



# STRAUSS Overview

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**STRAUSS**

The logo for STRAUSS, consisting of the word "STRAUSS" in a bold, blue, sans-serif font, with a thick, dark blue, wavy underline that extends to the right.

# Project facts and consortium

## \* Project Facts

- \* Start Date: 1/6/2013
- \* Duration: 36M
- \* EU Funding: 1.49 M€
- \* JP Funding: 2.82 M€

## \* EU CONSORTIUM

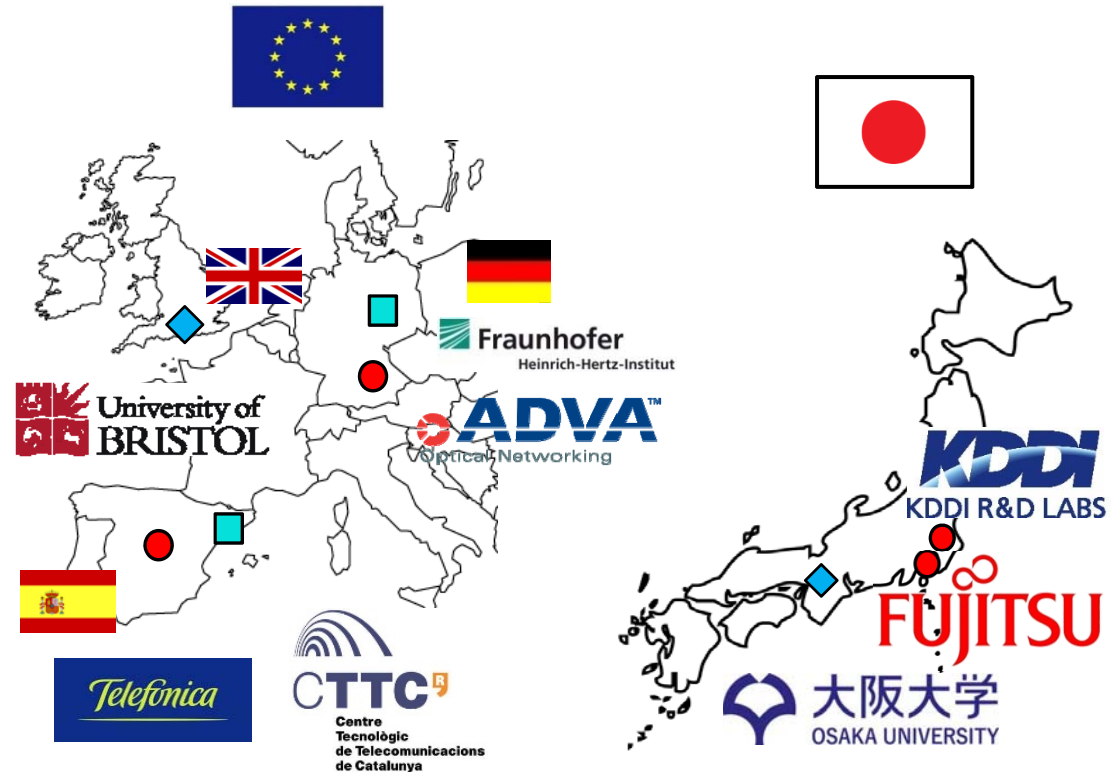
- \* CTTC (ES)
- \* ADVA Optical Networking (DE),
- \* Telefónica I+D (ES)
- \* University of Bristol (UK)
- \* Fraunhofer – HHI (DE)

## \* JP CONSORTIUM

- \* Osaka University
- \* KDDI R&D Laboratories Inc.
- \* Fujitsu Ltd.

