Secured Autonomic Traffic Management of a Tera of SDN Flows for 6G Transport Networks

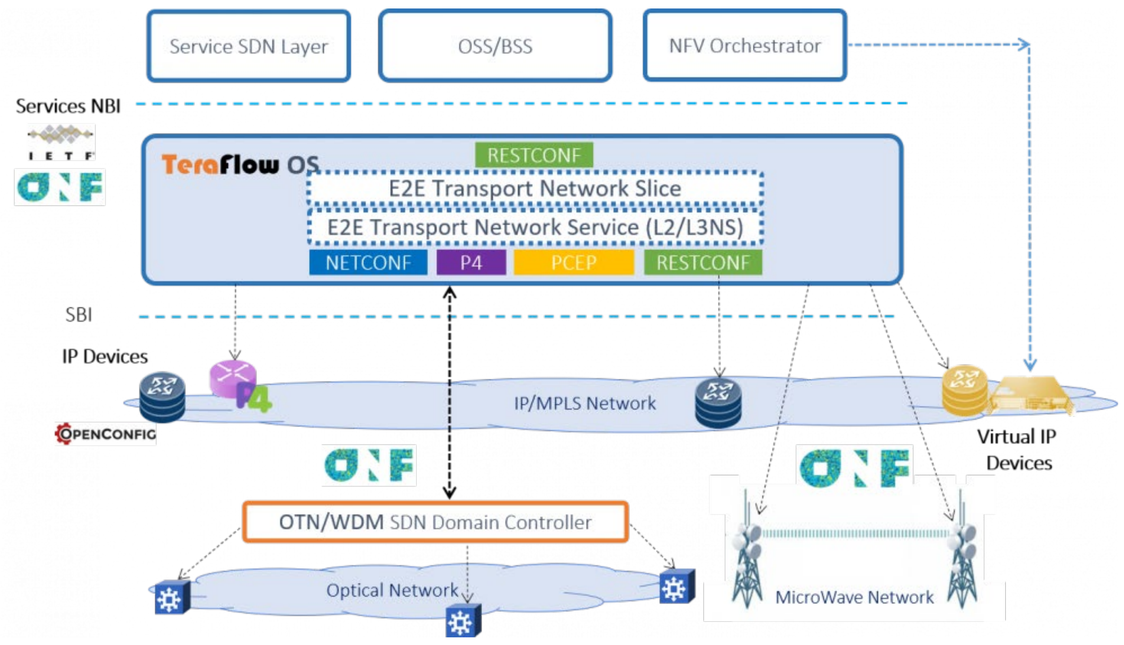
Motivation

- SDN has been in the market for more than 10 years with great success, but Operators still have not adopted basic deployments.
- Telco Cloud is evolving slowly and there is no clear path of SDN introduction in Operators.
- Automation is needed for Network Operators in order to fully benefit SDN adoption.
- With 6G Networks, massive SDN flows will be needed. Flow aggregation at the network core, is not efficient and does not provide specific services.
- Networks need to be able to autonomously resist attacks.

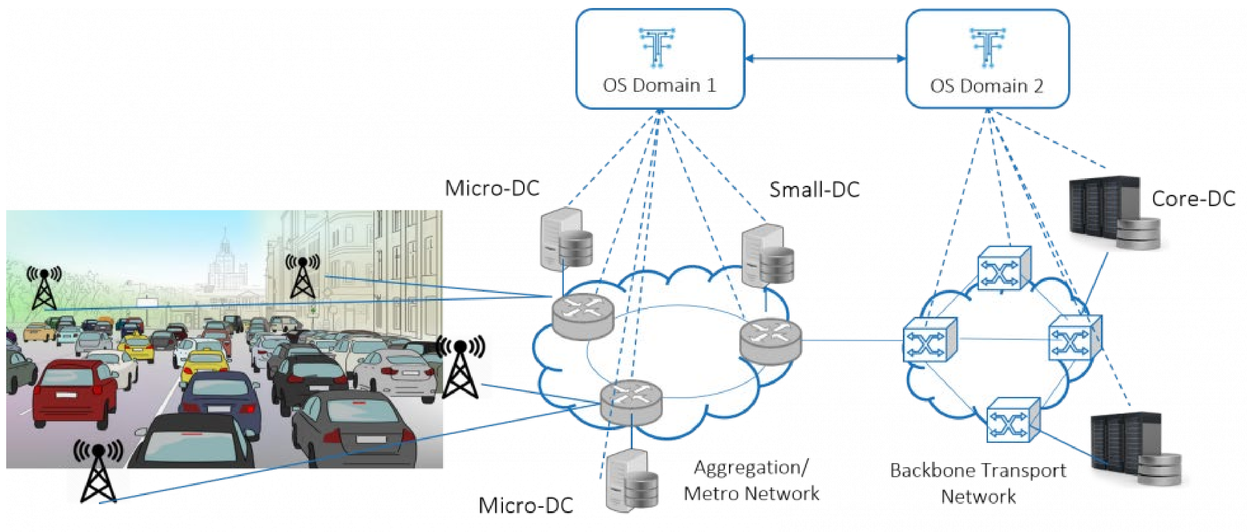
Objective: TeraFlow Operative System

- **Novel SDN controller for 6G networks.**
- **Able to integrate with current NFV and MEC frameworks**
- **Vendor-agnostic and cloud-native**
- **ML-based security**
- **PDL-based forensic evidence for multi-tenancy**

