ICTS for SUSTAINABLE DEVELOPMENT IN ASIA PACIFIC

ITU ASIA & THE PACIFIC
REGIONAL DEVELOPMENT FORUM

ICTS FOR SUSTAINABLE DEVELOPMENT IN ASIA-PACIFIC

Implementation of the ITU Asia-Pacific Regional Initiatives Adopted by WTDC-14

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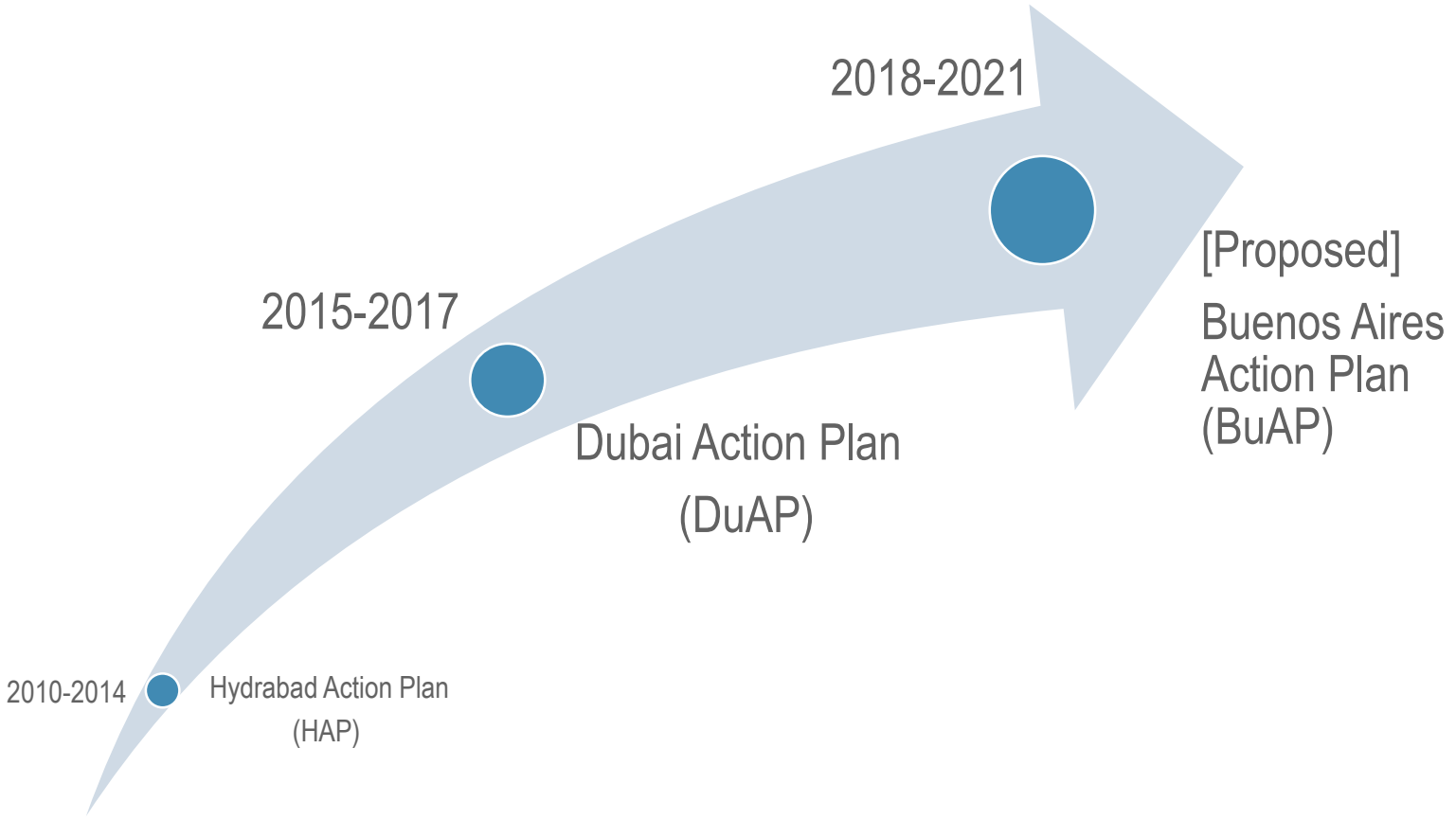
AGENDA

