Note:

- accomplished.

- under implementation.

- planning to implement or suggestion.

x - not under the purview of the Steering Group.

TEL Strategic Action Plan 2016-2020: Planning and Prioritization

1. Develop and Support ICT Innovation

The TEL WG will continue to promote infrastructure investment, connectivity and support the productive and innovative use of ICTs in line with technological trends. It will champion strategic opportunities for new ICTs and services, and will sponsor leadership on ICTs by bringing together ICT leaders from among stakeholder groups to share knowledge and form collaborative partnerships. TEL WG will explore ways ICTs can address emerging challenges such as disaster risk reduction and management, social responsibility, and help foster resilient, diverse, inclusive, and prosperous economies.

No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
1.1	Promote innovation and value creation in ICTs	a) Strengthen cooperation in the field of research into new business models based on innovative use of ICTs.	1) Industry Roundtable: ICT Innovation [2016-2020]		x	2016 - 2020	Economies to continue working on the Roundtable
			2) Improvement of the living standards of socially deprived and vulnerable people through ICTs – **Russia**, 2017				2 [RUS] For consideration of SCE and BMC
			3) APEC Partnership Dialogue on Quantum Technologies – **Russia**, 2017				

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No.	Objectives		Actions	DSG	LSG	SPSG	Timeline	Remarks
		b)	Facilitate cooperation with stakeholders.	Industry Roundtable: ICT and innovation [2016-2020]	Industry & Regulatory Roundtables [2016-2020]	x	2016 - 2020	Economies to continue working on the Roundtable
		c)	Promote policy and regulatory cooperation to enable ICT innovation, economic growth and address convergence, new services and changes in use.	Policies and Practices for mobile-based money services in APEC region – **Viet Nam** - 2017	Workshop on the next generation broadcasting (4K/8K) - **Japan** - TEL54, 2016	x	2016-2020	Economies to consider interest and propose new projects
		d)	Promote availability and use of open data.	1) Improvement of the living standards of socially deprived and vulnerable people through ICTs - Russia – **2017**		x	2016 - 2017	1) For consideration of SCE and BMC Economies to consider interest

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
			2) Survey of initiatives in APEC Economies to promote access to ICTs for people with a hearing and/or speech impairment – **Australia** - 2017				New Zealand considers possible projects
	e) Share experiences and best practices on social and economic benefits from investment and liberalization of ICT infrastructure and services.		1) Improvement of the living standards of socially deprived and vulnerable people through ICTs - Russia – **2017**	x	x	2016 - 2017	1) For consideration of SCE and BMC
			2) Indicators of information society development in APEC region" – Russia – **2015**				

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		f) Promote the use of ICTs to improve living standards of citizens, including disabled people and socially vulnerable groups.	1) Survey of initiatives in APEC Economies to promote access to ICTs for people with a hearing and/or speech impairment	x	x	2016 - 2017	Economies to consider interest
			2) Improvement of the living standards of socially deprived and vulnerable people through ICTs - **Russia** - 2017				2) For consideration of SCE and BMC

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			3) DSG Industry Roundtable: ICT Solutions for Aging Society – **Japan** - 2016				
1.2	Continuous improvement in connectivity, including access to broadband	a) Exchange ideas and experiences on practical approaches for improving access to broadband services.	X	1) Workshop on the next generation broadcasting (4K/8K) - **Japan** - TEL54, 2016 2) Regulatory Roundtable on the best practices for promoting universal broadband service – **Chinese Taipei** - 2018		2016 - 2017	Economies to consider interest

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		b) Explore ways to increase availability, accessibility and affordability of ICTs for the underserved or unserved groups.	1) Survey of initiatives in APEC Economies to promote access to ICTs for people with a hearing and/or speech impairment - **Australia** – 2017 2) Improvement of the living standards of socially deprived and vulnerable people through ICTs - **Russia** - 2017 3) Improving access for rural communities – **Papua New Guinea**, 2018	x		2016 - 2020	Economies to consider interest [RUS] – For consideration of SCE and BMC 3) [PNG] – concept note under development

