



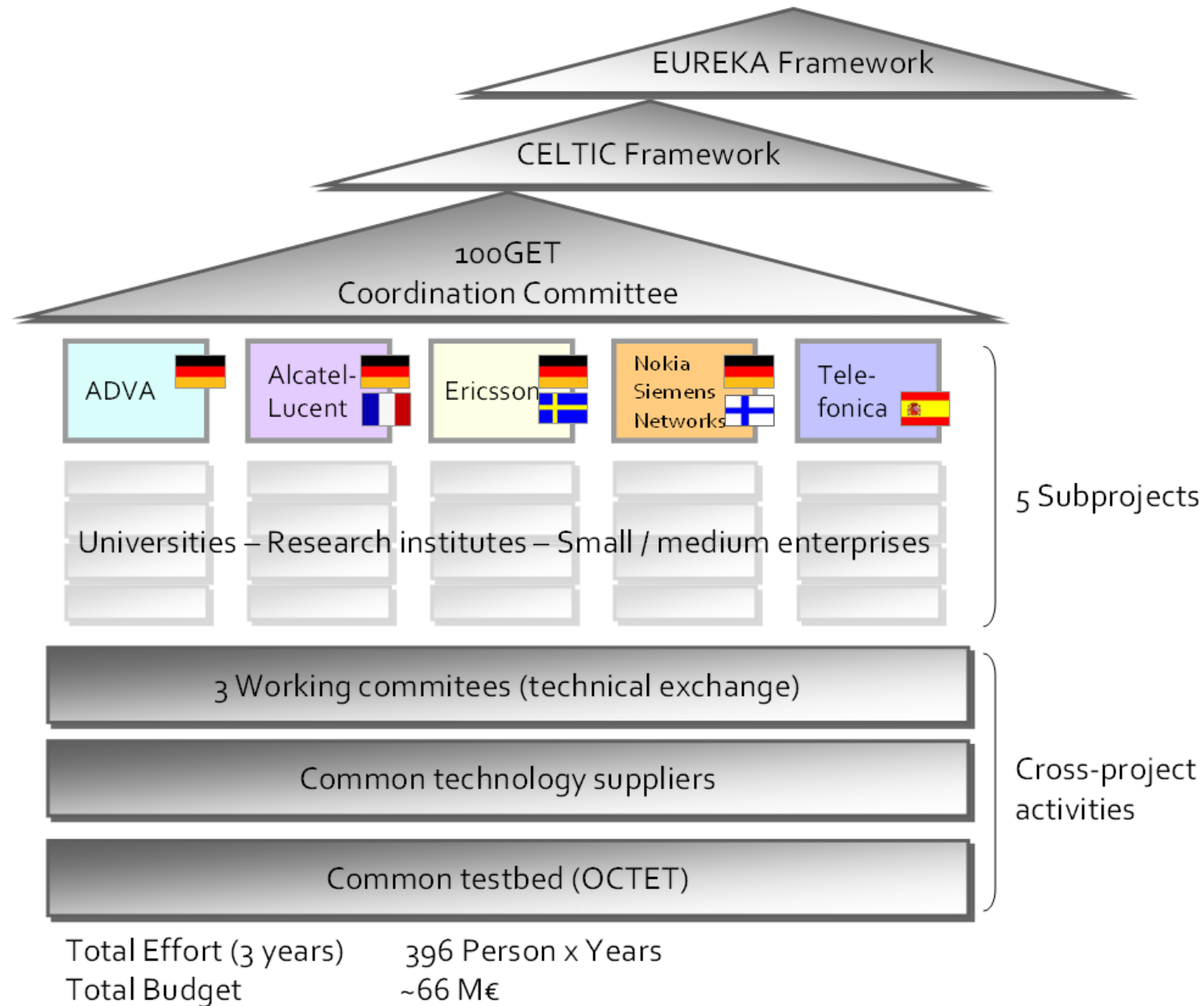
CELTIC Project 100 GET

Dr. Claus Gruber, Dr. Thomas