce and digital trade finance have  
796 always been a part of the APFF’s agenda on trade and supply chain finance. This  
797 agenda had initially focused on the different e-commerce models that could act as  
798 springboards for SMEs and businesses to leapfrog onto global value chains. In 2015,  
799 the APFF began emphasizing technology supply chains for companies to become  
800 more attuned with market conditions, and thus to better manage their inventory  
801 and working capital. In 2016, this emphasis has deepened for calls with greater  
802 technology literacy.

803 a. Wider technology adoption has given rise to an “Everyone-to-everyone”  
804 economy (E2E) where value creation is increasingly and more often driven  
805 by connectivity and collaboration between consumers and organizations.

806 b. Blockchain is an advanced technology with potential to promote greater  
807 operational and financing efficiency. Some examples mentioned included  
808 possible applications in letters of credit which can blend in neatly with  
809 “smart contracts”, as well as the prevention of duplicated invoice financing.

810 c. Supply Chain financing’s scale and size are now more complex, with  
811 multidirectional flows between hubs, sourcing agents, suppliers and buyers  
812 across different jurisdictions. Technology is needed to keep pace with this  
813 complexity.

814 d. Financial institutions are increasing collaborating more with 3rd party  
815 platforms to deliver focused value-adds. SMEs and businesses need to be  
816 part of such 3rd party platforms.

817 Singapore provides an example of a pilot initiative whereby authorities and industry  
818 collaborate in using blockchain technology to facilitate invoice recording and  
819 financing. It was also estimated that wider commercial applications of blockchain  
820 can occur within an estimated 2-year period. Within the mining industry,  
821 digitalization is being increasingly adopted in supply chain and finance and  
822 operational processes.

823 Technology will play an ever increasing role in trade and supply chain finance, and  
824 the considerations to its successful introduction, adoption and industrialisation will  
825 involve multifaceted issues that need collaborative approaches to solve and unlock  
826 its value.

827 Trade and supply chain finance is also linked to capital market development, in  
828 particular, the availability of a robust secondary market that can enable the  
829 securitization of trade loans and enhance the capacity of financial institutions to  
830 manage their balance sheets.

### 831 [Recommendation](#)

832 ■ ***It is recommended that APEC member economies collaborate with APFF in***  
833 ***holding public-private dialogues across all relevant agencies and stakeholders on***

834 *regulatory issues and emerging facilitators of trade and supply chain finance.*  
835 *These should aim to promote effective and regionally consistent implementation*  
836 *of capital and liquidity standards, greater awareness of Know-Your-Customer,*  
837 *Counterparty Due Diligence and Anti-Money Laundering rules, as well as*  
838 *expanded use of technology including electronic supply chain management*  
839 *platforms; wider use of Bank Payment Obligations (BPOs) and related working*  
840 *capital management techniques; and facilitating market education and*  
841 *information exchanges on the use of regional currencies such as the RMB.*

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## 843 **STRENGTHENING FINANCIAL RESILIENCE**

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844 *When Peru in the framework of the Finance Ministers' Process organized two*  
845 *disaster risk financing and insurance (DRFI) seminars in February 2016, APFF*  
846 *cooperated actively with the Peruvian organizers in the Ministry of Economy and*  
847 *Finance, participating not only in the proceedings as a speaker giving the overall*  
848 *private sector perspective about helping to increase insurance penetration in APEC*  
849 *economies, but also helping to bring in other participants from the private sector*  
850 *(two leading international CAT modelers) and a representative from IAIS who gave*  
851 *the insurance regulators' perspective.*

852 *At the same time, APFF has joined the Working Group created by eight economies*  
853 *together with World Bank and OECD, presently chaired by Peru, which will focus on*  
854 *issues of methodologies for data gathering about public assets exposure and to*  
855 *develop good quality insurance databases. It is expected from APFF to bring the*  
856 *private sector's perspective in helping the task assigned to the World Bank to build*  
857 *these methodologies.*

858 **Gregorio Belaunde Matossian, Director of Risk Management, Ministry of**  
859 **Economy and Finance, Peru**

### 860 **Disaster Risk Financing and Insurance (DRFI)**

861 The Asia-Pacific is the world's most natural disaster-prone region on the globe. For  
862 decades, the region has recorded the biggest number of natural disaster events,  
863 and the economic consequence has been enormous, which is attributable to  
864 growing concentration of population and economic activities in hazard-prone areas,  
865 and significant enough to harm economies' sovereign risk rating. APEC Finance  
866 Ministers are aware of the situation and recognize the need to develop coordinated  
867 disaster risk management strategies and to improve their approach to Disaster Risk  
868 Financing and Insurance (DRFI) as a means to build resilience in the region.

869 Being in the world's most natural disaster-prone region, Asia-Pacific policy makers  
870 are setting their sights on developing financial instruments to help mitigate the  
871 impact of disasters *ex ante*. This complements ongoing efforts to improve disaster  
872 response and disaster risk management strategies. The year 2015 saw relatively  
873 modest economic losses from natural disasters in the APEC region. Nevertheless,  
874 the region suffered from unusually strong hydro-meteorological and significant  
875 seismic events.<sup>6</sup> In that year, APEC member economies collaborated with other  
876 stakeholders to advance work on disaster risk reduction and related issues including

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<sup>6</sup> These include the severe winter storm in the U.S. (February), the thunderstorm that accompanied flash floods and storm surges in Australia (April), and Typhoon Goni which hit the Philippines and Japan (August). El Niño was blamed for bringing drought to the western part of the Pacific, including Vietnam, Malaysia, Thailand and Australia. The strong El Niño of 2015/16 has been faded, but many see global warming as an exacerbating factor for weather-related losses in the region. As regards geological risks, the 2016 Kumamoto earthquakes in Southern Japan turned out to be the second largest insured earthquake loss in the economy after the Tohoku Earthquake of March 2011.

877 climate change. Various international agreements<sup>7</sup> that were signed stress the  
878 importance of public-private sector collaboration in addressing the impact of  
879 natural disasters.

880 The Finance Ministers selected DRFI as one of the priority issues they incorporated  
881 in the Cebu Action Plan (CAP). The Ministers identified initiatives and expected  
882 deliverables under CAP, and how it should be carried out in short, medium, and long  
883 term, over the course of ten years. It is worthy of note that CAP recognizes the role  
884 of private sector players, and stresses the importance of public and private sectors  
885 working closely together. The three sets of deliverables were laid out as follows:<sup>8</sup>

- 886 ■ Establish and promote private disaster insurance schemes (medium/long term)
- 887 ■ Deepen insurance penetration within their economies and develop regional risk  
888 sharing measures (long term)
- 889 ■ Develop a roadmap and network of experts through the support of APFF for  
890 expanding the coverage of micro-insurance and disaster risk finance in member  
891 economies (medium term)

892 In response to the CAP's request to study the possibility of constructing a disaster  
893 risk data base, it was deemed necessary to start with framing the scope and  
894 granularity of what constitutes a database. Meanwhile, APFF intends to stay in close  
895 contact with ADB, OECD, WBG and other international institutions to help publish  
896 meaningful outputs to support policymaking efforts pertaining to DRFI. APFF's  
897 work will build on the studies so far published by ADB, OECD, WBG and the Geneva  
898 Association.

899 This year, APFF initiated its work on DRFI by building a network of industry experts  
900 that can collaborate especially with the IAIS, ADB, OECD and WB in achieving the  
901 CAP deliverables. This network now includes experts from the Geneva Association  
902 and insurance, re-insurance, catastrophe risk modelling and related firms. APFF also  
903 started collaborating actively with the ASEAN Natural Disaster Research and Works  
904 Sharing (ANDREWS), a working committee of the ASEAN Insurance Council (AIC).

905 APFF collaborated with the Peruvian Ministry of Economy and Finance in organizing  
906 the *APEC Workshop on Disaster Risk Financing & Insurance* on 13-14 February, 2016, in  
907 Lima, Peru.<sup>9</sup> The Workshop focused on how to improve catastrophic risk data

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<sup>7</sup> These include the Sendai Framework on Disaster Risk Reduction, the Sustainable Development Goals and the Paris Agreement of 2015.

<sup>8</sup> Besides the policy related deliverables, the plan also listed a number of studies to be carried out to support the discussion, namely, APEC disaster risk database, the Asian Development Bank (ADB) & OECD report on public finance frameworks, and OECD study on risk mitigation instruments.

<sup>9</sup> The two-day workshop on DRFI was hosted by the Peruvian Ministry of Economy and Finance. The target audience was finance ministry officials in the APEC region, and the event benefited from the inputs given by OECD and the World Bank, as well as risk modelers. Officials from the Philippines, the US, Japan, Indonesia, New Zealand and Chile each presented living examples of existing and projected cases of disaster risk pooling scheme.

908 gathering, which is fundamentally important in designing an effective DRFI system,  
 909 and what approaches can be taken to develop catastrophic risk pooling system on a  
 910 domestic level. Among its key conclusions are the following:

- 911 ■ The quality, availability and ability to share or transfer risk data are crucial in the  
 912 management of a DRFI scheme. While gathering data and modeling risks are  
 913 costly, the information thus collected is useful for risk reduction, including  
 914 awareness raising and urban planning. Ongoing international cooperation in  
 915 climate and flood data sharing needs to be intensified.

916 **TABLE 2: Timeline to Promote DRFI in the APEC Economies**

CAP Deliverables	APFF Activities	Timeline		
		2016 (Peru)	2017 (Vietnam)	2018 (PNG)
<b>1. Establish and promote private disaster insurance schemes</b>	Contribution to APEC DRFI seminars	Presented private sector perspective (@APEC DRFI Workshop 13-14 Feb., Lima, Peru)	Continue as an annual effort	Continue as an annual effort
	Assist APEC in identifying economies and perils of priority	Initiate discussions with APEC FM officials	Identify economies and perils of priority*3	Communicate with relevant officials towards implementation
<b>2. Deepen insurance penetration within their economies and develop regional risk sharing measures</b>	Enhance the availability of risk exposure data (in collaboration with the World Bank)	Initiate stock-taking on the availability of risk exposure data*1	Complete stock-taking*4	Study on risk pooling among APEC Economies
<b>3. Develop a roadmap and network of experts</b>	Formalise an expert group	Invite core expert members*2	Broaden the geographical scope	Continue efforts to expand the network
	Contribute to the drafting of the roadmap		Initiate the drafting process	Complete the roadmap

917 \*1 Design a template for stock-taking (ideally through a face-to-face meeting of the DRFI SS experts, to be  
 918 held by year-end)

919 \*2 APFF's DRFI Sub-stream has so far received support from OECD, the World Bank, the Geneva  
 920 Association, ASEAN Natural Disaster Research and Works, Citi, Munich Re, Swiss Re and Tokio Marine

921 \*3 To be worked out in conjunction with the 2<sup>nd</sup> deliverable "deepen insurance penetration" and its  
 922 identification process of economies and perils of priority (ideally through a workshop-style meeting with the  
 923 presence of finance ministry officials from the economies prone to natural disasters, to be held by first-half  
 924 of 2017 )

925 \*4 Completing the template for stock-taking (ideally through a workshop-style meeting as indicated above,  
 926 to be held by first-half of 2017)

- 927 ■ Domestic catastrophic risk pooling should be considered as part of a  
 928 comprehensive disaster risk management package, including contingent credit  
 929 lines and other forms of finance. Where insurance penetration is immature,  
 930 making the most of existing community network, such as that of banks, and

931 relevant regulatory offices can be effective. While data collection is of  
932 fundamental importance, parametric features could facilitate a quick  
933 implementation in some jurisdictions. The central government's role is crucial in  
934 establishing and managing effective DRFI schemes. However, practical  
935 expertise accumulated in private sector entities such as insurance companies,  
936 banks and risk modelers should be harnessed.

937 ■ While risk profiles and social and fiscal conditions may differ across jurisdictions,  
938 a comprehensive DRFI scheme needs to be designed and organized as a  
939 component of a disaster risk management system in each jurisdiction, involving  
940 awareness raising, risk assessment, risk reduction and sharing of data.

941 APFF also joined a working group together with eight economies, the World Bank  
942 and OECD that will develop methodologies for data gathering on public assets  
943 exposure and develop good quality insurance databases. APFF will bring the private  
944 sector's perspective in helping to build these methodologies. Finance ministry  
945 officials expressed their interest in advancing the implementation of DRFI with the  
946 support of international organizations and APFF.

947 APFF supports the Finance Ministers' inclusion of disaster risk financing and  
948 insurance (DRFI) in the CAP, identifying deliverables and their timelines to (a)  
949 establish private disaster insurance schemes and deepen insurance penetration  
950 within economies; (b) develop regional risk sharing measures, and (c) develop a  
951 roadmap and network of experts through the support of APFF for expanding the  
952 coverage of micro-insurance and disaster risk finance in member economies.

### 953 Recommendations

954 ■ *APEC member economies are encouraged to identify economies and perils of*  
955 *priority as an initial step in promoting private disaster insurance schemes as*  
956 *envisaged under the CAP. This may be undertaken through a workshop in early*  
957 *2017 with broad participation from finance ministries and related public sector*  
958 *stakeholders, multilateral institutions and the private sector through APFF.*

959 ■ *It is proposed that the Finance Ministers' Process complete the stock-taking on*  
960 *availability of risk exposure data as a step toward the aforementioned workshop*  
961 *in conjunction with the previous recommendation.*

962 ■ *It is proposed that the drafting of an APEC roadmap for DRFI be initiated as*  
963 *envisaged under the CAP, involving experts from the public and private sectors*  
964 *and multilateral institutions.*

### 965 **Microinsurance**

966 Effective risk management through microinsurance is critical for low income  
967 individuals, micro- and small enterprises, and developing economies.<sup>10</sup> An

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<sup>10</sup> Around 5.2 percent of the total market in Asia, Africa and Latin America are currently covered by

968 estimated three billion people globally are potential microinsurance customers who  
969 can generate an estimated \$30 billion in insurance premiums - a substantial market  
970 for many developing economies. New developments in mobile insurance, disaster  
971 risk management and public-private partnerships are helping to expand inclusive  
972 insurance while also requiring a paradigm shift for regulators, insurers, and others in  
973 the insurance value chain.

974 Microinsurance is an important financial product for developing economies that are  
975 exposed to frequent natural disasters. It plays a key role in disaster risk financing,  
976 where the underdevelopment of capital markets hinders the use of instruments  
977 such as natural catastrophe bonds. An example is the Philippines, where (as of 2014  
978 Insurance Commission data) 31 percent of the entire population has a coverage  
979 through Microinsurance products.

980 Microinsurance has proven very effective in helping promote recovery, in particular  
981 after the devastation caused by Typhoon Haiyan in 2013.<sup>11</sup> Microinsurance forms a  
982 key part of many micro- and small enterprises' strategy for ensuring business  
983 continuity after a risk event, in the process also enhancing their ability to access  
984 loans by mitigating lenders' risk concerns, reducing the need to seek additional  
985 loans and divert capital, and helping create risk-aware environments as more people  
986 begin to recognize the link between insurance premiums and risk levels.

987 Scale is an important driver of growth for the industry, allowing the cost of  
988 microinsurance products to be reduced as more insurers and clients are involved. It  
989 also allows the quality of insurance products to be improved. Technology provides  
990 an opportunity to achieve scale. While microinsurance coverage in most developing  
991 economies amounts to around 5 percent of the total population, their mobile  
992 penetration rates typically reach about 70 percent or more. This gap represents an  
993 opportunity for insurance providers to reach a much larger portion of the  
994 population through mobile products.

