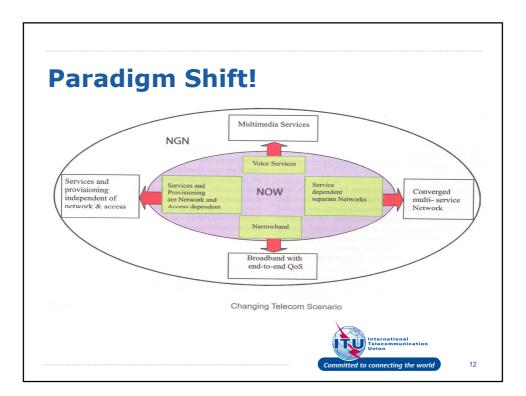
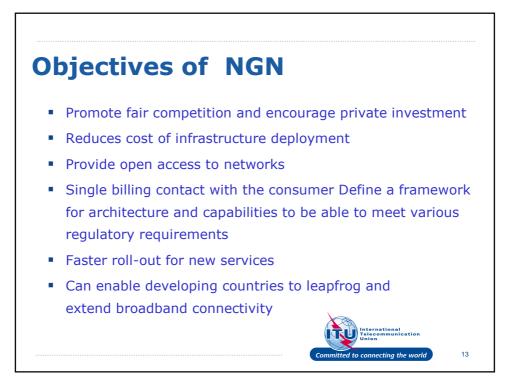


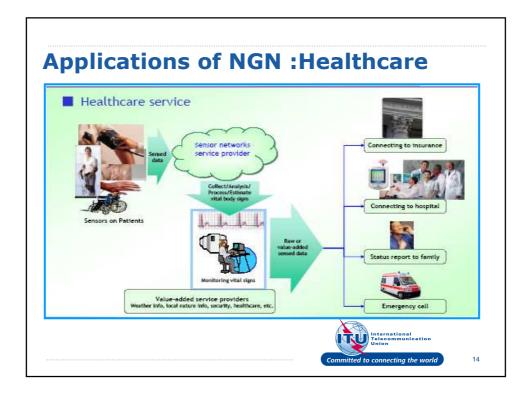
Why NGN?

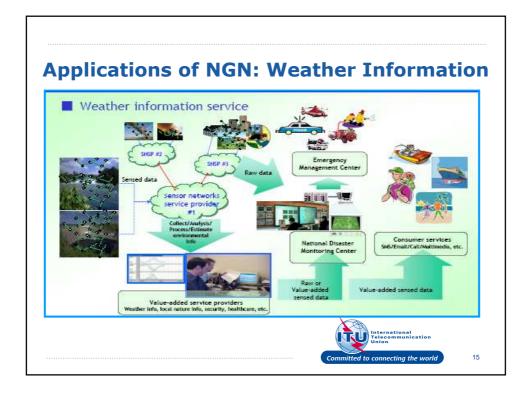
- The NGN concept takes into consideration new realities in the telecommunication industry characterized by factors such as the need to converge and optimize the operating networks and the extraordinary expansion of digital traffic (i.e. increasing demand for new multimedia services, increasing demand for mobility, etc.)
- NGN also aims to tackle important concerns raised from the use of current IP-based services: (i.e. QoS and Security)
- NGNs are an all-IP environment and can deliver both voice and data to any kind of device

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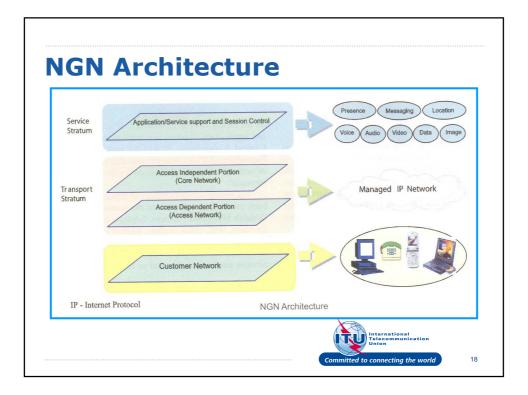


