

1 **Asia-Pacific Financial Forum**
2 **2016 Progress Report to the APEC Finance Ministers**

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6 **Asia-Pacific Financial Forum**
7 **2016 Progress Report to the APEC Finance Ministers**

8 **EXECUTIVE SUMMARY**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

¹ 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

124 needs.

125 ■ ***APEC economies should consider the establishment of mandatory and scalable***
126 ***retirement systems.***

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

130 ■ ***APEC economies should adopt accounting, solvency, investment, and securities***
131 ***standards supportive of the development of retirement savings and***
132 ***infrastructure investment.***

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

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

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

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

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

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

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

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

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

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

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

203 The growing role of financial technology (Fintech) raises new opportunities and

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

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

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

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

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

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

242 ■ ***It is recommended that APEC Finance Ministers welcome the APFF’s work on***
243 ***definitions of infrastructure and real assets in the context of developing an***
244 ***enabling environment for investment by Islamic financial institutions in***

245 ***infrastructure and encourage their adoption.***

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

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

263

INTRODUCTION

264

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 20th 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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299 The combined impact of underdeveloped financial systems on consumption,
300 investment, enterprise growth, trade and infrastructure development and their
301 knock-on effects on employment and economic growth underscores the
302 importance of financial sector development for economies to avoid the middle
303 income trap. At the same time, a fast growing region with huge savings, a large
304 population, high mobile phone penetration, a growing middle class and massive
305 infrastructure investment needs at a time when traditional business models are
306 being disrupted across financial services presents tremendous opportunities.

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

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

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

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

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

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

340 this setting.

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

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353 **ADVANCING THE FINANCIAL INFRASTRUCTURE DEVELOPMENT NETWORK**
354 **(FIDN)**

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

361 **Nestor Espenilla – Deputy Governor, Bangko Sentral ng Pilipinas, Republic of**
362 **the Philippines**

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

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

374 **Gil Beltran – Undersecretary, Department of Finance, Republic of the**
375 **Philippines**

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

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

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

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

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

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

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

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

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

429 **Credit information**

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

- 433 ■ the development of a consumer credit information data dictionary;

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

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

454 The following describes the work of the different substreams

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

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

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

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

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

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

² 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.

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

529 **Secured Transactions Reform**

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

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

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

551 economy; and

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

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

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

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

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

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

587

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.

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

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

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

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

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

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

626 **Recommendation**

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

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

641

642 **FACILITATING TRADE AND SUPPLY CHAIN FINANCE**

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

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

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

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

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

³ Source:

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

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

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

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

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

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

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

718 practices in secured transactions.

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

728 **Table 1: Secured Transactions Legal Rights – APEC Economies (10 – key features are**
 729 **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

730 Legend – Features of a good secured transactions law:

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

752 Source: *World Bank Group*

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

757 an interdisciplinary approach.

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

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

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

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

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

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

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

790 g. Consistent client onboarding documentation and approach are key to grow
791 supply chain financing.

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

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

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

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

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

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

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

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

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

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

829 [Recommendation](#)

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

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

840

841 **STRENGTHENING FINANCIAL RESILIENCE**

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

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

856 ***Gregorio Belaunde Matossian, Director of Risk Management, Ministry of***
857 ***Economy and Finance, Peru***

858 **Disaster Risk Financing and Insurance (DRFI)**

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

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

⁶ 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.

875 climate change. Various international agreements⁷ that were signed stress the
876 importance of public-private sector collaboration in addressing the impact of
877 natural disasters.

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

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

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

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

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

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

⁸ 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.

⁹ 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.

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

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

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

CAP Deliverables	APFF Activities	Timeline		
		2016 (Peru)	2017 (Vietnam)	2018 (PNG)
1. Establish and promote private disaster insurance schemes	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
2. Deepen insurance penetration within their economies and develop regional risk sharing measures	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
3. Develop a roadmap and network of experts	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

915 *1 Design a template for stock-taking (ideally through a face-to-face meeting of the DRFI SS experts, to be
 916 held by year-end)

917 *2 APFF's DRFI Sub-stream has so far received support from OECD, the World Bank, the Geneva
 918 Association, ASEAN Natural Disaster Research and Works, Citi, Munich Re, Swiss Re and Tokio Marine

919 *3 To be worked out in conjunction with the 2nd deliverable "deepen insurance penetration" and its
 920 identification process of economies and perils of priority (ideally through a workshop-style meeting with the
 921 presence of finance ministry officials from the economies prone to natural disasters, to be held by first-half
 922 of 2017)

923 *4 Completing the template for stock-taking (ideally through a workshop-style meeting as indicated above,
 924 to be held by first-half of 2017)

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

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

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

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

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

951 Recommendations

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

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

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

963 **Microinsurance**

964 Effective risk management through microinsurance is critical for low income
965 individuals, micro- and small enterprises, and developing economies.¹⁰ An

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

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

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

978 Microinsurance has proven very effective in helping promote recovery, in particular
979 after the devastation caused by Typhoon Haiyan in 2013.¹¹ Microinsurance forms a
980 key part of many micro- and small enterprises' strategy for ensuring business
981 continuity after a risk event, in the process also enhancing their ability to access
982 loans by mitigating lenders' risk concerns, reducing the need to seek additional
983 loans and divert capital, and helping create risk-aware environments as more people
984 begin to recognize the link between insurance premiums and risk levels.

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

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

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.*

¹¹ 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*

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

1002 Finance Ministers incorporated microinsurance in the CAP under the pillar of
1003 enhancing financial resilience. The main objectives as presented in the CAP are to
1004 deepen insurance penetration with high quality products, develop a roadmap for
1005 expanding microinsurance coverage and create a public-private dialogue to help
1006 bring the different stakeholders together to work collectively in understanding the
1007 issues and providing better risk management tools for low-income individuals and
1008 households. More specifically, the initiative aims to enhance financial education and
1009 facilitate better understanding of microinsurance products, strategies to promote
1010 proportional regulation and public-private partnerships.

1011 This is also of significant relevance to MSMEs, which are also highly vulnerable to
1012 the shocks of natural catastrophes. The result of these facts is that when natural
1013 disasters occur, the damage to MSMEs can have significant impacts on the wider
1014 economy and value chains. As such, analytical tools and methodologies to look at
1015 specific needs of MSMEs are likely to provide useful information for policy makers
1016 and other stakeholders and help enhance the quantity and quality of insurance
1017 products available to MSMEs.

1018 Recommendation

1019 ■ *It is proposed that stakeholders in the APEC Finance Ministers' Process*
1020 *undertake activities in 2017 to complete the roadmap for expanding*
1021 *microinsurance coverage as envisioned under the CAP. Discussions on the*
1022 *roadmap may include the following elements: (a) adoption of the toolkit*
1023 *developed by the Regulatory Framework Promotion of Pro-poor Insurance*
1024 *Markets in Asia (RFPI Asia) of the GIZ for integrating insurance into DRFI*
1025 *mechanisms to help insurers develop products that are appropriate for MSMEs;¹²*
1026 *(b) development of policy frameworks for establishing risk pools and other DRFI*
1027 *instruments, provision of incentives, use of technologies, and mechanisms for*
1028 *public-private sector cooperation; (c) creation of the legal basis for the provision*
1029 *of mandatory insurance coverage to MSMEs; (d) capacity building for public and*
1030 *private stakeholders regarding product development, distribution and*
1031 *promotion of MSME insurance; (d) development of data management on*
1032 *catastrophic events; (e) establishment of central business registries with hazard*
1033 *mapping and catastrophe coverage for enterprises; (f) proportionate regulation*
1034 *to support a wide range of insurance products designed for MSMEs; (g)*

¹² 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

1035 *mechanisms for public-private dialogue in developing products and solutions for*
1036 *responses to and mitigation of disaster risk; and (h) implementation, financing*
1037 *and coordination.*

1038

1039 EXPANDING THE REGION'S LONG-TERM INVESTOR BASE

1040 Retirement Income and Long-Term Investment

1041 Long-term investors such as insurers and pension funds play critical roles in the
1042 development of capital markets and financing of infrastructure projects, in addition
1043 to the important functions that they play in providing financial security. With the
1044 progressive aging of much of the region's population, their roles will become even
1045 more important going forward in channeling long-term liabilities into long-term
1046 assets that can provide adequate returns to meet future emergency and retirement
1047 needs.

1048 In order to support the CAP's initiative to promote long-term investment in
1049 infrastructure, the APFF created the Retirement and Long-Term Investment
1050 Working Group under its Insurance and Retirement Income Work Stream and has
1051 worked on the promotion of policies to address those three gaps. Participants
1052 include experts from the insurance, pension, banking and securities industries,
1053 academic specialists, consultants, regulators and international and regional
1054 organizations (e.g. ADB, OECD).

1055 As noted in the 2015 APFF Progress Report, efforts to encourage or even compel
1056 mandatory retirement savings in emerging APEC economies offer the opportunity
1057 to break the Gordian Knot of a lack of investable projects, development of capital
1058 markets, and alternative means of disaster risk financing through the mobilization
1059 of large pools of patient, long-term capital in the form of retirement savings.

1060 Mobilization of such large pools of long-term capital would represent a "triple win"
1061 for consumers, the financial sector and APEC governments.

- 1062 1. Consumers get high, stable returns for long-term savings.
- 1063 2. The financial sector gets deeper capital markets.
- 1064 3. Governments get relief from large contingent fiscal liabilities.

1065 The APFF will assess the "triple win" by seeking to address three gaps that are
1066 profoundly limiting the development of both insurance/pension coverage and
1067 capital market development in APEC economies.

1068 ■ **Pension/Protection Gap:** Data provided by Oliver Wyman, Swiss Re, OECD and
1069 others documents a large and growing protection gap in APEC economies. In
1070 sum, Asian households do not have adequate long-term savings or protection
1071 for retirement. This represents a large, contingent fiscal liability for Asian
1072 governments.

1073 ■ **Infrastructure/Investment Gap:** Data provided by the ADB and others notes a
1074 large infrastructure and investment gap in APEC economies. Failure to mobilize
1075 Asian savings into long-term investment leaves Asian economies, vulnerable to
1076 the "middle income trap".

1077 ■ **Regulatory/Accounting Gap:** APEC economies, emerging economies in particular,
1078 have been constrained by regulatory and accounting regimes that were been
1079 developed for mature economies with slow economic growth (e.g. Solvency II
1080 in EU). The regulatory and accounting framework should take account of the
1081 above two gaps in pensions/protection and infrastructure/investment and
1082 promote a sustainable regulatory and accounting regime that promote both
1083 retirement savings and infrastructure/long-term investments within the context
1084 of high-growth economies (e.g. C-ROSS regime in China).

1085 **Pensions/Protection Gap**

1086 The need to promote long-term savings on the part of consumers is the engine that
1087 will drive the “triple win” of provision for retirement, deepening capital markets;
1088 and relieving governments of contingent fiscal liabilities for un-funded retirement
1089 protection. The 2015 APFF Progress Report listed high-level recommendations to
1090 facilitate the growth of retirement savings demand as well as retirement income
1091 product supply, in order to promote the development of retirement income system,
1092 to ensure adequate retirement savings as well as adequate lifetime retirement
1093 income in the Asia Pacific. Among those measures, we note in this report the three
1094 key means to address the pensions/protection gap: (a) mandatory provision for
1095 retirement savings at a high enough replacement rate to fund retirement; (b) tax
1096 relief to promote long-term savings products; and (c) product innovation and
1097 financial awareness.

1098 ■ **Mandatory provisions:** In the US, retirement savings and pension funds account
1099 for 50 percent of the capital market. In term of GDP, the largest economies in
1100 Asia ex-Japan, such as China, Indonesia, India, have long-term retirement
1101 savings less than 10 percent of GDP, compared to the 70 percent in OECD
1102 countries. In most of emerging markets in Asia, less than half of the labor forces
1103 are covered by current retirement systems. Retirement assets remain small
1104 relative to mature economies, while Asia expects 2 to 2.5 times increase in
1105 proportion of retirees over the next few decades. Given the speed of ageing in
1106 Asia, the current relatively small retirement asset pool, APFF urge the APEC
1107 economies to establish mandatory and scalable retirement savings system as a
1108 key growth engine to effectively channel short-term bank deposits into
1109 longer-term institutional investments and productive assets.

