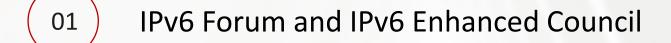


# IPv6 transition in APAC, IPv6 policy practice in France and Africa

Tayeb Ben Meriem Vice Chair, IPv6 Forum

# Agenda



- 02 Europe & Arab Experience
- O3 APAC IPv6 Council Looking for cooperation with ITU RDF



# IPv6 → IPv6 Enhanced: Unleashing Connectivity Potential with 10 Trillion\$ Value by 2030

**IPv6 Enhanced IPv6** increases improves QUALITY address QUANTITY Increased **Improved** address programma bility space **Improved SLAs** Reduced admin Reduced latency **Enhanced** Auto network configuration operations

IPv6 Enhanced: Innovation based on IPv6 to enhance network quality IPv6 increases the QUANTITY of the digital connections IPv6 Enhanced increases the QUALITY of the digital connections

### Innovation based on IPv6 to support 5G and beyond



**SRv6:** navigator that finds the best route based on the route conditions.



**Network Slicing:** creates dedicated *LANES* in the Network



Deterministic behaviour: the network performs precise and punctual



In-Flow monitoring: real time monitoring the network status

# Roland Berger Report: 10 Trillion\$ Value of IPv6 and IPv6 Enhanced innovations

Roland Berger assessed the impact of IPv6 and IPv6 enhanced:

- · IPv6 index growth is correlated to GDP growth
- By 2030, it can create a total of \$10 trillion in global economic output

769	4408	1223	1160	535	309
Communication	Manufacturing	Finance	Government	Transportation	Entertainment
479	300	177	708	180	636
Healthcare	Education	energy	Retail	Agriculture	real estate

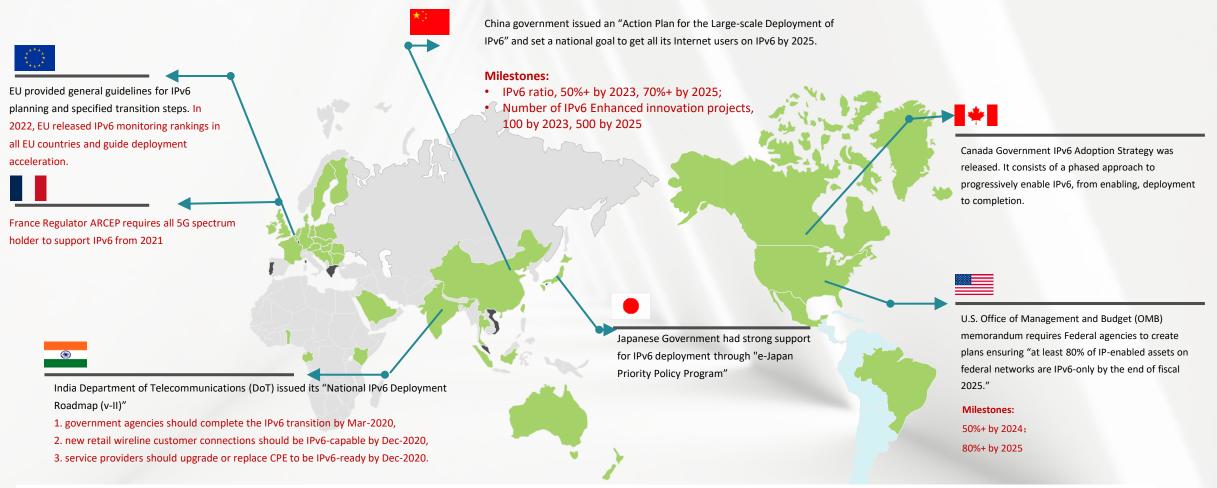
Unit / billion USD



 $<sup>^*\</sup> https://www.rolandberger.com/en/Insights/Publications/Global-IPv6-Development-Report-2022.html$ 

## Countries Release National Policies Facilitate IPv6 Deployment, for Digital Equity and Economy

**Digital equity:** Balance digital power among countries, provide equal access to the Internet for the general public, and let people have the ability to access Internet fairly, especially for those countries have large population and growing fast



The APAC region accounts for one-third of the world's population, but the development of the IPv6 does not match the development level.

Recommend to learn from other regions to release policies to guide the development.

