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Planning and Prioritization**

Updated on 6 March 2019  
(based on inputs from TEL59, 2 – 7 March 2019)

**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	Cross-fora collaboration	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.	<div style="background-color: #ff00ff; padding: 2px;">1) Industry Roundtable: ICT Innovation [2016-2020]</div> <div style="background-color: #ffff00; height: 20px; margin: 2px 0;"></div> <div style="background-color: #00ff00; padding: 2px;">2) DSG Innovation Roundtable “How to facilitate the growth of new technologies (among them IoT, Big Data, AI, etc.)</div>		x		<div style="border: 1px solid black; padding: 2px; display: inline-block;">DSG</div> 1) Economies to continue working on the Roundtable

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		b) Facilitate cooperation with stakeholders.	Industry Roundtable: ICT and innovation [2016-2020]	Industry & Regulatory Roundtables [2016-2020]	x		<div style="border: 1px solid black; padding: 2px; display: inline-block;">DSG</div> Economies to continue working on the Roundtable; <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-top: 5px;">LSG</div> Economies to continue working on the Roundtables
		c) Promote policy and regulatory cooperation to enable ICT innovation, economic growth and address convergence, new services and changes in	1) DSG Innovation Roundtable “How to facilitate the growth of new technologies (among them IoT, Big Data, AI, etc.)	1) Workshop on the next generation broadcasting (4K/8K) - <b>Japan</b> - TEL54, 2016	x		

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		use.		2) Survey on the Regulation of OTT Services within APEC - Papua New Guinea - 2018			
		d) Promote availability and use of open data.			x		
			2) Survey of initiatives in APEC Economies to promote access to ICTs for people with a hearing and/or speech			GOFD	

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			impairment – <b>Australia – 2017</b>				
			3) Seminar on Digital Government: Planning and Implementing e- Governments projects in APEC – <b>Papua New Guinea – 2018 (TEL57)</b>				

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			4) The Potential of Emerging Technologies such as Blockchain for Digital Government – <b>Japan</b> – 2018 (TEL58)				
		e) Share experiences and best practices on social and economic benefits from investment and liberalization of ICT infrastructure and services.		1) Industry Roundtable: Facilities Sharing and Open Access Regimes within APEC - <b>Papua New Guinea</b> – 2018 (TEL57)	x		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			2) Indicators of information society development in APEC region” – <b>Russia</b> – 2015	2) Regulatory Roundtable: The role of competition in fostering infrastructure to bridge the Digital Divide – <b>Chile</b> – 2019 (TEL59)			
		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 – <b>Australia</b> - 2017	1) Industry Roundtable: How to maximize the impact of gender equality in the digital economy within the APEC economies? – <b>Chile</b> – 2019 (TEL59)	x	GOFD LSG: 1) PPWE	

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			3) DSG Industry Roundtable: ICT Solutions for Aging Society – <b>Japan</b> – TEL54, 2016				
			4) ICT Applications for the People with Special Needs (Ageing and disabilities) – <b>Japan</b> -2013-2018			GOFD	DSG 4) Japan will present the final report at TEL 60.
			5) Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region –				

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			Viet Nam- 2018-2019				
1.2	Continuous improvement in connectivity, including access to broadband	a) Exchange ideas and experiences on practical approaches for improving access to broadband services.	Innovation Roundtable on Universal Broadband Access– <b>Papua New Guinea</b> – 2018 (TEL57)	1) Workshop on the next generation broadcasting (4K/8K) – <b>Japan</b> - TEL54, 2016  2) Regulatory Roundtable on the best practices for promoting universal broadband service – <b>Chinese Taipei</b> – 2018 (TEL58)  3) Regulatory Roundtable: The role of competition in fostering			



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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
				infrastructure to bridge the Digital Divide – <b>Chile</b> – 2019 (TEL59)			
		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 - <b>Australia</b> – 2017	1) Regulatory Roundtable: The role of competition in fostering infrastructure to bridge the Digital Divide – <b>Chile</b> – 2019 (TEL59)		GOFD	

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			3) Improving access for rural communities – <b>Papua New Guinea, 2019-2020</b>				DSG 3) [PNG] – concept note under development
		c) Promote access to high-speed next generation broadband networks and services.	x	1) Workshop on the next generation broadcasting (4K/8K) – <b>Japan</b> - TEL54, 2016 2) Industry Roundtable: Connecting People and Things – <b>Peru</b> – TEL53, June 2016			