- Recalling the Objectives
- Regional Initiatives - Implementation
- Situational Analysis
- Anticipating the Future
- Conclusions

DUBAI ACTION PLAN : OBJECTIVES & OUTPUTS

Objective 1	Output 1.1: World Telecommunication Development Conference (WTDC) Output 1.2: Regional preparatory meetings (RPMs) Output 1.3: Telecommunication Development Advisory Group (TDAG) Output 1.4: Study groups
Objective 2	Output 2.1: Policy and regulatory frameworks Output 2.2: Telecommunication/ICT networks, including conformance and interoperability and bridging the standardization gap Output 2.3: Innovation and partnership
Objective 3	Output 3.1: Building confidence and security in the use of ICTs Output 3.2: ICT applications and services
Objective 4	Output 4.1: Capacity building Output 4.2: Telecommunication/ICT statistics Output 4.3: Digital inclusion of people with specific needs Output 4.4: Concentrated assistance to LDCs, SIDS and LLDCs
Objective 5	Output 5.1: ICTs and climate-change adaptation and mitigation Output 5.2: Emergency telecommunications



Transitioning the Plan

ASIA-PACIFIC REGIONAL INITIATIVES: 2015-17

Initiative #1	Special consideration for least developed countries, small island developing states, including Pacific island countries, and landlocked developing countries
Initiative #2	Emergency Telecommunications
Initiative #3	Harnessing the benefits of new technologies
Initiative #4	Development of broadband access and adoption of broadband
Initiative #5	Policy & Regulation

PROJECTS

ITUWTDC BUENOS AIRES 2017 9-20 October

DoCA, Australia	Supporting Implementation of the Regional Initiatives,
Intelsat, ITSO, Kacific, Inmarsat, ICTDF	Satellite Communications & Emergency Telecommunications, PICs
NBTC, Thailand	DTTB, DTRB, SM & Licensing, Cybersecurity, Community TV, Capacity building, others
MSIP, R.O. Korea	Spectrum Management & Master Plans
MIC, Japan	Emergency Telecommunications
Ministry of the Environment, Republic of Estonia	Implementing the Climate Change Adaptation Component of the Satellite Communications, Capacity, and Emergency Communications Solutions Project for the Small Island Developing States of the Pacific
EC	Support for Capacity Building and ICT Policies, Regulatory and Legislative Frameworks in the Pacific Island Countries (ICB4PAC II)

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PARTNERS IN ASIA-PACIFIC (Examples)

ITUWTDC
BUENOS AIRES 2017
9-20 October

Australian Government
Department of Communications and the Arts

MSIP
Ministry of Science, ICT and Future Planning

中华人民共和国工业和信息化部

iDA
SINGAPORE

NBTC

ABU

World Health Organization

MIC

ADB

MCMC

TRAI

PTA

UNITED NATIONS
ESCAP
Economic and Social Commission for Asia and the Pacific

UNPOG

APT

asean

intel

AIBD

PITA

APNIC

GSMA

सत्यमेव जयते

BTRC

PARTNERS
SIDS: 11
MEMBER STATES
IN PACIFIC

USP
THE UNIVERSITY OF THE SOUTH PACIFIC

NIA
NATIONAL INFORMATION SOCIETY AGENCY

Food and Agriculture Organization of the United Nations

CAICT
中国信息通信研究院

Taking Posts into the Future

ITSO

inmarsat

TOT Academy
The Professional Telecommunication Academy

CABI

ALTTC
एल्ट सेंटर

INTELSAT

PACIFIC

THE WORLD BANK

WeGO
World e-Governments Organization of Cities and Local Governments

CTA

HUAWEI

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2017

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Initiative #1

Special consideration for least developed countries, small island developing states, including Pacific island countries, and landlocked developing countries