# IPv6 Forum and its 90+ Local Chapters Ready to Support IPv6 in Different Regions

#### 90+ Local Chapters

For IPv6 Deployment

APAC and ARAB IPv6 Council created @ 2023

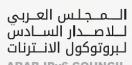


#### **IPv6 Enhanced Council**

For IPv6 Innovation

Started in ETSI @ 2021 Moved to IPv6 Forum @ 2023























### 110+ Players

Operators, Regulators, Vendors, Verticals Plyers, Research Institutes, Universities



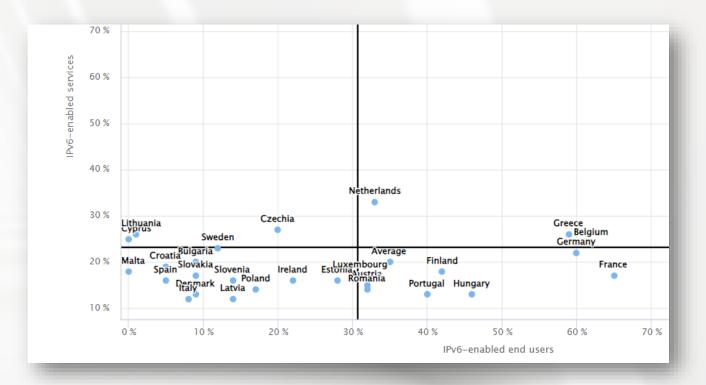
# **European Commission: IPv6 and related Instruments**



In 2000's: Established EC's IPv6 Task Force and IPv6 Policy & Deployment Plan



#### **IPv6 Monitoring Site of Member States**



URL: <a href="https://ec.europa.eu/internet-standards/ipv6.html">https://ec.europa.eu/internet-standards/ipv6.html</a>



# France: ARCEP Leads the IPv6 Deployment by Releasing IPv6 Policies







President: Patrick Cocquet Vice-President: Tayeb Ben Meriem

L'IPv6 français fait le point (01net.com)



### **Setup of France IPv6 Task Force (v2) 2019**



- Communicate with Carriers and Enterprises and regularly release IPv6 Deployment Reports.
- A Multi-stakeholder Platform.
- Build Test Tools and Platforms
- Provide Guidelines to promote IPv6 and SRv6.

### **Regulator Releases IPv6 Policies**

- IPv6 requirement for 5G networks
- The 3.4-3.8 GHz 5G spectrum holders must have their network compatible with IPv6 protocol from December 31 2020.
- ARCEP support to Carriers & Enterprises
- Annual Barometer on IPv6 Evolution in France
- Annual Report on Data Interconnection in France
- France 2021 Internet Report
- Internet Service Quality 2020 Report
- Global IPv6 Deployment Statistics



# Arab IPv6 Council and White Paper for Regional IPv6 Development Strategy

# IPv6 Industry summit and Establishment of Arab IPv6 Council

- Established by AICTO (Arab ICT Organization) and IPv6
   Forum (May 9<sup>th</sup> 2023)
- Participation of key stakeholders from the Arab region
- Mission: Promote IPv6 deployment in the Arab Region





**Board Members** 

#### **Release of Arab-Africa IPv6 White Paper**

- Released during Gitex Afica IP Gala on May 31st 2023
- Published by AICTO, ATU (African Telecommunications Union), IPv6 Forum and Huawei
- Introduced IPv6 for digital economy and policy recommendations, encourage IPv6 and IPv6 Enhanced deployments such as SRv6









#### **Arab-Africa IPv6 Development White Paper**

IPv6: Trends, Innovations, and the Way Forward in the Digital Economy Era

http://www.aicto.org/publications/studies/#dearflip-df 6823/1/

# APAC IPv6 Council created @ 2023, APAC IPv6 industry white paper started, Looking for cooperation with ITU RDF

#### **Goals of APAC IPv6 Council**

- Promote IPv6 Awareness and Education
- Drive IPv6 Policy Making and Regulatory Framework creation in APAC region
- Facilitate IPv6 Test and Deployment Infrastructure
- Monitor and Evaluate Progress of v6 Adoption
- Engage with international forums to foster global collaboration
- Identification of Member States, key stakeholders, current adoption rates and challenges, strategies, and potential solutions



We hope to work with ITU RDF to promote the IPv6 industry development in the Asia Pacific.

The council is working on the APAC IPv6 industry white paper. ITU RDF experts are welcome to participate in.



# Thank you