## \* Contact:

- \* Raul Muñoz, CTTC
- \* Ken-ichi Kitayama, Osaka University



- Industrial Partners
- Research Centers
- ◆ Universities



[www.ict-strauss.eu](http://www.ict-strauss.eu)

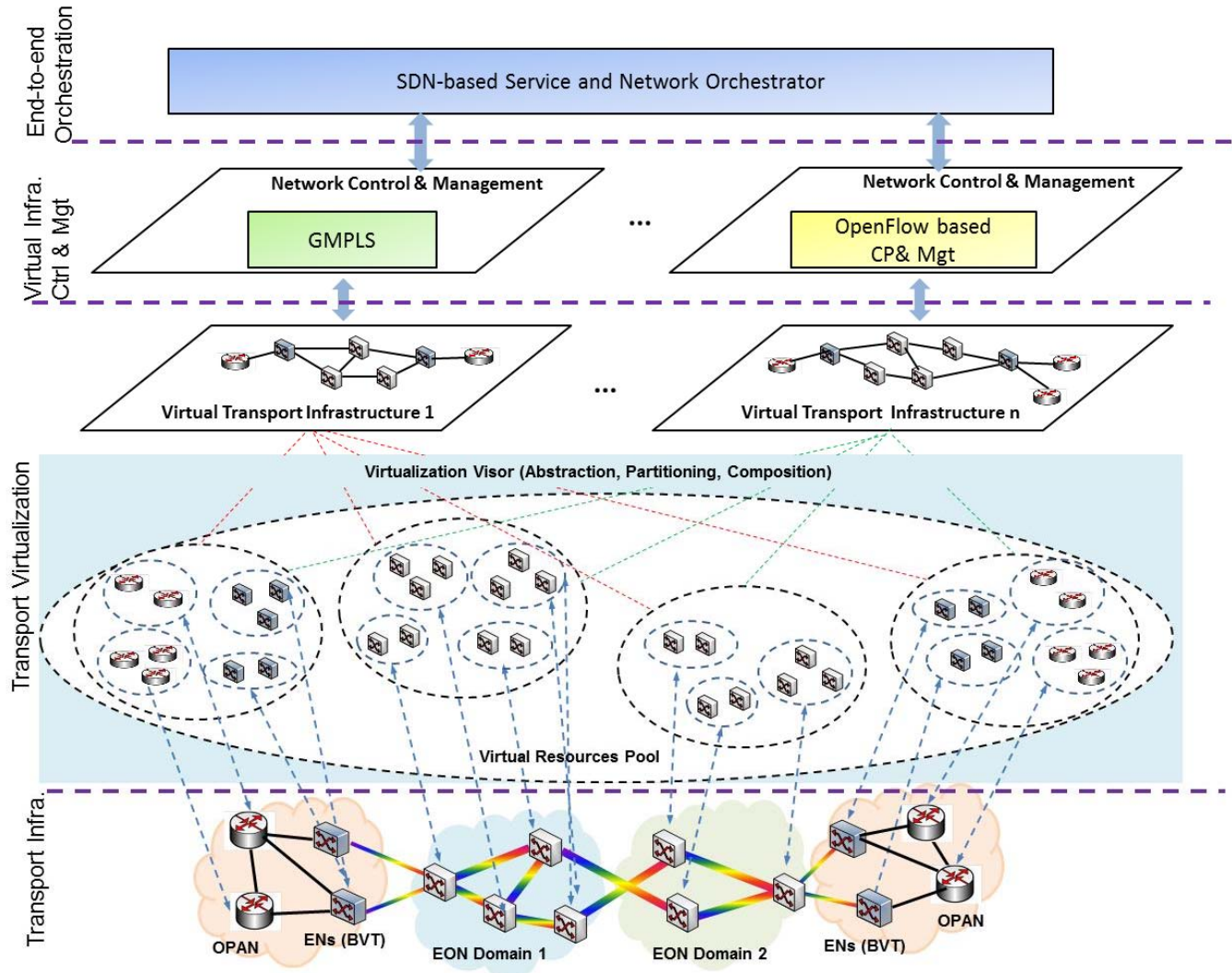


@ICTstrauss

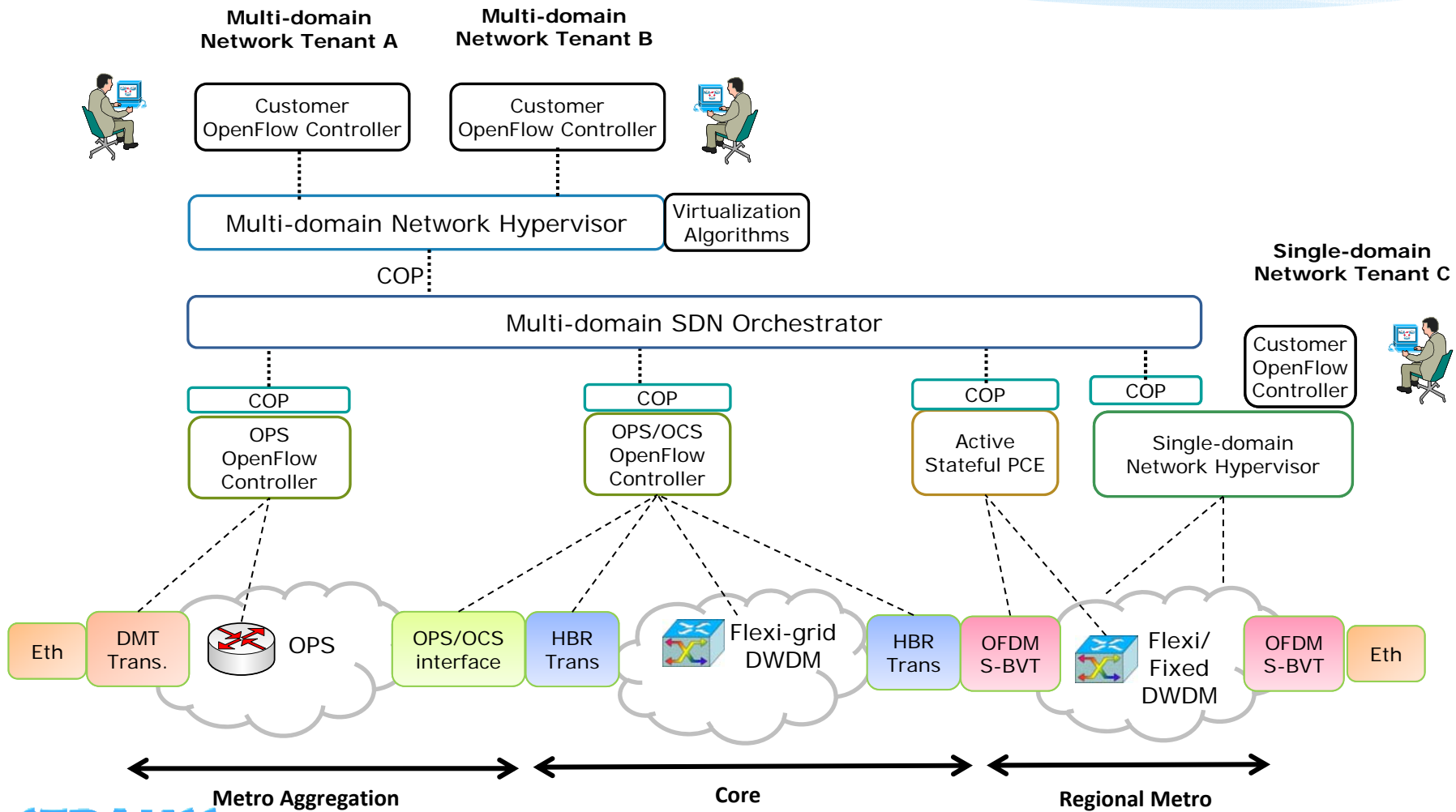
# Project Objectives

- \* The STRAUSS project focuses on the design, development and integration of:
  - \* Highly integrated and **scalable software defined optical transceivers** supporting bandwidth variable multi-flows for flexible Ethernet transmission based on OFDM and DMT.
  - \* **Flexi-grid DWDM optical circuit switching node architectures** for long haul transport.
  - \* Cost/energy efficient and extremely fast-performing switching node architectures based on **variable-capacity and fixed-length optical packet switching** technology for access and aggregation networks, and **OPS/OCS integrated interface**.
  - \* A virtualization layer for dynamic and on-demand partitioning of the optical infrastructure, offering **virtual optical networks** .
  - \* Control plane architectures based on either legacy (e.g. GMPLS) and new (e.g. OpenFlow based) approaches for the **control and management of virtual optical networks**.
  - \* A **service and network orchestration layer** for the interworking and coordination of heterogeneous control planes and transport technologies to offer end-to-end Ethernet transport services.