1110 ■ **Tax incentives:** Tax incentives have been the most important policy lever in the
1111 successful markets. Possible short-term reduction in tax revenues would be
1112 justified by bigger reduction of long-term societal costs of a growing portion of
1113 the population without sufficient retirement income. Tax incentives to
1114 encourage the insurers to develop long-term products, which would have a
1115 follow-through effect on the capital market through increased demand for
1116 long-term funding vehicles. As tax incentive is a key tool for a scalable
1117 retirement saving system, APFF has prepared a comparison of tax incentives by
1118 economy. (See Appendix 1.)

1119 ■ **Product innovation and financial awareness:** In majority of Asian economies,
1120 most retirement benefits are drawn as lump sums, and traditional annuities
1121 have not yet proven to be effective. However, new retirement income products
1122 such as variable annuity are emerging in Asian economies. Fintech and longevity
1123 risk pooling will be alternative model to traditional insurance solutions. Also as
1124 in US or UK, a number of plan sponsors transfer pension risk or liabilities risk to
1125 insurance companies (“de-risking”) for defined benefit plans. It may be another
1126 way for insurers to contribute to retirement security. The scale and success of
1127 retirement income solutions would depend on consumer education as well as
1128 public awareness programs, targeting financial advisors, policymakers,
1129 regulators and other government bodies.

Pension reform proposal in Japan

In March 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 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 “Longevity Pension”, with key features of lifetime payout, lifetime stability and universal accessibility, would offset shrinking 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)

1130 Infrastructure/Investment Gap

1131 Asian savings rates are traditionally high, but generally short-term in nature. Asians
1132 put their savings into bank deposits, rather than longer-term savings vehicles. One
1133 reason for this is the relatively under-developed nature of capital markets in Asia.
1134 The price of capital – expressed in interest rates – has fallen due to excess Asian
1135 savings (supply of capital) and insufficient Asian investment project (demand for
1136 capital). The low interest rate policies of central banks in the developed economies
1137 have accentuated this downward pressure on global rates. The Asian “vice of
1138 savings” and dearth of investable assets have inhibited both the global recovery
1139 from the 2008 crisis as well as the Asian effort to escape from the “middle income

1140 trap” and move on to the next stage of economic development.

1141 In its Interim Report 2014, the APFF identified market issues, such as
1142 underdeveloped long-term capital market, small number of bankable projects
1143 available, lack of infrastructure financial instruments, lack of market instruments (i.e.
1144 derivative, hedging tools) to manage portfolio risk, and constraints on long-term
1145 insurance business (both demand side and supply side), as well as operational issues,
1146 such as weakness in credit rating, lack of experience, and uncertainty in legal
1147 framework (i.e. creditors rights, resolution).

1148 We note in this report the following possible solutions, which are related and
1149 complementary, to addressing the dearth of investable assets in Asia, particularly in
1150 infrastructure: (a) promotion of infrastructure as a defined asset class; (b) increased
1151 fiscal spending by Asian sovereigns within macro-economic parameters suitable for
1152 developing economies; and (c) adoption of various financing vehicles, with a
1153 broader public-private partnership framework to promote long-term infrastructure
1154 investment.

1155 **Infrastructure as a Defined Asset Class:** The ADB, OECD and IIF have all identified
1156 inadequate infrastructure investment as an impediment to economic growth and
1157 capital market development in APEC economies. The IIF in particular has identified
1158 10 impediments to infrastructure investment, which are: (a) underdeveloped
1159 infrastructure asset class; (b) lack of transparency and information flow; (c)
1160 mismatch between available infrastructure investment options and investors’ risk
1161 profile; (d) policy uncertainty (including concerns about investor/creditor rights); (e)
1162 banking sector adjustments (both regulatory and industry developments); (f) lack
1163 of alignment between long-term investors’ risk profile and policy measures
1164 designed to encourage investment; (g) high capital charges on infrastructure
1165 investment; (h) short-term focus of institutional investors, prompted in part by
1166 certain regulatory policies and initiatives; (i) lack of standardization in debt
1167 instruments; and (j) underdeveloped capital markets.

1168 Infrastructure assets are generally long-term in nature. Current regulatory
1169 treatment of infrastructure assets is largely depending on whether the investment
1170 is in fixed income, equities or some form of private placement. A holistic approach
1171 to the asset class does not really exist. Typically, infrastructure investment will have
1172 diverse sources of funding at both the construction and operating phase. Varied
1173 regulatory treatment and the lack of a holistic approach has constrained private
1174 sector willingness to make such long-term investment. Promotion of infrastructure
1175 investment as defined asset class – in coordination with increased government
1176 spending and adoption of PPP financing vehicles will go a long way in promoting
1177 long-term infrastructure investment.

1178 **Increased Fiscal Spending:** Asian economies should be encouraged to expand
1179 government spending on infrastructure project both as direct fiscal outlays and as
1180 part of public-private partnerships. The post-1997 “Washington Consensus” solution

1181 to the Asian crisis is out of date and should be replaced with active encouragement
1182 of increased infrastructure spending. An appropriate balance to increased fiscal
1183 spending and sound public debt management should be adopted. The European
1184 Monetary Unions’s “Maastricht criteria” of a 3 percent limit on a country’s fiscal
1185 deficit and a 60 percent of GDP cap on public debt could be a good place to start.
1186 The Maastricht criteria were observed largely in the breach in Europe, but most
1187 Asian sovereigns are prudently well below the criteria. Increasing Asian investment,
1188 while keeping Asian public finances within the Maastricht 3 percent and 60 percent
1189 limits, offers a potential solution to the dearth of investable assets in Asia.

1190 **PPP Financing Vehicles:** Increasing fiscal spending will not, by and of itself, increase
1191 investment ratios in Asia or deepen capital markets. The APFF identified a series of
1192 financing vehicles that can help mobilize long-term retirement savings into
1193 investable assets to provide long-term retirement savings returns to consumers as
1194 well as propel economic growth to the next stage of development. The APFF
1195 Progress Report 2015 identified the following financing vehicles: Infrastructure
1196 Funds, Business Trusts, Guarantees, BOT, Securitization, and co-financing with
1197 multilateral development banks.

Credit Period Guarantee by CGIF

On July 1, 2016, the CGIF, a trust fund of the ADB, announced the launch of Credit 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)

1198 For example, guarantees for construction risks is an example of effective tools to
1199 facilitate cost efficient financing by long-term investors. Infrastructure financing
1200 needs long term debt funding from insurers and pension funds. However, according
1201 to the feedback from long-term fund managers, construction risks are typically a
1202 key bottleneck for long-term investors. Credit Guarantee & Investment Facility
1203 (CGIF)’s Construction Period Guarantee covers 100 percent of the bonds and
1204 interest payment until project completes. It would allow long-term investors to
1205 participate from the inception of the project. Rating should not be constrained by
1206 construction risks. CGIF may syndicate to other guarantors (banks) to participate in
1207 the future.

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*)

1208 **Regulatory/Accounting Gap**

1209 In an environment with adequate supply and access to long-term investments,
1210 there are hurdles to invest in these assets from regulatory and accounting
1211 perspectives. Key issues include what incentives and disincentives arise from
1212 regulatory and accounting regimes with respect to insurers and pension funds'
1213 engagement in providing retirement and longevity solutions, impact of economic
1214 accounting and the choice of measures on pension funds and products to serve the
1215 needs of ageing society, and how regulatory requirements may take into accounting
1216 diversity of social security system, needs and consumer behavior and development
1217 stage across the Asia Pacific region.

1218 In its Interim Report 2014, the APFF identified regulatory and accounting issues and
1219 high-level recommendations to implement approaches to promote long-term
1220 investment and longevity solutions by insurers and pension funds. The APFF also
1221 collaborated with ABAC, which submitted a comment letter to the IAIS on the
1222 global risk-based International Capital Standards (ICS) on 20 January 2015, a
1223 comment letter to the IASB/FASB on insurance contracts on 10 October 2013 and a
1224 comment letter to the IASB on the Conceptual Framework for Financial Reporting.

1225 Based on the list of identified issues and recommendations, the APFF has
1226 continuously engaged in active outreach and dialogue to exchange views on
1227 regulatory and accounting matters with policymakers, international and regional
1228 institutions, such as the IAIS, IASB, OECD, ADB, ASEAN, as well as various insurance
1229 regulatory authorities in the Asia Pacific, including those in Indonesia, Japan, China,
1230 Singapore, Malaysia, Brunei, Mexico, Chile, Peru, USA, Canada, Korea, Chinese Taipei,
1231 Thailand, Vietnam and Hong Kong. In particular, the ASEAN Insurance Council (AIC)
1232 contributed to the APFF's effective and efficient communication with the ASEAN
1233 Insurance Regulators and Industries. The APFF also works closely with OECD and
1234 ADB in coordinating on related initiatives.

1235 The main regulatory issues identified by the APFF are the following:

1236 ■ **Bank-centric regulations:** Insurance Capital Standards should take into account
1237 the specific nature of the insurance business. It should avoid bank-centric
1238 capital weighted rules, and consider the characteristics of long-term assets
1239 supporting long-term liabilities as well as the effect of asset diversification.
1240 High-risk changes for long-term investments may discourage insurers to provide
1241 such investments. Regulation should be designed in a way to promote and
1242 incentivize the insurers' role to stabilize the financial system and market and its
1243 ability to manage risk efficiently.

1244 ■ **Short-term oriented economic regime:** An economic based regime should have a
1245 long-term vision. Short-term oriented economic valuation may produce
1246 significant volatility for long-term business, which may not be relevant to the
1247 insurers' capacity to meet long-term obligations. While economic information
1248 may be a useful indicator in determining a future long-term direction, Insurance

1249 Capital Standards should avoid the introduction of a regulatory regime that
1250 would require immediate regulatory actions in response to short-term market
1251 fluctuations. Measures should be taken to mitigate impact on long-term
1252 protection business and the assets supporting such contracts.

1253 ■ **“One-size-fits-all” model:** International standards should be principle-based and
1254 aim to achieve comparable outcome by taking into account the diversity in the
1255 region. Due to the difference in business models and existing regulatory
1256 framework, the application of prescriptive international standards would not
1257 ensure the overall comparability or level playing field in the region.

1258 The regulators are now generally aware of the issues and considering various
1259 measures to mitigate negative impact on long-term business and investments. Also
1260 noted was that our recommendations might be helpful to tackle with a low-interest
1261 rate environment that a number of APEC economies are facing. The APFF was
1262 requested to provide input by a number of regulators in the Asia Pacific. We
1263 observe some examples of regulatory measures in APEC economies (e.g. C-ROSS in
1264 China), which appear largely in line with the APFF recommendations.

1265 The ABAC comment letter urged the IAIS to take the necessary time to develop high
1266 quality standards rather than compromise on quality to meet an ambitious deadline,
1267 noting that it may allow the IAIS to benefit from experience of numerous regulatory
1268 changes implemented or developed in EU, US and many other economies in the
1269 Asia Pacific. The IAIS has subsequently revised the timeframe and is now taking
1270 sufficient time and several steps in developing ICS. The APFF intends to monitor its
1271 development and assist them as appropriate in standard setting and
1272 implementation to reflect perspectives from the Asia Pacific region.

1273 The issues above are also relevant to accounting standards. Additional comments
1274 on accounting by the APFF included the following:

1275 ■ **Volatility in balance-sheet:** Under accounting regime based on the current
1276 market, short-term volatility tends to be significant for long-term business and
1277 may not provide useful information for long-term investors, who wish to
1278 determine such investments that are good in the long run, rather than appear
1279 good at a given moment. Valuation should reflect the long-term nature of
1280 business activities. In particular, the interaction between assets and liabilities
1281 should be properly reflected. The scope of contracts for which the insurance
1282 liabilities and the related assets are consistently measured and presented,
1283 reflecting the assets-liabilities interaction could be expanded to include all
1284 contracts, including those where all or part of the cash flows are dependent on
1285 returns from underlying items. Choice of discount rate should be reflective of
1286 the business model of the issuers of the contracts.