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		c) Promote access to high-speed next generation broadband networks and services.	x	1) Workshop on the next generation broadcasting (4K/8K) - **Japan** - TEL54, 2016		2016 - 2017	Economies to consider interest
				2) Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016			
1.3	Enhanced digital literacy and improvement of citizens' capability to fully participate in the	a) Identify and share best practice approaches to improve digital literacy of citizens.	Empowering rural communities – **Papua New** Guinea, 2018	Regulatory Roundtable on the best practices for enhancing citizens' digital literacy – **Chinese**		2018	Economies to consider interest

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
	Digital Economy			**Taipei** – 2018			
		b) Exchange policies on improving access to ICTs in schools, libraries, etc.	X	Regulatory Roundtable on Best Practices for Promoting Universal Broadband Services, Chinese Taipei, 2018	x		Economies to consider interest [PNG] – concept note under development
		c) Promote the use of ICTs in all stages of education, training and human resource development.	X	x	x	2017 – 2018	Economies to consider interest
		d) Promote creativity among ICT users to encourage innovation.	Improvement of the living standards of socially deprived and vulnerable people through ICTs - Russia – **2017**		x	2017 – 2018	Economies to consider interest

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TEL Strategic Action Plan 2016-2020
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1.	Develop and Support ICT Innovation						

The TEL WG will continue to promote infrastructure investment, connectivity and support the productive and innovative use of ICTs in line with technological trends. It will champion strategic opportunities for new ICTs and services, and will sponsor leadership on ICTs by bringing together ICT leaders from among stakeholder groups to share knowledge and form collaborative partnerships. TEL WG will explore ways ICTs can address emerging challenges such as disaster risk reduction and management, social responsibility, and help foster resilient, diverse, inclusive, and prosperous economies.

No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
1.4	Greater adoption of ICTs within APEC economies	a) Identify and share best practices and strategies to encourage adoption of ICT services.	2) Use of ICT to protect the rights of telecommunication service users - **Peru** - 2017 x		x	2017 – 2018	Economies to consider interest
		b) Explore ways to promote a culture or system that enable entrepreneurship and innovation.	x			2017 – 2018	Economies to consider interest
		c) Promote the development of entrepreneurship in the domain of internet.				2017 – 2018	Economies to consider interest

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2.	Promote a Secure, Resilient and Trusted ICT Environment						
The TEL WG will continue to work to enhance trust and confidence in the use of ICTs by promoting the importance of cyber security, collaboration and cooperation, as well as the dissemination of knowledge. These support the capacity of all relevant stakeholders in the APEC economies to manage risks, create resilient networks, and facilitate a trusted environment for transactions and communications.							
No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
2.1	Enhanced resilience of critical domestic infrastructure	a) Promote understanding of the importance of how greater connectivity impacts critical domestic infrastructure and the approaches to enhancing the resilience of critical domestic infrastructure.	x	x	Workshop on Private-Partnerships in Cybersecurity – United States - 2016 Best Practices and Development of Guidelines for the Establishment of Anti-Spam Regulation – **Mexico** - 2017-2018	[DSG] - 2017 - 2018 2018	Economies to consider interest
2.2	Greater capacity	a) Support cyber security		x	Workshop on	2017	Economies to consider

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TEL Strategic Action Plan 2016-2020
Planning and Prioritization

Updated on 6 April 2017
(based on inputs from TEL55, 2-7 April 2017))

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
	to enhance security and manage cyber risks	competency for ICT professionals and consumers.			Private-Partnerships in Cybersecurity – United States - 2016		interest
		b) Encourage information sharing relating to emerging cyber security threats and challenges, and approaches for managing cyber risks.		x	Workshop on Private-Partnerships in Cybersecurity – United States - 2016	2017	Economies to consider interest
2.3	Increased awareness on cyber security	a) Engage governments, the private sector, other APEC fora as well as other relevant organizations to raise		x	"APEC Workshop on promoting secure public wi-fi usage based on Malaysian	**2016**	

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		cyber security awareness.			experience" – **Malaysia –2016**		
		b) Promote awareness among the general public through activities such as the APEC Cyber Security Awareness Day.		x	Cyber Security Awareness Activity	2016 - 2020	
2.4	Intensified promotion of secure and trusted use of ICTs	a) Share information and develop strategies for the protection of vulnerable groups.		x	Development of a Safe and Secure ICT use environment workshop - **Japan** - 2015	2015 - 2016	Economies to propose new projects
		b) Identify and share best practices on the appropriate handling of user information related to ICT services.		x	Development of a Safe and Secure ICT use environment workshop - **Japan** - 2015	2015 - 2016	Economies to propose new projects

