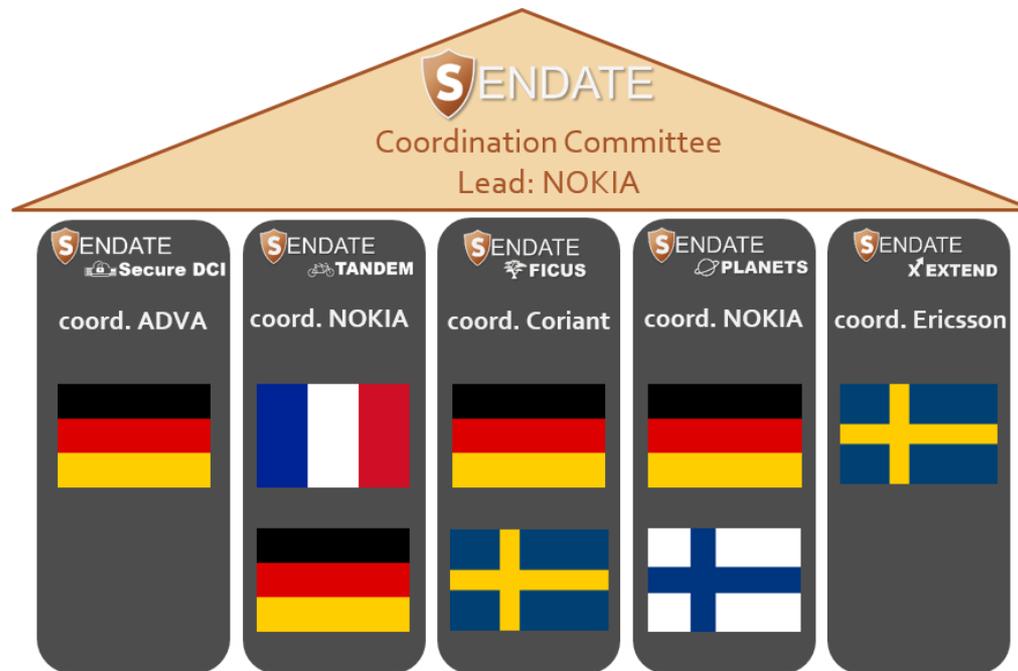# SENDATE Flagship Project, Examples of Impact

Secure Networking for a Data Center Cloud in Europe

VTT

SENDATE Flagship Project, Examples of Impact

- **ADVA achieves world-first 100G quantum-safe transport over 2,800km**
  Live Demonstration at TNC 2018:
  https://tnc18.geant.org/core/event/96
  https://www.convergedigest.com/2018/06/adva-demos-first-100g-quantum-safe.html?m=1

- **Fraunhofer HHI sets new world-record capacity of 400 Gb/s with single-photodiode reception**
  https://www.hhi.fraunhofer.de/en/press-media/news/2018/fraunhofer-hhi-develops-a-distributed-aggregation-and-reception-of-a-record-net-capacity-of-400-gbs-superchannel-in-a-single-photodiode-110-ghz-kramers-kronig-receiver.html

SENDATE Flagship Project, Examples of Impact

Joint SENDATE-FICUS and SENDATE SECURE-DCI Multi-Vendor, Multi-Domain SDN Field Trial with Automated, High-Capacity Optical Service Activation and Real-Time Online Planning

Telia Company, ADVA, Coriant, highstreet technologies, VPI Photonics and RISE Demonstrate SDN-enabled 200G Alien Wavelength Provisioning across Disaggregated Optical Domains

The trial demonstrated the critical role that open, standards-based SDN interworking plays in creating an automated network infrastructure. Self-provisioning of high-capacity bandwidth services is essential to meeting the dynamic performance demands 5G, IoT, and hyperscale cloud applications.

SENDATE Flagship Project, Examples of Impact

The **Open SDN / NFV Lab (OSNL), Berlin** was initially established by highstreet technologies and the SENDATE-SECURE-DCI sub-project, and soon opened to other partners within SENDATE and externally.

It is a research and commercialization platform primarily for small and medium enterprises to smoothly evolve research results to commercial products and services within a truly open SDN & NFV ecosystem.

The OSNL was successfully participating in several ONF and ONAP proof-of-concepts, e.g. the **Wireless Transport Proof of Concept (PoC), November 2017.**
https://www.opennetworking.org/news-and-events/blog/onf-onap-drive-wireless-sdn-clouds/

SENDATE Flagship Project, Examples of Impact

- **Around 20 patents**
- **Over 100 publications**
- **Around 20 invited talks**
- **Significant contribution to standards**
  - **3GPP SA2, 3GPP SA5**
  - **ETSI NFV, ETSI ZSM, ETSI MEC, ETSI TC Cyber**
  - **IETF**
  - **NIST**
  - **TMF**
  - **Trusted Computing Group**
  - **Open Standards**
- **ACM SIGCOMM 2018 Workshop on Security in Softwarized Networks: Prospects and Challenges (SecSoN 2018)**
- SENDATE-PLANETS and SENDATE-TANDEM organized a workshop on security in softwarized networks at one of the most prestigious networking conferences (SIGCOMM).
- SENDATE-PLANETS organized security metrics workshop in Madrid, 24 September, 2019