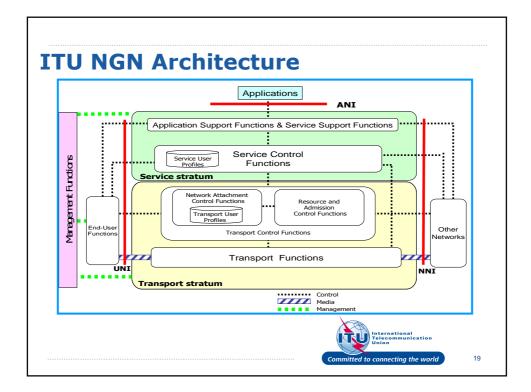
ITU Definition of NGN

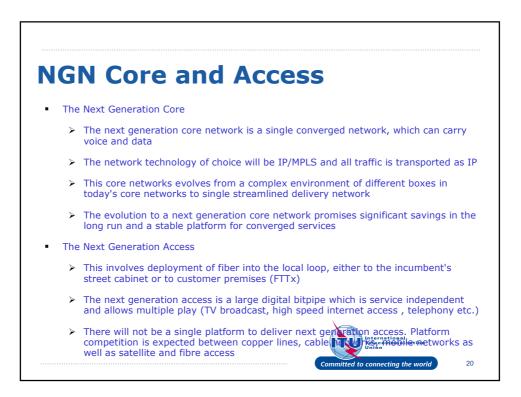
- A packet-based network able to provide telecommunication services and able to make use of multiple broadband, QoSenabled transport technologies and in which service-related functions are independent from underlying transport-related technologies
- Enables unfettered access for users to networks and to competing service providers and/or services of their choice
- Supports generalized mobility which will allow consistent and ubiquitous provision of services to users

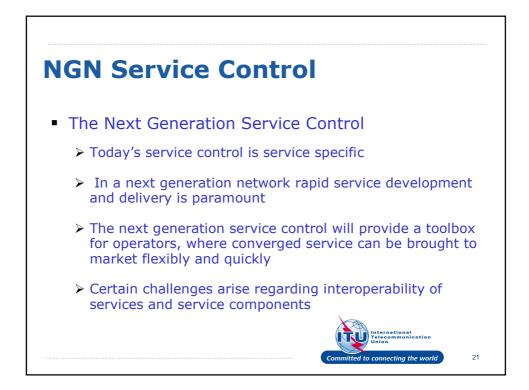
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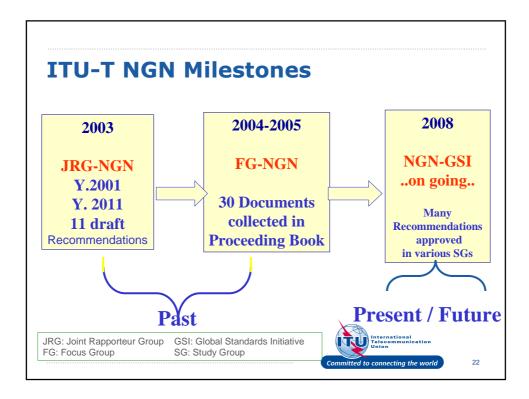
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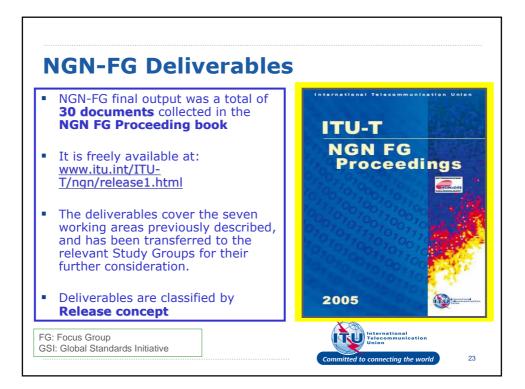


