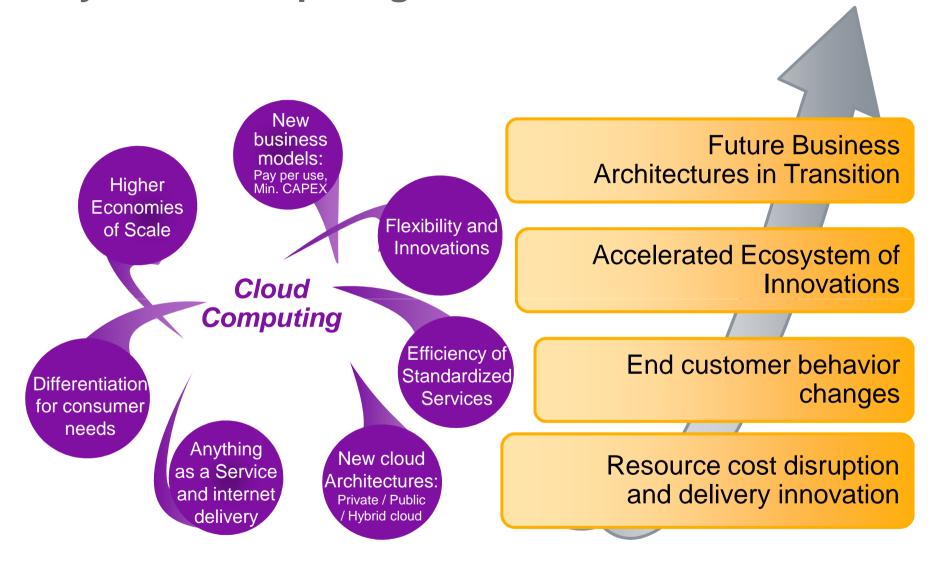
Cloud Computing and Telecommunications ETSI Workshop on Grids, Clouds and Infrastructures, December 2nd, 2009

Kari Rossi, <u>kari.rossi@nsn.com</u> Fellow

Operations and Business Software

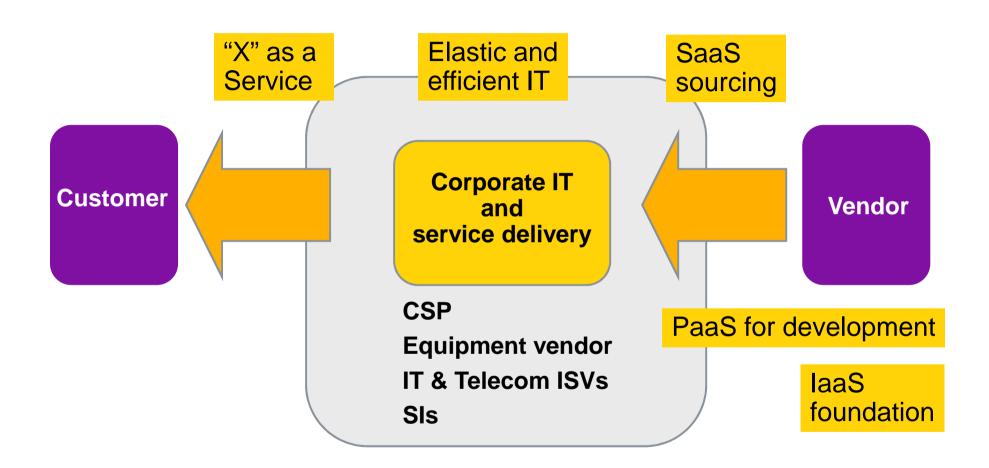


Why cloud computing is relevant?





