WORKSHOP ON ARTIFICIAL INTELLIGENCE

ITU-T Study Group 3, Geneva, Switzerland
10 April 2018



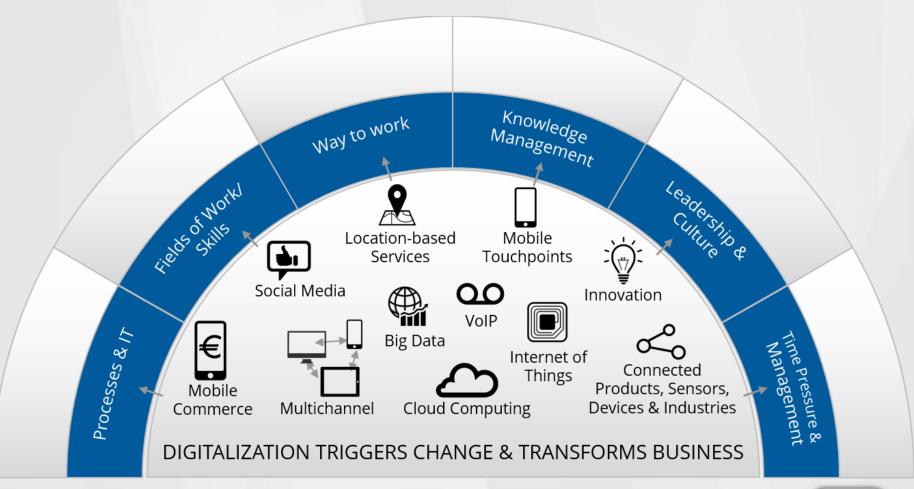
DIGITAL TRANSFORMATION



Digital Transformation



Digital Transformation





ORIGINAL LEVEL PLAYING FIELD

High sunk costs.

Network externalities.

Economies of scale and scope.

Termination Monopoly.



Mandatory network opening.

Conditions approved in isonomic terms.

Administrative Arbitration.