995 In the context of financial inclusion, it is important to recognize that products such  
996 as savings, credit, insurance and payments should not be addressed individually.  
997 There is a need for greater recognition among stakeholders about how these  
998 products can be integrated to increase impact and overall effectiveness in achieving

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microinsurance. This shows that much more needs to be done to increase access. There are nearly 1,000 microinsurance products currently being offered by more than 500 insurers. Currently, the primary microinsurance product is a life product, followed by an accident product. Far down the list are health insurance products. *Source: GIZ.*

<sup>11</sup> In November 2013 Typhoon Haiyan hit the Philippines with the highest wind speeds ever recorded on land. It impacted over 16 million people impacted and displaced nearly 4.1 million. It resulted in over 6,000 lives lost and an estimated USD 700 million in damage to agriculture and infrastructure. Following the typhoon, 126,363 microinsurance claims were made with payments from insurers totaling USD 12 million. The average payment to microinsurance clients was USD 108 (PHP 4,777) which was used for either housing repairs (50 percent) or restarting livelihoods (50 percent). In terms of timing, 27 percent of claims were paid within the first 4 ½ weeks of the typhoon, with 60 percent being paid by March 2014. *Source: GIZ*



999 financial inclusion. As an example, in the event of a crisis, a household would  
1000 potentially use a variety of financial products to recover including their savings,  
1001 micro loans and insurance cover. By integrating multiple products, new solutions  
1002 can be found to provide better value for customers and more effectively achieve an  
1003 environment of financial inclusion which is not limited to a single product.

1004 Finance Ministers incorporated microinsurance in the CAP under the pillar of  
1005 enhancing financial resilience. The main objectives as presented in the CAP are to  
1006 deepen insurance penetration with high quality products, develop a roadmap for  
1007 expanding microinsurance coverage and create a public-private dialogue to help  
1008 bring the different stakeholders together to work collectively in understanding the  
1009 issues and providing better risk management tools for low-income individuals and  
1010 households. More specifically, the initiative aims to enhance financial education and  
1011 facilitate better understanding of microinsurance products, strategies to promote  
1012 proportional regulation and public-private partnerships.

1013 This is also of significant relevance to MSMEs, which are also highly vulnerable to  
1014 the shocks of natural catastrophes. The result of these facts is that when natural  
1015 disasters occur, the damage to MSMEs can have significant impacts on the wider  
1016 economy and value chains. As such, analytical tools and methodologies to look at  
1017 specific needs of MSMEs are likely to provide useful information for policy makers  
1018 and other stakeholders and help enhance the quantity and quality of insurance  
1019 products available to MSMEs.

## 1020 Recommendation

1021 ■ *It is proposed that stakeholders in the APEC Finance Ministers' Process*  
1022 *undertake activities in 2017 to complete the roadmap for expanding*  
1023 *microinsurance coverage as envisioned under the CAP. Discussions on the*  
1024 *roadmap may include the following elements: (a) adoption of the toolkit*  
1025 *developed by the Regulatory Framework Promotion of Pro-poor Insurance*  
1026 *Markets in Asia (RFPI Asia) of the GIZ for integrating insurance into DRFI*  
1027 *mechanisms to help insurers develop products that are appropriate for MSMEs;<sup>12</sup>*  
1028 *(b) development of policy frameworks for establishing risk pools and other DRFI*  
1029 *instruments, provision of incentives, use of technologies, and mechanisms for*  
1030 *public-private sector cooperation; (c) creation of the legal basis for the provision*  
1031 *of mandatory insurance coverage to MSMEs; (d) capacity building for public and*  
1032 *private stakeholders regarding product development, distribution and*  
1033 *promotion of MSME insurance; (d) development of data management on*  
1034 *catastrophic events; (e) establishment of central business registries with hazard*  
1035 *mapping and catastrophe coverage for enterprises; (f) proportionate regulation*  
1036 *to support a wide range of insurance products designed for MSMEs; (g)*

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<sup>12</sup> The toolkit highlights four steps: risk assessment, disaster risk management mapping, identification of gaps and exploration of disaster risk options. Throughout these steps, the framework supports the integration of microinsurance as a key part of broader disaster risk strategies



1037 *mechanisms for public-private dialogue in developing products and solutions for*  
1038 *responses to and mitigation of disaster risk; and (h) implementation, financing*  
1039 *and coordination.*

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## 1041 **EXPANDING THE REGION'S LONG-TERM INVESTOR BASE**

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### 1042 **Retirement Income and Long-Term Investment**

1043 Long-term investors such as insurers and pension funds play critical roles in the  
1044 development of capital markets and financing of infrastructure projects, in addition  
1045 to the important functions that they play in providing financial security. With the  
1046 progressive aging of much of the region's population, their roles will become even  
1047 more important going forward in channeling long-term liabilities into long-term  
1048 assets that can provide adequate returns to meet future emergency and retirement  
1049 needs.

1050 In order to support the CAP's initiative to promote long-term investment in  
1051 infrastructure, the APFF created the Retirement and Long-Term Investment  
1052 Working Group under its Insurance and Retirement Income Work Stream and has  
1053 worked on the promotion of policies to address those three gaps. Participants  
1054 include experts from the insurance, pension, banking and securities industries,  
1055 academic specialists, consultants, regulators and international and regional  
1056 organizations (e.g. ADB, OECD).

1057 As noted in the 2015 APFF Progress Report, efforts to encourage or even compel  
1058 mandatory retirement savings in emerging APEC economies offer the opportunity  
1059 to break the Gordian Knot of a lack of investable projects, development of capital  
1060 markets, and alternative means of disaster risk financing through the mobilization  
1061 of large pools of patient, long-term capital in the form of retirement savings.

1062 Mobilization of such large pools of long-term capital would represent a "triple win"  
1063 for consumers, the financial sector and APEC governments.

- 1064 1. Consumers get high, stable returns for long-term savings.
- 1065 2. The financial sector gets deeper capital markets.
- 1066 3. Governments get relief from large contingent fiscal liabilities.

1067 The APFF will assess the "triple win" by seeking to address three gaps that are  
1068 profoundly limiting the development of both insurance/pension coverage and  
1069 capital market development in APEC economies.

1070 ■ **Pension/Protection Gap:** Data provided by Oliver Wyman, Swiss Re, OECD and  
1071 others documents a large and growing protection gap in APEC economies. In  
1072 sum, Asian households do not have adequate long-term savings or protection  
1073 for retirement. This represents a large, contingent fiscal liability for Asian  
1074 governments.

1075 ■ **Infrastructure/Investment Gap:** Data provided by the ADB and others notes a  
1076 large infrastructure and investment gap in APEC economies. Failure to mobilize  
1077 Asian savings into long-term investment leaves Asian economies, vulnerable to  
1078 the "middle income trap".

1079 ■ **Regulatory/Accounting Gap:** APEC economies, emerging economies in particular,  
1080 have been constrained by regulatory and accounting regimes that ~~were had~~  
1081 been developed for mature economies with slow economic growth (e.g.  
1082 Solvency II in EU). The regulatory and accounting framework should take  
1083 account of the above two gaps in pensions/protection and  
1084 infrastructure/investment, and promote a sustainable regulatory and  
1085 accounting regime that ~~promote encourages~~ both retirement savings and  
1086 infrastructure/long-term investments within the context of high-growth  
1087 economies (e.g. C-ROSS regime in China).

## 1088 **Pensions/Protection Gap**

1089 The need to promote long-term savings on the part of consumers is the engine that  
1090 will drive the “triple win” of provision for retirement, deepening capital markets;  
1091 and relieving governments of contingent fiscal liabilities for un-funded retirement  
1092 protection. The 2015 APFF Progress Report listed high-level recommendations to  
1093 facilitate the growth of retirement savings demand as well as retirement income  
1094 product supply, in order to promote the development of retirement income system,  
1095 to ensure adequate retirement savings as well as adequate lifetime retirement  
1096 income in the Asia Pacific. Among those measures, we note in this report the three  
1097 key means to address the pensions/protection gap: (a) mandatory provision for  
1098 retirement savings at a high enough replacement rate to fund retirement; (b) tax  
1099 relief to promote long-term savings products; and (c) product innovation and  
1100 financial awareness.

1101 ■ **Mandatory provisions:** In the US, retirement savings and pension funds account  
1102 for 50 percent of the capital market. In term of GDP, the largest economies in  
1103 Asia ex-Japan, such as China, Indonesia, India, have long-term retirement  
1104 savings of less than 10 percent of GDP, compared to the 70 percent in OECD  
1105 countries. In most of emerging markets in Asia, less than half of the labor forces  
1106 are covered by current retirement systems. Retirement assets remain small  
1107 relative to mature economies, while Asia expects 2 to 2.5 times increase in  
1108 proportion of retirees over the next few decades. Given the speed of ageing in  
1109 Asia, the current relatively small retirement asset pool, APFF urge the APEC  
1110 economies to establish mandatory and scalable retirement savings system as a  
1111 key growth engine to effectively channel short-term bank deposits into  
1112 longer-term institutional investments and productive assets. [On mandatory](#)  
1113 [pension and equitable access to a sustainable pension, for example, the](#)  
1114 [Canadian government reached initial agreement in July 2016 with the majority](#)  
1115 [of provinces on the reform of the Canadian Pension Plan. From 2019 to 2023,](#)  
1116 [pension premium payments will be raised for workers, together with the](#)  
1117 [mandatory contribution from employers.](#)

1118 ■ **Tax incentives:** Tax incentives have been the most important policy lever in the  
1119 successful markets. Possible short-term reduction in tax revenues would be  
1120 justified by bigger reduction of long-term societal costs of a growing portion of

1121 the population without sufficient retirement income. Tax incentives to  
1122 encourage the insurers to develop long-term products, ~~which~~ would have a  
1123 follow-through effect on the capital market through increased demand for  
1124 long-term funding vehicles. As tax incentive is a key tool for a scalable  
1125 retirement saving system, APFF has prepared a comparison of tax incentives by  
1126 economy. (See Appendix 1.)

1127 ■ **Product innovation and financial awareness:** In majority of Asian economies,  
1128 most retirement benefits are drawn as lump sums, and traditional annuities  
1129 have not yet proven to be ~~effective~~popular. However, new retirement income  
1130 products such as variable annuity are emerging in Asian economies. Fintech and  
1131 longevity risk pooling will be alternative model to traditional insurance solutions.  
1132 Also as in US or UK, a number of plan sponsors transfer pension risk or liabilities  
1133 risk to insurance companies (“de-risking”) for defined benefit plans. It may be  
1134 another way for insurers to contribute to retirement security. The scale and  
1135 success of retirement income solutions would depend on consumer education  
1136 as well as public awareness programs, targeting financial advisors, policymakers,  
1137 regulators and other government bodies.

#### LIAJ Recommendations on Pension reform ~~Reform proposal~~ in Japan

In ~~March~~February 2016, the Life Insurance Association of Japan (LIAJ) ~~has~~ published a recommendation that proposes a core policy to establish a sustainable social security system with appropriate coordination of public and private retirement scheme. This initiative is consistent with the APFF recommendations on retirement savings and income.

Key issues identified are:

- Rapid aging with swelling public debt, the current public pension scheme needs crucial reforms to ensure sustainability ~~may not be sustainable~~. The need to prepare retirement with complementary pension scheme.
- Under the low interest rate environment, the capacity of both public and private pensions to provide lifetime retirement income is decreasing, even as the risk of outliving retirement savings grows.

The LIAJ’s recommendation: Establish a new whole life private pension scheme “Longevity Pension” that is easy to understand and provides a stable lifetime income.

In responding to those issues, the LIAJ recommends to establish “Longevity Pension” -- a new whole life private pension scheme ~~with government subsidy~~ to complement the public pension scheme. This new voluntary pension system, which is subsidized by the government and modeled after the Riester “Longevity Pension Scheme in Germany, would provide a stable”, with key features of lifetime payout, starting at the same time with the public pension and lasting for a lifetime. It, lifetime stability and universal accessibility, would be accessible to everyone and offset the shrinking “pay-as-you-go” public pension income to support retirement security. The LIAJ believes that the appropriate balance of the public and private pension schemes would make the social security system more sustainable, provide peace of mind for the society, and empower people to better enjoy life.

(Source: LIAJ)

1138 **Infrastructure/Investment Gap**

1139 Asian savings rates are traditionally high, but generally short-term in nature. Asians  
1140 put their savings into bank deposits, rather than longer-term savings vehicles. One  
1141 reason for this is the relatively under-developed nature of capital markets in Asia.  
1142 The price of capital – expressed in interest rates – has fallen due to excess Asian  
1143 savings (supply of capital) and insufficient Asian investment project (demand for  
1144 capital). The low interest rate policies of central banks in the developed economies  
1145 have accentuated this downward pressure on global rates. The Asian “vice of  
1146 savings” and dearth of investable assets have inhibited both the global recovery  
1147 from the 2008 crisis as well as the Asian effort to escape from the “middle income  
1148 trap” and move on to the next stage of economic development.

1149 In its Interim Report 2014, the APFF identified market issues, such as  
1150 underdeveloped long-term capital market, small number of bankable projects  
1151 available, lack of infrastructure financial instruments, lack of market instruments (i.e.  
1152 derivative, hedging tools) to manage portfolio risk, and constraints on long-term  
1153 insurance business (both demand side and supply side), as well as operational issues,  
1154 such as weakness in credit rating, lack of experience, and uncertainty in legal  
1155 framework (i.e. creditors rights, resolution).

1156 We note in this report the following possible solutions, which are related and  
1157 complementary, to addressing the dearth of investable assets in Asia, particularly in  
1158 infrastructure: (a) promotion of infrastructure as a defined asset class; (b) increased  
1159 fiscal spending by Asian sovereigns within macro-economic parameters suitable for  
1160 developing economies; and (c) adoption of various financing vehicles, with a  
1161 broader public-private partnership framework to promote long-term infrastructure  
1162 investment.

1163 **Infrastructure as a Defined Asset Class:** The ADB, OECD and IIF have all identified  
1164 inadequate infrastructure investment as an impediment to economic growth and  
1165 capital market development in APEC economies. The IIF in particular has identified  
1166 10 impediments to infrastructure investment, which are: (a) underdeveloped  
1167 infrastructure asset class; (b) lack of transparency and information flow; (c)  
1168 mismatch between available infrastructure investment options and investors’ risk  
1169 profile; (d) policy uncertainty (including concerns about investor/creditor rights); (e)  
1170 banking sector adjustments (both regulatory and industry developments); (f) lack  
1171 of alignment between long-term investors’ risk profile and policy measures  
1172 designed to encourage investment; (g) high capital charges on infrastructure  
1173 investment; (h) short-term focus of institutional investors, prompted in part by  
1174 certain regulatory policies and initiatives; (i) lack of standardization in debt  
1175 instruments; and (j) underdeveloped capital markets.

1176 Infrastructure assets are generally long-term in nature. Current regulatory  
1177 treatment of infrastructure assets is largely depending on whether the investment  
1178 is in fixed income, equities or some form of private placement, **i.e. focusing on the**  
1179 **form of an instrument instead of on the underlying substance.** A holistic approach  
1180 to the asset class does not really exist. Typically, infrastructure investment will have

1181 diverse sources of funding at both the construction and operating phase. Varied  
1182 regulatory treatment and the lack of a holistic approach ~~has~~ have constrained  
1183 private sector willingness to make such long-term investment. Promotion of  
1184 infrastructure investment as defined asset class – in coordination with increased  
1185 government spending and adoption of PPP financing vehicles will go a long way in  
1186 promoting long-term infrastructure investment.

1187 **Increased Fiscal Spending:** Asian economies should be encouraged to expand  
1188 government spending on infrastructure projects both as direct fiscal outlays and as  
1189 part of public-private partnerships. The post-1997 “Washington Consensus” solution  
1190 to the Asian crisis is out of date and should be replaced with active encouragement  
1191 of increased infrastructure spending. An appropriate balance to increased fiscal  
1192 spending and sound public debt management should be adopted. The European  
1193 Monetary Union’s “Maastricht criteria” of a 3 percent limit on a country’s fiscal  
1194 deficit and a 60 percent of GDP cap on public debt could be a good place to start.  
1195 The Maastricht criteria were observed largely in the breach in Europe, but most  
1196 Asian sovereigns are prudently well below the criteria.

1197 Increasing Asian investment, while keeping Asian public finances within the  
1198 Maastricht 3 percent and 60 percent limits, offers a potential solution to the dearth  
1199 of investable assets in Asia. In addition, arguably a distinction could perhaps be  
1200 made between deficit spending which does not build up assets - for instance social  
1201 security spending - and deficit spending which does such as infrastructure. Although  
1202 both have value the former increases net debt where the latter does not although  
1203 this would require governments and rating agencies to at least qualitatively take  
1204 into account not just the liability side of an economy but its asset side as well.