Objective : To provide special assistance to least developed countries (LDCs), small island developing States (SIDS), including Pacific island countries, and landlocked developing countries (LLDCs) in order to meet their priority ICT requirements

Expected results

1. Improved infrastructure and enhanced access to affordable ICT services.
2. Improved enabling environment to facilitate ICT development.
3. Appropriate national, sub-regional and regional frameworks for cybersecurity.
4. Enhanced skills of relevant human resources.
5. Addressing specific issues and challenges in the Pacific island countries

What's the situation today ?

KEY ACHIEVEMENTS

2015 2016 2017

- **Improved infrastructure**: e.g. Spectrum management Master plans, SMS4DC, IPv6, IXP, EMF, Traffic engineering, Compliance testing, Type approval,
- **Improved enabling environment through direct country assistances**
  - Emergency Telecommunications Plans (e.g. Pacific ICT Ministerial Meeting)
  - Policy , regulations, frameworks and strategies (e.g. Licensing, Tariffs, Sector Review, Cybersecurity, ICT Indicators, Converged Regulations, Assistance on updating national allocation policies with outcomes of WRC-15)
  - E-applications (e.g. e-RNR master plan, e-agriculture strategy)
- **Capacity building through specialized trainings** (e.g. Telecom Strategy for the Pacific, Licensing, Regulation, Mobile application development, Cybersecurity, Internet Training Centre)
- **Projects and partnerships**

Initiative #2

Emergency Telecommunications

ITUWTDC BUENOS AIRES 2017 9-20 October

Objective : To provide assistance to Member States at all phases of disaster management, i.e. disaster preparedness including early warning, disaster response/relief and rehabilitation of telecommunication networks.

Expected results

1) Identification of suitable technologies to be used for emergency communications.
2) Creation of common databases to share information on emergency communications.
3) Design of national and sub-regional emergency communication plans, taking into account the impact of climate change.
4) Development of appropriate policy, regulatory and legislative frameworks on emergency communications at national and regional level.
5) Availability of a dedicated set of equipment for emergency radio communication in the Asia-Pacific region.
6) Capacity building in relation to emergency telecommunications and disaster preparedness.
7) Mechanism for sharing information and best practices on utilizing ICTs for disaster preparedness, disaster response/relief and reconstruction among countries in the region and others.

What's the situation today ?

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KEY ACHIEVEMENTS

2015 2016 2017

- **Emergency Telecommunications Equipment Support during disaster**
  - e.g. MDRU, Satellite phones, B-GAN, Satellite connectivity
- **Improved enabling environment through direct country assistances on emergency telecommunications**
  - National Emergency Telecommunications Plans and frameworks
  - Emergency Telecommunications Continuity Management Systems
- **Awareness raising and capacity building through specialized trainings**
- **Projects and partnerships**

Initiative #3

Harnessing the benefits of new technologies

ITUWTDC BUENOS AIRES 2017 9-20 October

Objective To assist ITU Member States in utilizing new technologies and address human and technical capacity challenges related to issues such as those identified in the expected results, among others.

Expected results

1) Assistance in the development of frameworks for new and emerging technical issues as well as for utilizing new technologies in, but not limited to, the following areas:

a) Digitization of broadcasting
b) Next-generation network
c) Transition to IPv6
d) Digital literacy and inclusion for all (e.g. people with disabilities, etc.)
e) ICT applications
f) Multilingual local content
g) Accredited laboratory
h) Spectrum management and monitoring
i) Cybersecurity,
j) Number misuse
k) Issues related to climate change and e-waste
l) Over-the-top (OTT) services
m) Cloud computing
n) Quality of service
o) International mobile roaming
p) Cable landing stations

2) Raised awareness and enhanced skills in relation to new technologies and technical issues as identified and others as requested
3) Expert and technical assistance to members on resolving technical issues as identified and others as requested
4) Identification of new and emerging technical issues which could be the focus of further expertise, assistance and capacity-building exercises.

