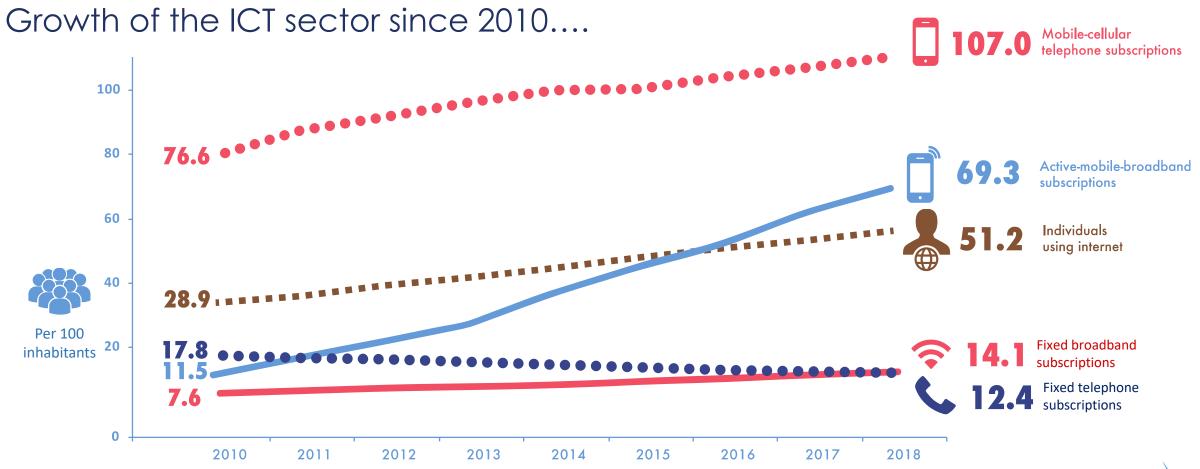
International Conference ITU-EKIP Regional Regulatory Forum for Europe 30 September - 1 October 2019

# Collaborative regulation in the digital economy

Nancy Sundberg Senior Programme Officer Telecommunication Development Bureau, ITU

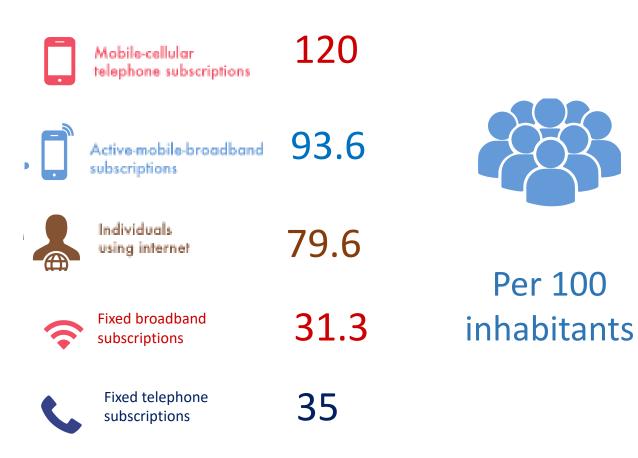


# Global participation in the digital economy over time....





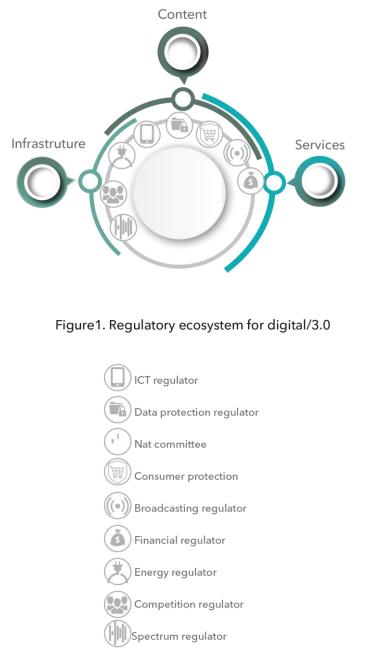
Note: \* Estimate. Source: ITU. European participation in the digital economy in 2018



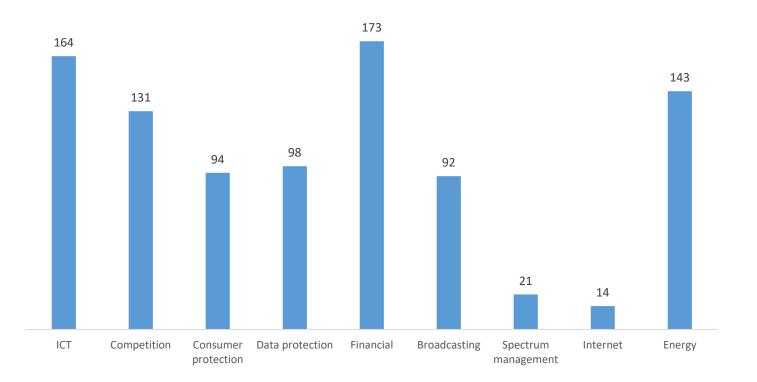


Note: \* Estimate. Source: ITU.

