

Telecom Services and point of view of regulation

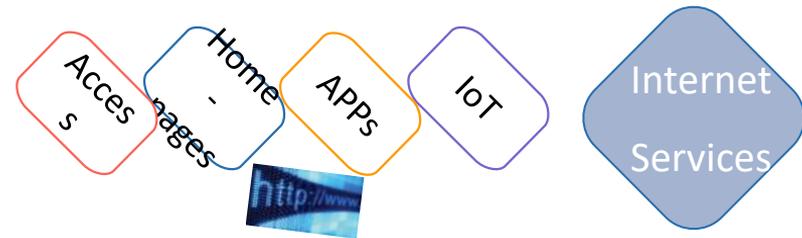
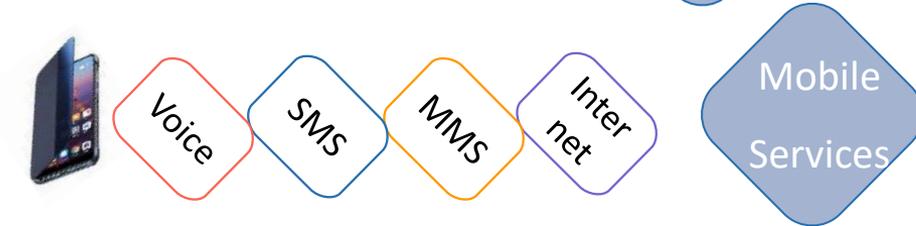
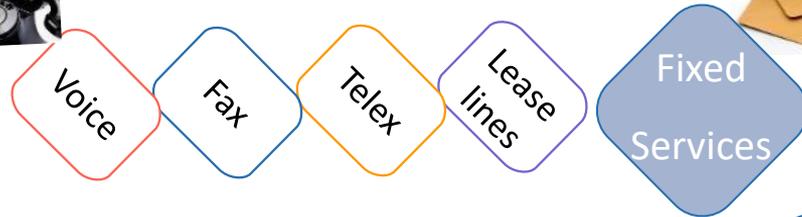
ecta Regulatory Conference

Bruxelles, 10-11 Dec. 2019



Drei. Macht's einfach.

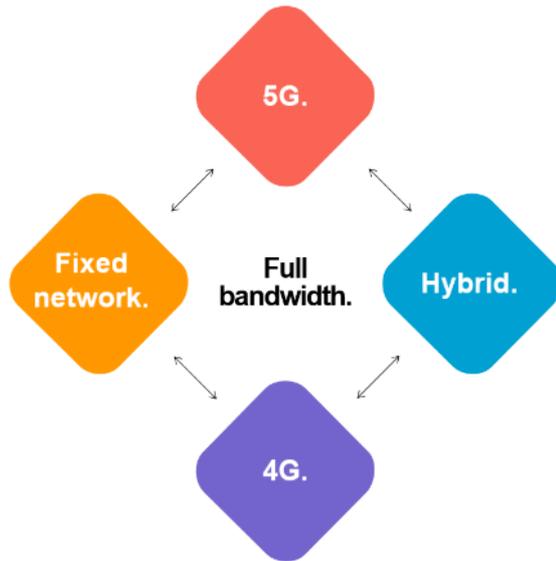
Focus on regulation of access services between legacy networks and new entrants



- **Full regulation of fixed networks**
 - Access and interconnection
 - Voice Termination & Origination (symmetrical)
 - ULL
 - Leased lines
- **Limited regulation of mobile networks**
 - Interconnection
 - Termination rates (asymmetrical)
 - Reasonable prices for origination rates and SMS-interconnection
 - EU-regulations on roaming
- **No regulation of the Internet**
 - No access or interconnection obligations

Services contributed financially to network (roll-out) costs

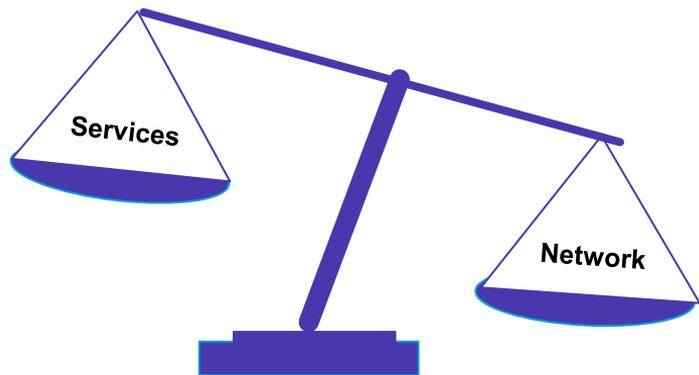
Enhanced user experience and quality of service is key to consumers.



