



SENDATE – Ficus Kick off meeting

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Coriant

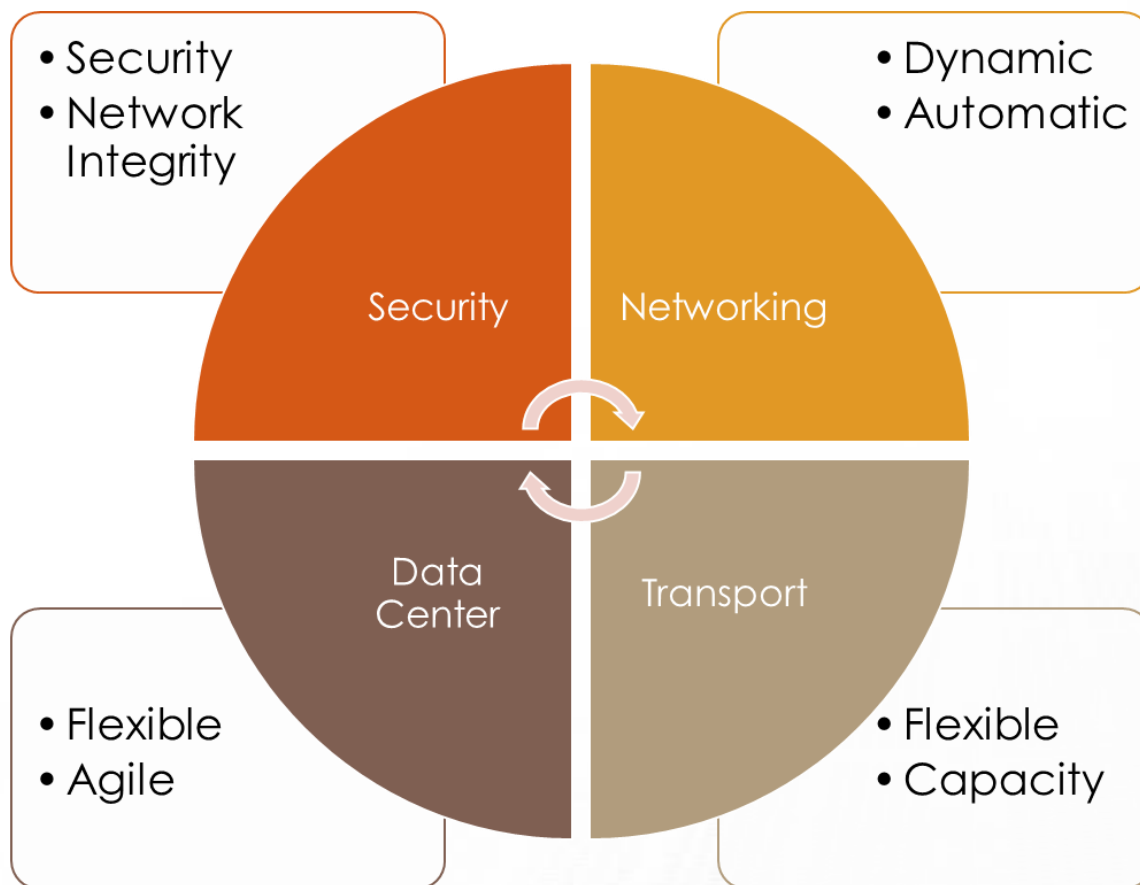
Berlin, 17th October 2016



Subproject FICUS

→ FICUS:

Flexible **I**nfrastructure for data center **C**ommunication providing **U**nique **S**ecurity