What's the situation today ?

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KEY ACHIEVEMENTS

2015 2016 2017

- **Assistance in the development of frameworks and utilization of new technologies :** Spectrum management plans, SMS4DC, IPv6, IXP, Analogue to Digital Broadcasting, EMF, Compliance testing, Type approval, Conformity & Interoperability, e-agriculture, m-health, energy efficiency, Cybersecurity and Child Online Protection, Text to speech
- **Raised awareness and enhanced skills in relation to new technologies :** Spectrum management and monitoring, SMS4DC, IPv6, IXP, Analogue to Digital Broadcasting, OTT, IBB, EMF, Traffic engineering, Compliance testing, Type approval, Conformity & Interoperability, e-Government, Smart Cities, e-agriculture, m-health, Green ICTs, Smart Grids, Cybersecurity, Broadband, Quality of Service, Internet of Things, NGN Planning, Postal e-strategies, mobile applications,
- **Projects and partnerships**

Initiative #4

Development of broadband access and adoption of broadband

ITUWTDC BUENOS AIRES 2017 9-20 October

Objective : To assist Member States in the development of broadband access in urban and rural areas and to support system construction to resolve social issues leveraging the benefits of telecommunication/ICT applications.

Expected results

1. National broadband policies to meet the requirements of developing countries.
2. Improved broadband infrastructure and access to affordable ICT services in urban and rural areas, including remote and hilly terrains as well as remote islands.
3. Development of telecommunication/ICT applications that can support multilingualism and address local needs.
4. Enhanced skills in the area of broadband communication networks for the relevant human resources.
5. Implementation of solutions providing cost-effective broadband infrastructure addressing the deployment and operational challenges in rural and remote areas, including remote islands.
6. International cooperation on multi-stakeholder empowerment of ICT volunteers
7. Capacity building and deployment of cost-effective e health services in rural and remote areas, thereby reducing operational and administrative costs.
8. Accelerating the evolution and deployment of next-generation network infrastructure, including mobile/wireless communication networks, land/submarine optical fiber cable networks and Internet networks, for both national and regional connectivity.
9. Studies and assistance on effective utilization and optimization of optical fiber cable networks, especially submarine cable networks.

What's the situation today ?

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KEY ACHIEVEMENTS

2015 2016 2017

- **Improved enabling environment:**
  - Policy , regulations, frameworks and strategies e.g. National Broadband Plans, Affordable access to Internet
  - Online interactive transmission map,
- **Awareness raising and capacity building :**
  - Forums, workshops and training e.g. Digital Society, e-Government and Smart Cities, Accelerating Broadband Access, Wireless Broadband Roadmap Development, broadband Quality of Service, Smart Sustainable Cities,
  - International ICT Volunteers,
  - Studies e.g. White Paper on Broadband Policy and Regulation
- **Projects and partnerships**

Initiative #5

Policy and Regulation

ITUWTDC BUENOS AIRES 2017 9-20 October

Objective : To assist Member States in developing appropriate policy and regulatory frameworks, enhancing skills, increasing information sharing and strengthening regulatory cooperation.

Expected results

1) Development of appropriate policy, regulatory and legislative frameworks relating to the regional initiatives where necessary
2) Enhancing the skills of relevant human resources
3) Promotion of regulatory cooperation and information sharing.

What's the situation today ?

