Motivation

- Deal with increasing traffic and changing applications
- Adapt network structure and integrate fixed and mobile infrastructures
- Improve placement of intelligence in the network
- Enable an open environment for fixed and mobile networks

Objectives

- Define and develop Fixed Mobile Converged (FMC) architectures for future networks
- Demonstrate experimentally key FMC network features
- Influence standardization bodies with respect to FMC architectures

Benefits

- Unify hardware resources
- Save cost and energy
- Simplify network architectures
- Improve network operation and user experience
- Enable a 5G infrastructure with end-to-end management and orchestration capabilities

FIXED MOBILE NETWORK INTEGRATION

































FIXED MARILE NETWORK INTEGRATION

COMBO - COnvergence of fixed and Mobile BrOadband access/aggregation networks

Grant agreement no: 317762

http://www.ict-combo.eu/



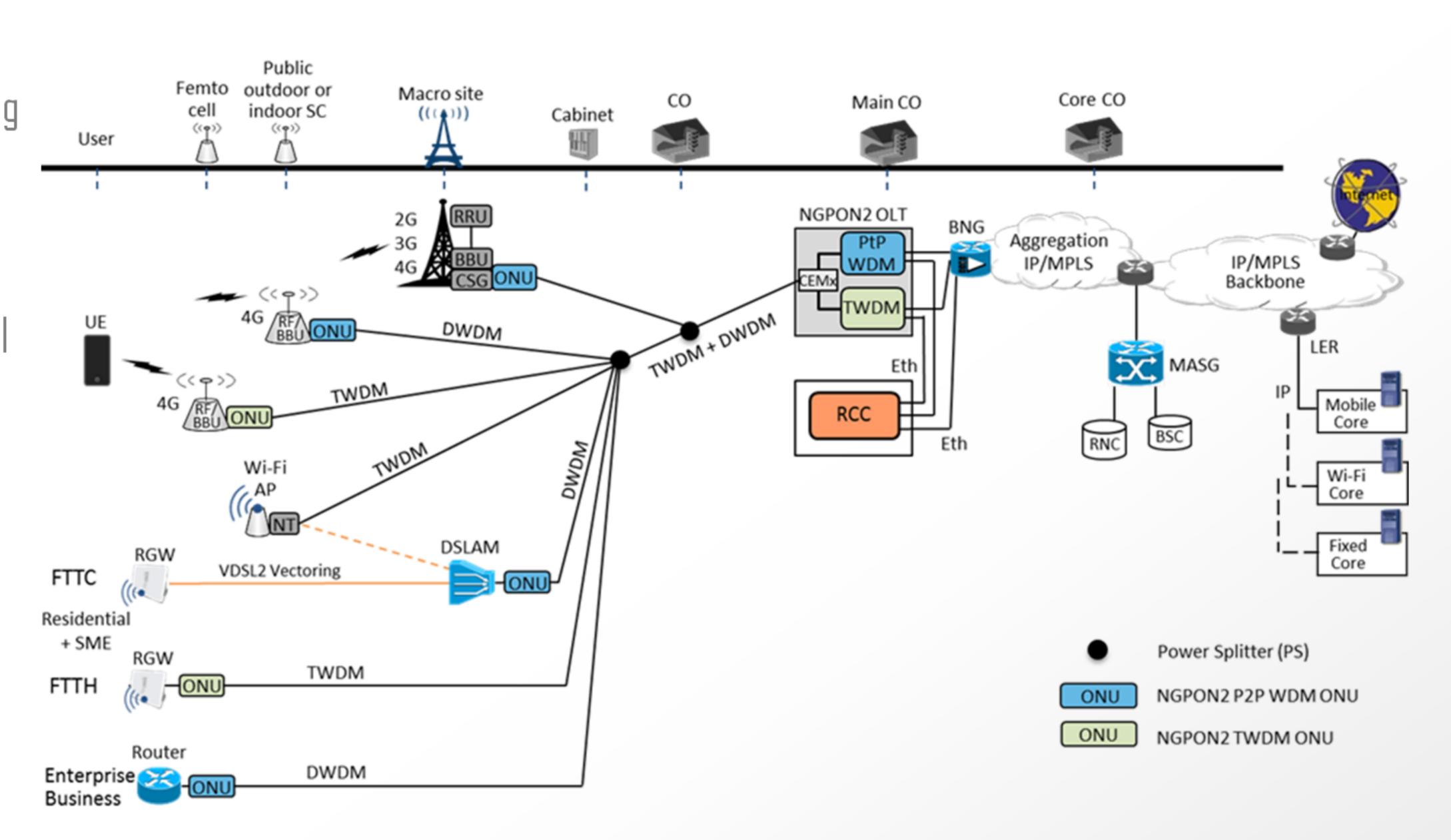






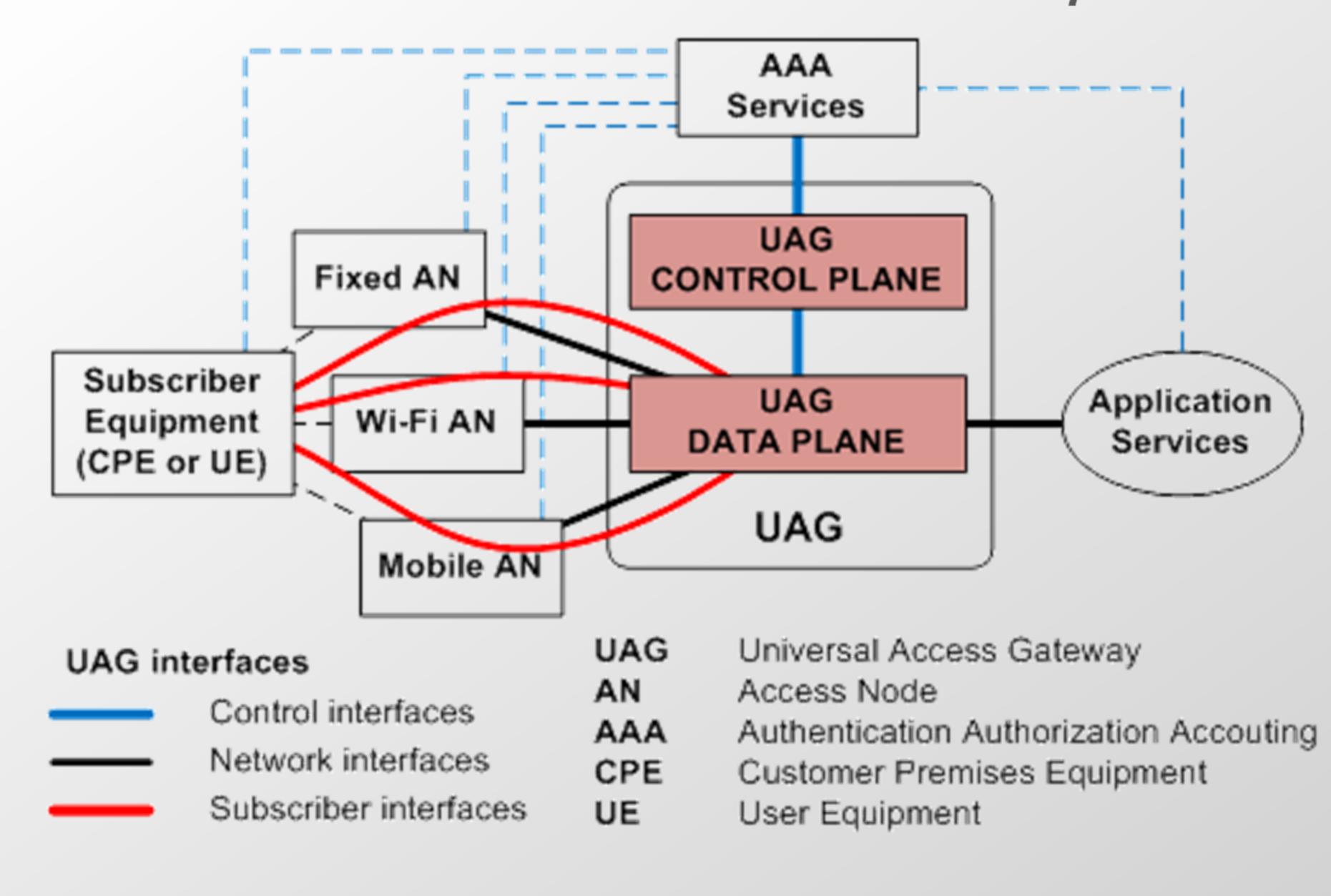
Structural convergence / Streamlining of transport

- Structural convergence is defined as pooling / sharing of network and infrastructure resources for fixed, mobile and Wi-Fi
- Structural convergence will be triggered by heterogeneous RANs, mobile fronthaul and Centralized RAN
- A unified optical access / aggregation network with low latency and high capacity will foster structural convergence