Michaelis

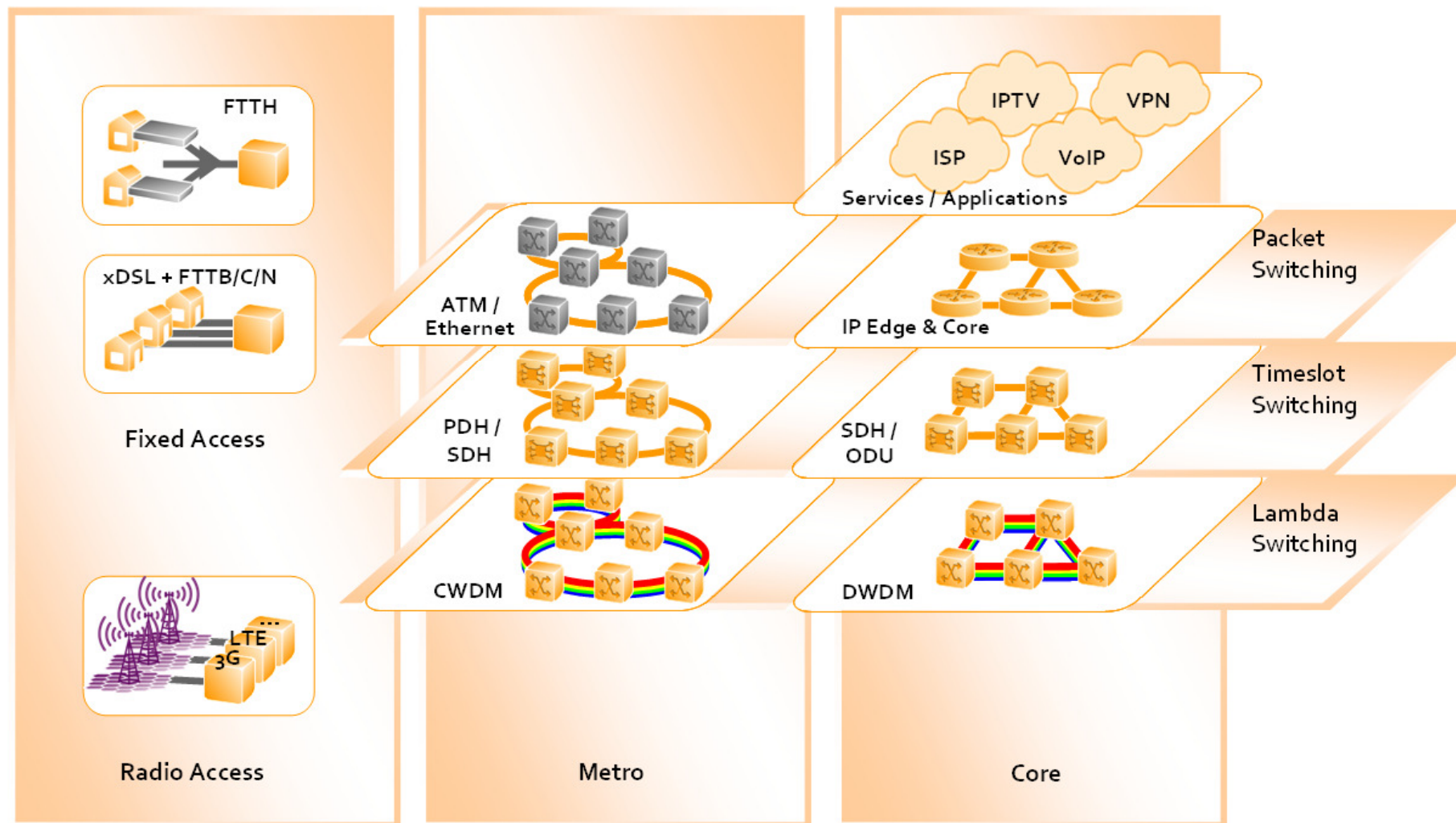
Nokia Siemens Networks – Research