1205 **PPP Financing Vehicles:** Increasing fiscal spending will not, by and of itself, increase  
1206 investment ratios in Asia or deepen capital markets. The APFF identified a series of  
1207 financing vehicles that can help mobilize long-term retirement savings into  
1208 investable assets to provide long-term retirement savings returns to consumers as  
1209 well as propel economic growth to the next stage of development. The APFF  
1210 Progress Report 2015 identified the following financing vehicles: Infrastructure  
1211 Funds, Business Trusts, Guarantees, BOT, Securitization, and co-financing with  
1212 multilateral development banks.

1213 For example, guarantees for construction risks is an example of an effective tools to  
1214 facilitate cost efficient financing by long-term investors. Infrastructure financing  
1215 needs long term debt funding from insurers and pension funds. However, according  
1216 to the feedback from long-term fund managers, construction risks are typically a  
1217 key bottleneck for long-term investors. The Credit Guarantee & Investment Facility’s  
1218 (CGIF)’s Construction Period Guarantee covers 100 percent of the bonds and  
1219 interest payment until the project is completed. It would allow long-term investors  
1220 to participate from the inception of the project. Rating should not be constrained  
1221 by construction risks. CGIF may syndicate to other guarantors (banks) to participate  
1222 in the future.



### **Credit Construction Period Guarantee by CGIF**

On July 1, 2016, the CGIF, a trust fund of the ADB, announced the launch of **Credit Construction Period Guarantee (CPG)**, a new guarantee product aimed at addressing concerns of construction risks from conservative long term investors about greenfield infrastructure projects.

Besides assuring investors of the completion of construction works, CPG is designed to frame the boundaries of risks during the construction period to acceptable levels. This assessment framework that underpins CGIF's CPG product is envisaged to drive the quality of the regions' projects to higher levels in particular with respect to mitigating construction related risks.

CGIF is now in search of a suitable project in the ASEAN region to roll out a pilot implementation of CPG. While it will still take considerable effort to conclude the first CPG supported project bond from this point, the benefits anticipated from its success will accrue for many years to come. This will represent a significant milestone for the development of project bonds and local currency bond markets not only in CGIF's focus countries but globally.

*(Source: CGIF)*

1223 ~~For example, guarantees for construction risks is an example of effective tools to~~  
1224 ~~facilitate cost efficient financing by long term investors. Infrastructure financing~~  
1225 ~~needs long term debt funding from insurers and pension funds. However, according~~  
1226 ~~to the feedback from long term fund managers, construction risks are typically a~~  
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1230 ~~participate from the inception of the project. Rating should not be constrained by~~  
1231 ~~construction risks. CGIF may syndicate to other guarantors (banks) to participate in~~  
1232 ~~the future.~~

### 1233 **Regulatory/Accounting Gap**

1234 In an environment with adequate supply and access to long-term investments,  
1235 there are hurdles to invest in these assets from the regulatory and accounting  
1236 perspectives.

1237 Key issues include:

- 1238 ■ lack of coordination between pension policy and tax and securities regulations;
- 1239 ■ investment policies that lack sustainability and risk management measures to  
1240 achieve adequate returns;
- 1241 ■ what incentives and disincentives arise from regulatory and accounting regimes  
1242 with respect to insurers and pension funds' engagement in providing  
1243 retirement and longevity solutions;
- 1244 ■ impact of economic accounting and the choice of measures on pension funds  
1245 and products to serve the needs of ageing society; and

1246 ■ how regulatory requirements may take into account, in coordination with the  
1247 private sector, the diversity of social security systems, needs and consumer  
1248 behavior and development stages across the Asia-Pacific region.

1249 In its 2014 Interim Report, the APFF identified regulatory and accounting issues and  
1250 high-level recommendations to implement approaches in promoting long-term  
1251 investment and longevity solutions by insurers and pension funds. The APFF also  
1252 collaborated with ABAC, which submitted a comment letter to the IAIS on the  
1253 global risk-based Insurance Capital Standards (ICS) on 20 January 2015, a comment  
1254 letter to the IASB/FASB on insurance contracts on 10 October 2013 and a comment  
1255 letter to the IASB on the Conceptual Framework for Financial Reporting.

1256



**Address by Mr. Tharman Shanmugaratnam, Deputy Prime Minister and Chairman, Monetary Authority of Singapore, Global Insurance Forum on 13 June 2016**

*As the host of International Insurance Society (IIS)'s Global Insurance Forum that took place in Singapore on 13 June 2016, Mr. Tharman Shanmugaratnam delivered the welcome address and highlighted infrastructure financing as one of the three major opportunities for the insurance sector: infrastructure financing, catastrophic insurance and cyber insurance.*

*The following is the part of his speech regarding Infrastructure Financing:*

First, infrastructure financing. It is a huge opportunity in Asia. Whichever infrastructure you look at – transportation, communication and power links, water and environmental sustainability – in every area the needs are growing, the need to remove bottlenecks to economic growth and social development are growing.

Traditionally, it has been a sector that has been financed by governments and banks. Governments will be constrained in the future, across the region. Although banks currently have ample liquidity, they too will over time become more constrained. So that combination of governments and banks isn't going to be able to cope with the rapid growth in financing for infrastructure in the future.

This is why institutional investors – insurers, pension funds and other long term investors – have become very important. For insurers, infrastructure is an attractive asset class. It is attractive as a potential diversifier of assets, and has the potential to provide reliable inflation-linked returns over time, and with low correlation to other conventional assets.

But we need quality data for infrastructure to take off as an asset class for long term investors. We need quality data for reliable performance benchmarks to be constructed, and to allow long term investors to perform asset allocation on a reasonably reliable basis. That quality data doesn't yet exist but it is being put together by the EDHEC Infrastructure Institute in Singapore. By the end of this year they expect to have usable performance benchmarks, including for unlisted infrastructure debt and equity. The data has not been transparent, especially for privately-held investments, it has not been put together, and this is what EDHEC is doing. So that's one dimension of it. Getting the data together to allow institutional investors to allocate a desired portion of funds to infrastructure as an asset class.

Second, the regulatory treatment for insurers has to evolve so as to make possible long term investments, including infrastructure investment. Some rethinking is already underway globally on the design of capital frameworks for insurers. It has to be aimed first of all at ensuring that individual insurers are on a sound prudential footing, not just for the short term but for the long term. It should also support efforts to ensure that our economies are able to grow and to remain healthy, which is also in the interests of every player. This means we have to support long term investment.

The European regulators are already in close consultation with the industry, on providing some measure of capital relief for long term investments. Globally too we have to do this. We need lower risk charges for equity held by insurers for the long term, including infrastructure. I hope globally regulators will arrive at an understanding that makes this possible. Here in Singapore, MAS is engaging closely with the industry in this regard. We will be having another round of public consultation at the end of this month on our risk-based capital framework for insurers (or "RBC 2"). The aim is to finalize our proposals for providing capital relief for long-term assets which match the cash flows of the liabilities. We will also be raising questions, as part of this review, on the merit of having a different set of risk charges for infrastructure in particular. (Source: MAS)

1257 **Regulatory/Accounting Gap**

1258 ~~In an environment with adequate supply and access to long-term investments,~~  
1259 ~~there are hurdles to invest in these assets from regulatory and accounting~~  
1260 ~~perspectives. Key issues include what incentives and disincentives arise from~~  
1261 ~~regulatory and accounting regimes with respect to insurers and pension funds'~~  
1262 ~~engagement in providing retirement and longevity solutions, impact of economic~~  
1263 ~~accounting and the choice of measures on pension funds and products to serve the~~  
1264 ~~needs of ageing society, and how regulatory requirements may take into accounting~~  
1265 ~~diversity of social security system, needs and consumer behavior and development~~  
1266 ~~stage across the Asia Pacific region.~~

1267 ~~In its Interim Report 2014, the APFF identified regulatory and accounting issues and~~  
1268 ~~high-level recommendations to implement approaches to promote long-term~~  
1269 ~~investment and longevity solutions by insurers and pension funds. The APFF also~~  
1270 ~~collaborated with ABAC, which submitted a comment letter to the IAIS on the~~  
1271 ~~global risk-based International Capital Standards (ICS) on 20 January 2015, a~~  
1272 ~~comment letter to the IASB/FASB on insurance contracts on 10 October 2013 and a~~  
1273 ~~comment letter to the IASB on the Conceptual Framework for Financial Reporting.~~

1274 Based on the list of identified issues and recommendations, the APFF has  
1275 continuously engaged in active outreach and dialogue to exchange views on  
1276 regulatory and accounting matters with policymakers, international and regional  
1277 institutions, such as the IAIS, IASB, OECD, ADB, ASEAN, as well as various insurance  
1278 regulatory authorities in the Asia Pacific, including those in Indonesia, Japan, China,  
1279 Singapore, Malaysia, Brunei, Mexico, Chile, Peru, USA, Canada, Korea, Chinese Taipei,  
1280 Thailand, Vietnam and Hong Kong. In particular, the ASEAN Insurance Council (AIC)  
1281 contributed to the APFF's effective and efficient communication with the ASEAN  
1282 Insurance Regulators and Industries. The APFF also works closely with OECD and  
1283 ADB in coordinating on related initiatives.

1284 The main regulatory issues identified by the APFF, in particular for insurance  
1285 companies and corporate pension funds, are the following:

1286 ■ **Bank-centric regulations:** Insurance Capital Standards should take into account  
1287 the specific nature of the insurance business. It should avoid bank-centric  
1288 capital weighted rules, and consider the characteristics of long-term assets  
1289 supporting long-term liabilities as well as the effect of asset diversification.  
1290 High-risk changes for long-term investments may discourage insurers to provide  
1291 such investments. Regulation should be designed in a way to promote and  
1292 incentivize the insurers' role to stabilize the financial system and market and its  
1293 ability to manage risk efficiently.

1294 ■ **Short-term oriented economic regime:** An economic based regime should have a  
1295 long-term vision. Short-term oriented economic valuation may produce  
1296 significant volatility for long-term business, which may not be relevant to the  
1297 insurers' capacity to meet long-term obligations. While economic information

1298 may be a useful indicator in determining a future long-term direction, Insurance  
1299 Capital Standards should avoid the introduction of a regulatory regime that  
1300 would require immediate regulatory actions in response to short-term market  
1301 fluctuations. Measures should be taken to mitigate impact on long-term  
1302 protection business and the assets supporting such contracts.

1303 ■ **“One-size-fits-all” model:** International standards should be principle-based and  
1304 aim to achieve comparable outcome by taking into account the diversity in the  
1305 region. Due to the difference in business models and existing regulatory  
1306 framework, the application of prescriptive international standards would not  
1307 ensure the overall comparability or level playing field in the region.

1308 ~~The r~~Regulators are now generally aware of the issues and considering various  
1309 measures to mitigate negative impact on long-term business and investments. Also  
1310 noted was that our recommendations might be helpful to tackle ~~with a~~the  
1311 low-interest rate environment that a number of APEC economies are facing. The  
1312 APFF was requested to provide input by a number of regulators in the Asia Pacific.  
1313 We observe some examples of regulatory measures in APEC economies (e.g.  
1314 C-ROSS in China), which appear largely in line with the APFF recommendations.

**Key messages from Mr. Yulong Zhao, Deputy Director, China Insurance Regulatory Commission (CIRC) in Hong Kong on 13 July 2016**

During the APFF Insurance and Retirement Income Work Stream Meeting that took place in Hong Kong on 13 July 2016, Mr. Yulong Zhao, Deputy Director General of Finance and Accounting, Solvency Department, CIRC, made a presentation on the China Risk Oriented Solvency System (C-ROSS), which was implemented in China in January 2016.

The following are some key messages from his presentation:

C-ROSS is not aiming to be an advanced solvency regime but a suitable one for China's current market development stage.

Differences stemming from fundamental institutional characteristics of jurisdictions are difficult to overcome with a one-size-fits-all approach. Global regulatory convergence can begin with regional convergence among jurisdictions having similar market features.

There is no best solvency system but only the most suitable solvency system for:

- the current stage of market development;
- business models to fulfill insurance needs and long-term finance needs; and
- level of maturity of associated markets.

(Source: CIRC)

1315

1316 The ABAC comment letter urged the IAIS to take the necessary time to develop high  
1317 quality standards rather than compromise on quality to meet an ambitious deadline,  
1318 noting that it may allow the IAIS to benefit from experience of numerous regulatory  
1319 changes implemented or developed in EU, US and many other economies in the  
1320 Asia Pacific. The IAIS has subsequently revised the timeframe and is now taking  
1321 sufficient time and several steps in developing ICS. The APFF intends to monitor its

1322 development and assist them as appropriate in standard setting and  
1323 implementation to reflect perspectives from the Asia Pacific region.

1324 The issues above are also relevant to accounting standards. Additional comments  
1325 on accounting by the APFF included the following:

1326 ■ **Volatility in balance-sheet:** Under accounting regime based on the current  
1327 market, short-term volatility tends to be significant for long-term business and  
1328 may not provide useful information for long-term investors, who wish to  
1329 determine such investments that are good in the long run, rather than appear  
1330 good at a given moment. Valuation should reflect the long-term nature of  
1331 business activities. In particular, the interaction between assets and liabilities  
1332 should be properly reflected. The scope of contracts for which the insurance  
1333 liabilities and the related assets are consistently measured and presented,  
1334 reflecting the assets-liabilities interaction could be expanded to include all  
1335 contracts, including those where all or part of the cash flows are dependent on  
1336 returns from underlying items. Choice of discount rate should be reflective of  
1337 the business model of the issuers of the contracts.

1338 ■ **Volatility in income statement:** Short-term fluctuations in the statement of  
1339 profit or loss may distort the relevant of the information on performance for  
1340 the period, where such fluctuations are irrelevant for predicting the cash flows  
1341 of the entity. A wider use of OCI both in assets and liabilities should be  
1342 permitted to better reflect the long-term nature of the business. Nevertheless,  
1343 the use of OCI should be optional taking into account different business models,  
1344 in order to avoid accounting mismatch between assets and liabilities.

1345 ■ **Business activities:** Financial statements are more relevant if standards reflect  
1346 how an entity conducts its business in terms of (a) the unit of account, (b) the  
1347 selection of a measurement basis for an asset or a liability and related income  
1348 and expenses, and (c) presentation and disclosure, including items of income  
1349 and expenses in OCI. Consideration of business model may provide a faithful  
1350 representation of the economic reality and result in more relevant information.

1351 ■ **Consistency and transition requirements:** Treatment of changes in estimated  
1352 cash flows and that of discount rates should be consistent to reflect economic  
1353 reality and to provide relevant and useful information to users. The  
1354 retrospective measurement of CSM (contract service margin) for existing and  
1355 past long-duration contracts would be extremely burdensome and costly and  
1356 often practically impossible due to lack of data, and may have significant  
1357 financial impact. Flexibility should be given in adopting transition requirements  
1358 to reduce operational difficulties and minimize financial impact at transition.  
1359 One solution may be to take a full prospective approach.

1360 ■ **Complexity and presentation:** In order to avoid practical burdens and costs on  
1361 preparers, unnecessary complexities should be removed. It would improve  
1362 understandability for users. One measurement for all insurance contracts

1363 should be used without bifurcation of cash flows, in order to reflect how  
1364 contracts are designed and managed. As for presentation, the metric should be  
1365 comparable to conventional accounting practice to maintain comparability and  
1366 avoid competitive disadvantage for insurers using IFRS. The metric should  
1367 reflect the need of general users.

1368 Notably, the APFF held bilateral meetings with some IASB Board Members and Staff  
1369 to exchange views on insurance contracts as well as conceptual framework. The  
1370 IASB welcomed an opportunity to share perspectives ~~from~~ with the Asia Pacific and  
1371 engage in constructive discussions on key issues, since it may ultimately facilitate  
1372 the implementation of IFRS in the region. As a result, we observed some  
1373 improvements of the proposed IFRS.