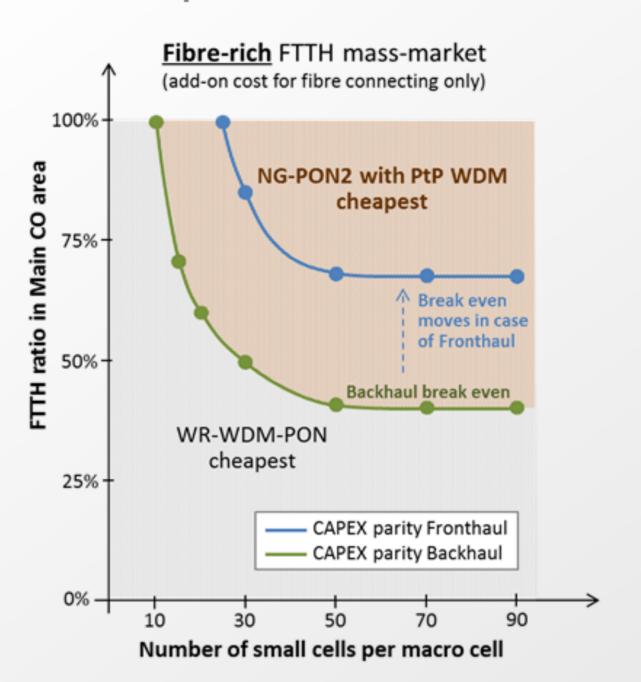
Functional convergence / Universal Access Gateway

- Functional convergence is the implementation of generic functions to realize similar goals in fixed, mobile and Wi-Fi. It will rely on:
- ➤ Universal Authentication (uAUT)
- Universal Data Path Management (uDPM)
- Universal Access Gateway (UAG) as a common subscriber IP edge

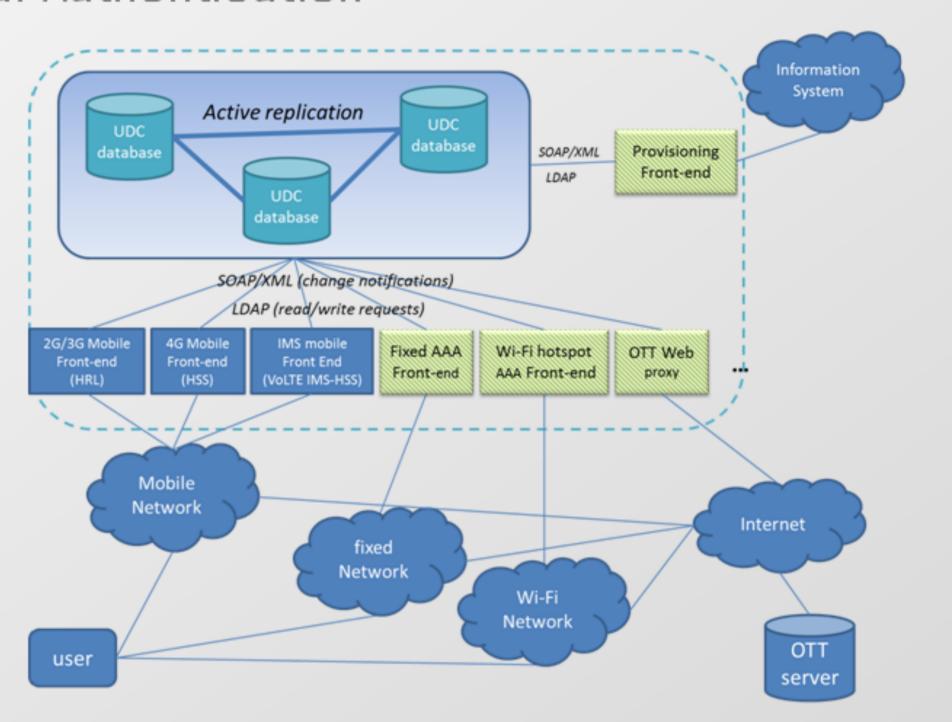


Key outcomes

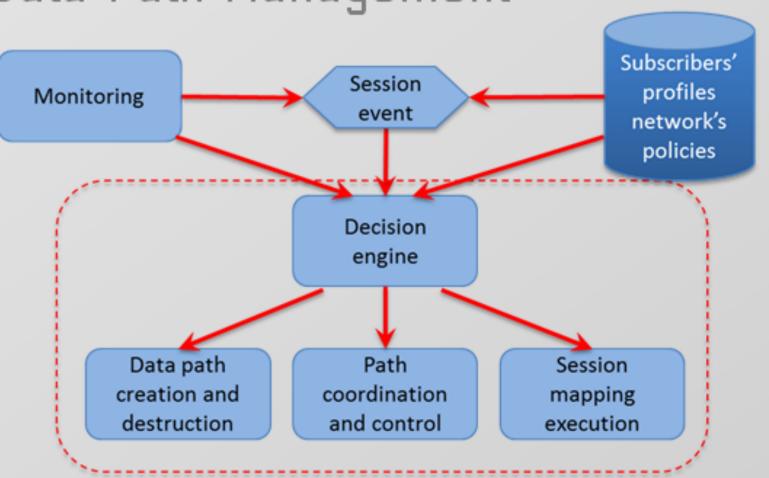
Streamlining of transport



Universal Authentication



Universal Data Path Management



Experimental developments for UAG embodiment