Cloud computing and telecom stakeholders



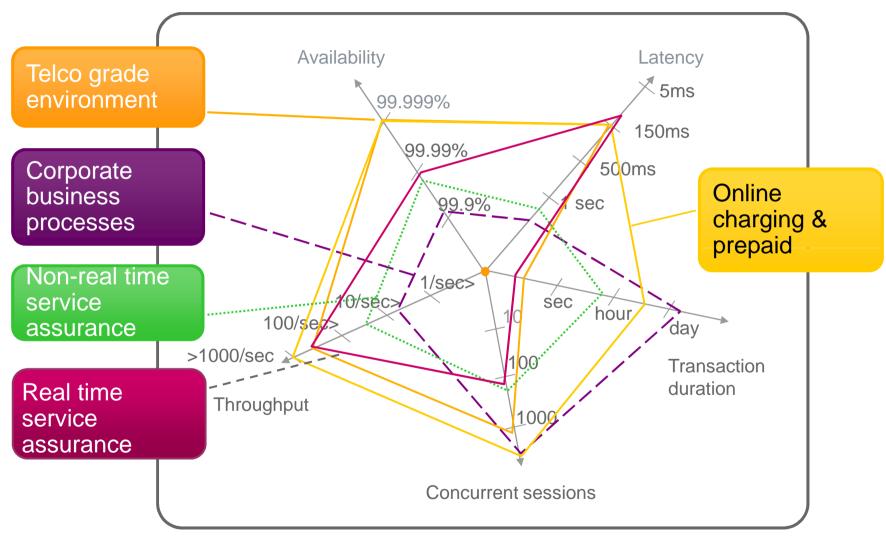


Cloud computing – telecom viewpoints

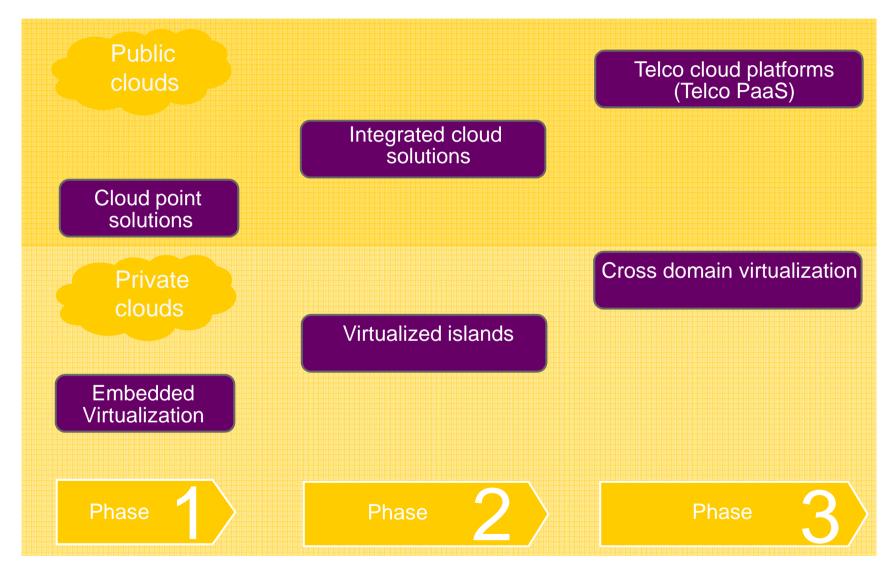
Internet based Services Helpdesk UI **Business Intelligence WEB 2.0** Mash Ups **Reporting Services** Helpdesk Services new services SaaŞ_{ortal UI} **Reporting UI Self Service Management** SOA **Business Services Access** Governance/Policy Operation Service Inventory and Access Control Operational Logging service **UDDI Registry** Management Integrated Data mining and Logging service efficiency Transaction Control Reporting/Mediation services **Business Processes Execution Business Processes** Elasticity / self deployment LAN Service Virtualization **Technology Storage** Application and Databases services on demand Storage on demand **Applications Dynamic computing resources allocation** network WAN Service **Databases Automated applications deployment Middleware Unified Servers** Seamless Network services and layout architecture Basic Security and IT Services.. Firewalls, Virus Protection, Monitoring,...



Telecom requirements for cloud computing



Cloud computing in telecom - outlook





Industry topics

Taxonomy – collaboration with other industry groups

- Several exist today
- Example: precise definition of the "private cloud"
- Possible telecom industry extensions e.g. is there a "telco cloud"

Costs of changing cloud providers should be reasonable

- Technology agnostic clouds
- Minimal set of standard (or de facto) cloud APIs e. g. vCloud API

Cloud computing regulations

- Private data
- Security
- Location