# **Regulators involved in the digital ecosystem**



Regulators involved in the digital ecosystem, worldwide, 2018



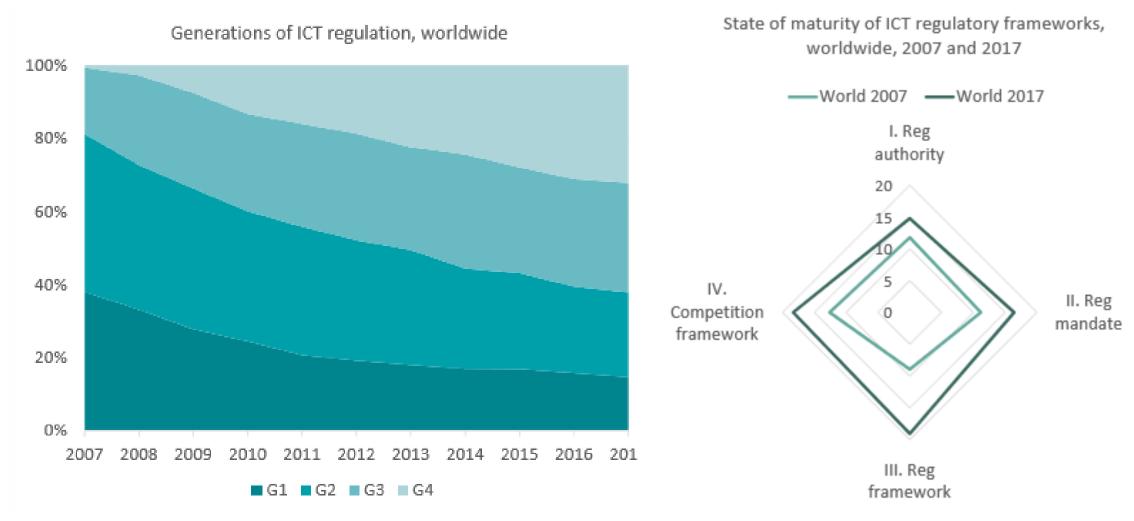
Source: ITU





## **Generations of Regulation - definition**

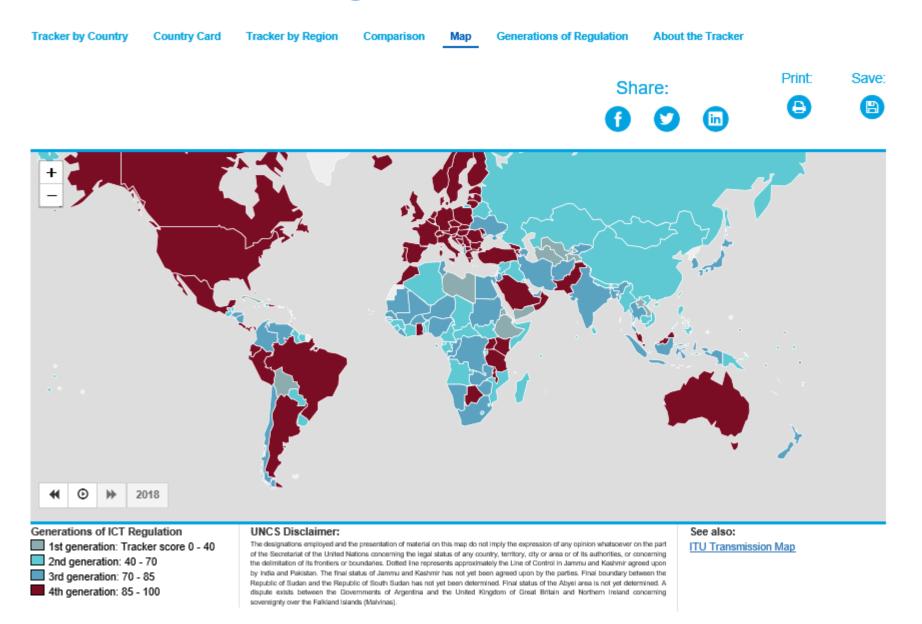
### **Generations of Regulation**





Source: ITU

### **Generations of Regulation**



### ICT regulatory tracker

# Europe in 2018

First

country

to reach G4

Nb of countries in G4 in 2018

out of 5 (or 82%)