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2.	Promote a Secure, Resilient and Trusted ICT Environment						
*The TEL WG will continue to work to enhance trust and confidence in the use of ICTs by promoting the importance of cyber security, collaboration and cooperation, as well as the dissemination of knowledge. These support the capacity of all relevant stakeholders in the APEC economies to manage risks, create resilient networks, and facilitate a trusted environment for transactions and communications.*						

No.	Objectives		Actions	DSG	LSG	SPSG	Timeline	Remarks
		c)	Study and share experiences on countermeasures for spam.		x	Development of a Safe and Secure ICT use environment workshop - **Japan** - 2015	2015 - 2016	Economies to propose new projects
		d)	Promote consumer confidence in the use of ICTs.		x	Development of a Safe and Secure ICT use environment workshop - **Japan** - 2015	2015 - 2016	Economies to propose new projects
2.5	Increased collaboration among APEC economies	a)	Share domestic developments and best practices to support capacity building in the region.	E-Government Center - **Japan** - till 2020	x	Cybersecurity Framework (Thailand, 2016)	[DSG] 2017 - 2018	Economies to propose new projects [THA] - Continue project implementation

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2.	**Promote a Secure, Resilient and Trusted ICT Environment**
	The TEL WG will continue to work to enhance trust and confidence in the use of ICTs by promoting the importance of cyber security, collaboration and cooperation, as well as the dissemination of knowledge. These support the capacity of all relevant stakeholders in the APEC economies to manage risks, create resilient networks, and facilitate a trusted environment for transactions and communications.

No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		b) Foster a common understanding for counter measures to cyber threats and measures to protect privacy in the APEC region.		x	Workshop on Private-Partnerships in Cybersecurity – United States - 2016	2018	Economies to consider interest

CT to develop concept note for consideration at TEL55 |

TEL Strategic Action Plan 2016-2020
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3.	Promote Regional Economic Integration						
The TEL WG will continue to work in support of regional economic integration by promoting connectivity, regulatory coherence and technical harmonisation. This includes physical, institutional, and people-to-people as well as online connectivity to address relevant emerging issues. TEL will advance measures which promote interoperability and trans-border cooperation.							
No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
3.1	Enhanced physical connectivity	a) Promote quality of ICT infrastructure.	Extension of APII Testbed Project – **Korea – 2020**	1) Regulatory Roundtable: Connecting People and Things – **Peru** - TEL53, June 2016	x	[DSG] 2016 2016	Economies to consider interest Peru to confirm
				2) Economic and Engineering Analysis for providing fixed and mobile broadband with Quality of Service assurance - **Peru** - 2018			
		b) Promote diversity in the use of ICTs.	Multilingualism Research on	x	x	[DSG] 2016	Economies to consider interest

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
			Multilanguage e-mail address in e-government - China – 2018			2018	
3.2	Enhanced institutional connectivity	a) Promote conducive regulatory environments.		1. Regulatory Roundtable: 2016-2020	x	2016	Economies to consider interest
				2. CA & MRA TF 2016-2020			
				3. Regulatory Roundtable on Overview of Mexican Telecom Regulatory Framework, Mexico, 2017			
				4. Regulatory Roundtable – Thailand - 2017			

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		b) Promote interoperability between APEC economies.		CA & MRA TF, 2016-2020	x	2016	Economies to consider interest
		c) Promote development and use of global data standards.		X		2016 - 2018	Economies to consider interest
		d) Reduce mobile roaming rates between APEC economies.				2016	Economies to consider interest
		e) Research on promoting the free flow of information.		Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016		2017	Economies to consider interest

OTT, Network neutrality |
| | | | | [LSG] Industry and Regulatory Roundtable: free flow of information – | | | |

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TEL Strategic Action Plan 2016-2020
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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
				Japan – 2016.			
				Workshop on Enhancing Online Connectivity for Unleashing the Potential of the Digital Economy, Japan, 2017			
3.3	Enhanced people-to-people connectivity	a) Promote a common ICT Skills Recognition Framework (ICT SRF) within the APEC region.	Connecting the unconnected - **Malaysia** - 2017			[DSG] 2017	Economies to consider interest [MAS] - Create CN
3.4	Enhanced online connectivity	a) Promote open data in APEC region.		Regulatory Roundtable: Open Data – **Philippines** – TEL51, May 2015	x	2016	Economies to consider interest