1287 ■ **Volatility in income statement:** Short-term fluctuations in the statement of
1288 profit or loss may distort the relevant of the information on performance for
1289 the period, where such fluctuations are irrelevant for predicting the cash flows

1290 of the entity. A wider use of OCI both in assets and liabilities should be
1291 permitted to better reflect the long-term nature of the business. Nevertheless,
1292 the use of OCI should be optional taking into account different business models,
1293 in order to avoid accounting mismatch between assets and liabilities.

1294 ■ **Business activities:** Financial statements are more relevant if standards reflect
1295 how an entity conducts its business in terms of (a) the unit of account, (b) the
1296 selection of a measurement basis for an asset or a liability and related income
1297 and expenses, and (c) presentation and disclosure, including items of income
1298 and expenses in OCI. Consideration of business model may provide a faithful
1299 representation of the economic reality and result in more relevant information.

1300 ■ **Consistency and transition requirements:** Treatment of changes in estimated
1301 cash flows and that of discount rates should be consistent to reflect economic
1302 reality and to provide relevant and useful information to users. The
1303 retrospective measurement of CSM (contract service margin) for existing and
1304 past long-duration contracts would be extremely burdensome and costly and
1305 often practically impossible due to lack of data, and may have significant
1306 financial impact. Flexibility should be given in adopting transition requirements
1307 to reduce operational difficulties and minimize financial impact at transition.
1308 One solution may be to take a full prospective approach.

1309 ■ **Complexity and presentation:** In order to avoid practical burdens and costs on
1310 preparers, unnecessary complexities should be removed. It would improve
1311 understandability for users. One measurement for all insurance contracts
1312 should be used without bifurcation of cash flows, in order to reflect how
1313 contracts are designed and managed. As for presentation, the metric should be
1314 comparable to conventional accounting practice to maintain comparability and
1315 avoid competitive disadvantage for insurers using IFRS. The metric should
1316 reflect the need of general users.

1317 Notably, the APFF held bilateral meetings with some IASB Board Members and Staff
1318 to exchange views on insurance contracts as well as conceptual framework. The
1319 IASB welcomed an opportunity to share perspectives from the Asia Pacific and
1320 engage in constructive discussions on key issues, since it may ultimately facilitate
1321 the implementation of IFRS in the region. As a result, we observed some
1322 improvements of the proposed IFRS.

1323 The IASB is revising IFRS4 Phase I to allow the insurers under certain conditions to
1324 defer applications of IFRS9 to address the mismatch between assets and liabilities,
1325 arising from the different effective dates of IFRS9 and IFRS4. This change would be
1326 in line with the APFF recommendation to promote consistent measurement of
1327 assets and liabilities. The final standard is expected to be issued in September 2016.

1328 The IASB is also working on the IFRS4 Phase II on insurance contracts. After the
1329 Board have completed key decisions, it is now the drafting phase by the Staff. Field
1330 testing with some selected insurers is planned this summer. The final standard is

1331 expected to be issued either the end of 2016 or more likely the first quarter of 2017.

1332 Through Board discussions and dialogue with stakeholders, the IASB has made
1333 changes from the 2013 Exposure Draft, including the permission of optional OCI, a
1334 measurement model for participating contracts under some conditions where
1335 changes in the estimate of the future fees that an entity expects to earn from
1336 participating contract policyholders are adjusted against the CSM (so-called
1337 “variable fee approach”), and alternative approach for CSM at transition. A number
1338 of requirements were streamlined. These changes would address some of the
1339 issues identified by the APFF.

1340 Remaining key issues include (1) unit of account, and (2) scope for direct
1341 participating contracts. While the IASB made some favorable changes on these two
1342 points, there are some technical issues yet to be addressed. The APFF intends to be
1343 involved in drafting and implementation process, in cooperation with the European
1344 and North American industry representatives, who share similar concerns, and
1345 assist the IASB in delivering the final standards to reflect economic reality and
1346 long-term nature of the business, and not dis-incentivize insurers’ long-term
1347 investments and business.

1348 Lastly, the APFF identified regulatory issues other than insurers’ solvency regime,
1349 such as investment regulations and pension funds, and securities/capital market
1350 regulations that may affect the ability of the insurers and pensions to provide
1351 long-term investments. For example, restrictions or excessive reserving
1352 requirements for derivatives may be an important constraint for long-term
1353 investment in infrastructure. These problems are often beyond the responsibility of
1354 insurance regulators, and the coordination with other financial sector regulators
1355 and industry (i.e. banking, securities) would be crucial to address this topic more
1356 holistically.

1357 **Participation in conferences and seminars**

1358 In addition to the above-mentioned dialogue with stakeholders, APFF contributed
1359 or plan to contribute in 2016 to a number of events by providing speakers and
1360 panelists and/or helping planning the agenda¹³.

¹³ 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.
- East Asian Insurance Congress, Macau, 11-14 October

1361 In 2015 and 2016, APFF has had numerous dialogues with insurance regulators, but
1362 the totality of stakeholders that influence whether recommendations are adopted
1363 is bigger than that. Which stakeholders are the most influential (e.g. trade bodies,
1364 regulators, infrastructure investors, central banks) will vary, but APFF will try to
1365 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
- 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.

1366 [Recommendations](#)

- 1367 ■ ***APEC economies should consider the establishment of mandatory and scalable***
1368 ***retirement systems. A mandatory system provides the scale necessary to***
1369 ***effectively channel the region's huge savings currently concentrated in***
1370 ***short-term bank deposits into longer term institutional investments and***
1371 ***productive assets. Retirement savings can help professionalize the financial***
1372 ***system through deeper domestic capital markets and expanded roles of long***
1373 ***term investors such as insurers and pension funds. Scalability is provided by***
1374 ***implementing strong tax incentives to encourage higher levels of retirement***
1375 ***savings. Altogether the system promotes public financial awareness, ensuring a***
1376 ***diverse range of retirement income products and improved financial security for***
1377 ***progressively aging populations in the region.***
- 1378 ■ ***APEC economies should promote infrastructure investment as a defined asset***
1379 ***class to facilitate more holistic regulatory treatment that can encourage more***
1380 ***private sector infrastructure investment. Inadequate infrastructure investment***

-
- APEC Senior Finance Officers Meeting, Peru, 12-15 October
 - IAIS Annual Conference, Asuncion, 10 November
 - ASEAN Insurance Summit/ASEAN Insurance Regulators Meeting, Yogyakarta, 21-24 November.

1381 *has been a long-standing issue in emerging Asia (outside of China), as*
1382 *documented by the ADB and others. At the same time, high Asian savings have*
1383 *been channeled into short-term bank deposits and the government bonds of*
1384 *mature market economies. Promotion of infrastructure as a defined asset class*
1385 *will help break the Gordian knot between a dearth of investable long-term assets*
1386 *and the glut of Asian savings.*

1387 ■ *APEC economies should adopt accounting, solvency, investment, and securities*
1388 *standards supportive of the development of retirement savings and*
1389 *infrastructure investment. To encourage insurers and pension funds to engage in*
1390 *long-term investments and retirement solutions, barriers of regulations and*
1391 *accounting should be removed, and policies that are suitable for long-term*
1392 *business should be promoted. Global solvency and accounting standards should*
1393 *be designed in a way to incentivize companies to improve risk management and*
1394 *adopt best practice.*

1395 ■ *It is recommended that APEC Finance Ministers encourage the participation of all*
1396 *relevant public sector stakeholders in dialogues with the private sector to*
1397 *address barriers to long-term investment. APFF intends to promote active*
1398 *participation of the private sector in conferences organized by network members*
1399 *and to convene workshops in the region involving a wide range of stakeholders.*

1400 **Mobilizing Islamic Finance for Infrastructure Investment**

1401 Islamic finance has significant potential to meet long-term funding needs for
1402 infrastructure projects, which are suitable for its asset-based and risk-sharing nature.
1403 The global Islamic capital market has been growing in size and depth across
1404 jurisdictions, with a combined market capitalization of over \$21.5 trillion spread
1405 across 70 jurisdictions now covered by the Dow Jones Islamic Market indices.

1406 At the 2015 APEC Finance Ministers' Meeting hosted by the Philippines in Cebu,
1407 ministers and the private sector discussed the development of an Islamic
1408 Infrastructure Investment Platform (I3P), in order to facilitate the mobilization of
1409 capital in Islamic institutions to fund infrastructure across the region. In October
1410 2015, the government of Brunei Darussalam hosted a workshop in collaboration
1411 with the APEC Business Advisory Council (ABAC) Brunei, the APIP and the APFF. In
1412 May this year, the government of Malaysia, in collaboration with ABAC Malaysia,
1413 hosted an APFF workshop to develop concrete proposals.

1414 Participants in the workshop agreed on the following proposed features of I3P:

1415 ■ I3P would provide a platform for collaboration among public, private,
1416 international and academic experts to address the key obstacles to the
1417 expansion of cross-border investment by Islamic financial institutions, especially
1418 long-term investment from takaful and Islamic pension funds, in infrastructure
1419 projects in APEC economies.

- 1420 ■ I3P would be a pathfinder initiative involving initially Brunei, Malaysia and other
1421 interested APEC member economies, that can be open to participation by other
1422 APEC members as it develops. It is hoped that I3P's success in addressing key
1423 issues would lead to more cross-border investment in infrastructure among
1424 participating economies, as well as more investment from leading Islamic
1425 financial centers to the region.
- 1426 ■ I3P would be an initiative under the FMP to be championed jointly by Brunei,
1427 Malaysia, ABAC, and any other interested APEC economies. The pathfinder
1428 economies will also invite ADB and the World Bank Group to support the
1429 initiative. It would seek the collaboration of related FMP policy initiatives such
1430 as the APFF and APIP, both of which will mobilize experts from their respective
1431 networks, as well as other institutions such as the Islamic Development Bank
1432 and the Sustainable Infrastructure Foundation.
- 1433 ■ I3P will have a small secretariat based in a location agreed upon by the
1434 pathfinder economies. The funding for the secretariat may be provided by the
1435 public or private sector or both, or may be shouldered by an existing
1436 organization.
- 1437 ■ During the initial stage, a small APFF task force led by the Brunei private sector
1438 would play a provisional secretariat role, while undertaking activities and
1439 discussions leading to the establishment of the secretariat. The role of the
1440 secretariat would be mostly coordination and maintenance of a directory of
1441 experts participating in the initiative.
- 1442 ■ Actual work would be undertaken by public, private, international and academic
1443 experts on a volunteer basis, organized around a number of work streams led
1444 by volunteer Sherpas agreed upon by the pathfinder economies.
- 1445 ■ Activities would be undertaken on a self-funded basis. Participating
1446 organizations will be encouraged to host activities. Participants will be
1447 responsible for financing their own travel and accommodation through their
1448 own institutions or sponsors. Funding may be solicited from appropriate
1449 sources for projects that require significant dedication of time and effort, such
1450 as research projects or surveys.
- 1451 ■ During the initial stage, I3P would have the following work streams to address
1452 key issues identified during the first two workshops: (a) development of
1453 common definitions of Sharia-compliant infrastructure projects and financial
1454 instruments acceptable in all pathfinder economies, taking into account the
1455 proposals to define infrastructure and real assets and their incorporation in an
1456 enabling Islamic investment infrastructure environment referred to later in this
1457 report; (b) development of Islamic hedging instruments; (c) development of
1458 financial instruments suitable for infrastructure investment from Islamic
1459 pension funds and takaful; (d) identification of discriminatory tax policies in
1460 pathfinder economies and actions to address them; (e) development of a virtual

1461 place to coordinate directory of experts, definitions, funders, participating
1462 economies, qualifying infrastructure projects to help progress various initiatives
1463 under this platform; and (f) collaboration with the International Infrastructure
1464 Support System (IISS) in developing project preparation tools for participating
1465 economies.