Gap between the highest and lowest scoring country

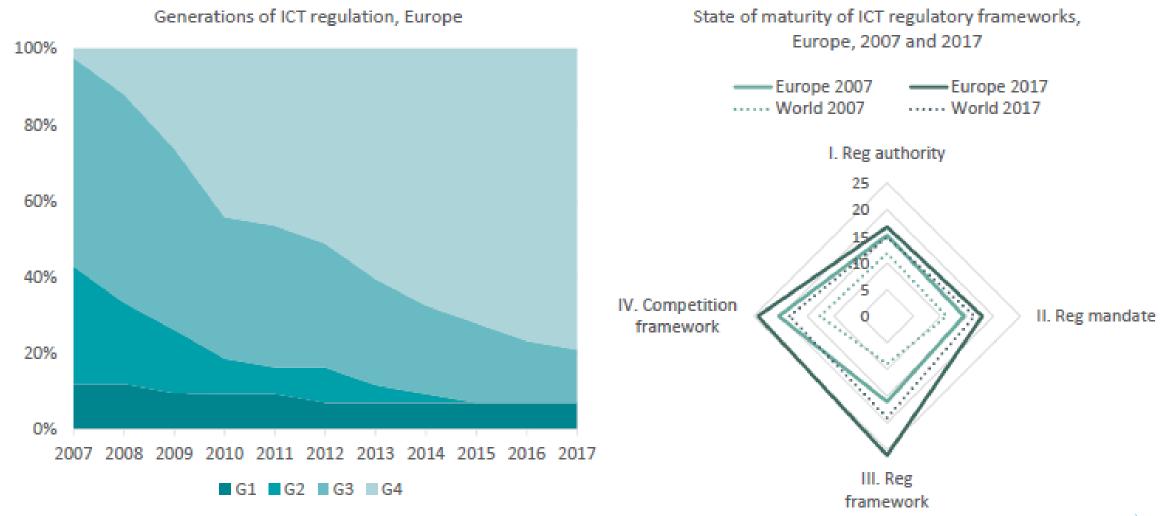
> Lowest: Andorra, San Marino Highest:

Regional averages per pillar/area

Regulatory authority: 17/20 Regulatory mandates: 18/22 Regulatory regime: 26/30 Competition framework: 25/28 Average score region compare to world average

86 for Europe71 for World

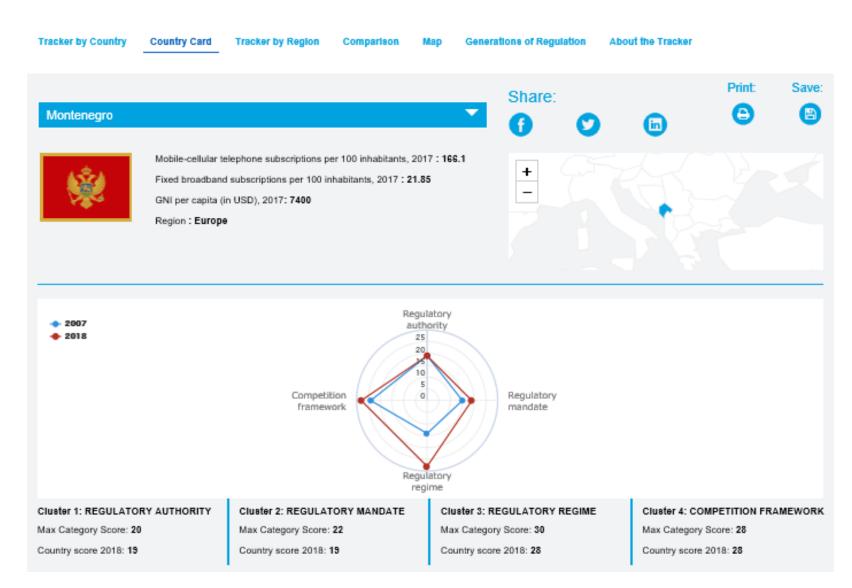
# **Evolution of the regulatory framework in Europe**



Note: The right chart shows the evolution of the average scores of the ICT Regulatory Tracker, per pillar (in points). Source: ICT Regulatory Tracker, itu.int/go/tracker