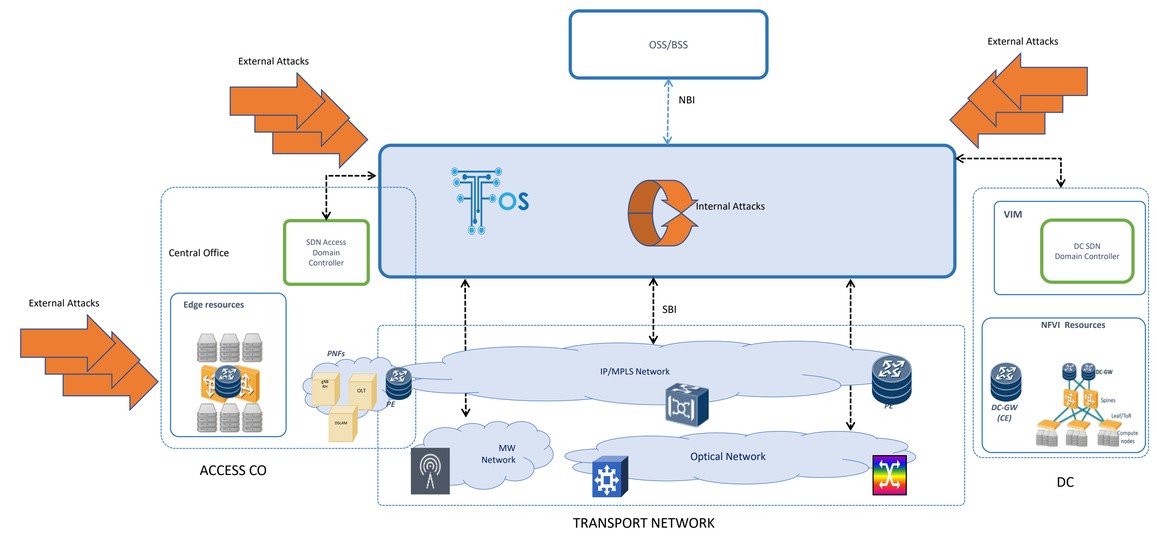
Autonomous Network Beyond 5G



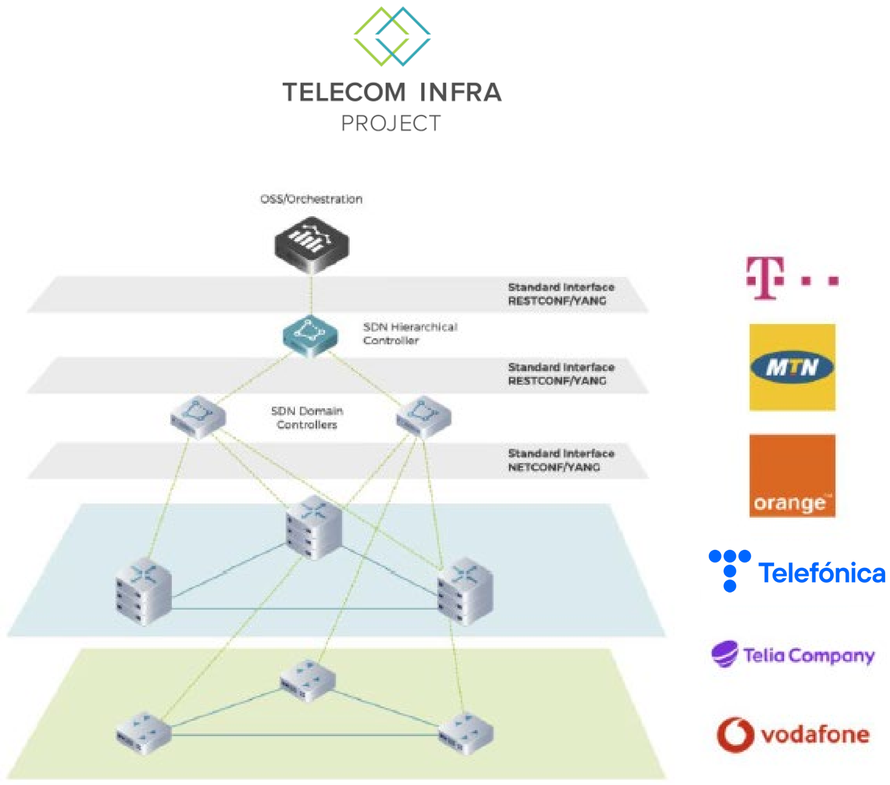
Blockchain-based Inter-Domain Services



Machine Learning Cybersecurity



Industry alignment: Requirements for SDN for Transport



Project Coordinator: Dr. Ricard Vilalta (CTTC)
Technical Manager: Juan Pedro Fernández-Palacios (Telefónica)
Contact: TeraFlow-Contact@5g-ppp.eu

twitter.com/TeraFlow_h2020
www.linkedin.com/company/teraflow-h2020/
www.youtube.com/channel/UCz86mcBvscgA4tS_voXokyQ

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101015857.