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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] 2) Improvement of the living standards of socially deprived and vulnerable people through ICTs – **Russia**, 2019 3) APEC Partnership Dialogue on Quantum Technologies – **Russia**, 2019		x	2016 - 2020	1 DSG) Economies to continue working on the Roundtable 2 DSG) [RUS] For consideration of SCE and BMC 3 DSG) [RUS] For consideration of SCE and BMC

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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	1 DSG) Economies to continue working on the Roundtable; 1 LSG) 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 use.		1) Workshop on the next generation broadcasting (4K/8K) - **Japan** - TEL54, 2016	x	2016-2020	
				2) Survey on the Regulation of OTT Services within APEC - **Papua New Guinea** - 2018			2 LSG) TBD by LSG

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		d) Promote availability and use of open data.	1) Improvement of the living standards of socially deprived and vulnerable people through ICTs - **Russia** –2019		x	2016 - 2020	1 DSG) [RUS] For consideration of SCE and BMC
			2) Survey of initiatives in APEC Economies to promote access to ICTs for people with a hearing and/or speech impairment – **Australia** – 2017				2 DSG) [AUS] Report will be presented at TEL58.

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			3) Seminar on Digital Government: Planning and Implementing e-Governments projects in APEC – **Papua New Guinea** – 2018 (TEL57)				
		e) Share experiences and best practices on social and economic benefits from investment and liberalization of ICT infrastructure and	1) Improvement of the living standards of socially deprived and vulnerable people through ICTs - **Russia** –2019	Industry Roundtable: Facilities Sharing and Open Access Regimes within APEC - **Papua New Guinea** – 2018 (TEL57)	x	2016 - 2020	1 DSG) For consideration of SCE and BMC; 1 LSG) TBD by LSG

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		services.	2) Indicators of information society development in APEC region" – **Russia** – 2015				
		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 – **Australia** - 2017	x	x	2016 - 2020	1 DSG) [AUS] Report will be presented at TEL58.
			2) Improvement of the living standards of socially deprived and vulnerable people through				2 DSG) [RUS] For consideration of SCE and BMC

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
			ICTs- **Russia** -2019				
			3) DSG Industry Roundtable: ICT Solutions for Aging Society – **Japan** – TEL54, 2016				
			4) ICT Applications for the People with Special Needs (Ageing and disabilities) – **Japan** -2013-2018				4 DSG) Japan indicated on extension of project to 2020. Will be confirmed at TEL 58.
			5) Recommendations For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in				5 DSG) It is planned to acquire the official approval of BMC for funding by 23 July 2018

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			the APEC Region – **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– **Papua New Guinea** – 2018 (TEL57)	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 (TEL58)		2016 - 2020	2 LSG) TBD by LSG
		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	x		2016 - 2020	1 DSG) [AUS] Report will be presented at TEL58.

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			with a hearing and/or speech impairment - **Australia** – 2017				
			2) Improvement of the living standards of socially deprived and vulnerable people through ICTs- **Russia** - 2019				2 DSG) [RUS] – For consideration of SCE and BMC
			3) Improving access for rural communities – **Papua New Guinea**, 2018-2019				3 DSG) [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 - 2020	
					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 Digital Economy	a)	Identify and share best practice approaches to improve digital literacy of citizens.	Improving access for rural communities – **Papua New Guinea**, 2018-2019	Industry Roundtable on the best practices for enhancing citizens' digital literacy – **Chinese Taipei** – 2018 (TEL58)		2016 - 2020	DSG) [PNG] – concept note under development; LSG) TBD by LSG
		b)	Exchange policies on improving access to ICTs in schools, libraries, etc.	X	Regulatory Roundtable on Best Practices for Promoting Universal	x	2016 - 2020	LSG) TBD by LSG

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TEL Strategic Action Plan 2016-2020
Planning and Prioritization

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
				Broadband Services, **Chinese Taipei**, 2018 (TEL58)			
		c) Promote the use of ICTs in all stages of education, training and human resource development.	X	x	x	2016 - 2020	
		d) Promote creativity among ICT users to encourage innovation.	Improvement of the living standards of socially deprived and vulnerable people through ICTs - **Russia** – 2018-2019		x	2016 - 2020	DSG) [RUS] – For consideration of SCE and BMC