1466 **Recommendation**

1467 ■ ***APEC should establish an Islamic Infrastructure Investment Platform (I3P) as a***
1468 ***pathfinder initiative to provide a platform for collaboration among public,***
1469 ***private, international and academic experts to address the key obstacles to the***
1470 ***expansion of cross-border investment by Islamic financial institutions, especially***
1471 ***long-term investment from takaful and Islamic pension funds, in infrastructure***
1472 ***projects in APEC economies. I3P should address in its work the definitions of***
1473 ***infrastructure and financial instruments; Islamic hedging instruments; financial***
1474 ***instruments for pension funds and takaful; discriminatory tax policies; directory***
1475 ***of experts, definitions, funders, participating economies and qualifying***
1476 ***infrastructure projects; and collaboration with the International Infrastructure***
1477 ***Support System (IISS).***

1478

1479 **DEEPENING THE REGION'S CAPITAL MARKETS**

1480 *The APFF's information in capital markets self-assessment templates have*
1481 *been a useful tool for the Philippines to assess how easy it is for investors to*
1482 *access information about our market. We look forward to using them in*
1483 *discussions with investors in the future and support this initiative toward*
1484 *building transparency across Asia Pacific.*

1485 ***Ephyro Amatong -- Commissioner, Philippines Securities and Exchange***
1486 ***Commission***

1487 *We welcome the support of the APFF and would see APFF involvement as an*
1488 *important signal that the industry in the region is very much engaged and*
1489 *supportive of the Asia Region Funds Passport initiative.*

1490 ***A senior official of the Australian Treasury***

1491 **Promoting Liquid Repo and Derivatives Markets**

1492 Capital markets, particularly local currency bond markets, are of crucial importance
1493 for the region's financial stability, economic growth, and the efficient channeling of
1494 long-term savings to investment in long-term assets like infrastructure. Various
1495 initiatives have successfully brought about the rapid growth of Asian government
1496 bond markets, a key stage in the process of capital market development. The next
1497 stage, which is increasing market depth and liquidity, will be critical to the sustained
1498 growth and development of the region's capital markets.

1499 Last year, Finance Ministers decided to include the development of capital markets
1500 as one of the deliverables under the CAP. The APFF has organized its work program
1501 in line with the Ministers' direction to promote the development of liquid repo
1502 markets, legal and documentation infrastructure facilitating risk mitigation,
1503 transparency of capital markets (issuer disclosure, bond market data, investor rights
1504 in insolvency), and a regional securities investment ecosystem to promote
1505 cross-border investment in capital markets. Through the APFF, ABAC is engaging
1506 with regulators in individual member economies as well as with the ASEAN+3 Bond
1507 Market Forum.

1508 The development of liquid, deep, classic bond repurchase (repo) markets is critical
1509 to the deepening of the region's capital markets and the real economy. The APFF
1510 seeks to drive public-private collaboration in the development of classic repo
1511 markets in Asia. This collaboration allows public and private sector stakeholders to
1512 share international best practices and develop new lines of communication that
1513 may not otherwise exist. As a result, this enables participants to identify and
1514 address impediments in legal architectures, improve market infrastructure,
1515 standardize market conventions, and provide industry best practices.

1516 Deep and liquid repo markets help deepen capital markets and support the real

1517 economy. Specifically, repo markets support the real economy by:
1518 ● increasing liquidity in local currency bond markets;
1519 ● expanding the pool of available finance and improving financial institutions'
1520 ability to meet their financing needs;
1521 ● mitigating the reduction in market liquidity due to regulatory change;
1522 ● allowing the movement of securities across the region;
1523 ● improving investor confidence and participation in local bond markets;
1524 ● reducing funding costs for governments, pension funds, asset managers and
1525 other long-term investors;
1526 ● developing market infrastructures that are necessary to serve the real
1527 economy; and
1528 ● offering hedging tools which contribute to risk management

1529 There are several policy issues to address in fostering an enabling environment for
1530 repo markets. In particular, the necessary conditions to develop cross-border repo
1531 markets are: (i) deep bond market liquidity; (ii) sound legal framework that protects
1532 creditors' rights in bankruptcy and insolvency proceedings; (iii) robust investor
1533 participation; (iv) neutrality in tax treatment; and (v) efficient and interoperable
1534 market infrastructures to support cross-border repo markets.

1535 In August 2015, the Asia Securities and Financial Markets Association (ASIFMA) and
1536 the International Capital Markets Association (ICMA) launched their ASIFMA-ICMA
1537 Guide on Repo in Asia. The report is divided into two sections: Section I on "Laying
1538 the Policy and Regulatory Foundation for Efficient Asian Repo Market Development"
1539 and Section II by ASIFMA and ICMA "Best Practices across the Repo Trade
1540 Lifecycle". It takes a comprehensive view of all aspects of repo market
1541 development in Asia and addresses three key issues: 1. Why is it important to
1542 develop the repo market in Asia? 2. What are the main challenges facing the repo
1543 market in Asia? 3. What is best practice in the repo market - and how can it be
1544 implemented?

1545 APFF also continues to engage with domestic regulators and governments to
1546 encourage the further development of classic repo markets and increasing
1547 secondary market liquidity in the region. In particular, APFF is providing a platform
1548 for holding repo market workshops in interested economies to share the findings of
1549 the Repo Best Practices Guide, as well as exchange ideas for local adoption of the
1550 best practices and recommendations.

1551 Over the counter (OTC) derivatives play critical roles in capital markets, as they are
1552 used by firms to manage balance sheet liabilities and cash flows as well as hedge
1553 various economic risks, including interest rate and foreign exchange risks. A number
1554 of new regulations introduced to improve transparency, mitigate systemic risk and
1555 prevent market abuse are changing the landscape for these instruments, including
1556 in ways not intended but posing challenges in terms of their impact on hedging
1557 costs, bid-offer spreads and ease of trading. Emerging Asia faces additional risks of
1558 growing fragmentation with the emergence of a multiplicity of clearing systems

1559 handling relatively small transaction volumes.

1560 The sub-stream dealing with these issues aims to help policy makers and regulators
1561 identify and address key issues that affect the effectiveness and connectivity of OTC
1562 derivatives clearing houses in the region. An important focus of this work is the
1563 legal and documentation infrastructure required to support safe, efficient markets.
1564 Contractual legal certainty and protection of collateral rights are vital building
1565 blocks that allow capital markets to facilitate capital investments, extend credit and
1566 provide business risk mitigation hedging tools.

1567 ISDA assisted Bank Negara Malaysia (BNM) in the drafting of proposed legislation
1568 that culminated in the Netting of Financial Agreements Act which was enacted on
1569 March 30, 2015 to ensure legal enforceability of close-out netting arrangements.
1570 This brought to an end a period of netting unenforceability that had begun
1571 following the Asian Financial Crisis in 1998 and showed the efficacy of public-private
1572 collaboration.

1573 More recently in May 2016, the Parliament of Australia passed the Financial System
1574 Legislation Amendment (Resilience and Collateral Protection) Bill 2016.
1575 Amendments to Australian law were necessary to ensure that termination/close-out
1576 rights under derivative arrangements can be exercised and to stabilize the financial
1577 system with more certainty provided to the operation of financial market
1578 infrastructure. The amendments also removed legal uncertainty in relation to
1579 security enforcement to support access to international markets and liquidity by
1580 Australian regulated entities and life companies. Cooperation between the
1581 Australian Council of Financial Regulators, King & Wood Mallesons and ISDA were
1582 crucial to the success of this legislation.

1583 One driver behind this legislation is the looming implementation (September 2016
1584 for the biggest global banks and March 1, 2017 for all other significant global
1585 financial institutions) of mandatory margining for non-cleared OTC derivatives
1586 under guidelines and timelines set out by the BCBS-IOSCO (though subject to
1587 national regulators' interpretations). These margin regulations will have
1588 tremendous impact on pricing in the less liquid APEC derivatives markets, which
1589 makes enforceability of close-out netting and collateral rights crucial to containing
1590 costs and continued market viability. ISDA has been engaged in a series of road
1591 shows across the Asia-Pacific region to highlight to both local regulators and market
1592 participants what the new margin requirements are and what the impact will be.
1593 Last year's APFF forum in Manila in collaboration with ABAC, ADB and ASIFMA was
1594 one such presentation. This year, ISDA has already made presentations in 9
1595 Asia-Pacific economies and by year end, will have presented in 12 or more
1596 economies.

1597 ABAC has been collaborating with the ADB, the Asia Securities Industry and
1598 Financial Markets Association (ASIFMA) and International Swaps and Derivatives
1599 Association, Inc. (ISDA) to assist the Philippines and Indonesia in the development

1600 of their repo and derivatives markets, using the APFF platform. An APFF workshop
1601 on the Philippines' repo and derivatives markets was held last November in Manila,
1602 while another workshop on Indonesia's repo market was held last April in Jakarta.
1603 Discussions are ongoing to hold workshops in China on bond, repo and derivatives
1604 markets and in Indonesia on its derivatives market later in the year.

1605 A topic that may be added to future APFF work is the impact of Basel capital rules
1606 on APEC financial markets. Basel III rules were a necessary response to the
1607 financial crisis. but what the cumulative impact of other capital rules in the pipeline,
1608 including Fundamental Review of the Trading Book (FRTB), Net Stable Funding
1609 Ratio (NSFR), the Standardized Approach for Measuring Counterparty Credit Risk
1610 (SA-CCR), and the leverage ratio will not be easily quantified, though the impact will
1611 be disproportionately felt in the less developed financial markets.

1612 Recommendation

1613 ■ *Member economies are encouraged to collaborate with APFF in undertaking*
1614 *workshops on development of classic repo and derivatives markets to enable the*
1615 *effective use of hedging instruments and improve bond market liquidity. The*
1616 *APFF also welcomes collaboration from other interested organizations in*
1617 *financing and convening these activities.*

1618 **Information for Capital Market Investors**

1619 Trust is the cornerstone of a sound capital market. It enables investors to put their
1620 resources to the use by others who can help build and grow the economy. The
1621 quality, comparability and availability of information are key ingredients in bringing
1622 together buyers and sellers of both debt and equity. Policy makers and regulators
1623 can help expand investor activity in their capital markets by collaborating with the
1624 private sector to identify the information that investors need.

1625 The APFF created a series of self-assessment templates that can serve as tools to
1626 facilitate and shape public-private sector dialogue on information for investors in
1627 the region's debt markets, especially those for non-bank corporate debt. These
1628 templates are not intended to be lists of prescriptive measures, but are rather
1629 designed to provide foundations for meaningful conversations contrasting what an
1630 international investor might expect and what is available in any given market.
1631 Importantly, they give public policy officials a mechanism through which to explain
1632 why certain information may or may not be available, or where investors can find it.

1633 APFF's work on this issue is organized around three categories – disclosure, bond
1634 market data and information on investor rights in insolvency. These three
1635 categories broadly align with information that may be relevant to successive phases
1636 of the investment process: initial purchase, secondary market trading, and rights
1637 in the event of default.

1638 The Philippines' Securities and Exchange Commission supports the templates and

1639 has filled them out internally. They continue to work with representatives from
1640 APFF and see the templates as a worthwhile initiative. The templates have been
1641 sent to the Deputies Chair of the ASEAN Capital Markets Forum and will be tabled as
1642 an agenda item at the Deputies' Meeting in September. There will be immediate
1643 follow-up with regulators from Malaysia, Vietnam, Thailand and Indonesia after the
1644 ACMF Deputies' Meeting in September.

1645 **Recommendation**

- 1646 ■ ***More member economies should engage with APFF in using the self-assessment***
1647 ***templates on information for capital market investors to help expand the***
1648 ***investor base.***

1649 **Supporting the Asia Region Funds Passport (ARFP) Initiative**

1650 The ARFP is a program aimed to provide a multilaterally agreed framework to
1651 facilitate the cross border marketing of managed funds across participating
1652 economies in the Asia region. The APFF Sub-Stream on the ARFP was established to
1653 support its successful launch. The channels for public-private collaboration created
1654 under the APFF has allowed the ARFP sub-stream to facilitate a discussion on the
1655 early enlargement of ARFP to include a critical mass of participating jurisdictions, as
1656 well as the interoperability of ARFP with other regional mutual recognition
1657 frameworks.

