

Next Service Orchestrator Generation

Visions for Future Communications Summit; Lisbon, Portugal October 24th, 2017

> **Elisa Jimeno,** Aurora Ramos Atos Research and Innovation Telecom Sector



Your business technologists. **Powering progress**

What we do

Creating business advantages for clients with our global IT services

Atos is a leading player in global Information and Communications Technology services, software, platforms and payments solutions. With its deep technology expertise, Atos drives business progress for its clients to achieve measurable results.





Future networks

- "Hyper-connected world" driven to a better use of the network possibilities
- New orchestration requirements

 flexibility
- Anyone-Everywhere
- Balance investments from stakeholders
- Dynamically network process



Operating Networks and Services

- Interconnected world, automatically adapt infrastructure for smart services
- Big Data and Data Analytics
 - technology and business transformation
 - anticipate customers needs

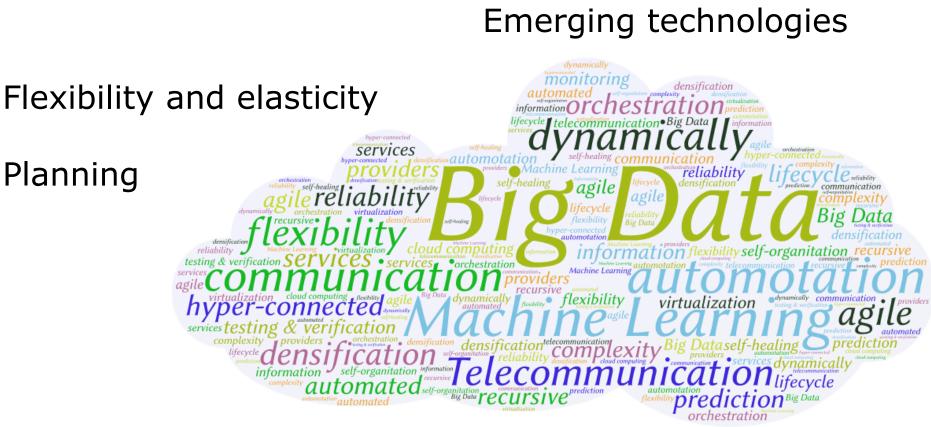


- 5G Digital transformation
 - vendors and providers
- Network complexity



XG vision- Terms

Prediction





Challenges

Service Communication products from wide range of stakeholders

- MANO architectures should be flexible
- Low cost: Onboarding, testing and verification
- Complexity in service lifecycle
- Agile working frequent incremental changes in an open and trusted manner
- Recursive deployment to support multitenancy
- OSS systems should evolve 3rd party service components interfaces





Automation!

Data analytics and Policies for network self-healing and selforganization:

- Policies will define operations for different domain controllers providing activation and remediation functions.
- Network self-healing will be a capability of OSS remediation and discrete and composite levels.
- **Self-organization** will be achievable through micro-service orchestration controlled by internal and external agents.
- **Monitoring use of network** will provide information about customer demand over large locations.
- Include new technologies, such as **Galileo navigation**, will gave new insights for the vertical sectors.





Densification vs Rural areas





- Developed countries but also developing ones
- Cost efficient deployment
- Use of spectrum
- Increase use of Backhaul





Greener communication



- Footprint
- New actors
 - Energy producers
 - IT companies
 - Brokers
- Interconnection of electricity networks
- Distributed Energy Resources (DERs)
- Forecast generation and consumption



Questions? Thanks



Elisa Jimeno elisa.jimeno@atos.net

Atos, the Atos logo, Atos Consulting, Atos Worldgrid, Worldline, BlueKiwi, Canopy the Open Cloud Company, Yunano, Zero Email, Zero Email Certified and The Zero Email Company are registered trademarks of Atos. July 2014. © 2014 Atos. Confidential information owned by Atos, to be used by the recipient only. This document, or any part of it, may not be reproduced, copied, circulated and/or distributed nor quoted without prior written approval from Atos.