1374 The IASB is revising IFRS4 Phase I to allow the insurers under certain conditions to  
1375 defer applications of IFRS9 to address the mismatch between assets and liabilities,  
1376 arising from the different effective dates of IFRS9 and IFRS4. This change would be  
1377 in line with the APFF recommendation to promote consistent measurement of  
1378 assets and liabilities. The final standard is expected to be issued in September 2016.

1379 The IASB is also working on the IFRS4 Phase II on insurance contracts. After the  
1380 Board ~~have~~ has completed key decisions, it is now the drafting phase by the Staff.  
1381 Field testing with some selected insurers is planned this summer. The final standard  
1382 is expected to be issued ~~either the end of 2016 or more likely the first quarter of in~~  
1383 early 2017.

1384 Through Board discussions and dialogue with stakeholders, the IASB has made  
1385 changes from the 2013 Exposure Draft, including the permission of optional OCI, a  
1386 measurement model for participating contracts under some conditions where  
1387 changes in the estimate of the future fees that an entity expects to earn from  
1388 participating contract policyholders are adjusted against the CSM (so-called  
1389 “variable fee approach”), and alternative approach for CSM at transition. A number  
1390 of requirements were streamlined. These changes would address some of the  
1391 issues identified by the APFF.

1392 Remaining key issues include (1) unit of account, and (2) scope for variable fee  
1393 approach ~~direct participating contracts~~. While the IASB made some favorable  
1394 changes on these two points, there are some technical issues yet to be addressed.  
1395 The APFF intends to be involved in drafting and implementation process, in  
1396 cooperation with the European and North American industry representatives, who  
1397 share similar concerns, and assist the IASB in delivering the final standards to reflect  
1398 economic reality and long-term nature of the business, and not dis-incentivize  
1399 insurers’ long-term investments and business.

1400 Lastly, the APFF identified regulatory issues other than insurers’ solvency regime,  
1401 such as investment regulations and pension funds, and securities/capital market  
1402 regulations that may affect the ability of the insurers and pensions to provide  
1403 long-term investments. For example, restrictions or excessive reserving

1404 requirements for derivatives may be an important constraint for long-term  
1405 investment in infrastructure. These problems are often beyond the responsibility of  
1406 insurance regulators, and the coordination with other financial sector regulators  
1407 and industry (i.e. banking, securities) would be crucial to address this topic more  
1408 holistically.

#### 1409 **Participation in conferences and seminars**

1410 In addition to the above-mentioned dialogue with stakeholders, APFF contributed  
1411 or plan to contribute in 2016 to a number of events by providing speakers and  
1412 panelists and/or helping planning the agenda<sup>13</sup>.

1413 ~~In 2015 and 2016, APFF has had numerous dialogues with insurance regulators, but~~  
1414 ~~the totality of stakeholders that influence whether recommendations are adopted~~  
1415 ~~is bigger than that. Which stakeholders are the most influential (e.g. trade bodies,~~  
1416 ~~regulators, infrastructure investors, central banks) will vary, but APFF will try to~~  
1417 ~~reach as many of them as possible in the future.~~

#### **Annual Indonesia Infrastructure Finance Conference, Jakarta on May 24**

The APFF provided speakers for the 2nd Annual Indonesia Infrastructure Finance Conference organized by Euromoney in Jakarta on May 24.

- The objective was to make the case on the panel and in meetings around the conference to regulators and members of the Indonesian government regarding:
- The need for long dated investments opportunities for Indonesian pension funds and insurers which would enable them to construct and sell long dated retirement solutions - long dated policies can only be prudently sold if long dated matching assets exist
- The attractiveness of Indonesian infrastructure projects for international pension funds and insurers who already invest globally in infrastructure and have a similar need for long dated assets

<sup>13</sup> 2016 Conferences on the Insurance and Pension Topics contributed or to be contributed by the APFF:

- OECD/ADBI Roundtable on Capital Market and Financial Reform, Tokyo, 22-23 March
- G20/OECD Roundtable on Institutional Investors and Long-Term Investment, Singapore, 25 April
- Workshop & Dialogue with Trade and Financial Officials & Experts on Islamic Infrastructure Investment Platform, Kuala Lumpur, 10 May
- Indonesia Infrastructure Finance Conference, Jakarta, 23-24 May
- Global Insurance Forum, Singapore, 12-15 June
- OECD/ADBI Roundtable on Insurance and Retirement Saving, Tokyo, 22-23 June
- APFF Symposium Public-Private Collaboration to Develop APEC Financial Markets –Achievements and Way Forward, Shenzhen, 1 August
- NAIC Asia Pacific International Forum, San Diego, 23-25 August.
- [APIC ASEAN+JAPAN Pension Funds and Social Security Systems Summit, Manila, 21 September](#)
- [IIF International Colloquium on International Insurance Regulatory Issues, Basel, 22-23 September](#)
- East Asian Insurance Congress, Macau, 11-14 October
- APEC ~~Senior~~ Finance ~~Officers~~ ~~Ministers'~~ Meeting, Peru, 12-15 October
- IAIS Annual Conference, Asuncion, 10 November
- ASEAN Insurance Summit/ASEAN Insurance Regulators Meeting, Yogyakarta, 21-24 November.



■ The benefit for Indonesian infrastructure project of having such local and international long term patient capital in their financing mix

■ Provide recommendations on how 1. and 2. may be achieved.

The APFF finds providing support on a specific APEC economy may be effective, and intends to coordinate with external bodies, including IIF, and follows-up this case through the ASEAN Insurance Council.

1418

1419 In 2015 and 2016, APFF has had numerous dialogues with insurance regulators, but  
1420 the totality of stakeholders that influence whether recommendations are adopted  
1421 is bigger than that. Which stakeholders are the most influential (e.g. trade bodies,  
1422 regulators, infrastructure investors, central banks) will vary, but APFF will try to  
1423 reach as many of them as possible in the future.

1424 **Recommendations**

1425 ■ ***APEC economies should consider the establishment of mandatory and scalable***  
1426 ***retirement systems. A mandatory system provides the scale necessary to***  
1427 ***effectively channel the region's huge savings currently concentrated in***  
1428 ***short-term bank deposits into longer term institutional investments and***  
1429 ***productive assets. Retirement savings can help professionalize the financial***  
1430 ***system through deeper domestic capital markets and expanded roles of long***  
1431 ***term investors such as insurers and pension funds. Scalability is provided by***  
1432 ***implementing strong tax incentives to encourage higher levels of retirement***  
1433 ***savings. Altogether the system promotes public financial awareness, ensuring a***  
1434 ***diverse range of retirement income products and improved financial security for***  
1435 ***progressively aging populations in the region.***

1436 ■ ***APEC economies should promote infrastructure investment as a defined asset***  
1437 ***class to facilitate more holistic regulatory treatment that can encourage more***  
1438 ***private sector infrastructure investment. Inadequate infrastructure investment***  
1439 ***has been a long-standing issue in emerging Asia (outside of China), as***  
1440 ***documented by the ADB and others. At the same time, high Asian savings have***  
1441 ***been channeled into short-term bank deposits and the government bonds of***  
1442 ***mature market economies. Promotion of infrastructure as a defined asset class***  
1443 ***will help break the Gordian knot between a dearth of investable long-term assets***  
1444 ***and the glut of Asian savings.***

1445 ■ ***APEC economies should adopt accounting, solvency, investment, and securities***  
1446 ***standards supportive of the development of retirement savings and***  
1447 ***infrastructure investment. To encourage insurers and pension funds to engage in***  
1448 ***long-term investments and retirement solutions, barriers of regulations and***  
1449 ***accounting should be removed, and policies that are suitable for long-term***  
1450 ***business should be promoted. Global solvency and accounting standards should***  
1451 ***be designed in a way to incentivize companies to improve risk management and***

1452 *adopt best practice.*

1453 ■ *It is recommended that APEC Finance Ministers encourage the participation of all*  
1454 *relevant public sector stakeholders in dialogues with the private sector to*  
1455 *address barriers to long-term investment. APFF intends to promote active*  
1456 *participation of the private sector in conferences organized by network members*  
1457 *and to convene workshops in the region involving a wide range of stakeholders.*

#### 1458 **Mobilizing Islamic Finance for Infrastructure Investment**

1459 Islamic finance has significant potential to meet long-term funding needs for  
1460 infrastructure projects, which are suitable for its asset-based and risk-sharing nature.  
1461 The global Islamic capital market has been growing in size and depth across  
1462 jurisdictions, with a combined market capitalization of over \$21.5 trillion spread  
1463 across 70 jurisdictions now covered by the Dow Jones Islamic Market indices.

1464 At the 2015 APEC Finance Ministers' Meeting hosted by the Philippines in Cebu,  
1465 ministers and the private sector discussed the development of an Islamic  
1466 Infrastructure Investment Platform (I3P), in order to facilitate the mobilization of  
1467 capital in Islamic institutions to fund infrastructure across the region. In October  
1468 2015, the government of Brunei Darussalam hosted a workshop in collaboration  
1469 with the APEC Business Advisory Council (ABAC) Brunei, the APIP and the APFF. In  
1470 May this year, the government of Malaysia, in collaboration with ABAC Malaysia,  
1471 hosted an APFF workshop to develop concrete proposals.

1472 Participants in the workshop agreed on the following proposed features of I3P:

1473 ■ I3P would provide a platform for collaboration among public, private,  
1474 international and academic experts to address the key obstacles to the  
1475 expansion of cross-border investment by Islamic financial institutions, especially  
1476 long-term investment from takaful and Islamic pension funds, in infrastructure  
1477 projects in APEC economies.

1478 ■ I3P would be a pathfinder initiative involving initially Brunei, Malaysia and other  
1479 interested APEC member economies, that can be open to participation by other  
1480 APEC members as it develops. It is hoped that I3P's success in addressing key  
1481 issues would lead to more cross-border investment in infrastructure among  
1482 participating economies, as well as more investment from leading Islamic  
1483 financial centers to the region.

1484 ■ I3P would be an initiative under the FMP to be championed jointly by Brunei,  
1485 Malaysia, ABAC, and any other interested APEC economies. The pathfinder  
1486 economies will also invite ADB and the World Bank Group to support the  
1487 initiative. It would seek the collaboration of related FMP policy initiatives such  
1488 as the APFF and APIP, both of which will mobilize experts from their respective  
1489 networks, as well as other institutions such as the Islamic Development Bank  
1490 and the Sustainable Infrastructure Foundation.



- 1491 ■ I3P will have a small secretariat based in a location agreed upon by the  
 1492 pathfinder economies. The funding for the secretariat may be provided by the  
 1493 public or private sector or both, or may be shouldered by an existing  
 1494 organization.
- 1495 ■ During the initial stage, a small APFF task force led by the Brunei private sector  
 1496 would play a provisional secretariat role, while undertaking activities and  
 1497 discussions leading to the establishment of the secretariat. The role of the  
 1498 secretariat would be mostly coordination and maintenance of a directory of  
 1499 experts participating in the initiative.
- 1500 ■ Actual work would be undertaken by public, private, international and academic  
 1501 experts on a volunteer basis, organized around a number of work streams led  
 1502 by volunteer Sherpas agreed upon by the pathfinder economies.
- 1503 ■ Activities would be undertaken on a self-funded basis. Participating  
 1504 organizations will be encouraged to host activities. Participants will be  
 1505 responsible for financing their own travel and accommodation through their  
 1506 own institutions or sponsors. Funding may be solicited from appropriate  
 1507 sources for projects that require significant dedication of time and effort, such  
 1508 as research projects or surveys.
- 1509 ■ During the initial stage, I3P would have the following work streams to address  
 1510 key issues identified during the first two workshops: (a) development of  
 1511 common definitions of Sharia-compliant infrastructure projects and financial  
 1512 instruments acceptable in all pathfinder economies, taking into account the  
 1513 proposals to define infrastructure and real assets and their incorporation in an  
 1514 enabling Islamic investment infrastructure environment referred to later in this  
 1515 report; (b) development of Islamic hedging instruments; (c) development of  
 1516 financial instruments suitable for infrastructure investment from Islamic  
 1517 pension funds and takaful; (d) identification of discriminatory tax policies in  
 1518 pathfinder economies and actions to address them; (e) development of a virtual  
 1519 place to coordinate directory of experts, definitions, funders, participating  
 1520 economies, qualifying infrastructure projects to help progress various initiatives  
 1521 under this platform; and (f) collaboration with the International Infrastructure  
 1522 Support System (IISS) in developing project preparation tools for participating  
 1523 economies.

1524 **Recommendation**

- 1525 ■ ***APEC should establish an Islamic Infrastructure Investment Platform (I3P) as a***  
 1526 ***pathfinder initiative to provide a platform for collaboration among public,***  
 1527 ***private, international and academic experts to address the key obstacles to the***  
 1528 ***expansion of cross-border investment by Islamic financial institutions, especially***  
 1529 ***long-term investment from takaful and Islamic pension funds, in infrastructure***  
 1530 ***projects in APEC economies. I3P should address in its work the definitions of***  
 1531 ***infrastructure and financial instruments; Islamic hedging instruments; financial***

1532 *instruments for pension funds and takaful; discriminatory tax policies; directory*  
1533 *of experts, definitions, funders, participating economies and qualifying*  
1534 *infrastructure projects; and collaboration with the International Infrastructure*  
1535 *Support System (IISS).*

1536

## 1537 **DEEPENING THE REGION'S CAPITAL MARKETS**

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1538 *The APFF's information in capital markets self-assessment templates have*  
1539 *been a useful tool for the Philippines to assess how easy it is for investors to*  
1540 *access information about our market. We look forward to using them in*  
1541 *discussions with investors in the future and support this initiative toward*  
1542 *building transparency across Asia Pacific.*

1543 **Ephyro Amatong -- Commissioner, Philippines Securities and Exchange**  
1544 **Commission**

1545 *We welcome the support of the APFF and would see APFF involvement as an*  
1546 *important signal that the industry in the region is very much engaged and*  
1547 *supportive of the Asia Region Funds Passport initiative.*

1548 ***A senior official of the Australian Treasury***

### 1549 **Promoting Liquid Repo and Derivatives Markets**

1550 Capital markets, particularly local currency bond markets, are of crucial importance  
1551 for the region's financial stability, economic growth, and the efficient channeling of  
1552 long-term savings to investment in long-term assets like infrastructure. Various  
1553 initiatives have successfully brought about the rapid growth of Asian government  
1554 bond markets, a key stage in the process of capital market development. The next  
1555 stage, which is increasing market depth and liquidity, will be critical to the sustained  
1556 growth and development of the region's capital markets.

1557 Last year, Finance Ministers decided to include the development of capital markets  
1558 as one of the deliverables under the CAP. The APFF has organized its work program  
1559 in line with the Ministers' direction to promote the development of liquid repo  
1560 markets, legal and documentation infrastructure facilitating risk mitigation,  
1561 transparency of capital markets (issuer disclosure, bond market data, investor rights  
1562 in insolvency), and a regional securities investment ecosystem to promote  
1563 cross-border investment in capital markets. Through the APFF, ABAC is engaging  
1564 with regulators in individual member economies as well as with the ASEAN+3 Bond  
1565 Market Forum.

1566 The development of liquid, deep, classic bond repurchase (repo) markets is critical  
1567 to the deepening of the region's capital markets and the real economy. The APFF  
1568 seeks to drive public-private collaboration in the development of classic repo  
1569 markets in Asia. This collaboration allows public and private sector stakeholders to  
1570 share international best practices and develop new lines of communication that  
1571 may not otherwise exist. As a result, this enables participants to identify and  
1572 address impediments in legal architectures, improve market infrastructure,  
1573 standardize market conventions, and provide industry best practices.

1574 Deep and liquid repo markets help deepen capital markets and support the real

1575 economy. Specifically, repo markets support the real economy by:  
1576 ● increasing liquidity in local currency bond markets;  
1577 ● expanding the pool of available finance and improving financial institutions'  
1578 ability to meet their financing needs;  
1579 ● mitigating the reduction in market liquidity due to regulatory change;  
1580 ● allowing the movement of securities across the region;  
1581 ● improving investor confidence and participation in local bond markets;  
1582 ● reducing funding costs for governments, pension funds, asset managers and  
1583 other long-term investors;  
1584 ● developing market infrastructures that are necessary to serve the real  
1585 economy; and  
1586 ● offering hedging tools which contribute to risk management

1587 There are several policy issues to address in fostering an enabling environment for  
1588 repo markets. In particular, the necessary conditions to develop cross-border repo  
1589 markets are: (i) deep bond market liquidity; (ii) sound legal framework that protects  
1590 creditors' rights in bankruptcy and insolvency proceedings; (iii) robust investor  
1591 participation; (iv) neutrality in tax treatment; and (v) efficient and interoperable  
1592 market infrastructures to support cross-border repo markets.