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Planning and Prioritization

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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.	Use of ICT to protect the rights of telecommunication service users - **Peru** – TEL55, 2017		x	2016 - 2020	
		b) Explore ways to promote a culture or system that enable entrepreneurship and innovation.	x	Industry Roundtable on Digital Start-ups and MSMEs, **Thailand, TEL 56, 2017**		2016 - 2020	
		c) Promote the development of entrepreneurship in the domain of internet.				2016 - 2020	

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TEL Strategic Action Plan 2016-2020
Planning and Prioritization

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	1) Workshop on Private-Partnerships in Cybersecurity – **United States** – TEL54, 2016	2016 - 2020	
					2) APEC Workshop on Internet Infrastructure Security - **Papua New Guinea** – TEL57, 2018		2 SPSG) TBD by SPSG
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 – **United States** – TEL54, 2016	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		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 – **United States** – TEL54, 2016	2016 - 2020	
					2) Cybersecurity Incident Management Awareness Workshop – **Malaysia** – TEL56, 2017		
					3) IoT Security Workshop – **China** – TEL57, 2018		3 SPSG) TBD by SPSG
2.3	Increased awareness on cyber security	a) Engage governments, the private sector, other APEC fora as well as		x	1) APEC Workshop on promoting secure public wi-fi usage based on	2016 - 2020	
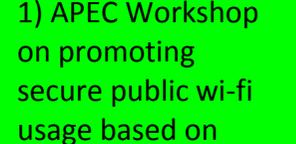
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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		other relevant organizations to raise cyber security awareness.			Malaysian experience – **Malaysia** – 2016		
					2) IoT Security Workshop – **China** – TEL57, 2018		2 SPSG) TBD by SPSG
		b) 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	2016 - 2020	
		b) Identify and share best practices on the appropriate handling of user information related		x	Development of a Safe and Secure ICT use environment workshop - **Japan** -	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		to ICT services.			2015		
		c) Study and share experiences on countermeasures for spam.		x	Development of a Safe and Secure ICT use environment workshop - **Japan** - 2015	2016 - 2020	
		d) Promote consumer confidence in the use of ICTs.		x	1) Development of a Safe and Secure ICT use environment workshop - **Japan** – 2015	2016 - 2020	
					2) Public-Private Dialogue on Status, Trends, Opportunities and Threats of Social Network – **Thailand** - 2018		2 SPSG) TBD by SPSG

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Planning and Prioritization

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**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 - **Japan** - till 2020	x	1) Cybersecurity Framework (**Thailand**, 2018) 2) Cyber Drill/Exercise Workshop – **Japan** – TEL56, 2017	2016 - 2020	1 SPG) [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	Workshop on Private-Partnerships in Cybersecurity – **United States** – TEL54, 2016	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.	1) Extension of APII Testbed Project – **Korea – 2020**	1) Regulatory Roundtable: Connecting People and Things – **Peru** - TEL53, June 2016	x	2016 - 2020	
			2) Best Practices on Collection, Validation and Publication of ICTs Statistical Information - **Mexico**-TEL 56, December 2017	2) Economic and Engineering Analysis for providing fixed and mobile broadband with Quality of Service assurance - **Peru** - 2018			2 LSG) Peru to confirm

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TEL Strategic Action Plan 2016-2020
Planning and Prioritization

Updated on 2 July 2018
(based on inputs from TEL57, 3-8 June 2018)

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			3) Recommendation for Implementation of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – **Viet Nam**- 2018-2019				3 DSG) It is planned to acquire the official approval of BMC for funding by 23 July 2018
		b) Promote diversity in the use of ICTs.	Multilingualism Research on Multilanguage e-mail address in e-government - **China** – 2018	x	x	2016 - 2020	DSG) [CN] – Report will be presented at TEL58
3.2	Enhanced institutional connectivity	a) Promote conducive regulatory environments.		1) Regulatory Roundtable: 2016-2020	x	2016 - 2020	

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

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		c) Promote development and use of global data standards.		X		2016 - 2020	
		d) Reduce mobile roaming rates between APEC economies.				2016 - 2020	
		e) Research on promoting the free flow of information.		1) Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016		2016 - 2020	
				2) Industry and Regulatory Roundtable: free flow of information – **Japan** – TEL54, 2016			