1658 In 2015, the APFF convened several discussions with representatives from the
1659 international asset management and financial industry, as well as experts from the
1660 legal and consulting professions and public international organizations, to provide
1661 industry feedback to regulators and officials as they worked to advance the ARFP.
1662 Among the views that garnered agreement are the following:

- 1663 ■ **Enlargement of the ARFP:** The flexibility of the ARFP to enlarge is critical to its
1664 impact and success. The participation of as many economies as possible in the
1665 ARFP, particularly at the outset, and the opportunity for future enlargement
1666 would incentivize active participation by financial service providers in the ARFP,
1667 increasing the ARFP's coverage and thereby increasing intra-regional capital
1668 market integration, and allowing its benefits to be more widely enjoyed. ARFP's
1669 enlargement will increase investors' investment options and reduce
1670 cross-border investment costs through economies of scale.
- 1671 ■ **Reciprocity:** Member economies should works towards according "equivalent
1672 priority" to promoting ARFP Funds so that they are treated on a basis that is
1673 comparable to domestic funds. This spirit of reciprocity will allow the ARFP to
1674 facilitate greater financial integration.
- 1675 ■ **Inter-operability with other regional frameworks:** It is important that the ARFP
1676 is flexible enough to interoperate with other regional investment schemes, such
1677 as the Hong Kong-China mutual recognition regime and the ASEAN Collective

1678 Investment Scheme (CIS) Framework to facilitate the future convergence of the
1679 various initiatives and structures. Interoperability with other regional schemes
1680 would, as with the introduction of more economies into the ARFP, create
1681 greater economies of scale, reduce market fragmentation and improve financial
1682 market integration, while ensuring that alternatives continue to be available to
1683 retail investors.

1684 ■ Dispute resolution: In the European funds passport arrangement (the UCITS
1685 regime), mechanisms exist to the European Securities and Markets Authority
1686 (ESMA) resolves disputes over issues such as the interpretation of UCITS
1687 directives and disputes arising between home and host regulators or regulators
1688 and investors. There is a strong case for the creation of a resolution mechanism
1689 to help address uncertainties, disputes or issues of misinterpretation that may
1690 arise in the course of the operation of the ARFP.

1691 ■ Standardization of fees and performance figures: It is suggested that rules on
1692 the method of calculation of and disclosure of performance figures and fees in
1693 the prospectus of Passport ARFP Funds be established in order to ensure
1694 investors are able to conduct a fair comparison of the available ARFP Funds.

1695 ■ International Recognition of ARFP Funds: It is suggested that APFF begin
1696 engaging with non-member regulators with a view to facilitating the
1697 cross-border distribution of Passport ARFP Funds beyond the member
1698 economies. ARFP Funds should eventually be permitted to be offered into
1699 non-member economies the same way UCITS funds may be distributed in
1700 non-EU jurisdictions.

1701 The APFF welcomed the signing of the Statement of Understanding for the Asia
1702 Region Funds Passport (ARFP) in Cebu last September by six economies and the
1703 signing of the Memorandum of Cooperation early this year by Australia, Japan,
1704 Korea, New Zealand and Thailand. Discussions among industry representatives in
1705 the APFF concluded that, with the decision by Japan in 2015 to join the scheme, the
1706 ARFP has made significant progress. APFF collaborators conducted informal
1707 discussions with regulators in Hong Kong, Singapore and Chinese Taipei and spoke
1708 at an Industry-Regulator Dialogue in Sydney to encourage other member economies
1709 to join the ARFP.

1710 The APFF also established a Tax Task Force that completed an assessment of the
1711 key tax metrics in actual and potential ARFP participating jurisdictions to help
1712 regulators understand the detailed tax implications of ARFP and made this
1713 assessment available to regulators in participating jurisdictions.

1714 **Recommendation**

1715 ■ **More member economies should join the Asia Region Funds Passport (ARFP)**
1716 **by signing the Memorandum of Cooperation. APFF also welcomes**
1717 **opportunities and invitations to provide private sector resource persons to**

1718 dialogue with regulators and industry in economies that decide to consider
1719 joining the ARFP.

1720 ■ It is recommended that ARFP regulators continue to engage the private sector
1721 on the implementation of the ARFP.

1722

1723 **MODERNIZING THE ASIA-PACIFIC FINANCIAL MARKET INFRASTRUCTURE**

1724 **Enabling Regional Securities Investment Ecosystem**

1725 Facilitating flows of capital across the region's markets is a key factor for economic
1726 growth in the region. The APFF's work on financial market infrastructure and
1727 cross-border practices seeks to address the most significant obstacles to
1728 cross-border investment flows related to the connectivity platform and standards
1729 used in financial market infrastructure (FMI). The central objective is to promote
1730 cross-border portfolio investment flows with market practice, standards and
1731 platforms that can selectively harmonize market access and repatriation practices,
1732 improve the inter-operability, liquidity and connectivity of domestic and
1733 cross-border financial markets, and reduce systemic risks.

1734 Three significant issues pose major challenges to cross-border portfolio flows in the
1735 region:

1736 ■ A relatively high volume of change, across different economies, in different
1737 focus areas and at different paces

1738 ■ The focus on later-stage market development (T+2) rather than the
1739 pre-requisites and enablers (standards, automation and harmonization of
1740 platforms)

1741 ■ Increasing KYC focus introduces more opportunities to improve efficiency and
1742 new issue areas are emerging from cross-border tax compliance reporting, data
1743 privacy and security concerns in APEC

1744 To address these issues, APFF will undertake workshops and dialogues that will
1745 focus on helping interested economies identify effective ways to develop a regional
1746 securities investment ecosystem. In particular, APFF will focus on the following:

1747 ■ In view of aggregate planned changes over the coming 2-3 years in market
1748 access, clearing and settlement and repatriation across the region, APFF will
1749 undertake discussions on (a) the creation of a regional roadmap of upcoming
1750 regulatory and market changes; (b) the feasibility of a regional
1751 private-public-market infrastructure forum that will exchange views on these
1752 developments; and (c) the feasibility of longer consultation and notification
1753 periods of key regulatory and market changes.

1754 ■ APFF will focus on a more streamlined regional KYC/AML documentation
1755 compliance and process, recognizing the layers of global intermediary chain and
1756 practices between securities issuers and the ultimate beneficial owners. APFF
1757 will undertake discussions on (a) regionally and globally aligned standards for
1758 KYC/AML documentation collection and reporting; (b) the use of third party
1759 industry utilities for a centralized KYC/AML electronic depository; and (c)
1760 minimum standards for data privacy, protection and security and cross-border

1761 flows.

1762 This year, APFF has also started discussions on increasing the operational efficiency
 1763 and automation level of fund services – an important post-trade industry segment
 1764 that supports investors’ investments into funds and cross-border fund passport
 1765 initiatives such as the ARFP. Through higher levels of industry standardization and
 1766 harmonization, including the establishment of industry utilities, APFF is seeking to
 1767 address the highly manual processing in many funds servicing industry today that
 1768 deploys valuable resources in areas that can be readily replaced by outsourcing or
 1769 offshoring where permitted. Where outsourcing and offshoring does not take place,
 1770 the fund management industry can suffer from uncompetitive avoidable
 1771 operational costs.

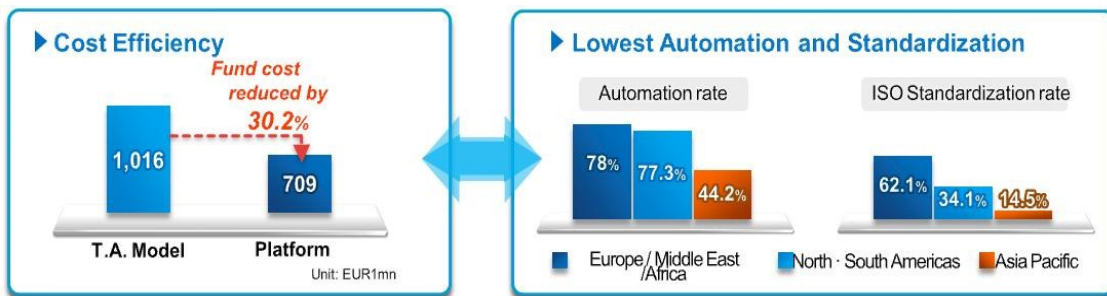
1772 **Table 3: Fund servicing activities and challenges**

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

1773

1774 Hence, the focus of the work would be how to reduce the costs of investment
 1775 processing and promote greater skills specialization. Through standardization of
 1776 funds information, it can also lead to greater transparency of fund information that
 1777 can facilitate financial literacy, lower the cost of financial inclusiveness, permit more
 1778 efficient cross-border funds investments and indirectly encourage capital markets’
 1779 activities. Industry-level use of “algorithmic advisors” that search across many
 1780 different funds to fit investors’ risk-return needs can become possible as a result of
 1781 standardization of funds information and messaging infrastructure.

1782 **Figure 1: Value released from greater automation**



1783

1784 APFF hopes to engage central securities depositories (CSDs) in the region that are
1785 either actively promoting greater automation of funds servicing and industry
1786 utilities or investigating these areas. Having formed a regional forum called the Asia
1787 Funds Standardization Forum (AFSF), they are seeking to align their work more with
1788 regional funds passport initiatives like ARFP, as well as to form a more complete
1789 ecosystem to include regulators and asset managers that can drive a more holistic
1790 agenda.¹⁴

1791 Recommendation

1792 ■ *APFF proposes to convene a regional symposium in 2017 on the development of a*
1793 *roadmap for improving the regional financial market infrastructure. Discussions*
1794 *could focus on the harmonization of market access and repatriation practices,*
1795 *improving the inter-operability, liquidity and connectivity of domestic and*
1796 *cross-border financial markets, reducing systemic risks, and creating a securities*
1797 *investment ecosystem that can promote cross-border portfolio investment flows*
1798 *across member economies.*

1799 **Facilitating innovation in financial market infrastructure**

1800 The growing role of financial technology (Fintech) raises new opportunities and
1801 risks with respect to the development of the region's financial market infrastructure
1802 (FMI), which is also particularly important in promoting cross-border operations of
1803 MSMEs.¹⁵As governments begin to grapple with the issues that Fintech raises,
1804 government-industry collaboration will be important to understand the impact of
1805 developments and determine appropriate regulation that allows innovation while
1806 protecting the consumer and limiting systemic risk. Inter-agency cooperation will
1807 be particularly important as issues go across government departments.
1808 Cooperation between governments will also be important to reduce the risk of
1809 different standards developing across APEC economies.

1810 Fintech is affecting a large number of traditional financial services offerings.
1811 Regulators continue to have the responsibility of learning from the problems of the
1812 past and addressing issues in traditional financial services and service providers.
1813 The rise of Fintech brings a new challenge for financial regulators to create a
1814 regulatory regime that is adaptable and flexible enough for the present and the
1815 future, given the rapid rate of change in technology.

1816 The APFF can provide a platform for industry, public sector and multilateral
1817 stakeholders to help policy makers and regulators identify approaches and ways
1818 forward to address issues in three key areas. These cut across Fintech

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

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

1819 developments in APEC and where we believe early work and progress can be made
1820 under the APFF process – cybersecurity, Know-Your-Customer (KYC) rules and
1821 electronic payments (e-Payments) – through a series of workshops.

1822 ■ Cybersecurity: Fintech has the potential to leverage data and new risk modeling
1823 techniques to lower security risks. Cybersecurity remains a major risk as Fintech
1824 builds out, but better technology that can properly combat new risks raised in a
1825 digital world could provide a solution. Robust cybersecurity can ensure that
1826 high levels of security are maintained and enhanced at the economy level even
1827 amidst increasing cross border data flows. Discussions will focus on best
1828 practices and opportunities and risks involved in various policy options.¹⁶

1829 ■ KYC: Identity is critical for people to bank and transact. However, mobile
1830 phones and data are powering new ways to open up access and participation.
1831 In order to provide effective, safe, and secure products, service providers need
1832 to be able to easily and reliably identify consumers. Technology can help to
1833 provide better forms of identity using biometrics, transaction details, or
1834 physical tokens (i.e. mobile phones). Discussions will focus on the myriad of KYC
1835 regulations across the region, creating interoperable baseline standards for KYC,
1836 exploring new ways of identity verification as well as tiers of KYC appropriate to
1837 the type and value of transactions.¹⁷

¹⁶ 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.