Price control



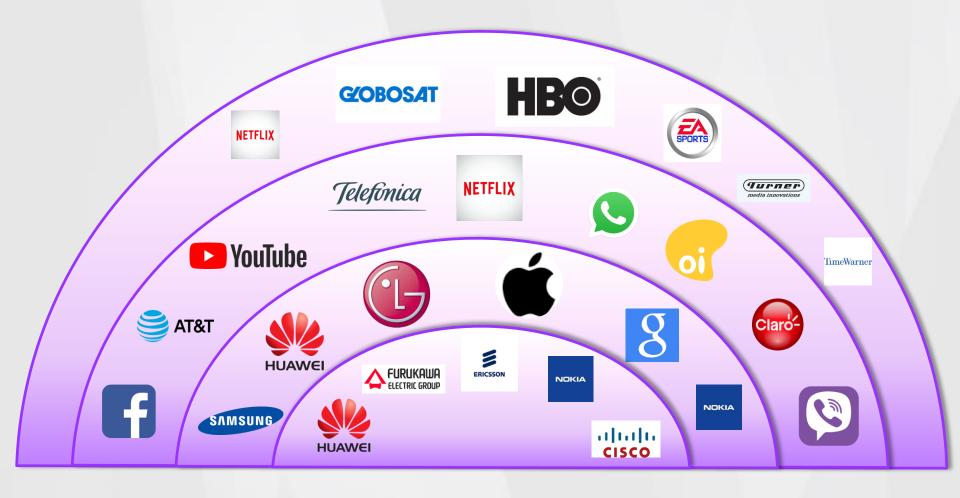
NEW LEVEL PLAYING FIELD



FUTURE BUSINESS MODELS IN ICT



Industry Dynamic





Trends



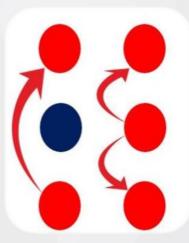
Market consolidation



New Business Models



Vertical Integration

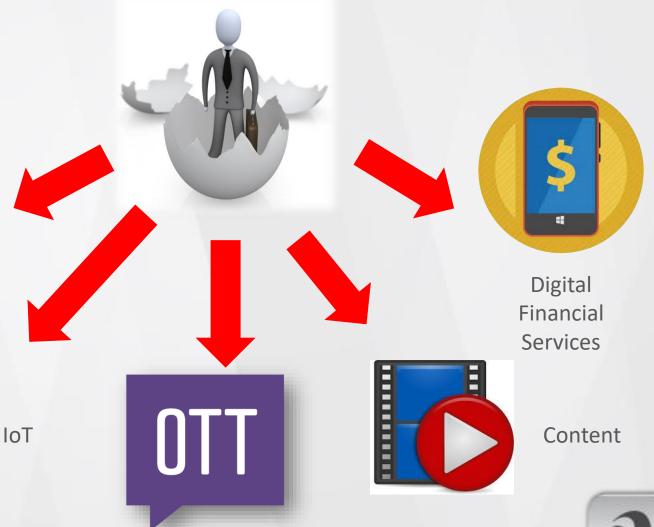




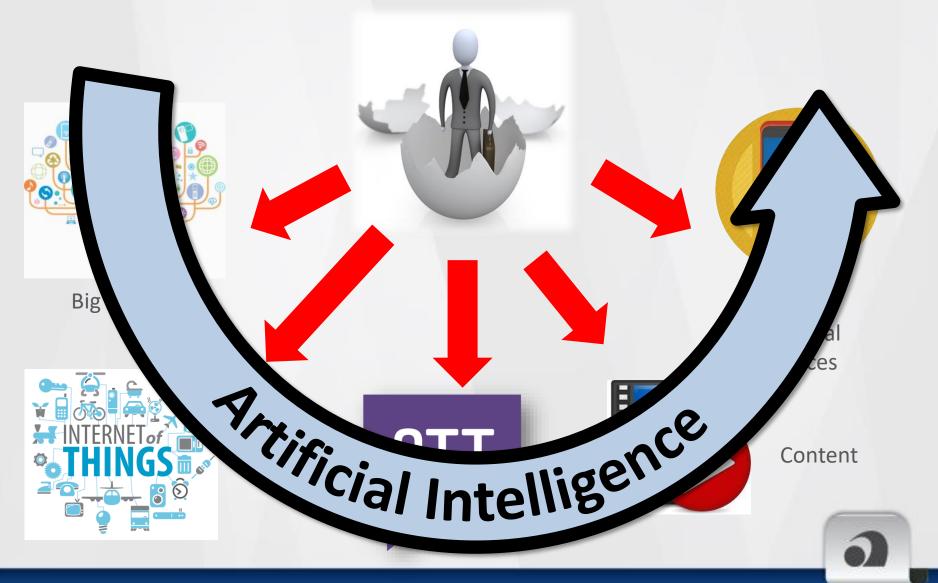
New Business Models...







New Business Models...



AI AND ICTS



AI and ICTS



Al is the theory and development of computer systems able to perform tasks that normally require human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages

Al and ICTS

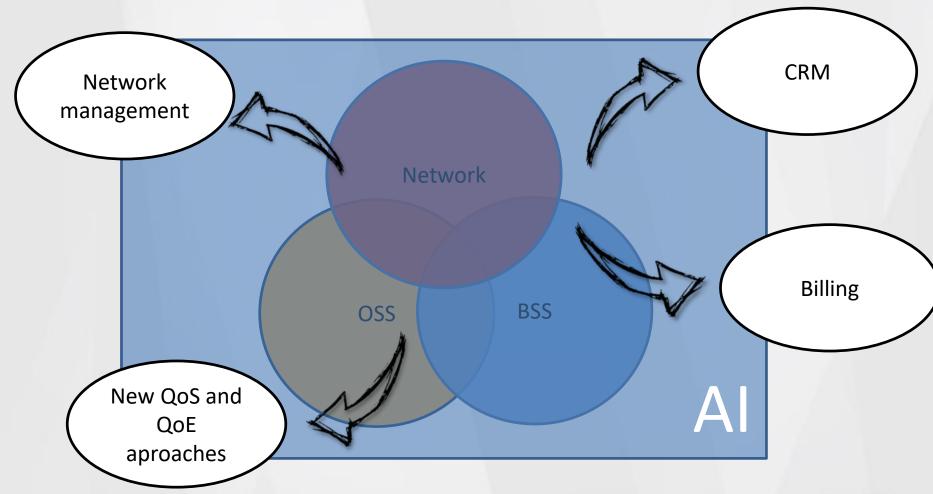


Al impacts ICTs in two major topics:

New processes and new approaches over legacy services and operations

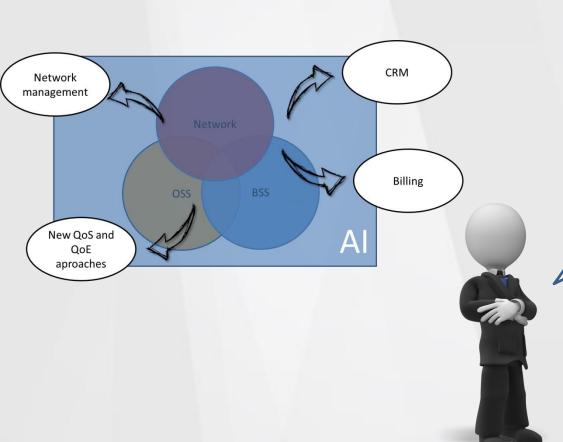
New applications and features

Legacy Services



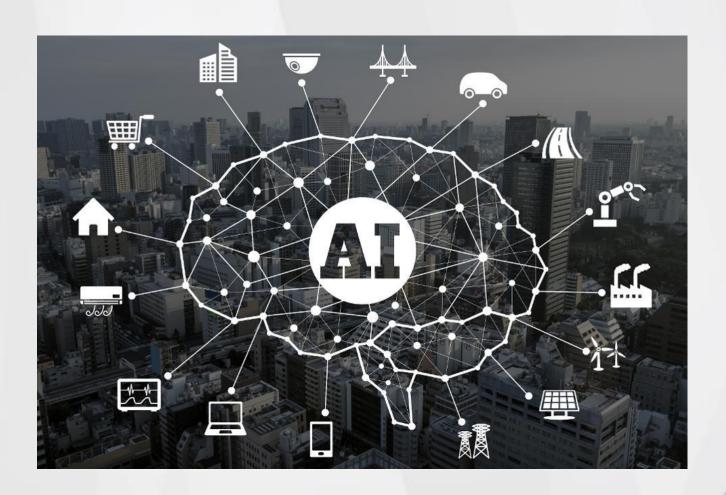


Legacy Services



Revision of Legacy
Regulation related to
operation aspects of
the provision of the
services

New Applications and Features







Company A offers Mobile Services with 5G, allowing the consumer to access traditional Data Services

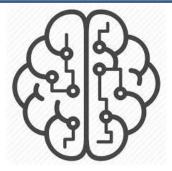


Company B offers facilities and applications of IoT in connected cars





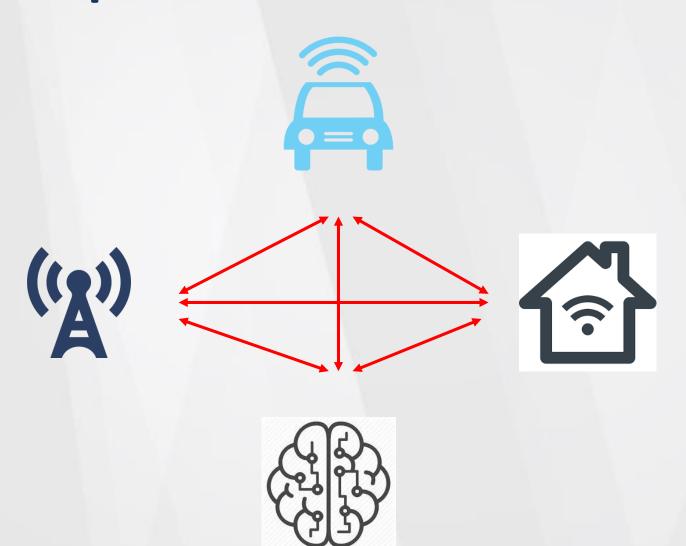
Company C integrates the houses with IoT devices, offering many solutions.

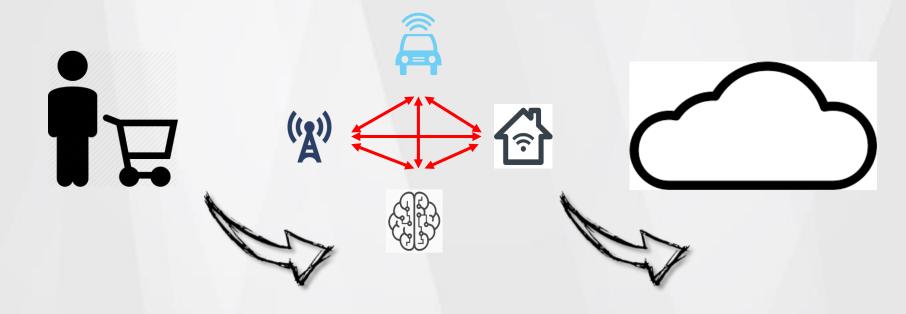


Company D offers a Personal Assistant, integrating all ICT services.













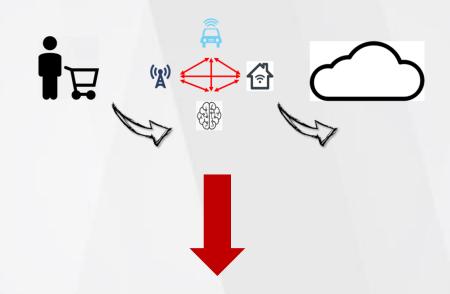
- This business case is based in high connectivity provided by the networks;
- High Big Data, and Al infrastructure;
- High personal data exchange;
- High level of relationship between the companies, which may be are competidors.
- Diferent ways of monetizaton.



Data, new essential facility?

New market Failures?

New boundaries of Services Provision?









Chalenges



- Actions facing new market failures
- Scope and Competence of the regulator
- Intersectoral interfaces
- International challenges

THANK YOU.

Abraão Balbino e Silva Superintendent of Competition Anatel / Brazil