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
1.3	Enhanced digital literacy and improvement of citizens' capability to fully participate in the Digital Economy	a) Identify and share best practice approaches to improve digital literacy of citizens, <u>including but not limited to areas such as education, training and human resource development.</u>	Improving access for rural communities – <b>Papua New Guinea, 2019-2020</b>	1) Industry Roundtable on the best practices for enhancing citizens' digital literacy – <b>Chinese Taipei – 2018 (TEL58)</b>			LSG: 1) HRDWG 2) PPWE  DSG [PNG] – concept note under development;
		b) Exchange policies on improving access to ICTs in schools, libraries, etc.		X			
				Regulatory Roundtable on Best Practices for Promoting Universal Broadband Services,	x		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
				Chinese Taipei, 2018 (TEL58)			
		c) Promote creativity among ICT users to encourage innovation.		1) Industry Roundtable: How to maximize the impact of gender equality in the digital economy within the APEC economies? – Chile – 2019 (TEL59)	x	LSG: 1) PPWE	DSG [RUS] – For consideration of SCE and BMC
1.4	Greater adoption of ICTs within APEC economies	a) Identify and share best practices and strategies to encourage adoption of ICT services.	Use of ICT to protect the rights of telecommunication service users - Peru – TEL55, 2017		x		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		b) Explore ways to promote a culture or system that enable entrepreneurship and innovation.	x	Industry Roundtable on Digital Start-ups and MSMEs, <b>Thailand</b> , TEL 56, 2017			
		c) Promote the development of entrepreneurship in the domain of internet.		1) Industry Roundtable: How to maximize the impact of gender equality in the digital economy within the APEC economies? – <b>Chile</b> – 2019 (TEL59)			

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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	Cross-fora collaboration	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	1) Workshop on Private-Partnerships in Cybersecurity – <b>United States</b> – TEL54, 2016		
					2) APEC Workshop on Internet Infrastructure Security - <b>Papua New Guinea</b> – TEL57, 2018		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
2.2	Greater capacity to enhance security and manage cyber risks	a) Support cyber security competency for ICT professionals and consumers.		x	Workshop on Private-Partnerships in Cybersecurity – <b>United States</b> – TEL54, 2016		
		b) Encourage information sharing relating to emerging cyber security threats and challenges, and approaches for managing cyber risks.		x	1) Workshop on Private-Partnerships in Cybersecurity – <b>United States</b> – TEL54, 2016		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
					2) Cybersecurity Incident Management Awareness Workshop – <b>Malaysia</b> – TEL56, 2017		
					3) IoT Security Workshop – <b>China</b> – TEL57, 2018		
2.3	Increased awareness on cyber security	a) Engage governments, the private sector, other APEC fora as well as other relevant organizations to raise cyber security		x	1) APEC Workshop on promoting secure public wi-fi usage based on Malaysian experience – <b>Malaysia</b> – 2016		



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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		awareness.			2) IoT Security Workshop – China – TEL57, 2018		
		b) Promote awareness among the general public through activities such as the APEC Cyber Security Awareness Day.		x	Cyber Security Awareness Activity	CTWG	
2.4	Intensified promotion of secure and trusted use of ICTs	a) Share information and <u>recommendations to combat malicious activities aim at consumers.</u>		x	Development of a Safe and Secure ICT use environment workshop - Japan - 2015		
		b) <u>Share information and recommendations to combat malicious activities aim at</u>		x	Development of a Safe and Secure ICT use environment		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		<u>enterprises, especially in relation to handling of user information.</u>			workshop - <b>Japan</b> - 2015		
		c) Promote consumer confidence in the use of ICTs.		x	1) Development of a Safe and Secure ICT use environment workshop - <b>Japan</b> – 2015		
					2) Public-Private Dialogue on Status, Trends, Opportunities and Threats of Social Network – <b>Thailand</b> - 2018		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
2.5	Increased collaboration among APEC economies	a) Share domestic developments and best practices to support capacity building in the region.	E-Government Center - <b>Japan</b> - till 2020	x	1) APEC Framework for Securing the Digital Economy ( <b>Thailand</b> , 2018)	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">DSG</div> ACTWG  <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">SPSG</div> 1)CTWG	<div style="border: 1px solid black; padding: 2px; display: inline-block; margin-bottom: 5px;">SPSG</div> 1) [THA] - Continue project implementation
		b) Foster a common understanding for counter measures to cyber threats and measures to protect privacy in the APEC region.		x	2) Cyber Drill/Exercise Workshop – <b>Japan</b> – TEL56, 2017	Workshop on Private-Partnerships in Cybersecurity – <b>United States</b> – TEL54, 2016	