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
				3) 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.				2016 - 2020	
3.4	Enhanced online connectivity	a) Promote open data in APEC region.		Regulatory Roundtable: Open Data – **Philippines** – TEL51, May 2015	x	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		b) Promote development of cross- border e-commerce.	x	Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016	x	2016 - 2020	
		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	2016 - 2020	
				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	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		e) Promote greater adoption of IPv6.	IPv6 deployment Strategies - **Singapore** - 2016	Industry Roundtable: Connecting People and Things – **Peru** – TEL53, June 2016	x	2016 - 2020	

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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** – TEL54, 2016	x	2016 - 2020	
		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	2016 - 2020	1 DSG/LSG) It is planned to acquire the official approval of BMC for funding by 23 July 2018

- 2015 projects for reference
- accomplished.
- under implementation.
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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
			2) Innovation Roundtable on Internet of Things, Big Data, and Artificial Intelligence – **Thailand** –TEL56, 2017				
		c) Promote business use of new-generation mobile communication.		Small Cells Deployment – **Singapore** – TEL55, 2017	x	2016 - 2020	
		d) Promote efficient use of spectrum resources.	TV white space - **Singapore** - 2015		x	2016 - 2020	
		e) Promote measures that are conducive to the ICT industry to support a		1) Industry Roundtable on Emerging Regulations	x	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		robust Digital Economy.		on the Internet Economy, **Mexico, TEL55, 2017**			
				2) Digital Economy: Strategies and Indicators – **Singapore** – TEL58-2018			
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.	1) Facilitating innovative economic development of Internet + Service Industries" – **China** – TEL53, 2016	Industry Roundtable on Digital Start-ups and MSMEs, **Thailand**, TEL 56, 2017		2016 - 2020	

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
			2) The Development of Sharing Economy through ICTs in Service Industry – **China** – 2018-2019				
		b) Foster the exchanges between communication and other industries.				2016 - 2020	
		c) Share policy experiences on ICT application.	Workshop on Internet of Things (IOT) - **China** - 2015	1) Regulatory Roundtable on the Regulation of OTT Services within APEC – **PNG** – TEL57 - 2018		2016 - 2018	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
				2) Digital Economy: Strategies and Indicators – **Singapore** – TEL58-2018			
4.3	Development of new industries	a) Promote the development of new industries through the application of ICTs.	x		x	2016 - 2020	
		b) Promote the development of sustainable smart cities.	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 Nam**- 2018-2019	x	2016 - 2020	
			2) Recommendations				2 DSG) It is planned to

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			For Implementation Of Smart Sustainable City (SSC) ICT infrastructure in the APEC Region – **Viet Nam**- 2018-2019				acquire the official approval of BMC for funding by 23 July 2018
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 – **China** - TEL53, June 2016		x	2016 - 2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
			2) Indicators of information society development in APEC region – **Russia** – 2015				
		b) Promote a favourable environment for innovation in new economic sectors.	Facilitating innovative economic development of Internet + Service Industries – **China** - TEL53, June 2016	1)Regulatory Roundtable on the Regulation of OTT Services within APEC – **PNG** – TEL57 - 2018	x	2016 - 2020	
				2) Digital Economy: Strategies and Indicators – **Singapore** – TEL58- 2018			

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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**	**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		2016-2020	
		b) Ad-Hoc Steering Group on the Internet Economy;		x	x	2016-2020	
		c) Electronic Commerce Steering Group and the Counter Terrorism Taskforce- to promote a trusted ICTs environment;		x	x	2016-2020	

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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** – 2017-2018	x	x	2016-2020	
			2) "Cooperation program on creating a common interoperable approach to improving the efficiency of existing disaster management systems based on ICT" - **Russia** - 2015				

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		e) Health Working Group- to identify effective e-Health applications;		x		2016-2020	
		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		2016-2020	
		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		2016-2020	

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No.	Objectives	Actions	DSG	LSG	SPSG	Timeline	Remarks
		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		2016-2020	
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		2016 - 2020	
		b) Collaboration with the ICT industry, relevant multilateral organisations and Internet-related technical and administrative bodies on	Indicators of information society development in APEC region - **Russia** - 2015	Industry and Regulatory Roundtables, 2016-2020	x	2016 - 2020	

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No.	**Objectives**	**Actions**	**DSG**	**LSG**	**SPSG**	**Timeline**	**Remarks**
		issues.					