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KEY ACHIEVEMENTS

2015 2016 2017

- **Appropriate policy, regulatory and legislative frameworks**: e.g. National Broadband Policies/Plans, Licensing, Tariffs, Numbering Plan, Dispute Resolutions, Converged Regulations, ITU-MIIT Seminar, National frameworks on Cross border interference Mitigation,
- **Awareness raising, information sharing and skills enhancement:** e.g. International Training Program, ITU-IDA Executive Training program, ITU MIIT Seminar, Cross-sectoral issues (e-agriculture, m-health, digital financial services), Quadplay and strategic costing, OTT. Consumer protection, ICT Statistics and Indicators
- **Promotion of regulatory cooperation :** e.g. ITU Asia-Pacific Regulators Roundtable, ITU Asia-Pacific Regional Development Forum,
- **Projects and partnerships**

ACHIEVING OBJECTIVES: ASIA-PACIFIC (2015-2017)

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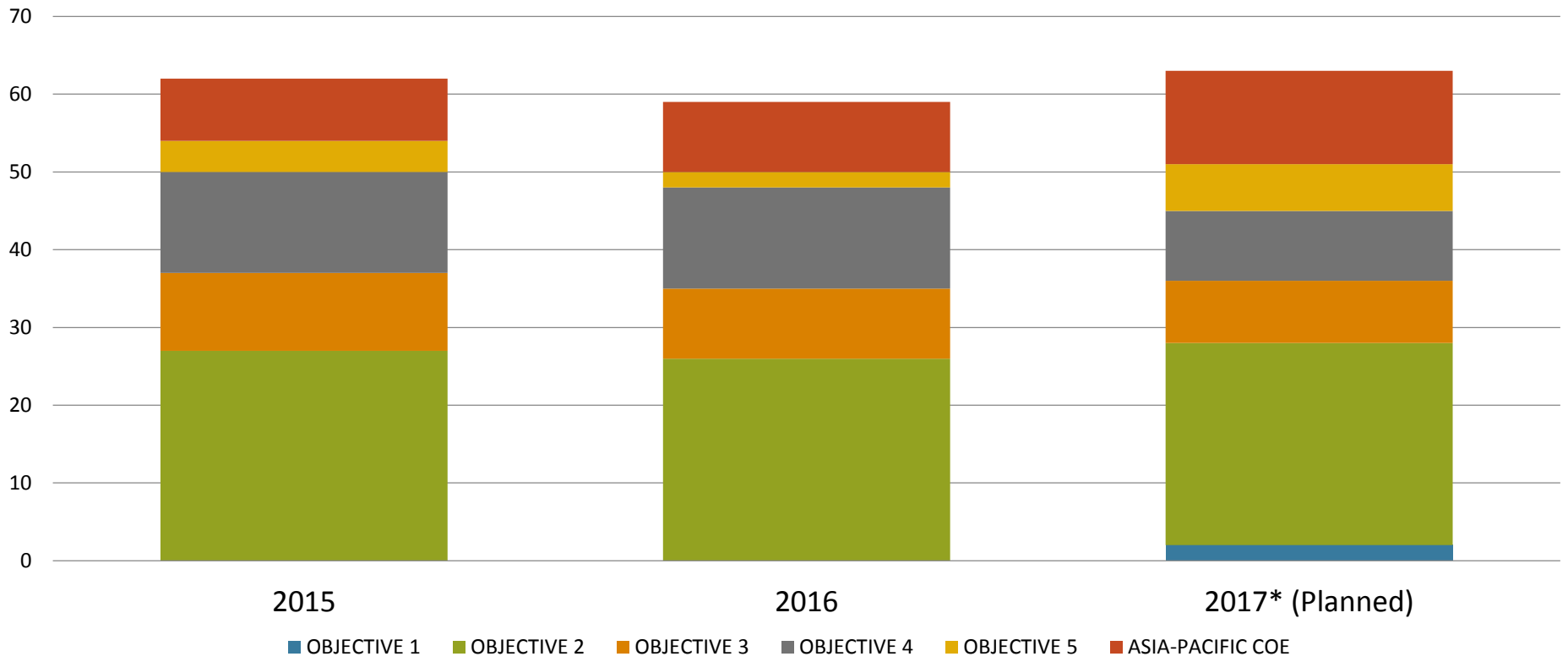
55-65 activities each year + projects