¹⁷ 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

1838 ■ e-Payments: E-Payments have a major impact by lowering transaction costs,
1839 increasing transparency, and making transfers of money faster and more
1840 efficient. Restrictions on e-Payments, including amounts that can be processed,
1841 the type of entity that can engage in processing, location of processing facilities,
1842 or the technology that can be used will impact growth, equity, and innovation.
1843 Cross department cooperation is also important. Drawing on the latest APEC
1844 ePayment Readiness Index,¹⁸ discussions will explore conditions under which
1845 economies can promote healthy disruption and encourage firms and consumers
1846 into the e-Payments infrastructure, and how e-Payments systems can make
1847 compliance with AML and CTF rules, and identification and payment of taxes
1848 and other processes easier, less costly, less time-consuming and more
1849 transparent.¹⁹

1850 **Recommendation**

1851 ■ ***Policy makers and regulators should participate in APFF workshops on***
1852 ***cybersecurity, Know-Your-Customer (KYC) rules and e-Payments to facilitate***
1853 ***innovation in the region's financial market infrastructure.***

1854

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.

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

¹⁹ 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.

1855 HARNESING FINTECH TO ACCELERATE THE DEVELOPMENT OF FINANCIAL 1856 MARKETS

1857 Tremendous changes are sweeping today's financial landscape. The growing use of
1858 FinTech, which includes mobile money, shared ledger technology²⁰ (including block
1859 chain), big data, artificial intelligence, electronic platforms, advanced analytics and
1860 automated processes, among others, is challenging established business models.
1861 New players are entering markets long dominated by traditional financial service
1862 providers as the latter are now embracing new technologies to help them face the
1863 threat of disintermediation.

1864 Innovations such as mobile and agent banking and peer-to-peer lending have
1865 already demonstrated the power of technology to help unbanked individuals and
1866 small businesses gain access to finance. New applications are enhancing business
1867 processes such as clearing and settlement, compliance, risk management and fund
1868 administration. Technologies such as block chain and artificial intelligence have
1869 potential applications that could revolutionize financial service firms' efficiency and
1870 responsiveness to customer needs.

1871 Policy makers and regulators have begun to respond to these developments, in
1872 compliance with mandates to promote financial stability, protect consumers and
1873 privacy and maintain the integrity of financial systems. However, for the APEC
1874 Leaders' and Finance Ministers' aspirations to make financial systems more inclusive,
1875 efficient and responsive to the region's vast financing needs to be met, a balanced
1876 and coherent approach that maximizes the benefits of innovation while adequately
1877 addressing emerging risks and concerns will be required.

1878 To enable stakeholders from private and public sectors to obtain a better
1879 understanding of the forces driving changes in the financial industry and the
1880 ensuing policy and regulatory challenges, ABAC convened an Asia-Pacific Financial
1881 Forum Roundtable on Financial Innovation in Silicon Valley. This event, hosted by
1882 PayPal at its Corporate Campus in San Jose on 24 February 2016, aimed to pave the

²⁰ 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):

- **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.

1883 way to a commonly shared view of the future and closer collaboration between
1884 government and the private sector in harnessing innovation to build bigger, robust
1885 and inclusive financial markets in the Asia-Pacific region.

1886 Traditional financial institutions have long been unable to serve the financing needs
1887 of large numbers of businesses and individuals across the developing region.
1888 Technological developments have spurred innovations that are being harnessed to
1889 serve these needs, first in mobile and agent banking. As the development and
1890 convergence of new technologies and improvements in broadband infrastructure
1891 accelerated in recent years, a new wave of innovation has started to sweep the
1892 financial industry, challenging traditional business models.

1893 The FinTech landscape, however, is a very large and complex one that is affecting
1894 financial services across payments, insurance, deposit-taking, lending, capital raising,
1895 investment management and financial market infrastructure. It also represents an
1896 extensive digital realm where traditional financial institutions, start-ups,
1897 e-commerce, ICT companies, market infrastructure players, investors, accelerators,
1898 incubators, and consumers intersect with each other.

1899 The development of FinTech is being driven by front-end technologies (e.g., open
1900 application programming interface or API, mobile money), front-end financial
1901 services (e.g., peer-to-peer or P2P lending), back-end technologies (e.g., block chain,
1902 big data and predictive analytics, artificial intelligence, identity management and
1903 advanced fraud and security) and back-end financial services (e.g., faster payments,
1904 alternative underwriting). These have created disruptions in various parts of the
1905 financial sector. Examples include:

1906 ■ Lending: emergence of new non-bank lenders, rise of marketplace lending;
1907 merchant advances; supply chain and internet finance; enhanced credit
1908 underwriting and decisioning; integrated platforms for consumer financial
1909 empowerment.

1910 ■ Fund/asset transfers and payments: rise of electronic (mobile, cards) payments
1911 for the unbanked; faster payments initiatives; rise of virtual commerce globally;
1912 advanced fraud and security methods; potential of block chain/distributed
1913 ledger technology; and rise of P2P and cross-border transfer platforms.

1914 ■ Insurance: rise of insurance for the unbanked through mobile access; use of
1915 new technologies to drive down operational costs; ecosystem partnerships and
1916 new business models; enhanced analytics for better risk decisioning.

1917 The currently predominant FinTech firms are still powered by technologies that
1918 have already been around for some time. These include digital platforms and
1919 applications, use of wider data sets to customize financial services and products
1920 (including locational, personal consumption, payment and income data), and
1921 algorithms that enable rapid interpretation of data and more efficient transactions.
1922 While newer technologies, such as distributed ledger technology and block chain

1923 and artificial intelligence, are attracting much attention due to the huge potential
1924 for disruption, their commercialization is still limited and involves a relatively very
1925 low volume of financial transactions.

1926 FinTech presents enormous opportunities to promote financial inclusion, especially
1927 in emerging Asia and Latin America, which continue to host a significant portion of
1928 the world's unbanked population, not to mention those who are underbanked.
1929 Moving from paper-based transactions to retail and G2P payments, e-commerce,
1930 cross-border remittances and SME collections to digital payments, for example, is
1931 estimated to result in as much as USD 400 billion in annual benefits.

1932 At the same time, the introduction of new technologies into financial services is
1933 now raising some questions related to regulatory issues. These include consumer
1934 protection, particularly in the case of new service providers; identity management;
1935 data management and data protection with respect to the use of big data and
1936 algorithms; network and system stability and cyber security and cyber risk.
1937 Regulatory approaches across the region are varied and continue to evolve.
1938 Nevertheless, regulators are being encouraged to take a light regulatory touch for
1939 new FinTech start-ups to support innovation.

1940 Technologies are emerging that enable financial market players to respond more
1941 effectively to regulatory requirements. Participants discussed the incorporation of
1942 regulatory requirements into technology protocols that is promoting the
1943 automation of the regulatory process, the evolution of regulatory models and how
1944 industry, policy makers and all relevant regulators can collaborate to build a robust
1945 and coherent ecosystem for inclusive financial innovation.

1946 Beyond this, however, is the broader question of how policies and regulations
1947 should respond to the rapid development of FinTech. As innovation gives rise to a
1948 new ecosystem of financial institutions, services and market infrastructure, policies
1949 and regulations will also need to evolve. In addition to striving toward the critical
1950 regulatory goals of financial stability, cyber security, data privacy, consumer
1951 protection and the fight against crime and terrorism, they will also need to promote
1952 a coherent policy and regulatory environment that allows the financial sector to
1953 support broader goals, including financial inclusion, continued innovation and the
1954 growth of trade and investment across the region.

1955 In particular, FinTech raises a number of key issues for government and regulatory
1956 agencies.

1957 ■ Digital data and advanced systems need to be managed by highly-trained
1958 professionals backed up by reliable IT infrastructure. This requires introduction
1959 of advanced IT education and investment in IT and basic infrastructure.

1960 ■ Data collected needs to be effectively utilized by businesses to enhance
1961 competitiveness and efficiency while ensuring privacy of individuals. Data can
1962 help firms better meet customer needs as well as improve their management

1963 and growth through better analysis of performance against targets. This needs
1964 to be balanced by protection of personal information, which is a key concern
1965 for citizens, governments and firms. However, where the balance between data
1966 access and privacy protection lies may be perceived differently in emerging
1967 markets, where a large portion of the population are financially excluded,
1968 compared to advanced markets, where the majority of the population have
1969 access to formal financial services.

1970 ■ Data needs to be secured against fraud, criminal activity and natural disasters in
1971 an increasingly complex and interconnected world. There is a need to
1972 strengthen digital systems against fraud, cyberattacks by domestic and
1973 international criminal actors, and natural disasters. Regarding natural disasters,
1974 banks are diversifying risks through establishment of offshore back up centers.

1975 ■ Cross-border data transfer for processing and storage leads to discussions
1976 about onshore versus offshore activities. Benefits of data transfer include
1977 enabling round-the-clock provision of service, early release of cutting-edge
1978 products, cost reduction and greater efficiency. Security would require the
1979 establishment of highly-protected and well-staffed and equipped data centers.
1980 Harmonization of data definitions would also be needed to enable accurate
1981 interpretation across markets.

1982 ■ A level regulatory playing field is needed for both incumbents and new entrants
1983 to manage risks across the system and equalize costs. One way to promote this
1984 is by rethinking current regulatory approaches that focus on institutions rather
1985 than functions and considering the regulation of a product or service in the
1986 same way regardless of provider. It is also important to encourage firms to
1987 innovate and assist products and services being brought to market through
1988 light touch regulation with intervention whenever it becomes necessary to
1989 achieve broader regulatory goals.

1990 ■ Regulators need to focus on means of permitting automation of processes that
1991 are currently manual in order to lower costs sufficiently and permit wider
1992 financial inclusion.

1993 As financial services move more rapidly into the digital space and cybercrime
1994 evolves from methods like phishing that target human risk factors to complex
1995 malware coded to exploit gaps in technology and process, more areas of
1996 vulnerability will emerge, from client access applications and communication tools
1997 to technology partnerships. Collaboration between regulators and industry is key to
1998 increasing awareness of cyber security, reducing financial and reputational damage
1999 and serving clients. Firms are currently approaching this on three fronts.

2000 ■ The first is through partnerships within the FinTech ecosystem to collaborate,
2001 perform due diligence and provide transparency to ensure visibility and control
2002 of the end-to-end chain of product and service offerings.

2003 ■ The second is through technology, controls and training and awareness within

2004 the firm to protect the confidentiality, integrity and availability of client data
2005 and its information assets.
2006 ■ The third is providing technical advisory, training and tools to enable customers
2007 to better protect themselves.

2008 The potential of FinTech to drive inclusive growth is huge, but technological
2009 innovations can also magnify the potential for damage to the economy and financial
2010 systems. This increases the burden on regulators to keep pace with the innovations
2011 in the market, which will enable them to make regulations more effective in
2012 enhancing stability and enabling innovation and growth, and to strike the right
2013 balance between adapting to the local contexts across different markets and
2014 developing a regulatory model that can be applicable in many markets and thus able
2015 to contain compliance costs and provide seamless scale.

2016 These factors are driving the need for new models of business partnerships,
2017 including between regulators and industry. The challenge in developing regulatory
2018 tool sets for these new models is that it is difficult to expect regulators to be able to
2019 model and forecast developments and trajectories, while we are still in the early
2020 stages of FinTech development and the private sector is still learning what works.
2021 The lack of coherent and well thought-out regulatory responses to FinTech may
2022 expose financial systems to significant risks. One approach to addressing this issue
2023 is the use of “sandboxes,” establishing areas where experimentation can occur and
2024 regulators and policy makers can participate or freely observe and better
2025 understand new technologies and business models, thus reducing the risks of
2026 curtailing innovation through premature regulation.

2027 In addition, there is the possibility of a few successful players becoming too
2028 dominant as finance and technology come together to reach more deeply into all
2029 aspects of the economy and society and underpin growth and social development.
2030 In this case, we may face a new digital divide, where the gap between those who
2031 are able to participate in this market and those who are unable to do so could grow
2032 very quickly and which could be more subtle and different in nature from previous
2033 dichotomies of haves against have-nots. Preventing this from occurring will need to
2034 involve not just updated regulatory frameworks, but also consumer education and
2035 protection as well.