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3.	**Promote Regional Economic Integration**						
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		b) Promote development of cross- border e-commerce.	x	Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016	x	2018	Economies to consider interest
		c) Promote the Internet of Things (IoT) and application-to-application connectivity.	2) IoV - **China** – 2017	Industry Roundtable: The Internet of Things – **Philippines** – TEL51, May 2015	x	[DSG] 2016	Economies to consider interest 1) [RUS] – For consideration of SCE and BMC CHN - [info on project will be added later]
			2) IoV - **China** – 2017	Workshop on Enhancing Online Connectivity for Unleashing the Potential of the Digital Economy, Japan, 2017			
		d) Promotion of digital content within the APEC region.	x	X	x	[DSG] 2016	Economies to consider interest

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
						2018	
		e) Promote greater adoption of IPv6.	IPv6 deployment Strategies - **Singapore** - 2016	Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016	x	[DSG] 2016 2017	Economies to consider interest

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4.	Enhance the Digital Economy and the Internet Economy

The TEL WG will continue to work in support of the development of a vibrant Digital Economy with a focus on the Internet Economy. In order to promote smart, green, creative, inclusive and sustainable development of the economy, the TEL WG also supports raising the overall level of ICT industry development and the extensive integration of ICTs with other industries.

No.	Objectives	Actions		DSG	LSG	SPSG	Timeline	Remarks
4.1	Enhanced ICT industry ecosystem	a)	Promote the enhancement of ICT hardware, software and networks.	x	Workshop on the next generation broadcasting (4K/8K) - **Japan** - 2016	x	[DSG] 2017 2016	Economies to consider interest
		b)	Promote the development of sustainable smart cities in the APEC region.	The title of the Singapore Project?		x	[DSG] 2017	Economies to consider interest [SNG] - Prepare CN
		c)	Promote business use of new-generation mobile communication.		Small Cells Deployment – **Singapore** - 2017	x	[DSG] 2017	Economies to consider interest
		d)	Promote efficient use of spectrum resources.	TV white space - **Singapore** - 2015		x	[DSG] 2016 - 2017 2016	Economies to propose new projects

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| 4. | Enhance the Digital Economy and the Internet Economy |

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		e) Promote measures that are conducive to the ICT industry to support a robust Digital Economy.		Industry Roundtable on Emerging Regulations on the Internet Economy, Mexico, 2017	x	[DSG] 2016 - 2017	Economies to consider interest
4.2	Accelerated evolution of traditional industries through comprehensive use of ICTs	a) Encourage the use of ICTs to transform business practices in traditional industries.	"Facilitating innovative economic development of Internet + Service Industries" – **China** - 2016			[DSG] 2016-2017 - 2018	
			The Development of Sharing Economy through ICTs in Service Industry – **China** - 2016				
		b) Foster the exchanges between					Economies to consider interest

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		communication and other industries.					Convenors to consider interest and timeline
		c) Share policy experiences on ICT application.	Workshop on Internet of Things (IOT) - **China** - 2015	x		2016	Economies to consider interest
4.3	Development of new industries	a) Promote the development of new industries through the application of ICTs.	x		x	[DSG] 2016	Economies to consider interest
		b) Promote the development of sustainable smart cities.	Industry Roundtable: Smart Cities Experience Sharing – **Chinese Taipei** - 2018	Green data centre – **Singapore** - 2017	x	[DSG] 2016-2018	Economies to consider interest

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
4.4	Enhanced application of ICTs in services	a) Promote the development of ICT-enabled commercial and social services.	Facilitating innovative economic development of Internet + Service Industries – **China** - TEL53, June 2016 Indicators of information society development in APEC region – **Russia** – 2015		x	[DSG] 2017 – 2018	Economies to consider interest

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(based on inputs from TEL55, 2-7 April 2017))

4.	Enhance the Digital Economy and the Internet Economy						
The TEL WG will continue to work in support of the development of a vibrant Digital Economy with a focus on the Internet Economy. In order to promote smart, green, creative, inclusive and sustainable development of the economy, the TEL WG also supports raising the overall level of ICT industry development and the extensive integration of ICTs with other industries.							
No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
			Policies and Practices for mobile-based money services in APEC region – **Viet Nam** – 2017				
		b) Promote a favourable environment for innovation in new economic sectors.	Facilitating innovative economic development of Internet + Service Industries – **China** - TEL53, June 2016		x	[DSG] 2016 – 2017	Economies to consider interest

Note:
- accomplished.
- under implementation.
- planning to implement or suggestion.
x   - not under the purview of the Steering Group.