Number of Actions (By Year)



Projects active	**20**	**19**	**11 (AS ON 15 MARCH 17)**

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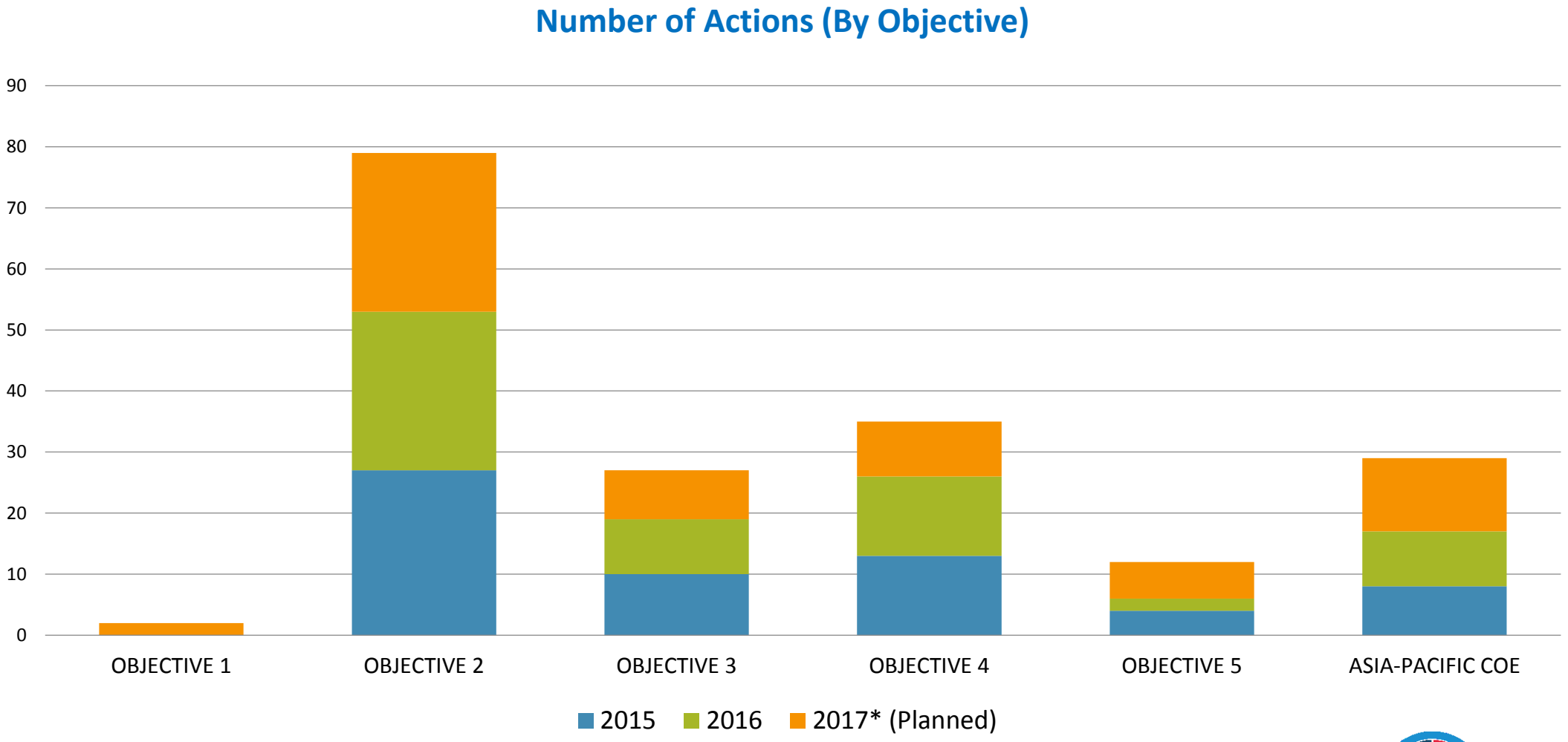
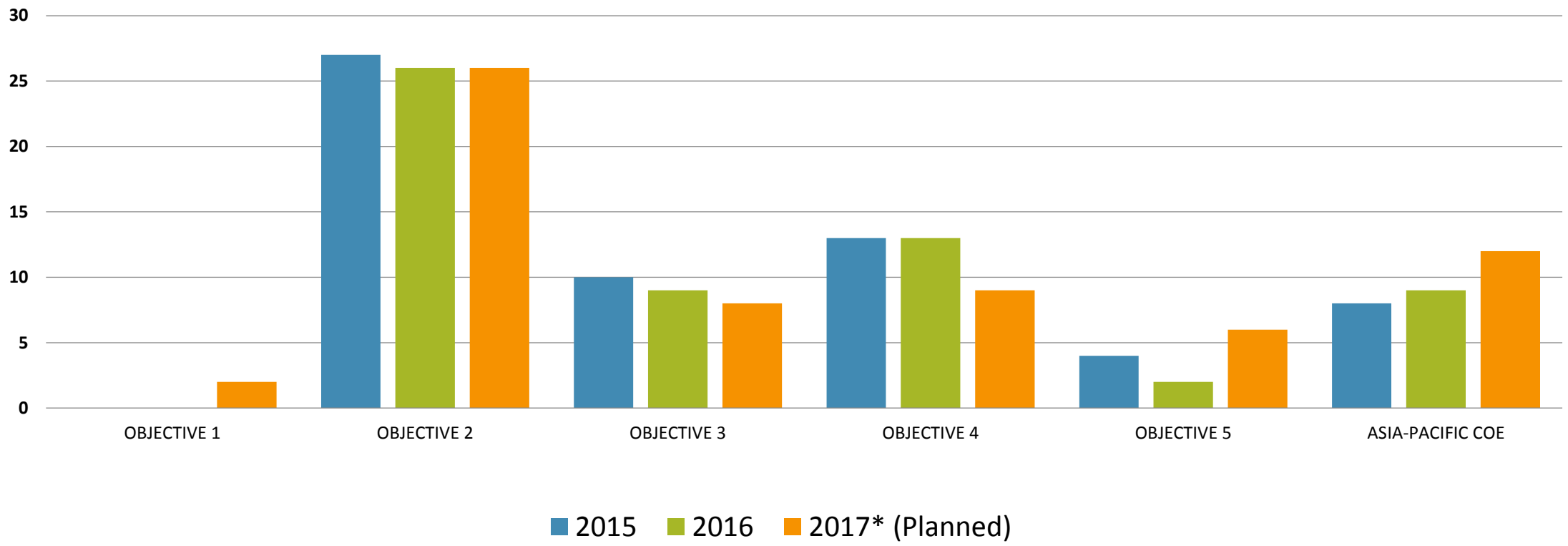
ACHIEVING OBJECTIVES: ASIA-PACIFIC (2015-2017)

