






# Organization and challenge's for Telecom operators with SDN

*Lyassine LAIDOUDI - CIO ATM MOBILIS*

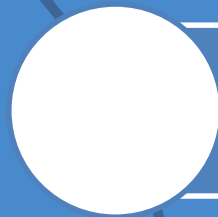
# Progress of SDN and NFV

- 
- SDN is moving to services
  - Reduce CAPEX/OPEX
  - Create new revenue opportunities

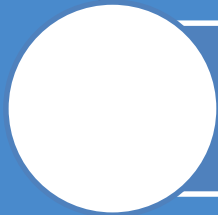
- 
- Requirements for performance and reliability
  - internal organization and process
  - Disruption of ICT ecosystem

---

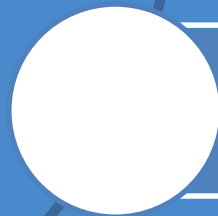
# Impact most operations functions



Processes



The entire operations model including processes, tools and technology,



People and organization needs to be redesigned

---

# Disruptive !

- “SDN and NFV are disruptive from a management perspective because they require a change at every level: in employee skillsets, process reengineering and automation, and new OSS capabilities”

Heavy Reading, September 2013

---

# Hot topics -1-

Activation  
and  
provisioning

- End-to-end orchestration via Management and Orchestration (MANO)

Change  
management

- Increased agility

# Hot topics -1-

Activation  
and  
provisioning

- In the NFV and SDN world, inventory management needs to be considered at the service, virtual network application, and resource level (Virtual Machines (VM) and physical server).

DevOps

- Operations is deeply involved with solution design and testing of end-to-end capabilities prior to the software drops in the production environment

---

# Hot topics -3-

Fault  
management

- Time To Repair (MTTR) can be greatly reduced.

SLA/OLA  
management

- End-to-end Service Quality Management (SQM)



---

# Conclusion

- ❑ Operations will need to evolve from service/operational silos to standardized cross services operations management.
- ❑ SDN / NFV will transform both CSP network architecture and the way telcos operate their networks, in the same way that IP and the Internet transformed the sector twenty years ago.