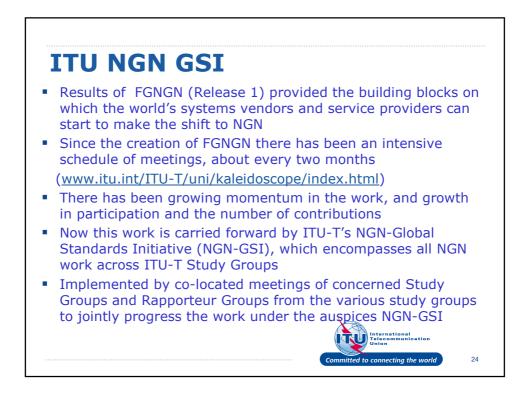










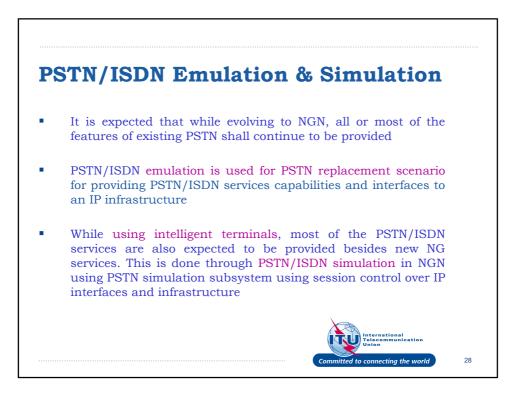


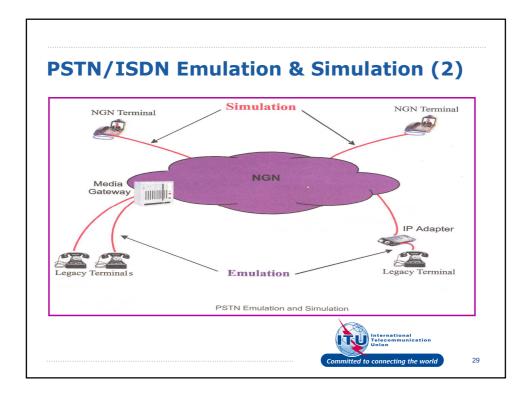




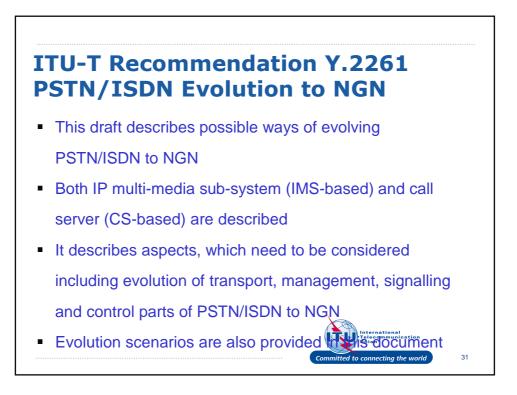
Evolution of PSTN/ISDN to NGN

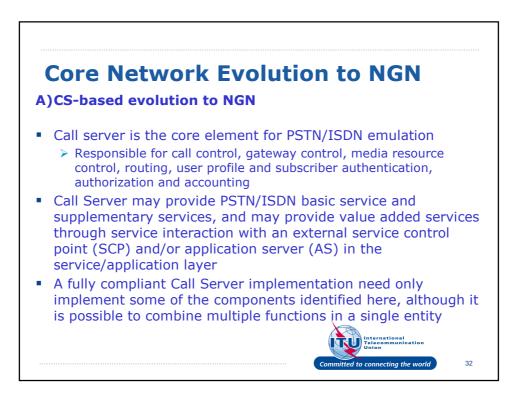
- NGN is believed to provide new opportunities for and capabilities to the network and service providers. Considering that existing networks have different life span and vast amount of capital has been spent on them, complete replacement of their components is not considered to be either advisable or possible. So, a phased approach should be considered for evolution of existing networks to NGN
- PSTN/ISDN (Public Switched Telephone Network/Integrated Services Digital Network) being one of the first networks, is considered to be prime candidate for evolution. For PSTN/ISDN evolution to NGN a phased approach is considered
- Different evolutionary Scenarios with PSTN/ISDN emulation (adaptation to IP infrastructure) and with PSDN/ISDN simulation (session control over IP interfaces and infrastructure) are presently under control over in ITU in order to provide reference for the evolution to NGN













- In order to prepare the circuit switched PSTN/ISDN for the evolution to a IP based Packet Switched Network and as an initial step some of the local exchanges are removed and all their functionalities such as control, accounting, etc. are transferred to those remaining LEs
- Affected User Access Module PABX, and Access Network are connected to the remaining LEs.
- Further consolidation occurs when User Access Modules become Remote User Access Modules which, are connected to the remaining LEs

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