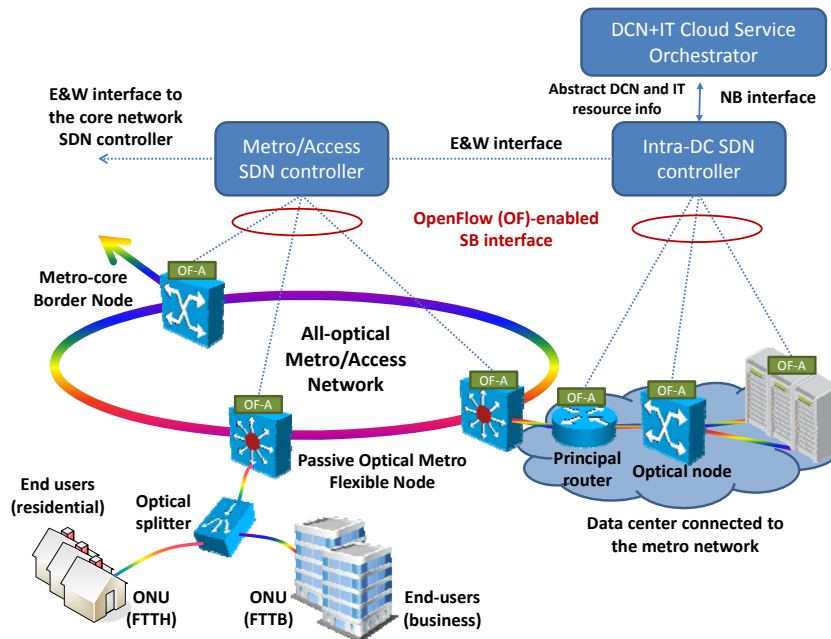


### SUNSET Project objectives

1. Modulation techniques for an increase factor of 10 in transmission data rate in metro-access networks (from 0.1bit/Hz/s to 1-4bit/Hz/s) using currently commercial components.
2. Contribution to the development of the control plane software following the SDN paradigm for the control and management of the underlying optical transport nodes.
3. Research on Software Defined Transmitters, Receivers and Nodes.
4. Contribution to the design, implementation and experimental evaluation of the SDN-based control framework of the overall SUNSET scenario.
5. Contribution to abstraction models of access/metro and data center network resources.
6. Contribution to the design, implementation and experimental validation of orchestration algorithms.
7. Contribution to Conceiving, Designing and Developing of Nanomaterial-based Photonic Networks-on-chip.



SUNSET Project network scenario