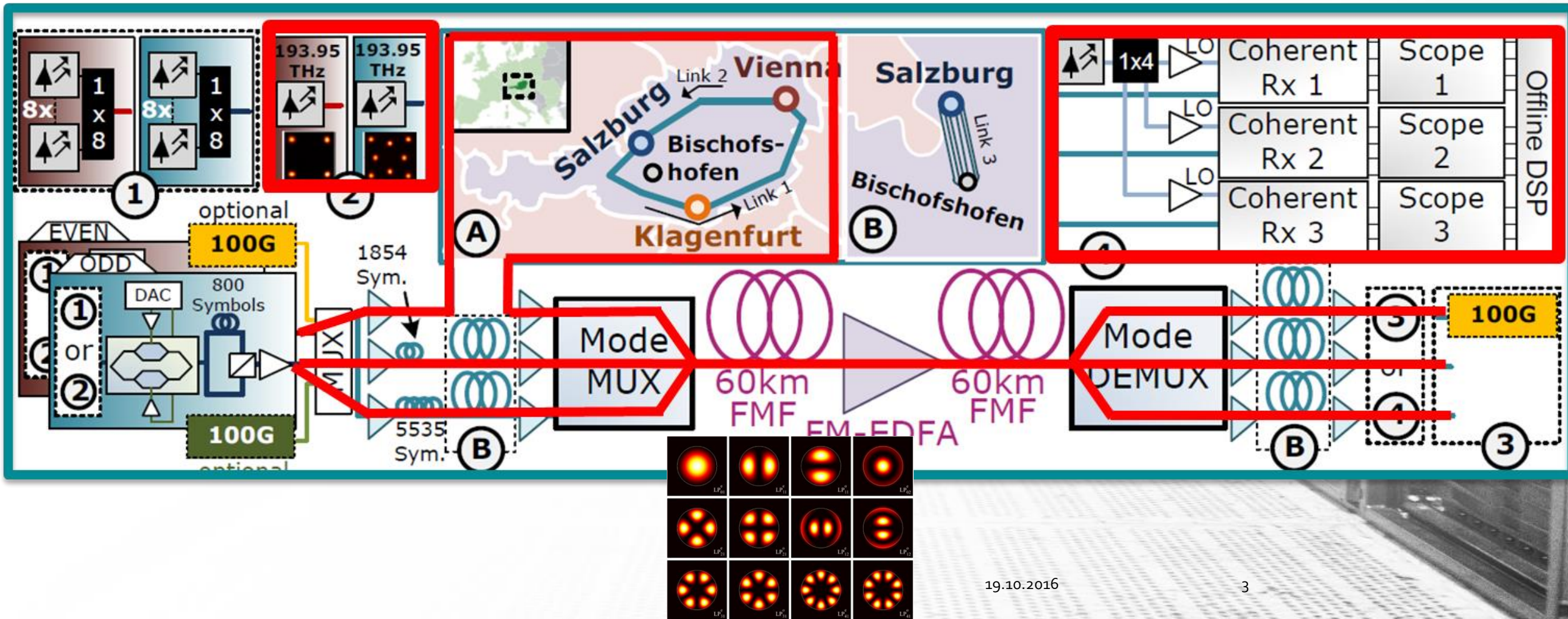


- Future Networks are Reconfigured Frequently and Automatically According to Demand

FICUS will be lead by



Motivation and benefit – Research



Motivation and benefit – Research

Smart Connected World

REEFRIED

World Record Field Trial of 24, 32, 38.4 Tb/s C-band Transmission using 16, 32, 64QAM Super-Channels

Luo, L.; Miao, L.; Zhou, W. et al. IEEE Photonics Technology Letters, 2014

Paris - Rome - Paris
10000 km (62137 miles) of fiber

Key Features

- World record transmission rate of 38.4 Tb/s
- Recorded transmission rate of 24 Tb/s
- Recorded transmission rate of 32 Tb/s

Performance Metrics

Sponsored by:

Smart Connected World

REEFRIED

200G and 400G Single Carrier Bandwidth Variable Transponder

Key Features

- 200G and 400G single carrier bandwidth
- Bandwidth variable transponder
- Highly flexible and reconfigurable

Bandwidth Variable Transponder – Setup

Key Features

- 200G and 400G single carrier bandwidth
- Bandwidth variable transponder
- Highly flexible and reconfigurable

Bandwidth Variable Transponder – Main Features

- Supports 200G and 400G single carrier bandwidth
- Supports bandwidth variable transponder
- Highly flexible and reconfigurable

Key Features

- 200G and 400G single carrier bandwidth
- Bandwidth variable transponder
- Highly flexible and reconfigurable

Performance Metrics

Sponsored by:



Motivation and Benefit – Product Groove G30



CloudWave™ Optics Technology
More than just a DSP

Motivation and Benefit – Product hiT7300



Designed, developed and
manufactured in Germany

CloudWave™ Optics Technology
More than just a DSP

Partners in SENDATE-FICUS



Summary

- Ficus addresses the relevant areas for efficient, flexible and secure communication networks
- Ficus strives for innovative solutions at the technological edge
 - Research challenges are afflicted with significant risks
 - Extremely cost intensive with RoI only many years from now
- ➔ Support from German government and European institutions is required in order to get the European telecommunication industry
 - back into a leading position
 - rebuild trust in communication networks
 - Maintaining and creating jobs
 - Coriant specific: not only in R&D Munich but also in production: Coriant proudly manufactures in Berlin
 - But also because Government support is very common in other parts of the world and distorts competition

supported by



Tekes