# ICT Regulatory Tracker 2018

Tracker by Country	Country Card	Tracker by Region	Comparison	Мар	Generations of Regulation

#### Select an option

ICT Regulatory Tracker 2018: Europe							
Cluster	C1: Regulatory Authority	C2. Regulatory Mandate	C3. Regulatory Regime	C4. Competition Framework	Overall Score		
Max Score:	20	22	30	28	100		
Country							
Albania	18	16	25	24	83.00		
Andorra	6	8	8	0	22.00		
Austria	18	16.5	28	27	89.50		
Belgium	18	19	30	27	94.00		
Bosnia and Herzegovina	19	21	27	26	93.00		
Bulgaria	19	16.5	28	28	91.50		



About the Tracker



ITU report: check out now!



# **Global ICT Outlook Report and Tracker**



ICT Regulatory Tracker 2018

Tracking market, regulatory and policy trends in the ICT sector and their implications across the sectors and the economy

www.itu.int/go/outlook18

A unique tool covering 185+ countries for the period 2007-2018, showcasing regulatory progress within the same country, amongst regions and worldwide



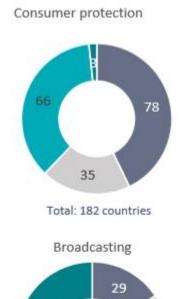


Collaboration between ICT Regulators and other Regulatory Authorities

Degree of collaboration between the ICT regulator and:

- Competition authority
- Consumer protection
   commission
- Data protection commission
- Spectrum agency
- Broadcasting regulator
- Financial regulator
- Energy regulator
- Internet agency





38

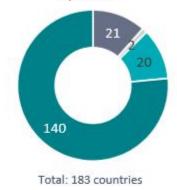
58

63

Data protection

Total: 183 countries

Spectrum



- No institutional setup
   Do not collaborate
   Collaborate
- Same agency

Source: ITU

Total: 178 countries

Total: 192 countries

91

Total: 184 countries

Energy

18

# **Collaborative regulation**

The most important steps towards collaborative regulation

#### Benefits

- Strengthened institutional capacity, legal mandate of the regulator, sound regulatory regimes and enhanced competition
- Hands-on, inclusive regulation and decision-making featuring tools and processes
- Teaming with other sector regulators to address multisector issues – shared sector-specific expertise and responsibility for decisionmaking
- Focus on how to collaborate and with whom
- Not a silver bullet

#### Challenges

- Slow pace or difficulties to carry out a policy review/ development
- Develop new strategic thinking about regulatory priorities and challenges
- Comply with government procedures & rules, jurisdiction issues
- Capacity of the ICT regulator to handle new issues (expertise & staff development, motivation)
- Get the evidence to support decision-making
- The more important the matter, the more complex the collaboration
- Institutions working in silos, turf wars



# The economic contribution of broadband, digitization and ICT regulation

Econometric study on the impact of broadband, digital transformation, and the interplay of ICT regulation on the economy

#### Impact of fixed broadband

- 2010-2017: significant economic impact
- Investment and labour force critically affect economic growth
- Prices for services are the key enablers for adoption
- Income levels affect the revenues and investments of operators
- Critical mass effect: the impact of fixed broadband appears at higher levels of economic development
- Return to scale effect: fixed broadband economic impact tends to increase with economic development
- Fixed to mobile substitution going on



yielded

GDP

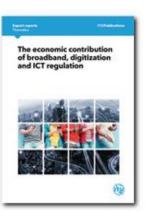
increase in GDP



# The economic contribution of broadband, digitization and ICT regulation

### Impact of mobile broadband

- Higher average impact on economic growth than fixed broadband across all income groups
- Higher importance of investment than for fixed broadband
- Affordability is less of a barrier for mobile than for fixed broadband
- Mobile broadband contribution is higher in less developed countries than in more developed
- The lower the income level, the higher the economic impact of mobile broadband



At global level 10% **increase** in mobile broadband penetration vielded 1.5% **GDP** increase in GDP