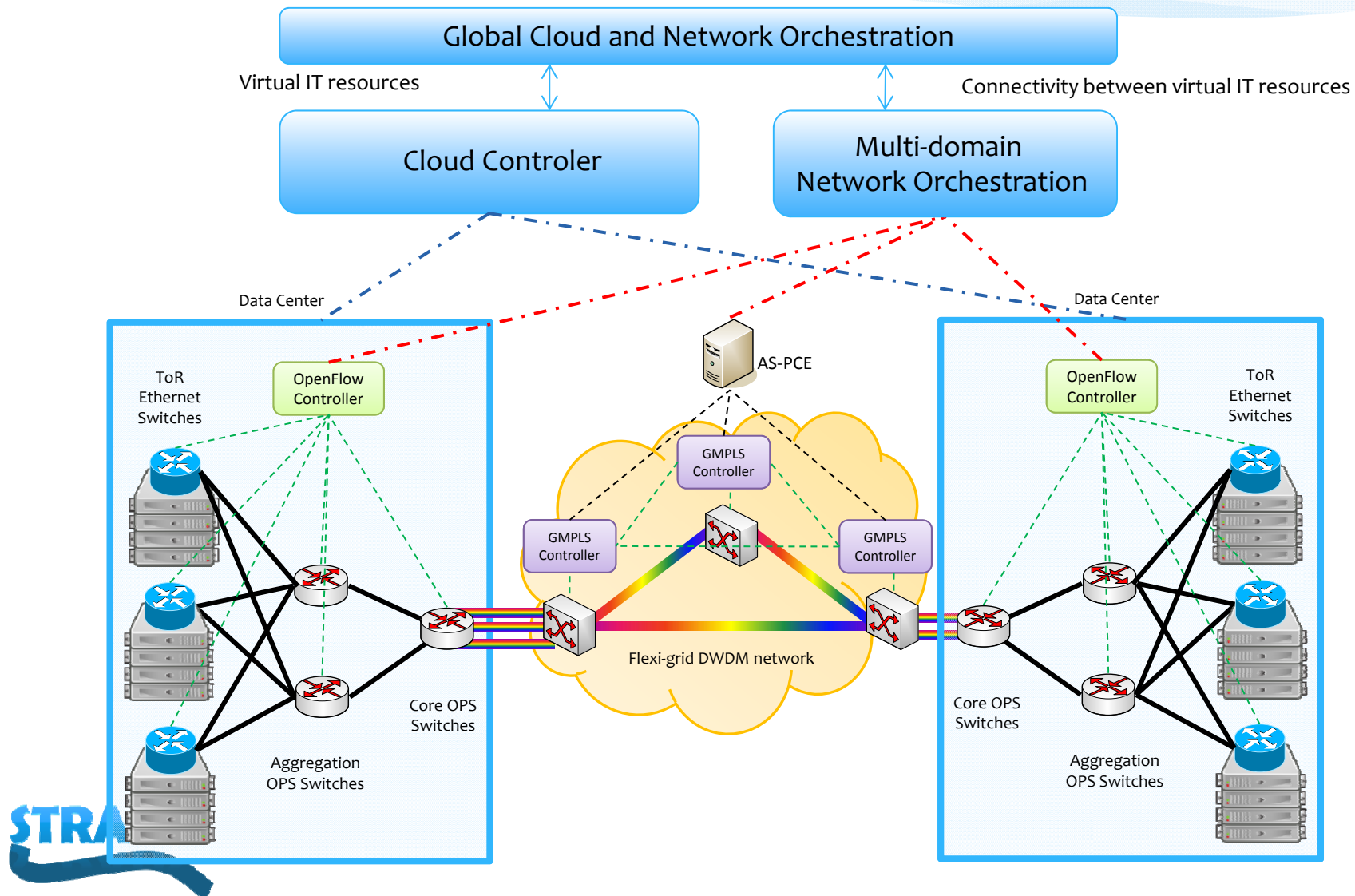
# STRAUSS Overall architecture



# Detailed system architecture developed in the STRAUSS project



# Applicability of the STRAUSS architecture to datacenter connectivity





Thank you!

どうもありがとうございます  
Doumo arigatou gozaimasu

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**STRAUSS**

A thick, dark blue, wavy graphic element that starts under the letter 'S' and curves under the 'A' and 'U'.