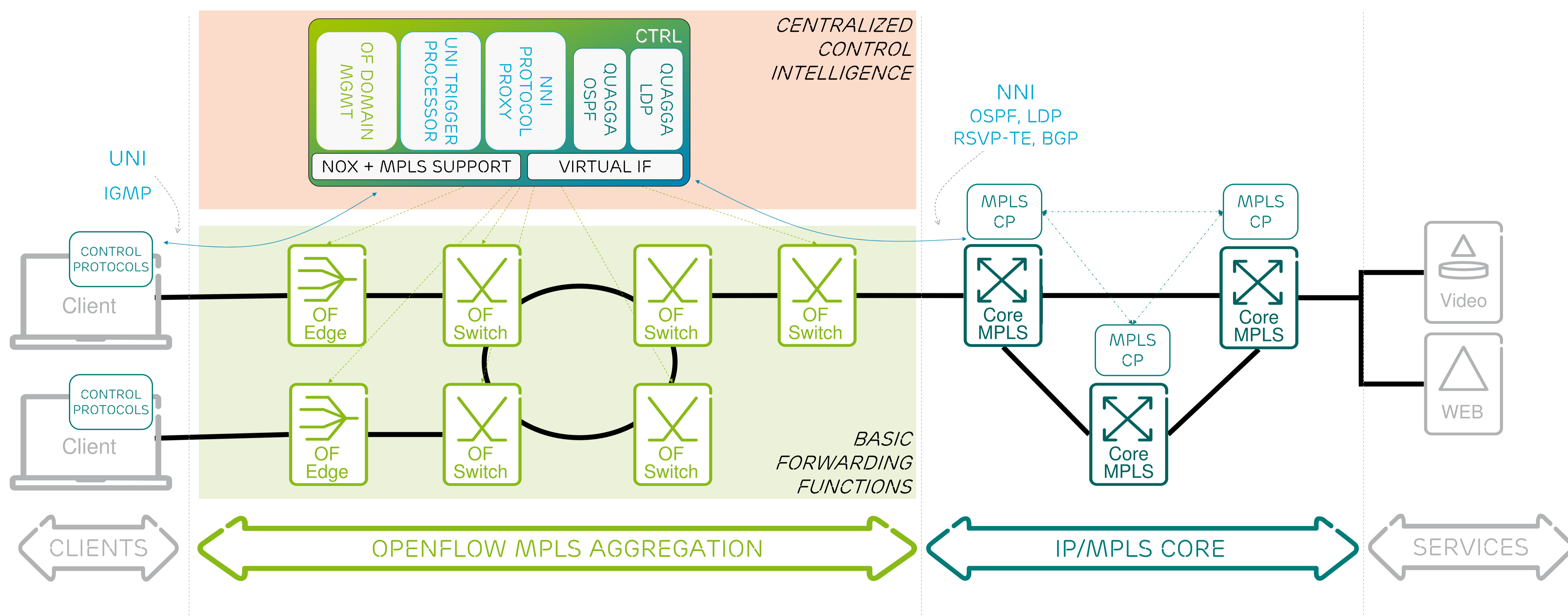


SPLIT ARCHITECTURE FOR CARRIER GRADE NETWORKS



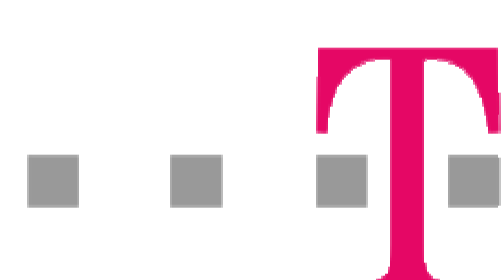
SPLIT CONTROL OF LOW-COST AGGREGATION

- ENHANCED FLEXIBILITY BY CENTRALIZING INTELLIGENCE
- STANDARD & OPEN INTERFACES
- INTERACT WITH LEGACY CONTROL PLANES
- TRADE-OFFS BETWEEN CENTRALIZED AND DISTRIBUTED FUNCTIONS



THE SP/ARC PROJECT

The consortium



Deutsche Telekom



- IDENTIFY KEY USE CASES AND BUSINESS SCENARIOS
- DEFINE SCALABLE SPLIT CONTROL ARCHITECTURE
- PROTOTYPE THE ARCHITECTURE WITH ESSENTIAL PROTOCOL EXTENSIONS
- DO FUNCTIONAL AND FEASIBILITY MEASUREMENTS

PROTOTYPING

- MPLS OPENFLOW CONTROLLER
 - MANAGES MPLS OPENFLOW SWITCHES
 - INTERACTS WITH IP/MPLS CONTROL PLANE
 - OAM & PROTECTION FUNCTIONS IN DATA PLANE
- PROOF-OF-CONCEPT PROTOTYPE DEMONSTRATIONS
 - GENI ENGINEERING CONFERENCE IN US: MARCH 2011
 - FUTURE INTERNET ASSEMBLY IN HUNGARY: MAY 2011
 - IPOP CONFERENCE IN JAPAN: JUNE 2011

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