- Politics require **full network coverage** and impose **huge roll-out obligations on 5G networks**.
- EU regulations are **degrading** network operators to **bit pipes** for OTTs.
- **Net neutrality** /open Internet rules as applied today **limit** service offerings.
 - **Strictly regulated** network operators suffer from huge investments in network roll-out on the one hand and restrictive Internet regulations on the other hand.
 - **Unregulated OTTs** from overseas make the big money.
- **Privacy regulations** limit use of data.
 - Use of personal data is extremely restricted.
 - Europe loses ground against USA and Asia (first judgments from DPAs in Europe go against small European players BUT NOT against OTTs).

Convergency of fixed and mobile networks – rise of OTTs

5G: One network for everything.

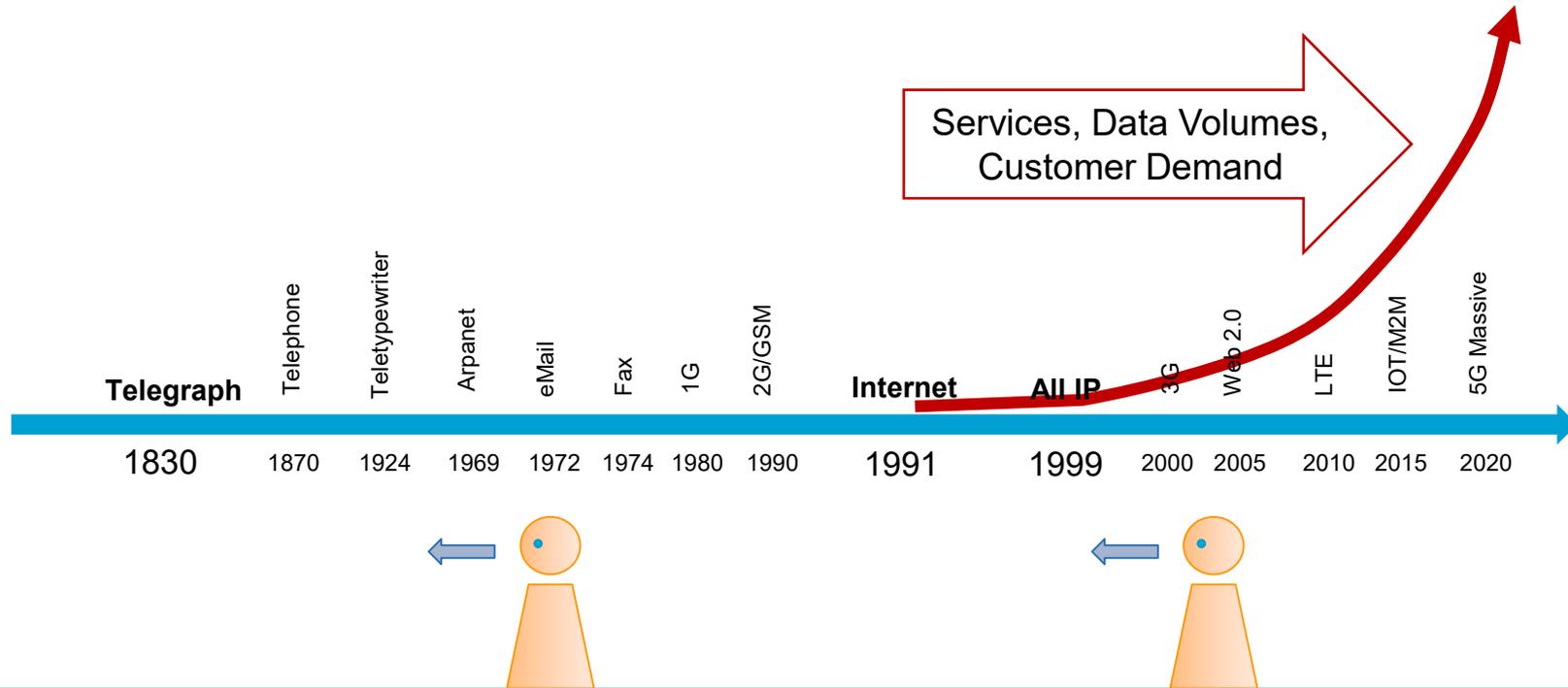


Any specialized service shall not be allowed unless the network capacity is sufficient to provide the specialized service in addition to any (best effort!) Internet Access Service (IAS).

- 5G lays the ground for Specialised Services. But:
 - BEREC introduces discrimination obligation
 - IAS overrules any other service.
 - IAS has to be treated preferentially in cases of conflicts.
- 5G allows for network based restrictions
 - BEREC only allows for application-agnostic network restrictions or end point-based blocking restrictions
- BEREC further intervenes in end user tariff regulation
 - Tariffs shall be application agnostic

BEREC wrongly interprets the Regulations on Open Internet Access

Regulation is still triggered by the past



Shift from ex ante to ex post regulation would help innovation capabilities of sector and achieving level playing field.

Drei. Macht's einfach.