2036 Most importantly, proportional and more flexible regulatory approaches will be
2037 needed to enable strong growth and continued innovation. This could take the form
2038 of recognizing fundamental areas where benchmark standards for such areas as
2039 privacy, security and AML may be required, and regulating these more strictly and
2040 aligned across the region, while employing light-touch (e.g., “watch and wait”)
2041 regulatory approaches in areas where risks of systemic damage are low, in order to
2042 enable more cross-border trade. Key enabling factors for this would include the
2043 valuation of data (including understanding the importance of open data and the
2044 potential for self-sovereign data), the need for data categorization; and the
2045 fundamental importance of measurements and frameworks for measuring digital

2046 trade and FinTech.

2047 To discuss how APEC can harness Fintech to build bigger, robust and inclusive
2048 financial markets, ABAC convened two APFF Roundtables on both sides of the
2049 Pacific. The first Roundtable was held in February in Silicon Valley, and the second in
2050 July in Hong Kong. The Roundtables brought together policy makers and regulators,
2051 experts and practitioners from major financial institutions, Fintech start-ups,
2052 consulting firms, multilateral institutions and academe. Both events concluded that
2053 for APEC member economies to benefit from Fintech, all these stakeholders need to
2054 agree on a shared vision and work closely together.

2055 **Recommendation**

2056 ■ ***It is recommended that APEC Finance Ministers establish a regional platform to***
2057 ***bring together stakeholders from the public and private sectors to address in***
2058 ***close collaboration with each other key issues arising from the development of***
2059 ***FinTech, and identify concrete ways to help member economies harness financial***
2060 ***innovation to build bigger, robust, inclusive and integrated financial markets.***
2061 ***These stakeholders should include representatives from the industry (FinTech***
2062 ***startups and major financial institutions, related service providers, associations***
2063 ***and experts), public sector (government and regulatory agencies, relevant APEC***
2064 ***fora) and major international organizations.***

2065

2066 **FOSTERING CONTINUED DIALOGUE AND RESEARCH ON THE FUTURE OF**
2067 **FINANCIAL REGULATION**

2068 *I have found the APFF to be an effective organisation to engage with financial*
2069 *services stakeholders and welcome their role in providing opportunities for*
2070 *regulatory and business dialogue.*

2071 **Gerard Fitzpatrick – Senior Executive Leader, Investment Managers and**
2072 **Superannuation, Australian Securities and Investments Commission (ASIC)**

2073 The rapid and continuing evolution of financial markets and ongoing efforts by
2074 Asia-Pacific economies to modernize their financial systems pose major challenges
2075 to policy makers and regulators. In the context of APEC Finance Ministers’
2076 aspirations to develop inclusive and efficient financial markets that can support
2077 strong, sustainable and balanced growth, financial regulatory reforms will need to
2078 be based on up-to-date and accurate assessments of market conditions, as well as
2079 deep insights on how policy and regulatory measures will affect the behavior of
2080 market players and the direction of market developments.

2081 APFF continues to provide a platform for research and discussions on the present
2082 conditions and future directions of financial markets and regulations, which help
2083 authorities and industry deepen their knowledge of markets and anticipate
2084 emerging issues. Since the last report of activities, five major developments have
2085 been undertaken by members of the work-stream, as follows:

2086 **23rd March 2016 – The Asia Pacific Financial Forum Industry/Regulator Dialogue –**
2087 **Progress on the Asia Region Funds Passport and Regional Financial market**
2088 **Integration – convened in Sydney and included Australian policy makers, regulators**
2089 **and senior representatives from the Australian and regional finance industry. The**
2090 **forum provided an opportunity to update participants on developments in APFF in**
2091 **regard to the ARFP, repos, derivatives, hedging tools and cross-border securities**
2092 **investment ecosystems.**

2093 The Forum noted:

- 2094 ● that Australia, Japan, Korea, New Zealand and Thailand would sign the
2095 Memorandum of Agreement in April (Thailand’s agreement being subject to
2096 approval by Cabinet);
- 2097 ● possibilities for extending ARFP over time with others;
- 2098 ● the value of APFF in providing data and advice on taxation arrangements in the
2099 region as they impact on ARFP;
- 2100 ● the importance to further integration of capital markets using management risk
2101 reform and of system liquidity based on repo markets through open market
2102 operation – however, some regional repo markets are relative small;
- 2103 ● capital market reforms should avoid leading to the fragmentation of markets;
- 2104 ● hedging and netting reduced exposure to country and systemic risk and
2105 synchronized financial standards are important in reducing frictional costs;

- 2106 ● corporate debt markets in the region are generally underdeveloped and action
- 2107 is required on bail in/bail out;
- 2108 ● community attitudes have changed on tax avoidance and governments will
- 2109 need to coordinate to handle base erosion and profit sharing and
- 2110 multinational tax avoidance;
- 2111 ● the need for a stronger Asian voice in the Financial Stability Board; and
- 2112 ● business needs to clearly identify the costs and benefits of reforms in proposing
- 2113 reforms to governments.

2114 **10th May – Workshop on Developing an Islamic Infrastructure**
 2115 **Investment Platform (13P)** – convened in Kuala Lumpur and included participants
 2116 from Islamic banks, regional regulators and financial advisors.

2117 Of particular interest was the expansion of the role of Islamic finance in
 2118 cross-border funding of infrastructure. Issues discussed included the importance of
 2119 infrastructure for economic development, social services, and trade and investment
 2120 and the potential for Islamic finance to expand its role in the financing of
 2121 infrastructure in the region and beyond, and the challenges in doing that arising
 2122 from differing interpretations of that which constitutes Sharia compliance arising
 2123 from contrary established practices in and among jurisdictions.

2124 Recommendations arising from consideration of work completed by APFF
 2125 participants and developed in conjunction with Harvard University that would help
 2126 overcome the problems arising from differing interpretations of Sharia compliance,
 2127 as noted at the workshop, are as follows:

2128 (a) define infrastructure as “facilitates, structures, equipment, or similar physical
 2129 assets – and the enterprise that employ them – that are vitally important, if not
 2130 absolutely essential, to people having the capabilities to thrive as individuals and
 2131 participate in social, economic political, civic or communal households or familial,
 2132 and other roles in ways critical to their own well-being and that of their society,
 2133 and the material and other conditions which enable them to exercise those
 2134 capabilities to the fullest”;

2135 (b) a Real Asset for the purpose of providing asset-backed Islamic investment is
 2136 defined as: “An asset that has a physical presence and a tangible economic
 2137 purpose, for example, roads, sea ports, airports. Power utilities, or has an
 2138 underlying asset base which is physical and has a tangible economic purpose, for
 2139 example, a concession agreement to operate or a lease on a physical asset”;

2140 (c) that infrastructure as defined in recommendation a) is deemed to be a Real
 2141 Asset as defined in recommendation b) that investments in infrastructure and in
 2142 accordance with fairness, with sharing of risks, and benefits, with the principle
 2143 of materiality, with no riba, and with exclusion of activities prohibited by Sharia
 2144 laws are deemed to be Sharia compliant;

2145 (d) that an Enabling Environment for Islamic investment in infrastructure be

2146 developed.

2147 **The publication of a paper “Getting Real about Islamic Finance”** by Harvard
2148 University and a member of the APFF Work Stream, Dr. Allan Wain, of CP2.²¹

2149 **28th June 2016 - A workshop on Regional Financial Regulation Collaboration** -
2150 convened by a group represented on the APFF work-stream from the Melbourne
2151 University research team with the Reserve Bank of Australia, the Commonwealth
2152 Treasury, the Australian Prudential Regulatory Authority and the Australian
2153 Securities and Investment Commission.

2154 This workshop provided an opportunity for the Melbourne research group to
2155 outline the research work it is undertaking and which is a major piece of work being
2156 developed under the Linkages and Structural work stream. The Coordinator of the
2157 work-stream also participated and outlined the work and the role of the APFF.
2158 Australian policy makers and regulators exchanged views on the issues under
2159 consideration by the research team.

2160 The following main points were discussed at the workshop:

- 2161 ● Collaboration between financial regulators in the Asia Pacific region and
2162 challenges
- 2163 ● Collaboration between Australian financial regulators and Asian regulators
- 2164 ● Impact of technological advances
- 2165 ● Relationship between global integration and regional integration
- 2166 ● Relationship between the Asia Region Funds Passport and multinational
2167 agreements
- 2168 ● Developments on ASEAN banking integration framework
- 2169 ● Assessing regulatory harmonization and collaboration
- 2170 ● The role of APFF and its reporting responsibilities to ABAC and to the APEC
2171 Finance Ministers’ processes

2172 The discussions noted the following key points:

- 2173 ● Challenges to increased collaboration include tensions between sharing
2174 regulatory control and retaining national sovereignty; the need to increase
2175 mutual trust between regulators and disparities of development and lack of
2176 resources impact on the depth and extent of regulatory collaboration with
2177 some developing economies in the region.
- 2178 ● However, there are strong relationships developing at regulatory level in the
2179 region and the exchange of information between them is important and more
2180 emphasis is being placed on capacity building in the region by Australian
2181 regulators.

²¹ The web-link to the paper is:

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

- 2182 ● Fintech and distributed ledger technology cross-border disputes will need to be
 2183 managed by a higher power that is ultimately responsible when disputes or
 2184 problems occur.
- 2185 ● Issues about whether technology can provide efficiencies on a commercial
 2186 scale.
- 2187 ● There is a strong Asian influence on technology developments in the fintech
 2188 space.
- 2189 ● While there is greater inclusion of Asian economies in global standard setting
 2190 platforms there remains a US/European domination over decision-making.
- 2191 ● There is a level of complementarity between the funds ARFP and
 2192 regional/global trade agreements.
- 2193 ● There is a sense that the ARFP will build trust between the parties involved and
 2194 create an incentive for others to join the regime.
- 2195 ● The APFF is a useful mechanism in advancing the importance of the work of the
 2196 ARFP.
- 2197 ● The ASEAN banking and integration framework could face difficulties over
 2198 deposit insurance and deposit preference arrangements.
- 2199 ● There are opportunities to further consider Basel liquidity requirements and
 2200 their application in Asia.
- 2201 ● Difficulties in quantifying cost/benefits of harmonization and collaboration
 2202 beyond the theoretical premise about the merits of non-distorted markets;
 2203 however, obvious benefits arising from collaboration over institutional failures
 2204 and the belief that coordination will reduce the risks of failures emerging.
- 2205 **On-going work by the Melbourne University Research Group** - Focused on
 2206 examining from a multi-disciplinary perspective, the regional architecture for
 2207 financial regulation in Asia and, in particular, on the various ways in which regional
 2208 coordination and integration can be strengthened.
- 2209 The workshop noted in 4) above was an important part of the research program
 2210 with the objectives of developing better understanding for academic research
 2211 participants of processes, experiences and issues in regional financial regulatory
 2212 collaboration; the identification of potential research areas arising from the
 2213 experience of Australian regulators in cross-border collaboration and to provide
 2214 Australian regulators with insights on regulation harmonization being developed by
 2215 the Melbourne research group.²²

²² 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>.

2216 The Research team is planning a conference on 7th December 2016, hosted by the
2217 Singapore Management University in Singapore “Finance in Asia: Integration and
2218 Regional Coordination”.

2219 **Recommendations**

2220 ■ *It is recommended that APEC Finance Ministers encourage policy makers and*
2221 *regulators involved in the region’s financial markets to participate in dialogues*
2222 *and programs organized by academic and research institutions together with the*
2223 *financial industry to further the work of APFF on regional financial architecture*
2224 *and regulations.*

2225 ■ *It is recommended that APEC Finance Ministers welcome the APFF’s work on*
2226 *definitions of infrastructure and real assets in the context of developing an*
2227 *enabling environment for investment by Islamic financial institutions in*
2228 *infrastructure and encourage their adoption.*

2229

2230 CONCLUSION

2231 The acceleration of reforms to enable the Asia-Pacific region to more effectively
2232 finance growth, especially in emerging markets, has acquired even greater
2233 importance and urgency in light of most recent developments. While a return to
2234 sustained economic dynamism that has characterized the region over the past
2235 decades remains elusive in spite of massive fiscal and monetary stimulus, the fragile
2236 recovery is under threat on several fronts.