1593 In August 2015, the Asia Securities and Financial Markets Association (ASIFMA) and  
1594 the International Capital Markets Association (ICMA) launched their ASIFMA-ICMA  
1595 Guide on Repo in Asia. The report is divided into two sections: Section I on "Laying  
1596 the Policy and Regulatory Foundation for Efficient Asian Repo Market Development"  
1597 and Section II by ASIFMA and ICMA "Best Practices across the Repo Trade  
1598 Lifecycle". It takes a comprehensive view of all aspects of repo market  
1599 development in Asia and addresses three key issues: 1. Why is it important to  
1600 develop the repo market in Asia? 2. What are the main challenges facing the repo  
1601 market in Asia? 3. What is best practice in the repo market - and how can it be  
1602 implemented?

1603 APFF also continues to engage with domestic regulators and governments to  
1604 encourage the further development of classic repo markets and increasing  
1605 secondary market liquidity in the region. In particular, APFF is providing a platform  
1606 for holding repo market workshops in interested economies to share the findings of  
1607 the Repo Best Practices Guide, as well as exchange ideas for local adoption of the  
1608 best practices and recommendations.

1609 Over the counter (OTC) derivatives play critical roles in capital markets, as they are  
1610 used by firms to manage balance sheet liabilities and cash flows as well as hedge  
1611 various economic risks, including interest rate and foreign exchange risks. A number  
1612 of new regulations introduced to improve transparency, mitigate systemic risk and  
1613 prevent market abuse are changing the landscape for these instruments, including  
1614 in ways not intended but posing challenges in terms of their impact on hedging  
1615 costs, bid-offer spreads and ease of trading. Emerging Asia faces additional risks of  
1616 growing fragmentation with the emergence of a multiplicity of clearing systems

1617 handling relatively small transaction volumes.

1618 The sub-stream dealing with these issues aims to help policy makers and regulators  
1619 identify and address key issues that affect the effectiveness and connectivity of OTC  
1620 derivatives clearing houses in the region. An important focus of this work is the  
1621 legal and documentation infrastructure required to support safe, efficient markets.  
1622 Contractual legal certainty and protection of collateral rights are vital building  
1623 blocks that allow capital markets to facilitate capital investments, extend credit and  
1624 provide business risk mitigation hedging tools.

1625 ISDA assisted Bank Negara Malaysia (BNM) in the drafting of proposed legislation  
1626 that culminated in the Netting of Financial Agreements Act which was enacted on  
1627 March 30, 2015 to ensure legal enforceability of close-out netting arrangements.  
1628 This brought to an end a period of netting unenforceability that had begun  
1629 following the Asian Financial Crisis in 1998 and showed the efficacy of public-private  
1630 collaboration.

1631 More recently in May 2016, the Parliament of Australia passed the Financial System  
1632 Legislation Amendment (Resilience and Collateral Protection) Bill 2016.  
1633 Amendments to Australian law were necessary to ensure that termination/close-out  
1634 rights under derivative arrangements can be exercised and to stabilize the financial  
1635 system with more certainty provided to the operation of financial market  
1636 infrastructure. The amendments also removed legal uncertainty in relation to  
1637 security enforcement to support access to international markets and liquidity by  
1638 Australian regulated entities and life companies. Cooperation between the  
1639 Australian Council of Financial Regulators, King & Wood Mallesons and ISDA were  
1640 crucial to the success of this legislation.

1641 One driver behind this legislation is the looming implementation (September 2016  
1642 for the biggest global banks and March 1, 2017 for all other significant global  
1643 financial institutions) of mandatory margining for non-cleared OTC derivatives  
1644 under guidelines and timelines set out by the BCBS-IOSCO (though subject to  
1645 national regulators' interpretations). These margin regulations will have  
1646 tremendous impact on pricing in the less liquid APEC derivatives markets, which  
1647 makes enforceability of close-out netting and collateral rights crucial to containing  
1648 costs and continued market viability. ISDA has been engaged in a series of road  
1649 shows across the Asia-Pacific region to highlight to both local regulators and market  
1650 participants what the new margin requirements are and what the impact will be.  
1651 Last year's APFF forum in Manila in collaboration with ABAC, ADB and ASIFMA was  
1652 one such presentation. This year, ISDA has already made presentations in 9  
1653 Asia-Pacific economies and by year end, will have presented in 12 or more  
1654 economies.

1655 ABAC has been collaborating with the ADB, the Asia Securities Industry and  
1656 Financial Markets Association (ASIFMA) and International Swaps and Derivatives  
1657 Association, Inc. (ISDA) to assist the Philippines and Indonesia in the development

1658 of their repo and derivatives markets, using the APFF platform. An APFF workshop  
1659 on the Philippines' repo and derivatives markets was held last November in Manila,  
1660 while another workshop on Indonesia's repo market was held last April in Jakarta.  
1661 Discussions are ongoing to hold workshops in China on bond, repo and derivatives  
1662 markets and in Indonesia on its derivatives market later in the year.

1663 A topic that may be added to future APFF work is the impact of Basel capital rules  
1664 on APEC financial markets. Basel III rules were a necessary response to the  
1665 financial crisis. but what the cumulative impact of other capital rules in the pipeline,  
1666 including Fundamental Review of the Trading Book (FRTB), Net Stable Funding  
1667 Ratio (NSFR), the Standardized Approach for Measuring Counterparty Credit Risk  
1668 (SA-CCR), and the leverage ratio will not be easily quantified, though the impact will  
1669 be disproportionately felt in the less developed financial markets.

#### 1670 Recommendation

1671 ■ *Member economies are encouraged to collaborate with APFF in undertaking*  
1672 *workshops on development of classic repo and derivatives markets to enable the*  
1673 *effective use of hedging instruments and improve bond market liquidity. The*  
1674 *APFF also welcomes collaboration from other interested organizations in*  
1675 *financing and convening these activities.*

#### 1676 **Information for Capital Market Investors**

1677 Trust is the cornerstone of a sound capital market. It enables investors to put their  
1678 resources to the use by others who can help build and grow the economy. The  
1679 quality, comparability and availability of information are key ingredients in bringing  
1680 together buyers and sellers of both debt and equity. Policy makers and regulators  
1681 can help expand investor activity in their capital markets by collaborating with the  
1682 private sector to identify the information that investors need.

1683 The APFF created a series of self-assessment templates that can serve as tools to  
1684 facilitate and shape public-private sector dialogue on information for investors in  
1685 the region's debt markets, especially those for non-bank corporate debt. These  
1686 templates are not intended to be lists of prescriptive measures, but are rather  
1687 designed to provide foundations for meaningful conversations contrasting what an  
1688 international investor might expect and what is available in any given market.  
1689 Importantly, they give public policy officials a mechanism through which to explain  
1690 why certain information may or may not be available, or where investors can find it.

1691 APFF's work on this issue is organized around three categories – disclosure, bond  
1692 market data and information on investor rights in insolvency. These three  
1693 categories broadly align with information that may be relevant to successive phases  
1694 of the investment process: initial purchase, secondary market trading, and rights  
1695 in the event of default.

1696 The Philippines' Securities and Exchange Commission supports the templates and

1697 has filled them out internally. They continue to work with representatives from  
1698 APFF and see the templates as a worthwhile initiative. The templates have been  
1699 sent to the Deputies Chair of the ASEAN Capital Markets Forum and will be tabled as  
1700 an agenda item at the Deputies' Meeting in September. There will be immediate  
1701 follow-up with regulators from Malaysia, Vietnam, Thailand and Indonesia after the  
1702 ACMF Deputies' Meeting in September.

### 1703 **Recommendation**

- 1704 ■ ***More member economies should engage with APFF in using the self-assessment***  
1705 ***templates on information for capital market investors to help expand the***  
1706 ***investor base.***

### 1707 **Supporting the Asia Region Funds Passport (ARFP) Initiative**

1708 The ARFP is a program aimed to provide a multilaterally agreed framework to  
1709 facilitate the cross border marketing of managed funds across participating  
1710 economies in the Asia region. The APFF Sub-Stream on the ARFP was established to  
1711 support its successful launch. The channels for public-private collaboration created  
1712 under the APFF has allowed the ARFP sub-stream to facilitate a discussion on the  
1713 early enlargement of ARFP to include a critical mass of participating jurisdictions, as  
1714 well as the interoperability of ARFP with other regional mutual recognition  
1715 frameworks.

1716 In 2015, the APFF convened several discussions with representatives from the  
1717 international asset management and financial industry, as well as experts from the  
1718 legal and consulting professions and public international organizations, to provide  
1719 industry feedback to regulators and officials as they worked to advance the ARFP.  
1720 Among the views that garnered agreement are the following:

- 1721 ■ **Enlargement of the ARFP:** The flexibility of the ARFP to enlarge is critical to its  
1722 impact and success. The participation of as many economies as possible in the  
1723 ARFP, particularly at the outset, and the opportunity for future enlargement  
1724 would incentivize active participation by financial service providers in the ARFP,  
1725 increasing the ARFP's coverage and thereby increasing intra-regional capital  
1726 market integration, and allowing its benefits to be more widely enjoyed. ARFP's  
1727 enlargement will increase investors' investment options and reduce  
1728 cross-border investment costs through economies of scale.
- 1729 ■ **Reciprocity:** Member economies should works towards according "equivalent  
1730 priority" to promoting ARFP Funds so that they are treated on a basis that is  
1731 comparable to domestic funds. This spirit of reciprocity will allow the ARFP to  
1732 facilitate greater financial integration.
- 1733 ■ **Inter-operability with other regional frameworks:** It is important that the ARFP  
1734 is flexible enough to interoperate with other regional investment schemes, such  
1735 as the Hong Kong-China mutual recognition regime and the ASEAN Collective



1736 Investment Scheme (CIS) Framework to facilitate the future convergence of the  
1737 various initiatives and structures. Interoperability with other regional schemes  
1738 would, as with the introduction of more economies into the ARFP, create  
1739 greater economies of scale, reduce market fragmentation and improve financial  
1740 market integration, while ensuring that alternatives continue to be available to  
1741 retail investors.

1742 ■ Dispute resolution: In the European funds passport arrangement (the UCITS  
1743 regime), mechanisms exist to the European Securities and Markets Authority  
1744 (ESMA) resolves disputes over issues such as the interpretation of UCITS  
1745 directives and disputes arising between home and host regulators or regulators  
1746 and investors. There is a strong case for the creation of a resolution mechanism  
1747 to help address uncertainties, disputes or issues of misinterpretation that may  
1748 arise in the course of the operation of the ARFP.

1749 ■ Standardization of fees and performance figures: It is suggested that rules on  
1750 the method of calculation of and disclosure of performance figures and fees in  
1751 the prospectus of Passport ARFP Funds be established in order to ensure  
1752 investors are able to conduct a fair comparison of the available ARFP Funds.

1753 ■ International Recognition of ARFP Funds: It is suggested that APFF begin  
1754 engaging with non-member regulators with a view to facilitating the  
1755 cross-border distribution of Passport ARFP Funds beyond the member  
1756 economies. ARFP Funds should eventually be permitted to be offered into  
1757 non-member economies the same way UCITS funds may be distributed in  
1758 non-EU jurisdictions.

1759 The APFF welcomed the signing of the Statement of Understanding for the Asia  
1760 Region Funds Passport (ARFP) in Cebu last September by six economies and the  
1761 signing of the Memorandum of Cooperation early this year by Australia, Japan,  
1762 Korea, New Zealand and Thailand. Discussions among industry representatives in  
1763 the APFF concluded that, with the decision by Japan in 2015 to join the scheme, the  
1764 ARFP has made significant progress. APFF collaborators conducted informal  
1765 discussions with regulators in Hong Kong, Singapore and Chinese Taipei and spoke  
1766 at an Industry-Regulator Dialogue in Sydney to encourage other member economies  
1767 to join the ARFP.

1768 The APFF also established a Tax Task Force that completed an assessment of the  
1769 key tax metrics in actual and potential ARFP participating jurisdictions to help  
1770 regulators understand the detailed tax implications of ARFP and made this  
1771 assessment available to regulators in participating jurisdictions.

## 1772 **Recommendation**

1773 ■ **More member economies should join the Asia Region Funds Passport (ARFP)**  
1774 **by signing the Memorandum of Cooperation. APFF also welcomes**  
1775 **opportunities and invitations to provide private sector resource persons to**



1776 dialogue with regulators and industry in economies that decide to consider  
1777 joining the ARFP.

1778 ■ It is recommended that ARFP regulators continue to engage the private sector  
1779 on the implementation of the ARFP.

1780

## 1781 **MODERNIZING THE ASIA-PACIFIC FINANCIAL MARKET INFRASTRUCTURE**

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### 1782 **Enabling Regional Securities Investment Ecosystem**

1783 Facilitating flows of capital across the region's markets is a key factor for economic  
1784 growth in the region. The APFF's work on financial market infrastructure and  
1785 cross-border practices seeks to address the most significant obstacles to  
1786 cross-border investment flows related to the connectivity platform and standards  
1787 used in financial market infrastructure (FMI). The central objective is to promote  
1788 cross-border portfolio investment flows with market practice, standards and  
1789 platforms that can selectively harmonize market access and repatriation practices,  
1790 improve the inter-operability, liquidity and connectivity of domestic and  
1791 cross-border financial markets, and reduce systemic risks.

1792 Three significant issues pose major challenges to cross-border portfolio flows in the  
1793 region:

1794 ■ A relatively high volume of change, across different economies, in different  
1795 focus areas and at different paces

1796 ■ The focus on later-stage market development (T+2) rather than the  
1797 pre-requisites and enablers (standards, automation and harmonization of  
1798 platforms)

1799 ■ Increasing KYC focus introduces more opportunities to improve efficiency and  
1800 new issue areas are emerging from cross-border tax compliance reporting, data  
1801 privacy and security concerns in APEC

1802 To address these issues, APFF will undertake workshops and dialogues that will  
1803 focus on helping interested economies identify effective ways to develop a regional  
1804 securities investment ecosystem. In particular, APFF will focus on the following:

1805 ■ In view of aggregate planned changes over the coming 2-3 years in market  
1806 access, clearing and settlement and repatriation across the region, APFF will  
1807 undertake discussions on (a) the creation of a regional roadmap of upcoming  
1808 regulatory and market changes; (b) the feasibility of a regional  
1809 private-public-market infrastructure forum that will exchange views on these  
1810 developments; and (c) the feasibility of longer consultation and notification  
1811 periods of key regulatory and market changes.

1812 ■ APFF will focus on a more streamlined regional KYC/AML documentation  
1813 compliance and process, recognizing the layers of global intermediary chain and  
1814 practices between securities issuers and the ultimate beneficial owners. APFF  
1815 will undertake discussions on (a) regionally and globally aligned standards for  
1816 KYC/AML documentation collection and reporting; (b) the use of third party  
1817 industry utilities for a centralized KYC/AML electronic depository; and (c)  
1818 minimum standards for data privacy, protection and security and cross-border

1819 flows.

1820 This year, APFF has also started discussions on increasing the operational efficiency  
 1821 and automation level of fund services – an important post-trade industry segment  
 1822 that supports investors’ investments into funds and cross-border fund passport  
 1823 initiatives such as the ARFP. Through higher levels of industry standardization and  
 1824 harmonization, including the establishment of industry utilities, APFF is seeking to  
 1825 address the highly manual processing in many funds servicing industry today that  
 1826 deploys valuable resources in areas that can be readily replaced by outsourcing or  
 1827 offshoring where permitted. Where outsourcing and offshoring does not take place,  
 1828 the fund management industry can suffer from uncompetitive avoidable  
 1829 operational costs.