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*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	Cross-fora collaboration	Remarks
3.1	Enhanced physical connectivity	a) Promote quality of ICT infrastructure.	1) Extension of APII Testbed Project – <b>Korea – 2020</b>	1) Regulatory Roundtable: Connecting People and Things – <b>Peru</b> - TEL53, June 2016	x		DSG 1) Possible workshop is under consideration
			2) Best Practices on Collection, Validation and Publication of ICTs Statistical Information - <b>Mexico</b> -TEL 56, December 2017	2) Economic and Engineering Analysis for providing fixed and mobile broadband with Quality of Service assurance - <b>Peru</b> - 2018			LSG 2) Peru to confirm

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			3) Recommendation for Implementation of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – Viet Nam- 2018-2019				
		b) Promote diversity in the use of ICTs.	Multilingualism Research on Multilanguage e-mail address in e-government - China – 2018	x	x		
3.2	Enhanced institutional connectivity	a) Promote conducive regulatory environments.		1) Regulatory Roundtable: 2016-2020	x		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
				2) CA & MRA TF 2016-2020			
				3) Regulatory Roundtable on Overview of Mexican Telecom Regulatory Framework, <b>Mexico</b> , TEL55, 2017			
				4) Regulatory Roundtable on USO Policy Implementation and Achievement – <b>Thailand</b> – TEL 56, 2017			
		b) Promote interoperability between APEC economies.		CA & MRA TF, 2016-2020	x		

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**TEL Strategic Action Plan 2016-2020  
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Updated on 6 March 2019  
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**3. Promote Regional Economic Integration**

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		c) Promote development and use of global data standards.		X			
		d) Reduce mobile roaming rates between APEC economies.					
		e) Research on promoting the free flow of information.		1) Industry Roundtable: Connecting People and Things – Peru – TEL53, June 2016			
			2) Industry and Regulatory Roundtable: free flow of information – Japan – TEL54, 2016				

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
				3) Workshop on Enhancing Online Connectivity for Unleashing the Potential of the Digital Economy, <b>Japan</b> , 2017			
3.3	Enhanced people-to-people connectivity	a) Promote a common ICT Skills Recognition Framework (ICT SRF) within the APEC region.	ICT Skills Framework project – <b>Papua New Guinea</b> – 2019-2020			HRDWG	
3.4	Enhanced online connectivity	a) Promote open data in APEC region.		Regulatory Roundtable: Open Data – <b>Philippines</b> – TEL51, May 2015	x		



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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		b) Promote development of cross- border e-commerce.	x	Industry Roundtable: Connecting People and Things – Peru – TEL53, June 2016	x		
		c) Promote the Internet of Things (IoT) and application-to-application connectivity.	1) Earthquakes and Waterfloods Monitoring System with the Application of Internet of Things (IoT) – Russia – 2017-2018	1) Industry Roundtable: The Internet of Things – Philippines – TEL51, May 2015	x	DSG 1) EPWG	DSG 1) Final report will be presented at TEL 60
				2) 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		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		e) Promote greater adoption of IPv6.	IPv6 deployment Strategies - Singapore - 2016	Industry Roundtable: Connecting People and Things – Peru – TEL53, June 2016	x		

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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	Cross-fora collaboration	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 – TEL54, 2016	x		
		b) Promote the development of sustainable smart cities in the APEC region.	1) Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – Viet Nam- 2018-2019	Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – Viet Nam- 2018-2019	x		DSG/LSG [VN] It is planned to provide workshop in DSG

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			2) Innovation Roundtable on Internet of Things, Big Data, and Artificial Intelligence – <b>Thailand</b> –TEL56, 2017				
		c) Promote business use of new-generation mobile communication.		Small Cells Deployment – <b>Singapore</b> – TEL55, 2017	x		
		d) Promote efficient use of spectrum resources.	1) TV white space – <b>Singapore</b> - 2015		x		DSG
			2) Economic aspects of spectrum management – <b>Russia</b> – 2019-2020				2) [RUS] Under consideration