2237 Stagnating growth in major emerging markets, continued weakness of consumer
2238 demand in developed economies and heightened uncertainties due to the
2239 combined impact of a spike in terrorist activities, raging conflicts in the Middle East,
2240 the refugee crisis, the UK's decision to leave the EU, lingering unease about the
2241 health of Southern European economies, and the growing unpredictability of US
2242 and European politics have made investors more cautious than ever before in
2243 recent memory.

2244 Emerging markets in APEC can help avert economic stagnation and spark an
2245 optimistic change in mood if they are able to unlock the potential of their huge
2246 populations, resources and savings and unleash greater investment and
2247 consumption among a broader base of households and enterprises. Just as
2248 inadequate financial systems and services have been seen as the main barrier to the
2249 growth of small enterprises, supply chains, consumption and infrastructure, serious
2250 reforms to create more inclusive and efficient financial markets will be the key to
2251 the next stage of development of the region's emerging markets.

2252 Modernizing the region's financial systems will involve addressing a wide range of
2253 challenges. These include small businesses' and low-income households' lack of
2254 access to finance, difficulties in attracting long-term funding for infrastructure, the
2255 lack of deep and liquid capital markets and long-term institutional investor base,
2256 and continued vulnerability of communities and supply chains to the impact of
2257 natural disasters, among others.

2258 An important issue is the deficiency of legal systems within the region in supporting
2259 trade and investment and a strong business environment. Considerable divergence
2260 of legal frameworks and regulatory practices is a major obstacle to cross-border
2261 business. In many economies, significant legal and regulatory reforms and
2262 improvements in transparency, enforcement and capacity of the judiciary and legal
2263 professionals are needed to enable the effective delivery of financial services,
2264 especially in the context of today's digital economy.

2265 The Asia-Pacific region needs bigger, robust and inclusive financial markets to
2266 enable its economies to leap across the middle-income trap and join the ranks of
2267 affluent economies. The pathway forward over the next few years has been
2268 indicated by the Finance Ministers in the Cebu Action Plan – a collection of tangible
2269 key objectives that require close public-private sector collaboration to be met. The

2270 APFF provides a platform for collaboration in several of these initiatives.

2271 Building on its 2014 Interim Report and 2015 Progress Report to APEC Finance
 2272 Ministers, the APFF this year advanced its work on several initiatives, through a
 2273 number of roundtables, workshops and conferences across the region, work stream
 2274 discussions, and collaboration with APEC finance officials. This year, the APFF
 2275 supported the Finance Ministers’ efforts to begin implementing the initiatives
 2276 implementation of the CAP. The APFF also continues to undertake activities
 2277 assigned by the CAP in the areas of capital market development, financial
 2278 infrastructure for MSMEs and trade and supply chain finance.

2279 To accelerate the progress of these initiatives, this report recommends the
 2280 following to the Finance Ministers:

- 2281 ■ It is recommended that APEC member economies work with FIDN to develop
 2282 modern credit information systems and regionally consistent legal and
 2283 institutional frameworks for secured transactions and insolvency that can
 2284 expand MSMEs’ access to finance and enable them to increase their
 2285 contributions to regional integration. This should involve the convening of
 2286 workshops in individual economies bringing together public and private sector
 2287 stakeholders and experts; advisory activities and seminars to support legal and
 2288 policy reform and modernization of collateral and credit registries; outreach
 2289 activities to educate MSMEs, lenders and other market participants on how
 2290 they can benefit from these opportunities; and support for the pathfinder
 2291 projects on cross-border sharing of commercial and consumer credit reports
 2292 among credit bureaus within existing legal and regulatory frameworks, the
 2293 development of the credit information data dictionary and the baseline analysis
 2294 of credit information sharing in APEC member economies.
- 2295 ■ It is recommended that APEC member economies collaborate with APFF in
 2296 holding public-private dialogues across all relevant agencies and stakeholders
 2297 on regulatory issues and emerging facilitators of trade and supply chain finance.
 2298 These should aim to promote effective and regionally consistent
 2299 implementation of capital and liquidity standards, greater awareness of
 2300 Know-Your-Customer, Counterparty Due Diligence and Anti-Money Laundering
 2301 rules, as well as expanded use of technology including electronic supply chain
 2302 management platforms; wider use of Bank Payment Obligations (BPOs) and
 2303 related working capital management techniques; and facilitating market
 2304 education and information exchanges on the use of regional currencies such as
 2305 the RMB.
- 2306 ■ APEC member economies are encouraged to identify economies and perils of
 2307 priority as an initial step in promoting private disaster insurance schemes as
 2308 envisaged under the CAP. This may be undertaken through a workshop in early
 2309 2017 with broad participation from finance ministries and related public sector
 2310 stakeholders, multilateral institutions and the private sector through APFF.

- 2311 ■ It is proposed that the Finance Ministers' Process complete the stock-taking on
 2312 availability of risk exposure data as a step toward the aforementioned
 2313 workshop in conjunction with the previous recommendation.
- 2314 ■ It is proposed that the drafting of an APEC roadmap for DRFI be initiated as
 2315 envisaged under the CAP, involving experts from the public and private sectors
 2316 and multilateral institutions.
- 2317 ■ It is proposed that stakeholders in the APEC Finance Ministers' Process
 2318 undertake activities in 2017 to complete the roadmap for expanding
 2319 microinsurance coverage as envisioned under the CAP. Discussions on the
 2320 roadmap may include the following elements: (a) adoption of the toolkit
 2321 developed by the Regulatory Framework Promotion of Pro-poor Insurance
 2322 Markets in Asia (RFPI Asia) of the GIZ for integrating insurance into DRFI
 2323 mechanisms to help insurers develop products that are appropriate for
 2324 MSMEs;²³ (b) development of policy frameworks for establishing risk pools and
 2325 other DRFI instruments, provision of incentives, use of technologies, and
 2326 mechanisms for public-private sector cooperation; (c) creation of the legal basis
 2327 for the provision of mandatory insurance coverage to MSMEs; (d) capacity
 2328 building for public and private stakeholders regarding product development,
 2329 distribution and promotion of MSME insurance; (d) development of data
 2330 management on catastrophic events; (e) establishment of central business
 2331 registries with hazard mapping and catastrophe coverage for enterprises; (f)
 2332 proportionate regulation to support a wide range of insurance products
 2333 designed for MSMEs; (g) mechanisms for public-private dialogue in developing
 2334 products and solutions for responses to and mitigation of disaster risk; and (h)
 2335 implementation, financing and coordination.
- 2336 ■ APEC economies should consider the establishment of mandatory and scalable
 2337 retirement systems. A mandatory system provides the scale necessary to
 2338 effectively channel the region's huge savings currently concentrated in
 2339 short-term bank deposits into longer term institutional investments and
 2340 productive assets. Retirement savings can help professionalize the financial
 2341 system through deeper domestic capital markets and expanded roles of long
 2342 term investors such as insurers and pension funds. Scalability is provided by
 2343 implementing strong tax incentives to encourage higher levels of retirement
 2344 savings. Altogether the system promotes public financial awareness, ensuring a
 2345 diverse range of retirement income products and improved financial security
 2346 for progressively aging populations in the region.
- 2347 ■ APEC economies should promote infrastructure investment as a defined asset
 2348 class to facilitate more holistic regulatory treatment that can encourage more

²³ 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

2349 private sector infrastructure investment. Inadequate infrastructure investment
2350 has been a long-standing issue in emerging Asia (outside of China), as
2351 documented by the ADB and others. At the same time, high Asian savings have
2352 been channeled into short-term bank deposits and the government bonds of
2353 mature market economies. Promotion of infrastructure as a defined asset class
2354 will help break the Gordian knot between a dearth of investable long-term
2355 assets and the glut of Asian savings.

2356 ■ APEC economies should adopt accounting, solvency, investment, and securities
2357 standards supportive of the development of retirement savings and
2358 infrastructure investment. To encourage insurers and pension funds to engage
2359 in long-term investments and retirement solutions, barriers of regulations and
2360 accounting should be removed, and policies that are suitable for long-term
2361 business should be promoted. Global solvency and accounting standards should
2362 be designed in a way to incentivize companies to improve risk management and
2363 adopt best practice.

2364 ■ APEC Finance Ministers should encourage the participation of all relevant public
2365 sector stakeholders in dialogues with the private sector to address barriers to
2366 long-term investment. APFF intends to promote active participation of the
2367 private sector in conferences organized by network members and to convene
2368 workshops in the region involving a wide range of stakeholders.

2369 ■ APEC should establish an Islamic Infrastructure Investment Platform (I3P) as a
2370 pathfinder initiative to provide a platform for collaboration among public,
2371 private, international and academic experts to address the key obstacles to the
2372 expansion of cross-border investment by Islamic financial institutions, especially
2373 long-term investment from takaful and Islamic pension funds, in infrastructure
2374 projects in APEC economies. I3P should address in its work the definitions of
2375 infrastructure and financial instruments; Islamic hedging instruments; financial
2376 instruments for pension funds and takaful; discriminatory tax policies; directory
2377 of experts, definitions, funders, participating economies and qualifying
2378 infrastructure projects; and collaboration with the International Infrastructure
2379 Support System (IISS).

2380 ■ Member economies are encouraged to collaborate with APFF in undertaking
2381 workshops on development of classic repo and derivatives markets to enable
2382 the effective use of hedging instruments and improve bond market liquidity.
2383 The APFF also welcomes collaboration from other interested organizations in
2384 financing and convening these activities.

2385 ■ More member economies should engage with APFF in using the
2386 self-assessment templates on information for capital market investors to help
2387 expand the investor base.

2388 ■ More member economies should join the Asia Region Funds Passport (ARFP) by
2389 signing the Memorandum of Cooperation. APFF also welcomes opportunities

2390 and invitations to provide private sector resource persons to dialogue with
2391 regulators and industry in economies that decide to consider joining the ARFP.

2392 ■ It is recommended that ARFP regulators continue to engage the private sector
2393 on the implementation of the ARFP.

2394 ■ APFF proposes to convene a regional symposium in 2017 on the development of
2395 a roadmap for improving the regional financial market infrastructure.
2396 Discussions could focus on the harmonization of market access and repatriation
2397 practices, improving the inter-operability, liquidity and connectivity of domestic
2398 and cross-border financial markets, reducing systemic risks, and creating a
2399 securities investment ecosystem that can promote cross-border portfolio
2400 investment flows across member economies.

2401 ■ Policy makers and regulators should participate in APFF workshops on
2402 cybersecurity, Know-Your-Customer (KYC) rules and e-Payments to facilitate
2403 innovation in the region's financial market infrastructure.

2404 ■ It is recommended that APEC Finance Ministers establish a regional platform to
2405 bring together stakeholders from the public and private sectors to address in
2406 close collaboration with each other key issues arising from the development of
2407 FinTech, and identify concrete ways to help member economies harness
2408 financial innovation to build bigger, robust, inclusive and integrated financial
2409 markets. These stakeholders should include representatives from the industry
2410 (FinTech startups and major financial institutions, related service providers,
2411 associations and experts), public sector (government and regulatory agencies,
2412 relevant APEC fora) and major international organizations.

2413 ■ It is recommended that APEC Finance Ministers encourage policy makers and
2414 regulators involved in the region's financial markets to participate in dialogues
2415 and programs organized by academic and research institutions together with
2416 the financial industry to further the work of APFF on regional financial
2417 architecture and regulations.

2418 ■ It is recommended that APEC Finance Ministers welcome the APFF's work on
2419 definitions of infrastructure and real assets in the context of developing an
2420 enabling environment for investment by Islamic financial institutions in
2421 infrastructure and encourage their adoption.

2422 The success of these undertakings will depend on active participation and
2423 engagement from the public sector. APFF intends to provide a forum and informal
2424 network for dialogue and capacity building where they can interact on a regular and
2425 sustained basis with experts in relevant specialized and technical fields from the
2426 private sector and international and academic organizations. The APFF looks
2427 forward to close collaboration with the APEC Finance Ministers in achieving
2428 concrete results in advancing the various initiatives under the Cebu Action Plan.