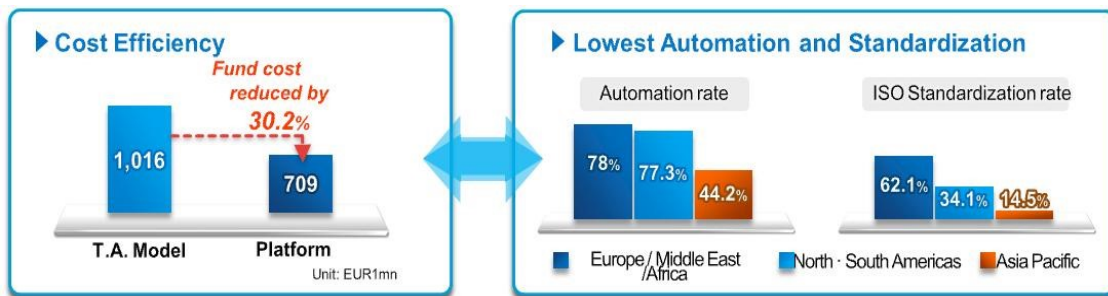
1830 **Table 3: Fund servicing activities and challenges**

After an investor has invested; fund servicing activities		Challenges (selected)
<b>Transfer Agent</b>	Facilitates investors’ investments [handles cash flow, regulations like KYC/AML/CRS/FATCA]	<b>Transfer Agent (T.A.):</b> Manual, non-straight thru flows per asset manager. Flows include: <ul style="list-style-type: none"> <li>• KYC/AML/CRS/FATCA investor due diligence</li> <li>• Physical forms; subscription, redemption and switching</li> <li>• Payments; cheques, foreign currencies,</li> </ul> Non-standardized message formats  Non-standardized fund information
<b>Middle Office</b>	Interfaces trade, post-trade and reconciliations	
<b>Fund Accountant</b>	Reports the investments’ value [valuation and accounting focus]	
<b>Custodian</b>	Safe-keeps invested assets [maintain efficient and effective linkages with FMs]	

1831

1832 Hence, the focus of the work would be how to reduce the costs of investment  
 1833 processing and promote greater skills specialization. Through standardization of  
 1834 funds information, it can also lead to greater transparency of fund information that  
 1835 can facilitate financial literacy, lower the cost of financial inclusiveness, permit more  
 1836 efficient cross-border funds investments and indirectly encourage capital markets’  
 1837 activities. Industry-level use of “algorithmic advisors” that search across many  
 1838 different funds to fit investors’ risk-return needs can become possible as a result of  
 1839 standardization of funds information and messaging infrastructure.

1840 **Figure 1: Value released from greater automation**



1841

1842 APFF hopes to engage central securities depositories (CSDs) in the region that are  
1843 either actively promoting greater automation of funds servicing and industry  
1844 utilities or investigating these areas. Having formed a regional forum called the Asia  
1845 Funds Standardization Forum (AFSF), they are seeking to align their work more with  
1846 regional funds passport initiatives like ARFP, as well as to form a more complete  
1847 ecosystem to include regulators and asset managers that can drive a more holistic  
1848 agenda.<sup>14</sup>

#### 1849 Recommendation

1850 ■ *APFF proposes to convene a regional symposium in 2017 on the development of a*  
1851 *roadmap for improving the regional financial market infrastructure. Discussions*  
1852 *could focus on the harmonization of market access and repatriation practices,*  
1853 *improving the inter-operability, liquidity and connectivity of domestic and*  
1854 *cross-border financial markets, reducing systemic risks, and creating a securities*  
1855 *investment ecosystem that can promote cross-border portfolio investment flows*  
1856 *across member economies.*

#### 1857 **Facilitating innovation in financial market infrastructure**

1858 The growing role of financial technology (Fintech) raises new opportunities and  
1859 risks with respect to the development of the region's financial market infrastructure  
1860 (FMI), which is also particularly important in promoting cross-border operations of  
1861 MSMEs.<sup>15</sup>As governments begin to grapple with the issues that Fintech raises,  
1862 government-industry collaboration will be important to understand the impact of  
1863 developments and determine appropriate regulation that allows innovation while  
1864 protecting the consumer and limiting systemic risk. Inter-agency cooperation will  
1865 be particularly important as issues go across government departments.  
1866 Cooperation between governments will also be important to reduce the risk of  
1867 different standards developing across APEC economies.

1868 Fintech is affecting a large number of traditional financial services offerings.  
1869 Regulators continue to have the responsibility of learning from the problems of the  
1870 past and addressing issues in traditional financial services and service providers.  
1871 The rise of Fintech brings a new challenge for financial regulators to create a  
1872 regulatory regime that is adaptable and flexible enough for the present and the  
1873 future, given the rapid rate of change in technology.

1874 The APFF can provide a platform for industry, public sector and multilateral  
1875 stakeholders to help policy makers and regulators identify approaches and ways  
1876 forward to address issues in three key areas. These cut across Fintech

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<sup>14</sup> Led by the Korean Depository Services (KSD), the AFSF has a core membership of about 13 CSDs from the region and four advisory participants.

<sup>15</sup> Financial market infrastructure (FMI) covers the recording, clearing and settlement of payments, securities, derivatives and other financial transactions.

1877 developments in APEC and where we believe early work and progress can be made  
1878 under the APFF process – cybersecurity, Know-Your-Customer (KYC) rules and  
1879 electronic payments (e-Payments) – through a series of workshops.

1880 ■ Cybersecurity: Fintech has the potential to leverage data and new risk modeling  
1881 techniques to lower security risks. Cybersecurity remains a major risk as Fintech  
1882 builds out, but better technology that can properly combat new risks raised in a  
1883 digital world could provide a solution. Robust cybersecurity can ensure that  
1884 high levels of security are maintained and enhanced at the economy level even  
1885 amidst increasing cross border data flows. Discussions will focus on best  
1886 practices and opportunities and risks involved in various policy options.<sup>16</sup>

1887 ■ KYC: Identity is critical for people to bank and transact. However, mobile  
1888 phones and data are powering new ways to open up access and participation.  
1889 In order to provide effective, safe, and secure products, service providers need  
1890 to be able to easily and reliably identify consumers. Technology can help to  
1891 provide better forms of identity using biometrics, transaction details, or  
1892 physical tokens (i.e. mobile phones). Discussions will focus on the myriad of KYC  
1893 regulations across the region, creating interoperable baseline standards for KYC,  
1894 exploring new ways of identity verification as well as tiers of KYC appropriate to  
1895 the type and value of transactions.<sup>17</sup>

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<sup>16</sup> Specific work and deliverables for the next 12-36 months under the Cybersecurity agenda item include:

- Conduct at least three workshop sessions exploring how Fintech represents both a challenge and opportunity for enhanced cybersecurity
- Convene at least two workshop sessions focusing on how Fintech can be a risk management tool that promotes healthy lending to consumers and SMEs to enhance inclusive growth in APEC
- Convene at least two workshop sessions on Fintech tools for private sector and regulators to monitor and manage risks of complex products such as synthetic securities and derivatives
- The FMI Fintech Substream will aim to hold all workshop sessions in one comprehensive workshop.
- Agenda setting and planning shall take place by ABAC I or II, with the workshop to be held around the time of ABAC II or III each year.
- Produce during the first 12-18 months ‘best practices’ aimed at APEC developing economies that will promote benefits of improved cybersecurity.
- During the subsequent 19-36 months FMI Fintech Substream participants will identify and carry out work with APEC developing economies to translate best practices into practical and beneficial outcomes.

<sup>17</sup> Specific work and deliverables for the next 12-36 months under the KYC agenda item include:

- Conduct at least three workshop sessions that examine how current KYC practices can be an obstacle to inclusive growth in APEC
- Convene at least three workshop sessions focusing on how innovation in Fintech and related technology, such as smartphones, offers new ways to conduct KYC
- Hold at least two workshop sessions exploring how traditional financial institutions can benefit from use of Fintech-based KYC to accelerate benefits of innovation and inclusive growth within APEC
- Convene at least two workshop sessions that examine how a more flexible KYC, for example a tiered approach based on transaction size and type, can promote Fintech that benefits APEC
- The FMI Fintech Substream will aim to hold all workshop sessions in one comprehensive workshop.
- Agenda setting and planning shall take place by ABAC I or II, with the workshop to be held around the time of ABAC II or III each year.
- Produce during the first 12-18 months ‘best practices’ aimed at APEC developing economies that will

1896 ■ e-Payments: E-Payments have a major impact by lowering transaction costs,  
1897 increasing transparency, and making transfers of money faster and more  
1898 efficient. Restrictions on e-Payments, including amounts that can be processed,  
1899 the type of entity that can engage in processing, location of processing facilities,  
1900 or the technology that can be used will impact growth, equity, and innovation.  
1901 Cross department cooperation is also important. Drawing on the latest APEC  
1902 ePayment Readiness Index,<sup>18</sup> discussions will explore conditions under which  
1903 economies can promote healthy disruption and encourage firms and consumers  
1904 into the e-Payments infrastructure, and how e-Payments systems can make  
1905 compliance with AML and CTF rules, and identification and payment of taxes  
1906 and other processes easier, less costly, less time-consuming and more  
1907 transparent.<sup>19</sup>

1908 **Recommendation**

1909 ■ ***Policy makers and regulators should participate in APFF workshops on***  
1910 ***cybersecurity, Know-Your-Customer (KYC) rules and e-Payments to facilitate***  
1911 ***innovation in the region's financial market infrastructure.***

1912

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promote benefits of improved methods of KYC.

- During the subsequent 19-36 months FMI Fintech Substream participants will identify and carry out work with APEC developing economies to translate best practices into practical and beneficial outcomes.

<sup>18</sup> The report may be downloaded from <http://xxxxxxx>.

<sup>19</sup> Specific work and deliverables for the next 12-36 months under the E-Payments agenda item include:

- Update data findings of the 2015 APEC Fintech E-Payment Readiness Index for 2016
- Conduct at least three workshop sessions exploring the results and learnings of the APEC Fintech E-Payment Readiness Index
- Convene at least two workshop sessions focusing on innovation and healthy disruption in E-Payments
- Hold at least two workshops that promote adoption by APEC SMEs of E-Payments
- The FMI Fintech Substream will aim to hold all workshop sessions in one comprehensive workshop.
- Agenda setting and planning shall take place by ABAC I or II, with the workshop to be held around the time of ABAC II or III each year.
- Produce during the first 12-18 months 'best practices' aimed at APEC developing economies that will promote benefits of E-Payments.
- During the subsequent 19-36 months FMI Fintech Substream participants will identify and carry out work with APEC developing economies to translate best practices into practical and beneficial outcomes.

## 1913 HARNESING FINTECH TO ACCELERATE THE DEVELOPMENT OF FINANCIAL 1914 MARKETS

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1915 Tremendous changes are sweeping today's financial landscape. The growing use of  
1916 FinTech, which includes mobile money, shared ledger technology<sup>20</sup> (including block  
1917 chain), big data, artificial intelligence, electronic platforms, advanced analytics and  
1918 automated processes, among others, is challenging established business models.  
1919 New players are entering markets long dominated by traditional financial service  
1920 providers as the latter are now embracing new technologies to help them face the  
1921 threat of disintermediation.

1922 Innovations such as mobile and agent banking and peer-to-peer lending have  
1923 already demonstrated the power of technology to help unbanked individuals and  
1924 small businesses gain access to finance. New applications are enhancing business  
1925 processes such as clearing and settlement, compliance, risk management and fund  
1926 administration. Technologies such as block chain and artificial intelligence have  
1927 potential applications that could revolutionize financial service firms' efficiency and  
1928 responsiveness to customer needs.

1929 Policy makers and regulators have begun to respond to these developments, in  
1930 compliance with mandates to promote financial stability, protect consumers and  
1931 privacy and maintain the integrity of financial systems. However, for the APEC  
1932 Leaders' and Finance Ministers' aspirations to make financial systems more inclusive,  
1933 efficient and responsive to the region's vast financing needs to be met, a balanced  
1934 and coherent approach that maximizes the benefits of innovation while adequately  
1935 addressing emerging risks and concerns will be required.

1936 To enable stakeholders from private and public sectors to obtain a better  
1937 understanding of the forces driving changes in the financial industry and the  
1938 ensuing policy and regulatory challenges, ABAC convened an Asia-Pacific Financial  
1939 Forum Roundtable on Financial Innovation in Silicon Valley. This event, hosted by  
1940 PayPal at its Corporate Campus in San Jose on 24 February 2016, aimed to pave the

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<sup>20</sup> While the terminology in this space continues to evolve and various publications use "distributed ledger", "shared ledger" and "block chain" interchangeably, this report uses terms based on the following definitions offered by the UK Government Chief Scientific Adviser in the report *Distributed Ledger Technology: beyond block chain* (link: [https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/492972/gs-16-1-distributed-ledger-technology.pdf](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/492972/gs-16-1-distributed-ledger-technology.pdf)):

- **Shared ledger** (the most generic and catch-all term for this type of technology): any database and application shared by an industry or private consortium or that is open to the public.
- **Distributed ledger**: a type of database spread across multiple sites, economies or institutions, where records are added when participants reach a quorum and stored one after the other in a continuous ledger, rather than sorted into blocks.
- **Block chain**: a type of database that takes multiple records and arranges them in a block, where each block is chained to another using a cryptographic signature. Block chains may be **permissioned** (participants are pre-selected) or **unpermissioned** (open to everyone). Bitcoin is an example of an unpermissioned ledger.



1941 way to a commonly shared view of the future and closer collaboration between  
1942 government and the private sector in harnessing innovation to build bigger, robust  
1943 and inclusive financial markets in the Asia-Pacific region.

1944 Traditional financial institutions have long been unable to serve the financing needs  
1945 of large numbers of businesses and individuals across the developing region.  
1946 Technological developments have spurred innovations that are being harnessed to  
1947 serve these needs, first in mobile and agent banking. As the development and  
1948 convergence of new technologies and improvements in broadband infrastructure  
1949 accelerated in recent years, a new wave of innovation has started to sweep the  
1950 financial industry, challenging traditional business models.

1951 The FinTech landscape, however, is a very large and complex one that is affecting  
1952 financial services across payments, insurance, deposit-taking, lending, capital raising,  
1953 investment management and financial market infrastructure. It also represents an  
1954 extensive digital realm where traditional financial institutions, start-ups,  
1955 e-commerce, ICT companies, market infrastructure players, investors, accelerators,  
1956 incubators, and consumers intersect with each other.

1957 The development of FinTech is being driven by front-end technologies (e.g., open  
1958 application programming interface or API, mobile money), front-end financial  
1959 services (e.g., peer-to-peer or P2P lending), back-end technologies (e.g., block chain,  
1960 big data and predictive analytics, artificial intelligence, identity management and  
1961 advanced fraud and security) and back-end financial services (e.g., faster payments,  
1962 alternative underwriting). These have created disruptions in various parts of the  
1963 financial sector. Examples include:

1964 ■ Lending: emergence of new non-bank lenders, rise of marketplace lending;  
1965 merchant advances; supply chain and internet finance; enhanced credit  
1966 underwriting and decisioning; integrated platforms for consumer financial  
1967 empowerment.

1968 ■ Fund/asset transfers and payments: rise of electronic (mobile, cards) payments  
1969 for the unbanked; faster payments initiatives; rise of virtual commerce globally;  
1970 advanced fraud and security methods; potential of block chain/distributed  
1971 ledger technology; and rise of P2P and cross-border transfer platforms.

1972 ■ Insurance: rise of insurance for the unbanked through mobile access; use of  
1973 new technologies to drive down operational costs; ecosystem partnerships and  
1974 new business models; enhanced analytics for better risk decisioning.

1975 The currently predominant FinTech firms are still powered by technologies that  
1976 have already been around for some time. These include digital platforms and  
1977 applications, use of wider data sets to customize financial services and products  
1978 (including locational, personal consumption, payment and income data), and  
1979 algorithms that enable rapid interpretation of data and more efficient transactions.  
1980 While newer technologies, such as distributed ledger technology and block chain



1981 and artificial intelligence, are attracting much attention due to the huge potential  
1982 for disruption, their commercialization is still limited and involves a relatively very  
1983 low volume of financial transactions.