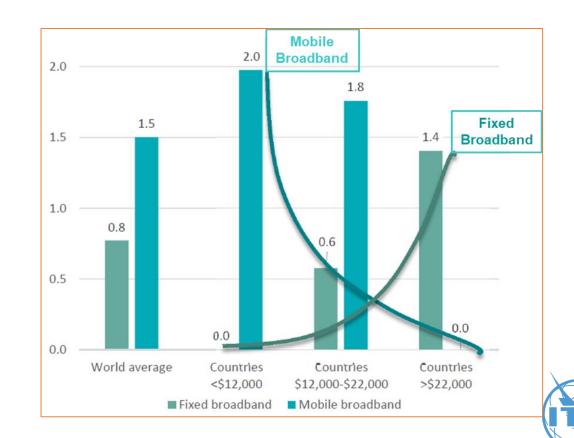


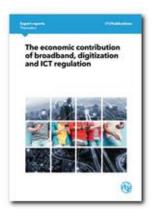
# The economic contribution of broadband, digitization and ICT regulation

# Impact of broadband

In summary, the broadband economic impact models confirm that:

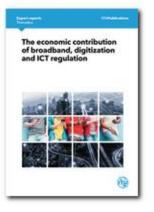
- At the aggregate level, mobile broadband appears to have a higher economic impact than fixed broadband;
- The economic impact of fixed broadband is higher in more developed countries than in less developed;
- On the opposite, the economic impact of mobile broadband is higher in less developed countries than in more developed.





# Impact of regulation

- Regulatory and institutional frameworks are essential in driving digital ecosystem growth and the effect builds up over time
- The connectivity of digital services is significantly correlated with the level of advancement of ICT policies and regulations, and the competition and market power regulatory set-up in particular
- Investment in the digital ecosystem is directly and positively influenced by the maturity of ICT regulatory frameworks and by ICT competition frameworks in particular
- ICT regulatory frameworks important for the development of infrastructure for digital services



- Digital players not influenced by the level of openness and competition of the traditional ICT sector, having a competitive advantage
- Level playing field in the digital marketplace hard to achieve
- New policies and regulations need to be built in and onto existing ones in order to increase their relevance and impact on the development of the digital ecosystem.



# **GSR-19 Best Practice Guidelines**



19<sup>1</sup> GLOBAL SYMPOSIUM FOR REGULATORS

PORT VILA 2019

nclusive connectivity: The future of regulation

9-12 July Port Vila, Vanuatu

### Fast Forward Digital Connectivity for All

Core design principles for collaborative regulation

Regulators identified seven design principles for policy and regulation:
holistic

- consultation and collaboration based
- evidence-based
- outcome-based
- incentive-based
- adaptive, balanced and fit for purpose
- focus on building trust and engagement

# **GSR-19 Best Practice Guidelines**



9-12 July Port Vila, Vanuatu

### Benchmarks for regulatory excellence and market performance

# Regulators recommend five main clusters of benchmarks for regulators:

- Connectivity mapping
- Metrics for market performance
- Measuring regulatory maturity and levels of collaborative regulation
- Impact assessment
- Regulatory roadmaps



PORT VILA 2019 Global Symposium for Regulators (GSR) 2019

Looking back over nearly 20 years of GSR, the role of the ICT regulator has never been more important. ICTs are at the heart of efforts to attain the 17 UN Sustainable

pment Goals, and accessible, affordable ICT acture is the pre-condition of every nation's

TUGSR

**Best Practice Guidelines** fast forward digital connectivity for all

#### What regulatory tools and approaches are at hand for enabling a sustainable digital transformation?

ging socia-economic development. Band on socia-economic development. Band on socia-economic development of the socia- socia-economic development of the socia- social development of the social development of the social developm	Pro-competition frameworks for the digital transformation	Regulatory incentives and Stakeholder engagement	Robust and enforceable mechanisms for consumer protection	Market-based and dynamic mechanisms for spectrum management	Regulatory Impact Assessment (RIA) and dynamic collaboration among regulatory authorities
	should consider longer value chains, more diverse market players, services and devices, stakeholder partnerships and digital infrastructure layers, and ultimately, their impact on markets and consumers	Incentives can create a positive market dynamic and improve market outcomes with less regulatory effort. Stakeholders engagement such as public hearings and expert workshops and roundtables can allow pooling resources and expertise to inform major regulatory decisions	including a set of rules on data protection, privacy and data portability	can allow for flexible, simplified and transparent use of scarce radio frequencies, also promoting technology neutrality	RIA should be introduced as a regular practice before major regulatory decisions are made as well as throughout the lifecycle of regulation. Effective collaboration channels with other regulatory authorities are necessary to ensure coherent and reasonable regulations across economic sectors

Regional and international cooperation in defining regulatory rules on cross-border issues can ensure consistency, predictability and fluidity of digital markets

**Regulatory expertise needs to be developed continuously** to integrate new technologies, competencies and skills and allow for data and evidence-based decision-making.