5.   Strengthen Cooperation

The TEL WG will engage with groups within APEC and other fora to consider how to apply digital technologies and issues arising from their application. The TEL WG will engage with groups outside APEC to maximise synergies, harness resources and minimize duplication between the work of these groups and that of TEL.

No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
5.1	Collaboration within the APEC groups- provide thought leadership and coordination of, as well as secondary advice on ICTs related activities within APEC	Engage and collaborate with relevant APEC groups including the: a) Committee on Trade and Investment- to strengthen and contribute to regional economic integration;		x		2017-2020	Economies to consider interest Convenors to consider interest and timeline
		b) Ad-Hoc Steering Group on the Internet Economy;		x	x	2016-2020	Economies to consider interest Convenors to consider timeline
		c) Electronic Commerce Steering Group and the Counter Terrorism Taskforce- to promote a trusted ICTs environment;		x	x	2017-2020	Economies to consider interest Convenors to consider timeline

Note:

   	- accomplished.
   	- under implementation.
   	- planning to implement or suggestion.
x	- not under the purview of the Steering Group.

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		d) Emergency Preparedness Working Group- to promote the benefits of and share policy options for using ICTs for emergency preparedness and disaster prevention/ mitigation;	1) Earthquakes and Waterfloods Monitoring System with the application of the Internet of Things (IoT) – **Russia –** 2017 2) "Cooperation program on creating a common interoperable approach to improving the efficiency of existing disaster management systems based on ICT" - **Russia** - 2015	x	x	2016-2020	TEL Participation in APEC Disaster Risk Reduction Framework

Note:
■	- accomplished.
■	- under implementation.
■	- planning to implement or suggestion.
x	- not under the purview of the Steering Group.

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		e) Health Working Group- to identify effective e-Health applications;		x		2017-2020	
		f) Group on Services- to promote trade and investment liberalisation and facilitation (TILF) issues related to trade in ICTs services.	Facilitating innovative economic development of Internet + Service Industries – **China** - TEL53, June 2016	x		2017-2020	Participation in APEC Framework on Services

Note:
- accomplished.
- under implementation.
- planning to implement or suggestion.
x - not under the purview of the Steering Group.

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No.	Objectives		Actions	DSG	LSG	SPSG	Timeline	Remarks
		g)	Finance Ministers' Process (FMP)- to foster awareness of mobile banking activities to better reach the unserved population due to geographic or economic/ financial barriers.	Policies and Practices for mobile-based money services in APEC region – **Viet Nam** - 2017	x		2017-2020	Convenors to consider interest and timeline
		h)	SME Working Group- to promote the development of SMEs by increasing the opportunity of SMEs to access the Internet and reduce the cost of using it.		x		2017-2020	Economies to consider interest Convenors to consider Participation in Boracay Action Agenda
5.2	Collaboration with groups external to APEC to maximise	a)	Gather ICT leaders from among stakeholders to share knowledge and form	DSG Industry Roundtable on ICT Innovation 2016-2020	Industry and Regulatory Roundtable, 2016-2020		[DSG] 2017	Economies to consider interest

Note:
- accomplished.
- under implementation.
- planning to implement or suggestion.

x - not under the purview of the Steering Group.

5.	Strengthen Cooperation						
The TEL WG will engage with groups within APEC and other fora to consider how to apply digital technologies and issues arising from their application. The TEL WG will engage with groups outside APEC to maximise synergies, harness resources and minimize duplication between the work of these groups and that of TEL.							
No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
	synergies, harness resources and minimise duplication of work undertaken by APEC TEL	cross-regional collaborative partnerships.					
		b) Collaboration with the ICT industry, relevant multilateral organisations and Internet-related technical and administrative bodies on issues.	Indicators of information society development in APEC region – **Russia** - 2015	x	x	[DSG] 2017	Economies to consider interest