1984 FinTech presents enormous opportunities to promote financial inclusion, especially  
1985 in emerging Asia and Latin America, which continue to host a significant portion of  
1986 the world's unbanked population, not to mention those who are underbanked.  
1987 Moving from paper-based transactions to retail and G2P payments, e-commerce,  
1988 cross-border remittances and SME collections to digital payments, for example, is  
1989 estimated to result in as much as USD 400 billion in annual benefits.

1990 At the same time, the introduction of new technologies into financial services is  
1991 now raising some questions related to regulatory issues. These include consumer  
1992 protection, particularly in the case of new service providers; identity management;  
1993 data management and data protection with respect to the use of big data and  
1994 algorithms; network and system stability and cyber security and cyber risk.  
1995 Regulatory approaches across the region are varied and continue to evolve.  
1996 Nevertheless, regulators are being encouraged to take a light regulatory touch for  
1997 new FinTech start-ups to support innovation.

1998 Technologies are emerging that enable financial market players to respond more  
1999 effectively to regulatory requirements. Participants discussed the incorporation of  
2000 regulatory requirements into technology protocols that is promoting the  
2001 automation of the regulatory process, the evolution of regulatory models and how  
2002 industry, policy makers and all relevant regulators can collaborate to build a robust  
2003 and coherent ecosystem for inclusive financial innovation.

2004 Beyond this, however, is the broader question of how policies and regulations  
2005 should respond to the rapid development of FinTech. As innovation gives rise to a  
2006 new ecosystem of financial institutions, services and market infrastructure, policies  
2007 and regulations will also need to evolve. In addition to striving toward the critical  
2008 regulatory goals of financial stability, cyber security, data privacy, consumer  
2009 protection and the fight against crime and terrorism, they will also need to promote  
2010 a coherent policy and regulatory environment that allows the financial sector to  
2011 support broader goals, including financial inclusion, continued innovation and the  
2012 growth of trade and investment across the region.

2013 In particular, FinTech raises a number of key issues for government and regulatory  
2014 agencies.

2015 ■ Digital data and advanced systems need to be managed by highly-trained  
2016 professionals backed up by reliable IT infrastructure. This requires introduction  
2017 of advanced IT education and investment in IT and basic infrastructure.

2018 ■ Data collected needs to be effectively utilized by businesses to enhance  
2019 competitiveness and efficiency while ensuring privacy of individuals. Data can  
2020 help firms better meet customer needs as well as improve their management

2021 and growth through better analysis of performance against targets. This needs  
2022 to be balanced by protection of personal information, which is a key concern  
2023 for citizens, governments and firms. However, where the balance between data  
2024 access and privacy protection lies may be perceived differently in emerging  
2025 markets, where a large portion of the population are financially excluded,  
2026 compared to advanced markets, where the majority of the population have  
2027 access to formal financial services.

2028 ■ Data needs to be secured against fraud, criminal activity and natural disasters in  
2029 an increasingly complex and interconnected world. There is a need to  
2030 strengthen digital systems against fraud, cyberattacks by domestic and  
2031 international criminal actors, and natural disasters. Regarding natural disasters,  
2032 banks are diversifying risks through establishment of offshore back up centers.

2033 ■ Cross-border data transfer for processing and storage leads to discussions  
2034 about onshore versus offshore activities. Benefits of data transfer include  
2035 enabling round-the-clock provision of service, early release of cutting-edge  
2036 products, cost reduction and greater efficiency. Security would require the  
2037 establishment of highly-protected and well-staffed and equipped data centers.  
2038 Harmonization of data definitions would also be needed to enable accurate  
2039 interpretation across markets.

2040 ■ A level regulatory playing field is needed for both incumbents and new entrants  
2041 to manage risks across the system and equalize costs. One way to promote this  
2042 is by rethinking current regulatory approaches that focus on institutions rather  
2043 than functions and considering the regulation of a product or service in the  
2044 same way regardless of provider. It is also important to encourage firms to  
2045 innovate and assist products and services being brought to market through  
2046 light touch regulation with intervention whenever it becomes necessary to  
2047 achieve broader regulatory goals.

2048 ■ Regulators need to focus on means of permitting automation of processes that  
2049 are currently manual in order to lower costs sufficiently and permit wider  
2050 financial inclusion.

2051 As financial services move more rapidly into the digital space and cybercrime  
2052 evolves from methods like phishing that target human risk factors to complex  
2053 malware coded to exploit gaps in technology and process, more areas of  
2054 vulnerability will emerge, from client access applications and communication tools  
2055 to technology partnerships. Collaboration between regulators and industry is key to  
2056 increasing awareness of cyber security, reducing financial and reputational damage  
2057 and serving clients. Firms are currently approaching this on three fronts.

2058 ■ The first is through partnerships within the FinTech ecosystem to collaborate,  
2059 perform due diligence and provide transparency to ensure visibility and control  
2060 of the end-to-end chain of product and service offerings.

2061 ■ The second is through technology, controls and training and awareness within

2062 the firm to protect the confidentiality, integrity and availability of client data  
2063 and its information assets.

2064 ■ The third is providing technical advisory, training and tools to enable customers  
2065 to better protect themselves.

2066 The potential of FinTech to drive inclusive growth is huge, but technological  
2067 innovations can also magnify the potential for damage to the economy and financial  
2068 systems. This increases the burden on regulators to keep pace with the innovations  
2069 in the market, which will enable them to make regulations more effective in  
2070 enhancing stability and enabling innovation and growth, and to strike the right  
2071 balance between adapting to the local contexts across different markets and  
2072 developing a regulatory model that can be applicable in many markets and thus able  
2073 to contain compliance costs and provide seamless scale.

2074 These factors are driving the need for new models of business partnerships,  
2075 including between regulators and industry. The challenge in developing regulatory  
2076 tool sets for these new models is that it is difficult to expect regulators to be able to  
2077 model and forecast developments and trajectories, while we are still in the early  
2078 stages of FinTech development and the private sector is still learning what works.  
2079 The lack of coherent and well thought-out regulatory responses to FinTech may  
2080 expose financial systems to significant risks. One approach to addressing this issue  
2081 is the use of “sandboxes,” establishing areas where experimentation can occur and  
2082 regulators and policy makers can participate or freely observe and better  
2083 understand new technologies and business models, thus reducing the risks of  
2084 curtailing innovation through premature regulation.

2085 In addition, there is the possibility of a few successful players becoming too  
2086 dominant as finance and technology come together to reach more deeply into all  
2087 aspects of the economy and society and underpin growth and social development.  
2088 In this case, we may face a new digital divide, where the gap between those who  
2089 are able to participate in this market and those who are unable to do so could grow  
2090 very quickly and which could be more subtle and different in nature from previous  
2091 dichotomies of haves against have-nots. Preventing this from occurring will need to  
2092 involve not just updated regulatory frameworks, but also consumer education and  
2093 protection as well.

2094 Most importantly, proportional and more flexible regulatory approaches will be  
2095 needed to enable strong growth and continued innovation. This could take the form  
2096 of recognizing fundamental areas where benchmark standards for such areas as  
2097 privacy, security and AML may be required, and regulating these more strictly and  
2098 aligned across the region, while employing light-touch (e.g., “watch and wait”)   
2099 regulatory approaches in areas where risks of systemic damage are low, in order to  
2100 enable more cross-border trade. Key enabling factors for this would include the  
2101 valuation of data (including understanding the importance of open data and the  
2102 potential for self-sovereign data), the need for data categorization; and the  
2103 fundamental importance of measurements and frameworks for measuring digital

2104 trade and FinTech.

2105 To discuss how APEC can harness Fintech to build bigger, robust and inclusive  
2106 financial markets, ABAC convened two APFF Roundtables on both sides of the  
2107 Pacific. The first Roundtable was held in February in Silicon Valley, and the second in  
2108 July in Hong Kong. The Roundtables brought together policy makers and regulators,  
2109 experts and practitioners from major financial institutions, Fintech start-ups,  
2110 consulting firms, multilateral institutions and academe. Both events concluded that  
2111 for APEC member economies to benefit from Fintech, all these stakeholders need to  
2112 agree on a shared vision and work closely together.

2113 **Recommendation**

2114 ■ ***It is recommended that APEC Finance Ministers establish a regional platform to***  
2115 ***bring together stakeholders from the public and private sectors to address in***  
2116 ***close collaboration with each other key issues arising from the development of***  
2117 ***FinTech, and identify concrete ways to help member economies harness financial***  
2118 ***innovation to build bigger, robust, inclusive and integrated financial markets.***  
2119 ***These stakeholders should include representatives from the industry (FinTech***  
2120 ***startups and major financial institutions, related service providers, associations***  
2121 ***and experts), public sector (government and regulatory agencies, relevant APEC***  
2122 ***fora) and major international organizations.***

2123

2124 **FOSTERING CONTINUED DIALOGUE AND RESEARCH ON THE FUTURE OF**  
2125 **FINANCIAL REGULATION**

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2126 *I have found the APFF to be an effective organisation to engage with financial*  
2127 *services stakeholders and welcome their role in providing opportunities for*  
2128 *regulatory and business dialogue.*

2129 **Gerard Fitzpatrick – Senior Executive Leader, Investment Managers and**  
2130 **Superannuation, Australian Securities and Investments Commission (ASIC)**

2131 The rapid and continuing evolution of financial markets and ongoing efforts by  
2132 Asia-Pacific economies to modernize their financial systems pose major challenges  
2133 to policy makers and regulators. In the context of APEC Finance Ministers’  
2134 aspirations to develop inclusive and efficient financial markets that can support  
2135 strong, sustainable and balanced growth, financial regulatory reforms will need to  
2136 be based on up-to-date and accurate assessments of market conditions, as well as  
2137 deep insights on how policy and regulatory measures will affect the behavior of  
2138 market players and the direction of market developments.

2139 APFF continues to provide a platform for research and discussions on the present  
2140 conditions and future directions of financial markets and regulations, which help  
2141 authorities and industry deepen their knowledge of markets and anticipate  
2142 emerging issues. Since the last report of activities, five major developments have  
2143 been undertaken by members of the work-stream, as follows:

2144 **23<sup>rd</sup> March 2016 – The Asia Pacific Financial Forum Industry/Regulator Dialogue –**  
2145 **Progress on the Asia Region Funds Passport and Regional Financial market**  
2146 **Integration – convened in Sydney and included Australian policy makers, regulators**  
2147 **and senior representatives from the Australian and regional finance industry. The**  
2148 **forum provided an opportunity to update participants on developments in APFF in**  
2149 **regard to the ARFP, repos, derivatives, hedging tools and cross-border securities**  
2150 **investment ecosystems.**

2151 The Forum noted:

- 2152 ● that Australia, Japan, Korea, New Zealand and Thailand would sign the  
2153 Memorandum of Agreement in April (Thailand’s agreement being subject to  
2154 approval by Cabinet);
- 2155 ● possibilities for extending ARFP over time with others;
- 2156 ● the value of APFF in providing data and advice on taxation arrangements in the  
2157 region as they impact on ARFP;
- 2158 ● the importance to further integration of capital markets using management risk  
2159 reform and of system liquidity based on repo markets through open market  
2160 operation – however, some regional repo markets are relative small;
- 2161 ● capital market reforms should avoid leading to the fragmentation of markets;
- 2162 ● hedging and netting reduced exposure to country and systemic risk and  
2163 synchronized financial standards are important in reducing frictional costs;

- 2164 ● corporate debt markets in the region are generally underdeveloped and action  
2165 is required on bail in/bail out;
- 2166 ● community attitudes have changed on tax avoidance and governments will  
2167 need to coordinate to handle base erosion and profit sharing and  
2168 multinational tax avoidance;
- 2169 ● the need for a stronger Asian voice in the Financial Stability Board; and
- 2170 ● business needs to clearly identify the costs and benefits of reforms in proposing  
2171 reforms to governments.

2172 **10th May – Workshop on Developing an Islamic Infrastructure**  
2173 **Investment Platform (13P)** – convened in Kuala Lumpur and included participants  
2174 from Islamic banks, regional regulators and financial advisors.

2175 Of particular interest was the expansion of the role of Islamic finance in  
2176 cross-border funding of infrastructure. Issues discussed included the importance of  
2177 infrastructure for economic development, social services, and trade and investment  
2178 and the potential for Islamic finance to expand its role in the financing of  
2179 infrastructure in the region and beyond, and the challenges in doing that arising  
2180 from differing interpretations of that which constitutes Sharia compliance arising  
2181 from contrary established practices in and among jurisdictions.

2182 Recommendations arising from consideration of work completed by APFF  
2183 participants and developed in conjunction with Harvard University that would help  
2184 overcome the problems arising from differing interpretations of Sharia compliance,  
2185 as noted at the workshop, are as follows:

2186 (a) define infrastructure as “facilitates, structures, equipment, or similar physical  
2187 assets – and the enterprise that employ them – that are vitally important, if not  
2188 absolutely essential, to people having the capabilities to thrive as individuals and  
2189 participate in social, economic political, civic or communal households or familial,  
2190 and other roles in ways critical to their own well-being and that of their society,  
2191 and the material and other conditions which enable them to exercise those  
2192 capabilities to the fullest”;

2193 (b) a Real Asset for the purpose of providing asset-backed Islamic investment is  
2194 defined as: “An asset that has a physical presence and a tangible economic  
2195 purpose, for example, roads, sea ports, airports. Power utilities, or has an  
2196 underlying asset base which is physical and has a tangible economic purpose, for  
2197 example, a concession agreement to operate or a lease on a physical asset”;

2198 (c) that infrastructure as defined in recommendation a) is deemed to be a Real  
2199 Asset as defined in recommendation b) that investments in infrastructure and in  
2200 accordance with fairness, with sharing of risks, and benefits, with the principle  
2201 of materiality, with no riba, and with exclusion of activities prohibited by Sharia  
2202 laws are deemed to be Sharia compliant;

2203 (d) that an Enabling Environment for Islamic investment in infrastructure be

2204 developed.

2205 **The publication of a paper “Getting Real about Islamic Finance”** by Harvard  
2206 University and a member of the APFF Work Stream, Dr. Allan Wain, of CP2.<sup>21</sup>

2207 **28th June 2016 - A workshop on Regional Financial Regulation Collaboration** -  
2208 convened by a group represented on the APFF work-stream from the Melbourne  
2209 University research team with the Reserve Bank of Australia, the Commonwealth  
2210 Treasury, the Australian Prudential Regulatory Authority and the Australian  
2211 Securities and Investment Commission.

2212 This workshop provided an opportunity for the Melbourne research group to  
2213 outline the research work it is undertaking and which is a major piece of work being  
2214 developed under the Linkages and Structural work stream. The Coordinator of the  
2215 work-stream also participated and outlined the work and the role of the APFF.  
2216 Australian policy makers and regulators exchanged views on the issues under  
2217 consideration by the research team.

2218 The following main points were discussed at the workshop:

- 2219 ● Collaboration between financial regulators in the Asia Pacific region and  
2220 challenges
- 2221 ● Collaboration between Australian financial regulators and Asian regulators
- 2222 ● Impact of technological advances
- 2223 ● Relationship between global integration and regional integration
- 2224 ● Relationship between the Asia Region Funds Passport and multinational  
2225 agreements
- 2226 ● Developments on ASEAN banking integration framework
- 2227 ● Assessing regulatory harmonization and collaboration
- 2228 ● The role of APFF and its reporting responsibilities to ABAC and to the APEC  
2229 Finance Ministers’ processes

2230 The discussions noted the following key points:

- 2231 ● Challenges to increased collaboration include tensions between sharing  
2232 regulatory control and retaining national sovereignty; the need to increase  
2233 mutual trust between regulators and disparities of development and lack of  
2234 resources impact on the depth and extent of regulatory collaboration with  
2235 some developing economies in the region.
- 2236 ● However, there are strong relationships developing at regulatory level in the  
2237 region and the exchange of information between them is important and more  
2238 emphasis is being placed on capacity building in the region by Australian  
2239 regulators.