Technology & Platforms



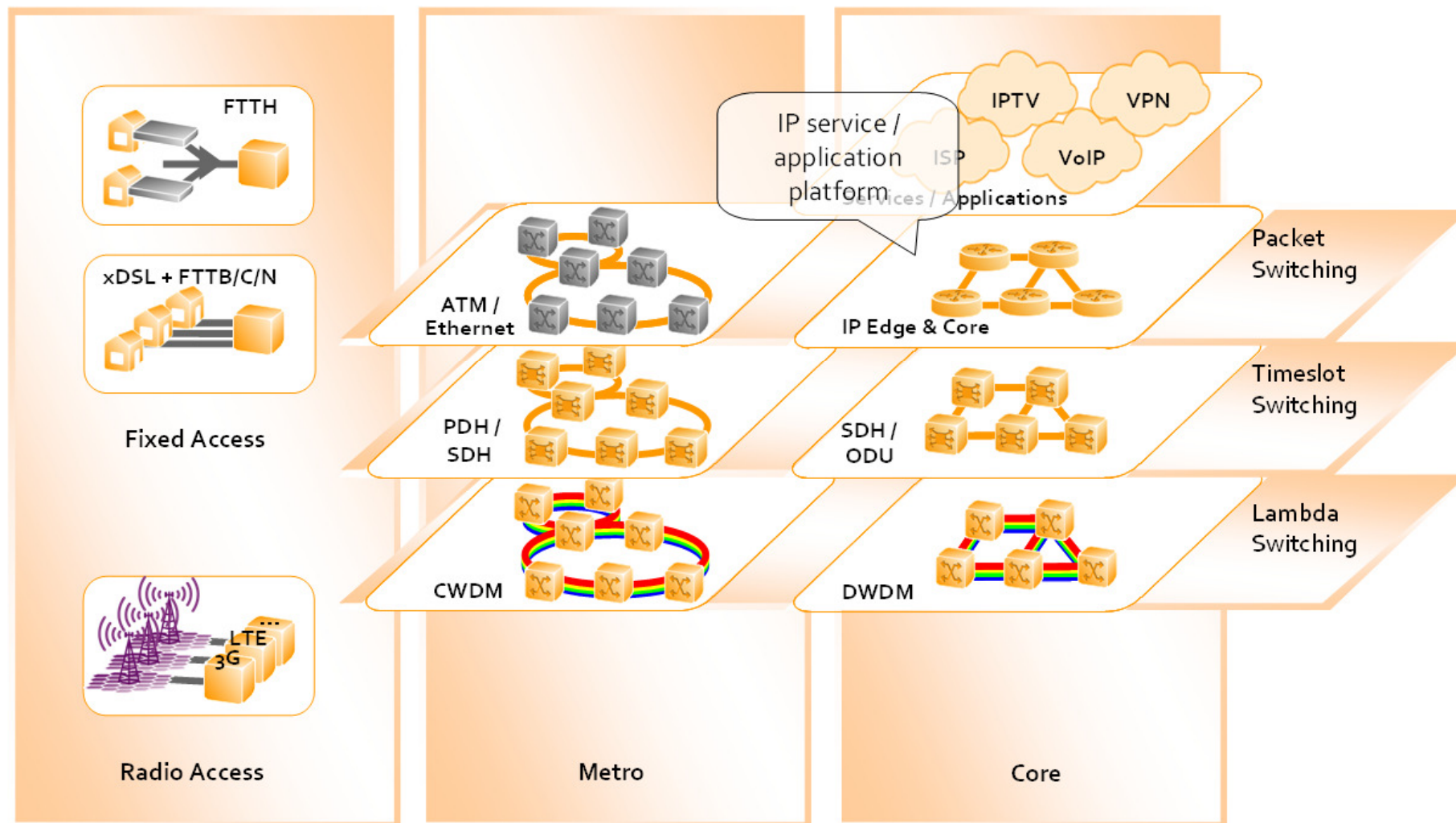
100GET – What is it?