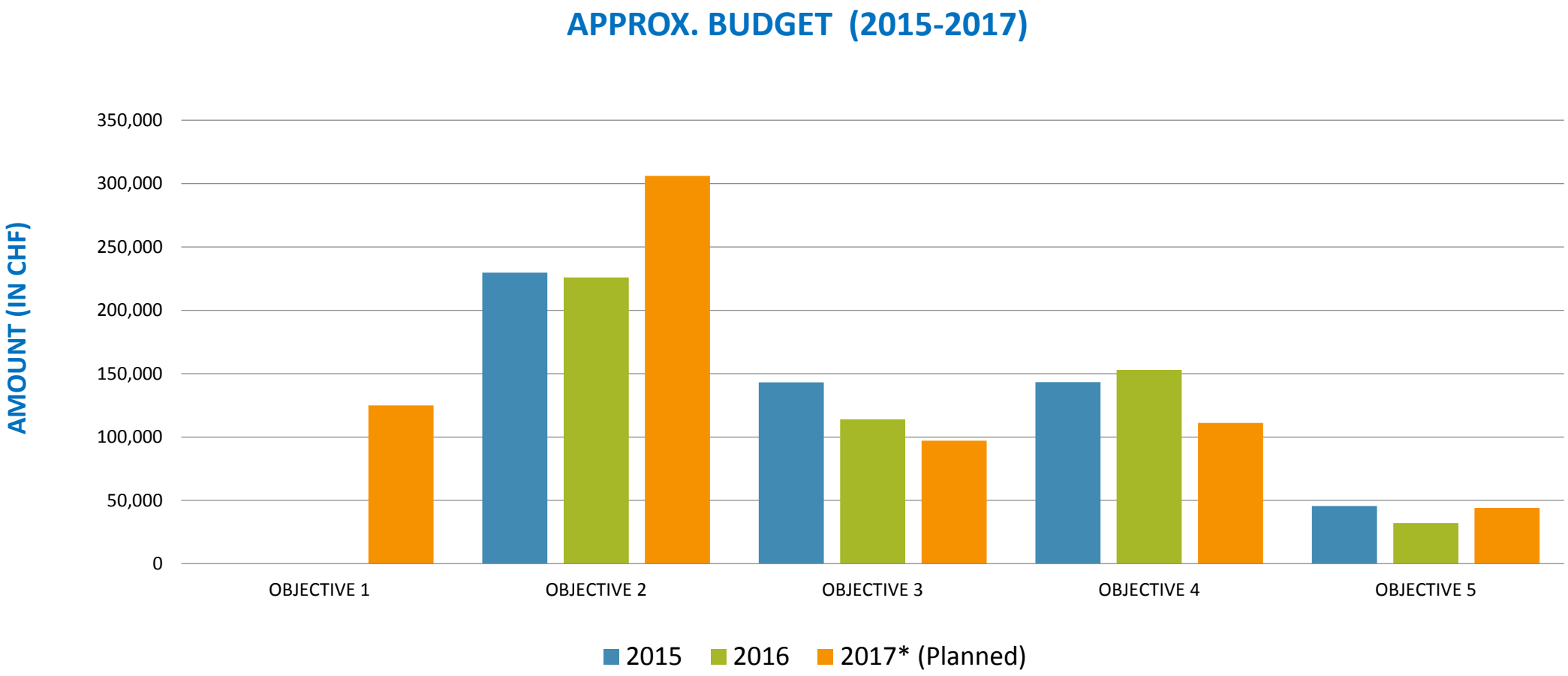


ACTIVITIES IMPLEMENTED AND PLANNED:2015-17

Number of Actions (Excluding Projects)



ACTIVITIES IMPLEMENTED AND PLANNED:2015-17



ICTS ARE CROSS-SECTORAL AND CRITICAL FOR ALL SDGS…

ICTs have great potential to accelerate human progress, bridge the digital divide and to develop knowledge societies.

MAINSTREAMING THE 2030 AGENDA

ITUWTDC BUENOS AIRES 2017 9-20 October

The new universal agenda requires that ITU :

- Support governments, the UN system and sector partnership efforts effectively at the national, regional, and global levels to meet the sustainable development goals.
- Better inter-sectoral coordination at ITU to strengthen its related work and enhance the important role of ICTs as crosscutting enablers for the SDGs.
- Ensure coherent support towards the implementation of the 2030 Agenda when reviewing ITU strategic and operational plans and implementation and progress reports;

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WTDC-17 Theme: ICT for Sustainable Development Goals

Buenos Aires, Argentina, from 9 to 20 October 2017


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BUENOS AIRES 2017
9-20 October


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