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<sup>21</sup> The web-link to the paper is:

<http://www.law.harvard.edu/programs/lwp/pensions/publications/GETTING%20REAL%20ABOUT%20ISLAMIC%20FINANCE%20FINAL%2043016.pdf>.

- 2240 ● Fintech and distributed ledger technology cross-border disputes will need to be  
2241 managed by a higher power that is ultimately responsible when disputes or  
2242 problems occur.
- 2243 ● Issues about whether technology can provide efficiencies on a commercial  
2244 scale.
- 2245 ● There is a strong Asian influence on technology developments in the fintech  
2246 space.
- 2247 ● While there is greater inclusion of Asian economies in global standard setting  
2248 platforms there remains a US/European domination over decision-making.
- 2249 ● There is a level of complementarity between the funds ARFP and  
2250 regional/global trade agreements.
- 2251 ● There is a sense that the ARFP will build trust between the parties involved and  
2252 create an incentive for others to join the regime.
- 2253 ● The APFF is a useful mechanism in advancing the importance of the work of the  
2254 ARFP.
- 2255 ● The ASEAN banking and integration framework could face difficulties over  
2256 deposit insurance and deposit preference arrangements.
- 2257 ● There are opportunities to further consider Basel liquidity requirements and  
2258 their application in Asia.
- 2259 ● Difficulties in quantifying cost/benefits of harmonization and collaboration  
2260 beyond the theoretical premise about the merits of non-distorted markets;  
2261 however, obvious benefits arising from collaboration over institutional failures  
2262 and the belief that coordination will reduce the risks of failures emerging.
- 2263 **On-going work by the Melbourne University Research Group** - Focused on  
2264 examining from a multi-disciplinary perspective, the regional architecture for  
2265 financial regulation in Asia and, in particular, on the various ways in which regional  
2266 coordination and integration can be strengthened.
- 2267 The workshop noted in 4) above was an important part of the research program  
2268 with the objectives of developing better understanding for academic research  
2269 participants of processes, experiences and issues in regional financial regulatory  
2270 collaboration; the identification of potential research areas arising from the  
2271 experience of Australian regulators in cross-border collaboration and to provide  
2272 Australian regulators with insights on regulation harmonization being developed by  
2273 the Melbourne research group.<sup>22</sup>

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<sup>22</sup> Working papers and journal articles have been published and are available on the research project web-site:  
<https://government.unimelb.edu.au/financial-regulation-in-asia>.



2274 The Research team is planning a conference on 7th December 2016, hosted by the  
2275 Singapore Management University in Singapore “Finance in Asia: Integration and  
2276 Regional Coordination”.

2277 **Recommendations**

2278 ■ *It is recommended that APEC Finance Ministers encourage policy makers and*  
2279 *regulators involved in the region’s financial markets to participate in dialogues*  
2280 *and programs organized by academic and research institutions together with the*  
2281 *financial industry to further the work of APFF on regional financial architecture*  
2282 *and regulations.*

2283 ■ *It is recommended that APEC Finance Ministers welcome the APFF’s work on*  
2284 *definitions of infrastructure and real assets in the context of developing an*  
2285 *enabling environment for investment by Islamic financial institutions in*  
2286 *infrastructure and encourage their adoption.*

2287

## 2288 CONCLUSION

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2289 The acceleration of reforms to enable the Asia-Pacific region to more effectively  
2290 finance growth, especially in emerging markets, has acquired even greater  
2291 importance and urgency in light of most recent developments. While a return to  
2292 sustained economic dynamism that has characterized the region over the past  
2293 decades remains elusive in spite of massive fiscal and monetary stimulus, the fragile  
2294 recovery is under threat on several fronts.

2295 Stagnating growth in major emerging markets, continued weakness of consumer  
2296 demand in developed economies and heightened uncertainties due to the  
2297 combined impact of a spike in terrorist activities, raging conflicts in the Middle East,  
2298 the refugee crisis, the UK's decision to leave the EU, lingering unease about the  
2299 health of Southern European economies, and the growing unpredictability of US  
2300 and European politics have made investors more cautious than ever before in  
2301 recent memory.

2302 Emerging markets in APEC can help avert economic stagnation and spark an  
2303 optimistic change in mood if they are able to unlock the potential of their huge  
2304 populations, resources and savings and unleash greater investment and  
2305 consumption among a broader base of households and enterprises. Just as  
2306 inadequate financial systems and services have been seen as the main barrier to the  
2307 growth of small enterprises, supply chains, consumption and infrastructure, serious  
2308 reforms to create more inclusive and efficient financial markets will be the key to  
2309 the next stage of development of the region's emerging markets.

2310 Modernizing the region's financial systems will involve addressing a wide range of  
2311 challenges. These include small businesses' and low-income households' lack of  
2312 access to finance, difficulties in attracting long-term funding for infrastructure, the  
2313 lack of deep and liquid capital markets and long-term institutional investor base,  
2314 and continued vulnerability of communities and supply chains to the impact of  
2315 natural disasters, among others.

2316 An important issue is the deficiency of legal systems within the region in supporting  
2317 trade and investment and a strong business environment. Considerable divergence  
2318 of legal frameworks and regulatory practices is a major obstacle to cross-border  
2319 business. In many economies, significant legal and regulatory reforms and  
2320 improvements in transparency, enforcement and capacity of the judiciary and legal  
2321 professionals are needed to enable the effective delivery of financial services,  
2322 especially in the context of today's digital economy.

2323 The Asia-Pacific region needs bigger, robust and inclusive financial markets to  
2324 enable its economies to leap across the middle-income trap and join the ranks of  
2325 affluent economies. The pathway forward over the next few years has been  
2326 indicated by the Finance Ministers in the Cebu Action Plan – a collection of tangible  
2327 key objectives that require close public-private sector collaboration to be met. The

2328 APFF provides a platform for collaboration in several of these initiatives.

2329 Building on its 2014 Interim Report and 2015 Progress Report to APEC Finance  
 2330 Ministers, the APFF this year advanced its work on several initiatives, through a  
 2331 number of roundtables, workshops and conferences across the region, work stream  
 2332 discussions, and collaboration with APEC finance officials. This year, the APFF  
 2333 supported the Finance Ministers’ efforts to begin implementing the initiatives  
 2334 implementation of the CAP. The APFF also continues to undertake activities  
 2335 assigned by the CAP in the areas of capital market development, financial  
 2336 infrastructure for MSMEs and trade and supply chain finance.

2337 To accelerate the progress of these initiatives, this report recommends the  
 2338 following to the Finance Ministers:

- 2339 ■ It is recommended that APEC member economies work with FIDN to develop  
 2340 modern credit information systems and regionally consistent legal and  
 2341 institutional frameworks for secured transactions and insolvency that can  
 2342 expand MSMEs’ access to finance and enable them to increase their  
 2343 contributions to regional integration. This should involve the convening of  
 2344 workshops in individual economies bringing together public and private sector  
 2345 stakeholders and experts; advisory activities and seminars to support legal and  
 2346 policy reform and modernization of collateral and credit registries; outreach  
 2347 activities to educate MSMEs, lenders and other market participants on how  
 2348 they can benefit from these opportunities; and support for the pathfinder  
 2349 projects on cross-border sharing of commercial and consumer credit reports  
 2350 among credit bureaus within existing legal and regulatory frameworks, the  
 2351 development of the credit information data dictionary and the baseline analysis  
 2352 of credit information sharing in APEC member economies.
- 2353 ■ It is recommended that APEC member economies collaborate with APFF in  
 2354 holding public-private dialogues across all relevant agencies and stakeholders  
 2355 on regulatory issues and emerging facilitators of trade and supply chain finance.  
 2356 These should aim to promote effective and regionally consistent  
 2357 implementation of capital and liquidity standards, greater awareness of  
 2358 Know-Your-Customer, Counterparty Due Diligence and Anti-Money Laundering  
 2359 rules, as well as expanded use of technology including electronic supply chain  
 2360 management platforms; wider use of Bank Payment Obligations (BPOs) and  
 2361 related working capital management techniques; and facilitating market  
 2362 education and information exchanges on the use of regional currencies such as  
 2363 the RMB.
- 2364 ■ APEC member economies are encouraged to identify economies and perils of  
 2365 priority as an initial step in promoting private disaster insurance schemes as  
 2366 envisaged under the CAP. This may be undertaken through a workshop in early  
 2367 2017 with broad participation from finance ministries and related public sector  
 2368 stakeholders, multilateral institutions and the private sector through APFF.

- 2369 ■ It is proposed that the Finance Ministers' Process complete the stock-taking on  
 2370 availability of risk exposure data as a step toward the aforementioned  
 2371 workshop in conjunction with the previous recommendation.
- 2372 ■ It is proposed that the drafting of an APEC roadmap for DRFI be initiated as  
 2373 envisaged under the CAP, involving experts from the public and private sectors  
 2374 and multilateral institutions.
- 2375 ■ It is proposed that stakeholders in the APEC Finance Ministers' Process  
 2376 undertake activities in 2017 to complete the roadmap for expanding  
 2377 microinsurance coverage as envisioned under the CAP. Discussions on the  
 2378 roadmap may include the following elements: (a) adoption of the toolkit  
 2379 developed by the Regulatory Framework Promotion of Pro-poor Insurance  
 2380 Markets in Asia (RFPI Asia) of the GIZ for integrating insurance into DRFI  
 2381 mechanisms to help insurers develop products that are appropriate for  
 2382 MSMEs;<sup>23</sup> (b) development of policy frameworks for establishing risk pools and  
 2383 other DRFI instruments, provision of incentives, use of technologies, and  
 2384 mechanisms for public-private sector cooperation; (c) creation of the legal basis  
 2385 for the provision of mandatory insurance coverage to MSMEs; (d) capacity  
 2386 building for public and private stakeholders regarding product development,  
 2387 distribution and promotion of MSME insurance; (d) development of data  
 2388 management on catastrophic events; (e) establishment of central business  
 2389 registries with hazard mapping and catastrophe coverage for enterprises; (f)  
 2390 proportionate regulation to support a wide range of insurance products  
 2391 designed for MSMEs; (g) mechanisms for public-private dialogue in developing  
 2392 products and solutions for responses to and mitigation of disaster risk; and (h)  
 2393 implementation, financing and coordination.
- 2394 ■ APEC economies should consider the establishment of mandatory and scalable  
 2395 retirement systems. A mandatory system provides the scale necessary to  
 2396 effectively channel the region's huge savings currently concentrated in  
 2397 short-term bank deposits into longer term institutional investments and  
 2398 productive assets. Retirement savings can help professionalize the financial  
 2399 system through deeper domestic capital markets and expanded roles of long  
 2400 term investors such as insurers and pension funds. Scalability is provided by  
 2401 implementing strong tax incentives to encourage higher levels of retirement  
 2402 savings. Altogether the system promotes public financial awareness, ensuring a  
 2403 diverse range of retirement income products and improved financial security  
 2404 for progressively aging populations in the region.
- 2405 ■ APEC economies should promote infrastructure investment as a defined asset  
 2406 class to facilitate more holistic regulatory treatment that can encourage more

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<sup>23</sup> The toolkit highlights four steps: risk assessment, disaster risk management mapping, identification of gaps and exploration of disaster risk options. Throughout these steps, the framework supports the integration of microinsurance as a key part of broader disaster risk strategies

2407 private sector infrastructure investment. Inadequate infrastructure investment  
2408 has been a long-standing issue in emerging Asia (outside of China), as  
2409 documented by the ADB and others. At the same time, high Asian savings have  
2410 been channeled into short-term bank deposits and the government bonds of  
2411 mature market economies. Promotion of infrastructure as a defined asset class  
2412 will help break the Gordian knot between a dearth of investable long-term  
2413 assets and the glut of Asian savings.

2414 ■ APEC economies should adopt accounting, solvency, investment, and securities  
2415 standards supportive of the development of retirement savings and  
2416 infrastructure investment. To encourage insurers and pension funds to engage  
2417 in long-term investments and retirement solutions, barriers of regulations and  
2418 accounting should be removed, and policies that are suitable for long-term  
2419 business should be promoted. Global solvency and accounting standards should  
2420 be designed in a way to incentivize companies to improve risk management and  
2421 adopt best practice.

2422 ■ APEC Finance Ministers should encourage the participation of all relevant public  
2423 sector stakeholders in dialogues with the private sector to address barriers to  
2424 long-term investment. APFF intends to promote active participation of the  
2425 private sector in conferences organized by network members and to convene  
2426 workshops in the region involving a wide range of stakeholders.

2427 ■ APEC should establish an Islamic Infrastructure Investment Platform (I3P) as a  
2428 pathfinder initiative to provide a platform for collaboration among public,  
2429 private, international and academic experts to address the key obstacles to the  
2430 expansion of cross-border investment by Islamic financial institutions, especially  
2431 long-term investment from takaful and Islamic pension funds, in infrastructure  
2432 projects in APEC economies. I3P should address in its work the definitions of  
2433 infrastructure and financial instruments; Islamic hedging instruments; financial  
2434 instruments for pension funds and takaful; discriminatory tax policies; directory  
2435 of experts, definitions, funders, participating economies and qualifying  
2436 infrastructure projects; and collaboration with the International Infrastructure  
2437 Support System (IISS).

2438 ■ Member economies are encouraged to collaborate with APFF in undertaking  
2439 workshops on development of classic repo and derivatives markets to enable  
2440 the effective use of hedging instruments and improve bond market liquidity.  
2441 The APFF also welcomes collaboration from other interested organizations in  
2442 financing and convening these activities.

2443 ■ More member economies should engage with APFF in using the  
2444 self-assessment templates on information for capital market investors to help  
2445 expand the investor base.

2446 ■ More member economies should join the Asia Region Funds Passport (ARFP) by  
2447 signing the Memorandum of Cooperation. APFF also welcomes opportunities

2448 and invitations to provide private sector resource persons to dialogue with  
2449 regulators and industry in economies that decide to consider joining the ARFP.

2450 ■ It is recommended that ARFP regulators continue to engage the private sector  
2451 on the implementation of the ARFP.

2452 ■ APFF proposes to convene a regional symposium in 2017 on the development of  
2453 a roadmap for improving the regional financial market infrastructure.  
2454 Discussions could focus on the harmonization of market access and repatriation  
2455 practices, improving the inter-operability, liquidity and connectivity of domestic  
2456 and cross-border financial markets, reducing systemic risks, and creating a  
2457 securities investment ecosystem that can promote cross-border portfolio  
2458 investment flows across member economies.

2459 ■ Policy makers and regulators should participate in APFF workshops on  
2460 cybersecurity, Know-Your-Customer (KYC) rules and e-Payments to facilitate  
2461 innovation in the region's financial market infrastructure.

2462 ■ It is recommended that APEC Finance Ministers establish a regional platform to  
2463 bring together stakeholders from the public and private sectors to address in  
2464 close collaboration with each other key issues arising from the development of  
2465 FinTech, and identify concrete ways to help member economies harness  
2466 financial innovation to build bigger, robust, inclusive and integrated financial  
2467 markets. These stakeholders should include representatives from the industry  
2468 (FinTech startups and major financial institutions, related service providers,  
2469 associations and experts), public sector (government and regulatory agencies,  
2470 relevant APEC fora) and major international organizations.

2471 ■ It is recommended that APEC Finance Ministers encourage policy makers and  
2472 regulators involved in the region's financial markets to participate in dialogues  
2473 and programs organized by academic and research institutions together with  
2474 the financial industry to further the work of APFF on regional financial  
2475 architecture and regulations.

2476 ■ It is recommended that APEC Finance Ministers welcome the APFF's work on  
2477 definitions of infrastructure and real assets in the context of developing an  
2478 enabling environment for investment by Islamic financial institutions in  
2479 infrastructure and encourage their adoption.

2480 The success of these undertakings will depend on active participation and  
2481 engagement from the public sector. APFF intends to provide a forum and informal  
2482 network for dialogue and capacity building where they can interact on a regular and  
2483 sustained basis with experts in relevant specialized and technical fields from the  
2484 private sector and international and academic organizations. The APFF looks  
2485 forward to close collaboration with the APEC Finance Ministers in achieving  
2486 concrete results in advancing the various initiatives under the Cebu Action Plan.