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			3) Strategies for deploying 5G networks among APEC economies – <b>Chile</b> – 2019-2020				
		e) Promote measures that are conducive to the ICT industry to support a robust Digital Economy.	1) Digital Economy: Strategies and Measurements – <b>Singapore</b> – TEL58-2018	1) Industry Roundtable on Emerging Regulations on the Internet Economy, <b>Mexico</b> , TEL55, 2017	x		DSG/LSG [SG] Phase 1 completed, Phase 2 under implementation
			2) Digital Economy: Strategies and Measurements – <b>Singapore</b> – TEL58-2018			ECSG	

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
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, <u>including through engagement between the ICT sector and other industries.</u>	1) Facilitating innovative economic development of Internet + Service Industries” – <b>China</b> – TEL53, 2016	Industry Roundtable on Digital Start-ups and MSMEs, <b>Thailand</b> , TEL 56, 2017		DSG 1) SMEWG	
			2) The Development of Sharing Economy through ICTs in Service Industry – <b>China</b> – 2019-2020				
		b) Share policy experiences on ICT application.	Workshop on Internet of Things (IOT) - <b>China</b> - 2015	1) Regulatory Roundtable on the Regulation of OTT Services within APEC – <b>PNG</b> – TEL57 - 2018			

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			2) Digital Economy: Strategies and Measurements – Singapore – TEL58-2018	2) Digital Economy: Strategies and Measurements – Singapore – TEL58-2018		ECSG	DSG/LSG [SG] Phase 1 completed, Phase 2 under implementation
4.3	Development of new industries	a) Promote the development of new industries <u>and sustainable smart cities</u> through the application of ICTs.	1) Industry Roundtable: Smart Cities Experience Sharing – Chinese Taipei - 2018	Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – Viet			DSG 1) [VN] Workshop will be provided at DSG meeting.

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			2) Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – <b>Viet Nam- 2018-2019</b>	<b>Nam- 2018-2019</b>			
4.4	Enhanced application of ICTs in services	a) Promote the development of ICT-enabled commercial and social services.	1) Facilitating innovative economic development of Internet + Service Industries – <b>China - TEL53, June 2016</b>		x	SMEWG	



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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
			2) Indicators of information society development in APEC region – <b>Russia</b> – 2015				
		b) Promote a favourable environment for innovation in new economic sectors.	Facilitating innovative economic development of Internet + Service Industries – <b>China</b> - TEL53, June 2016	1)Regulatory Roundtable on the Regulation of OTT Services within APEC – <b>PNG</b> – TEL57 - 2018	x	DSG SMEWG	
			2) Digital Economy: Strategies and Measurements – <b>Singapore</b> – TEL58-2018	2) Digital Economy: Strategies and Measurements – <b>Singapore</b> – TEL58-2018		ECSG	DSG/LSG [SG] Phase 1 completed, Phase 2 under implementation

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**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	Cross-fora collaboration	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			
		b) <u>Fora engaged in implementation of the APEC Internet and Digital Economy Roadmap;</u>		x	x		
		c) Electronic Commerce Steering Group and the Counter Terrorism <u>Working Group</u> - to promote a trusted ICTs environment;		x	x		

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	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) – <b>Russia</b> – 2017-2018	x	x	EPWG	DSG 1) Final report will be presented at TEL 60
			2) “Cooperation program on creating a common interoperable approach to improving the efficiency of existing disaster management systems based on ICT” - <b>Russia</b> - 2015			EPWG	
		e) Health Working Group- to identify effective e-Health		x			

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		applications;					
		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		GOS SMEWG	
		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.		x			
		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			

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No.	Objectives	Actions	DSG	LSG	SPSG	Cross-fora collaboration	Remarks
		i) <u>Human Resource Development Working Group- to promote ICT for improving workforce employability and empowering individuals in the digital age.</u>	ICT Skills Framework project – <b>Papua New Guinea</b> – 2019-2020			HDRWG	
5.2	Collaboration with groups external to APEC to maximise synergies, harness resources and minimise duplication of work undertaken by APEC TEL	a) Gather ICT leaders from among stakeholders to share knowledge and form cross-regional collaborative partnerships.	DSG Industry Roundtable on ICT Innovation 2016-2020	Industry and Regulatory Roundtables, 2016-2020			
		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 - <b>Russia</b> - 2015	Industry and Regulatory Roundtables, 2016-2020	x	DSG HDRWG PPWE	