

ENDEAVOUR is funded by the European Commission under the H2020 programme

# ENDEAVOUR

Towards a flexible software-defined network ecosystem



## FACTS

### The rise of the IXPs

More than 500 in 2014 play a critical role in the Internet ecosystem

Clouds and datacenters are increasingly popular as hosting solutions for content and applications. IXPs are the 'glue' interconnecting these infrastructures with their users and consumption ecosystems. SDN brings to IXPs new opportunities and challenges to play a key role in Internet v2: Enable new apps, performance & security.

### Bringing SDN to the Inter-domain Settings

#### IXP CHALLENGE

IXP need to be simple, programmable, flexible, robust, fast, scalable, secure, cheap to operate and manage

#### OPPORTUNITY



SDN



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#### OBJECTIVES

1

Interdomain SDN control plane

2

Scalable, fine-grained monitoring

3

Flexible IXP management for operators

4

Network services offered to IXP ecosystem