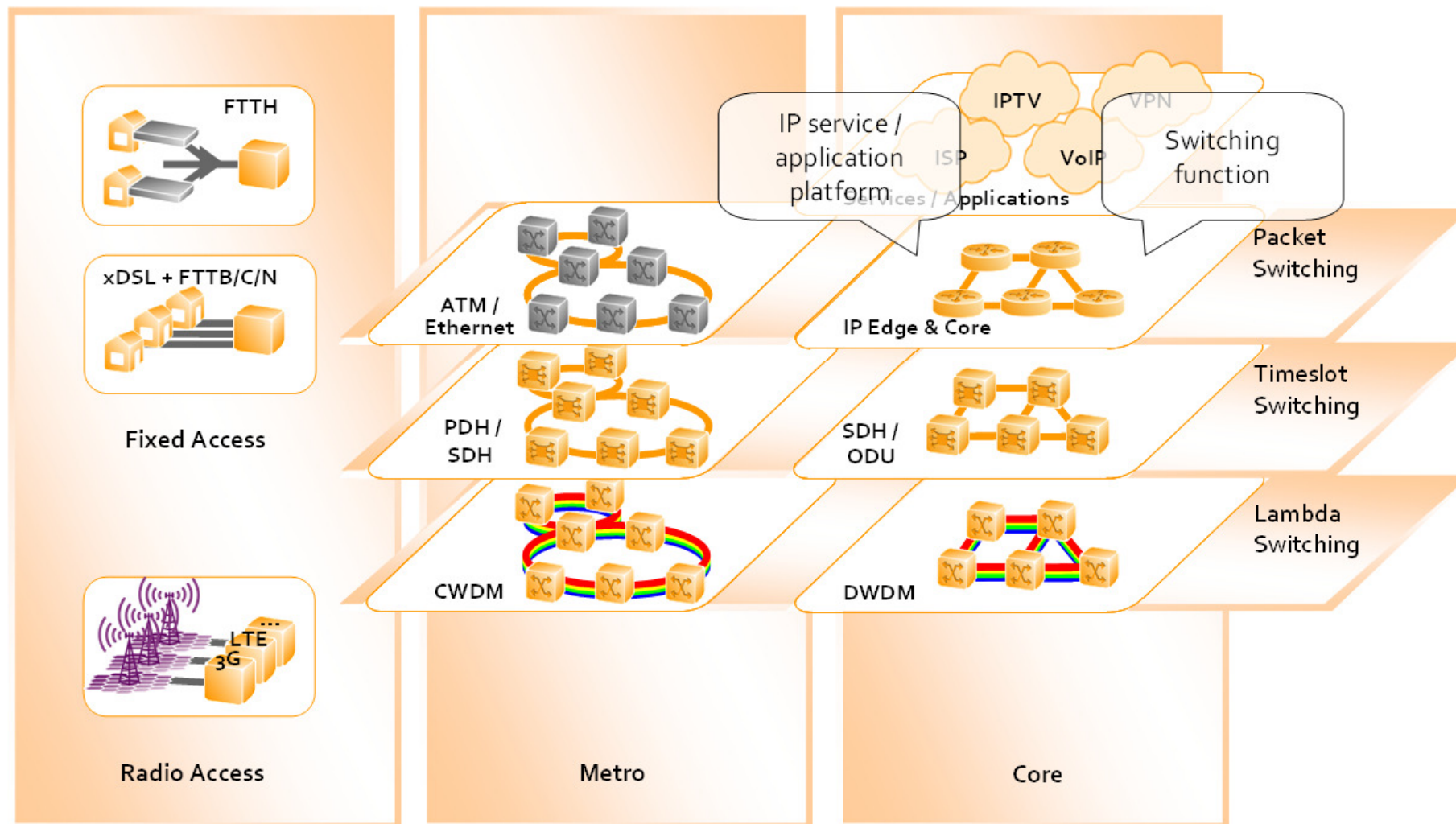
100GET – Vision and focus



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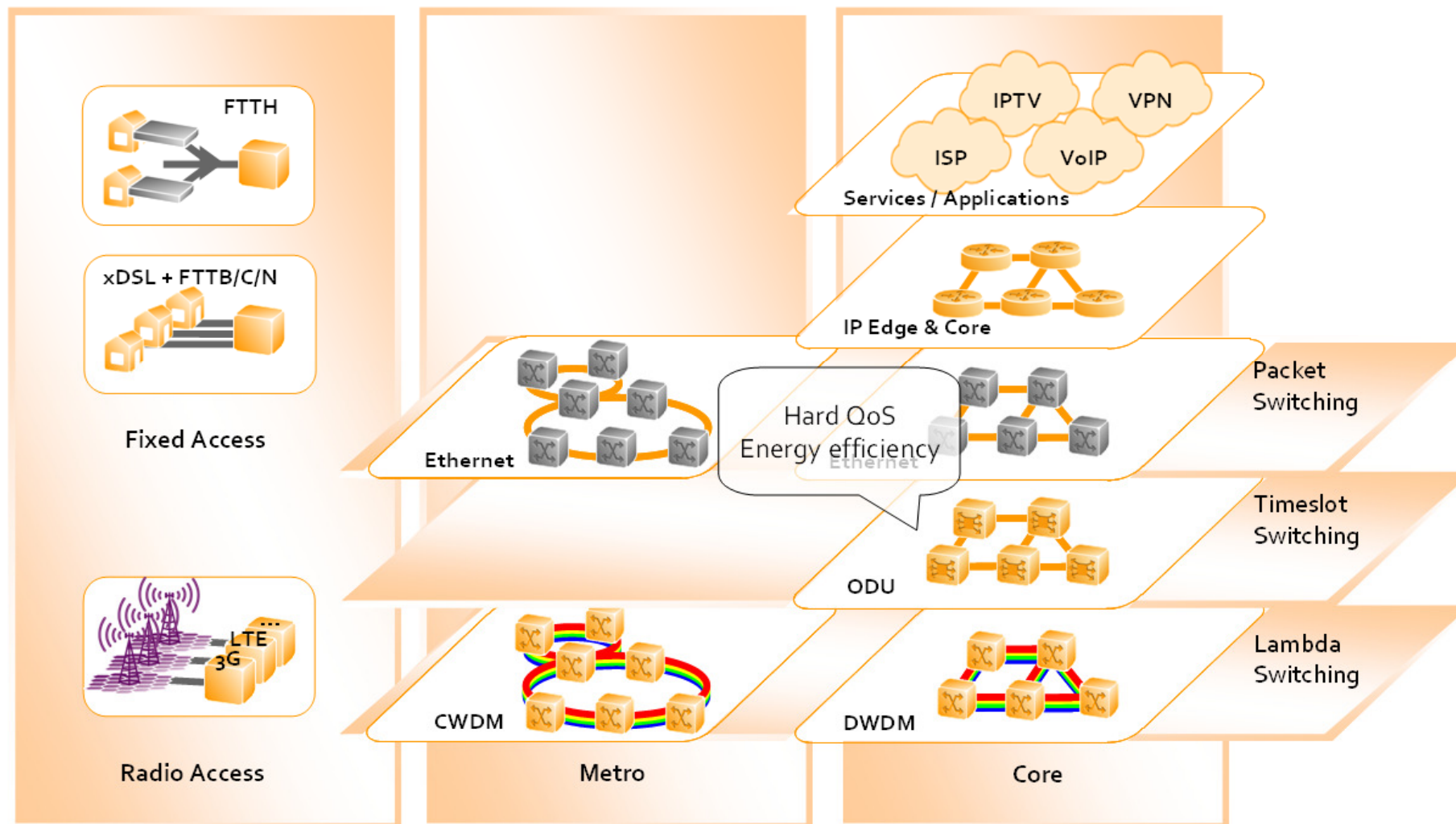


100GET – Vision and focus

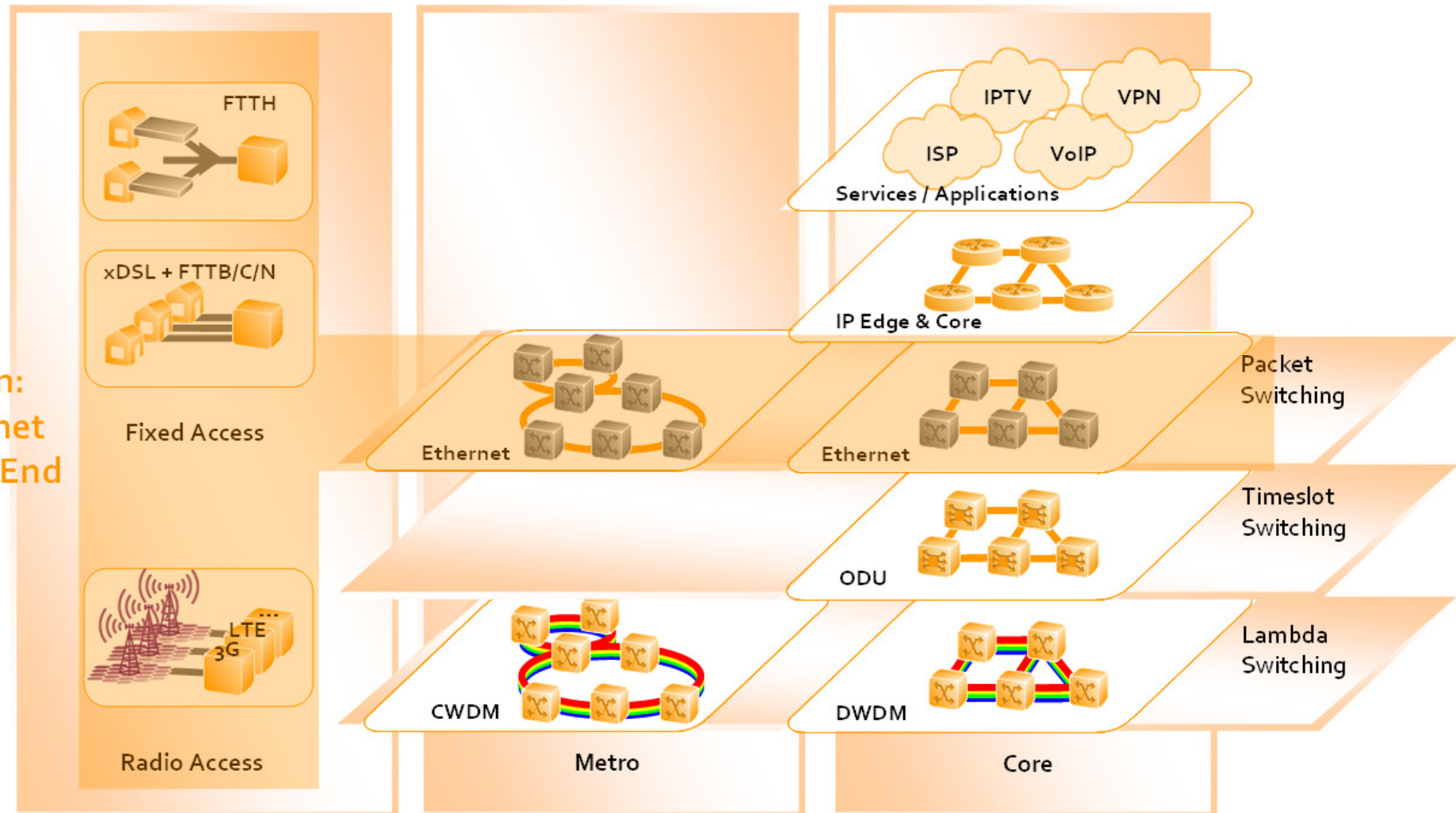




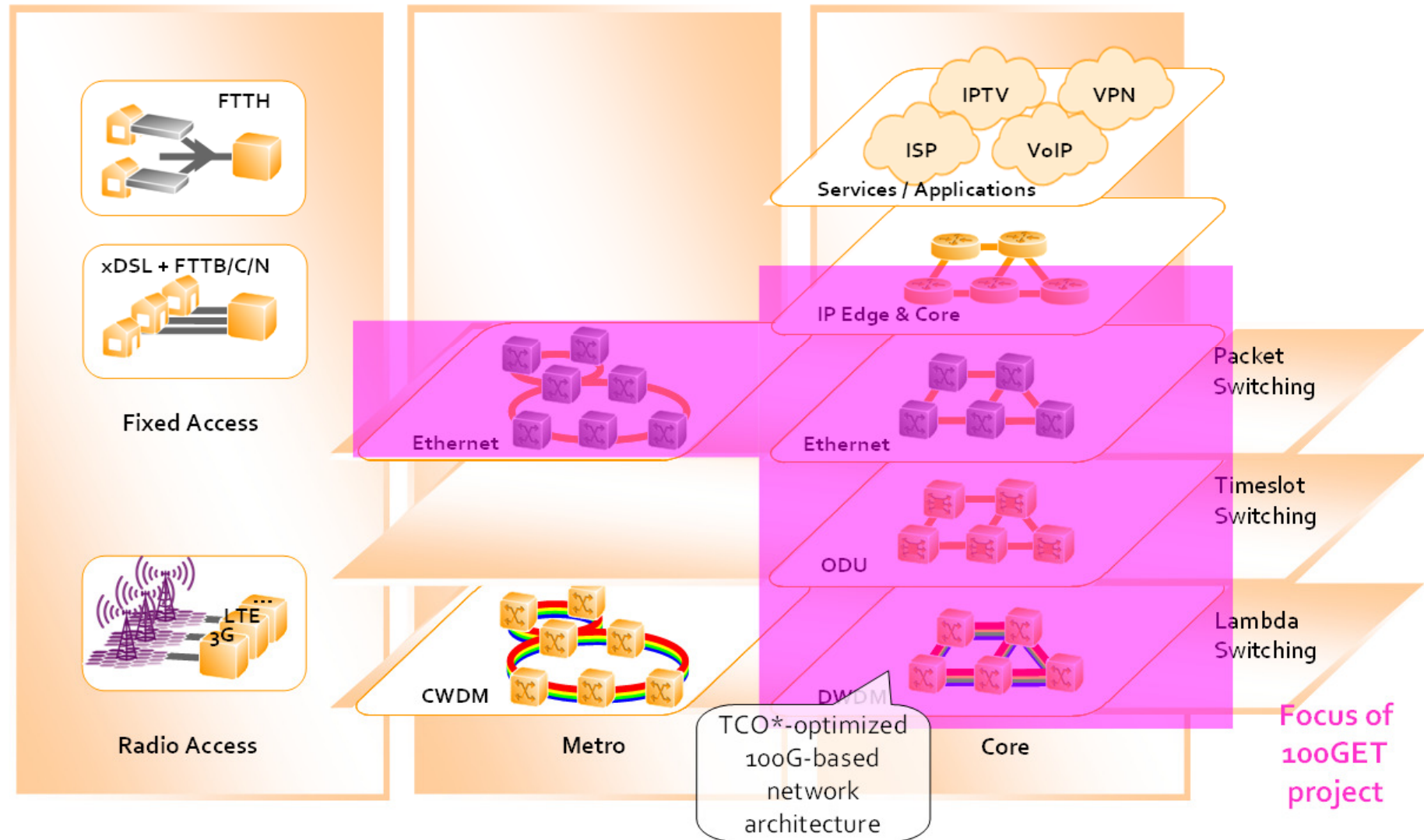
100GET – Vision and focus



Vision:
Ethernet
End-to-End



100GET – Vision and focus



- **Technologies, components and measurement technology**
 - Tunable CD and PMD compensation as well as compensation procedure for amplitude and phase disruptions
 - Optical components for the send and receive side
 - ETDM transmitters and receivers
 - Investigation/assessment of 100GbE measurement technology
- **System and transmission technology**
 - 100GbE optical transmission technology
 - 100GbE signal processing/subsystems
 - System integration
 - Test setup/transmission experiments
- **Network aspects and standardization**
 - Network architecture
 - Network control/management
 - Network planning, dimensioning, optimization, cost analysis
 - IEEE / ITU-T standardisation
- **Reference scenarios and test environment**
 - Network aspects (interworking, performance etc.)
 - Transmission-related experiments in the field
 - Testing of components and measurement technology in the field