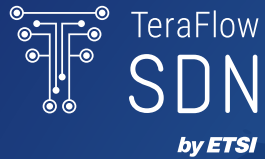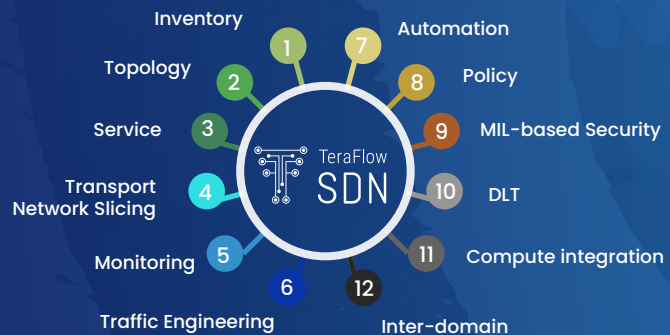## ETSI OSG TeraFlowSDN (TFS)

TeraFlow **SDN**
by ETSI

The ETSI Open Source Group for TeraFlowSDN (OSG TFS) is developing an open source cloud native SDN controller enabling smart connectivity services for future networks beyond 5G.

Join Us @ tfs.etsi.org

About

ttc   Telefónica   AtoS

ADVA Optical Networking   CHALMERS   infinera

NEC   telenor   UNIVERSIDAD POLITÉCNICA MADRID

UBITECH   PEER STRITZINGER   NTNU

OLD DOG CONSULTING   siae microelettronica

TeraFlow

SECURED AUTONOMIC TRAFFIC MANAGEMENT
FOR A TERA OF SDN FLOWS

teraflow-h2020   (LinkedIn)
TeraFlow_h2020   (Twitter)
TeraFlow H2020   (YouTube)
teraflow-h2020.eu   (Web)

5G PPP

Requirements

- 1 Inventory
- 2 Topology
- 3 Service
- 4 Transport Network Slicing
- 5 Monitoring
- 6 Traffic Engineering
- 7 Automation
- 8 Policy
- 9 MIL-based Security
- 10 DLT
- 11 Compute integration
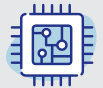- 12 Inter-domain

TeraFlow **SDN**

Objectives

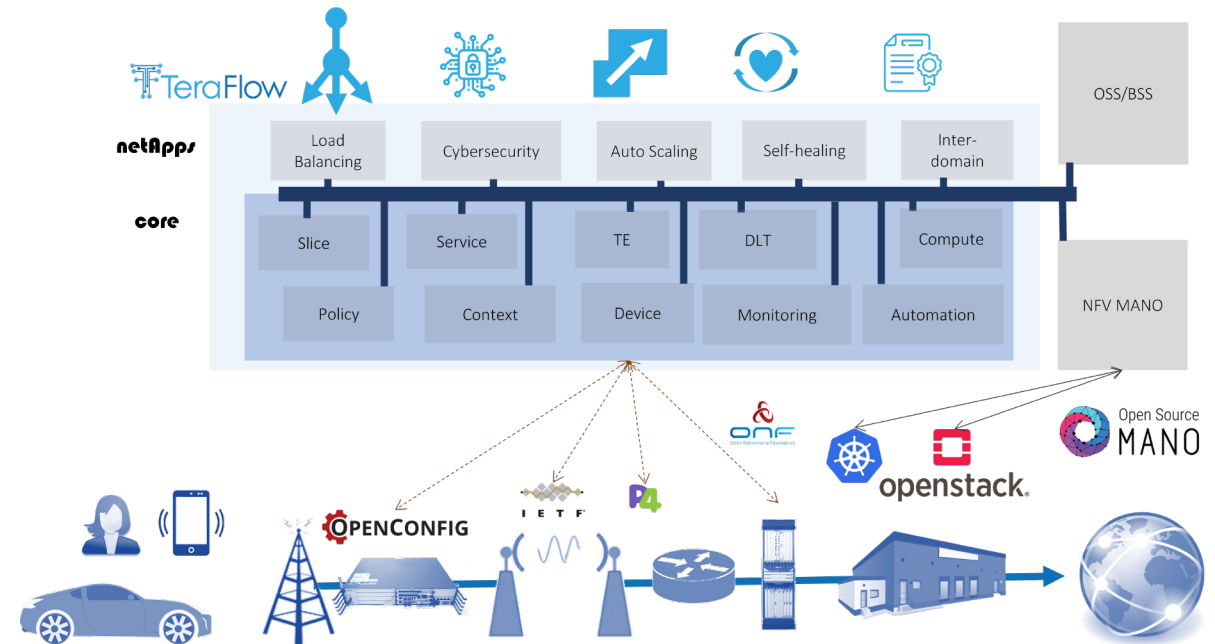Our main objective is the creation of a novel SDN controller for beyond 5G networks.

This new SDN controller shall be able to integrate with current NFV and MEC frameworks as well as to provide revolutionary features for both flow management (service layer), and network equipment integration (infrastructure layer), while incorporating ML-based security and PDL-based forensic evidence for multi-tenancy.
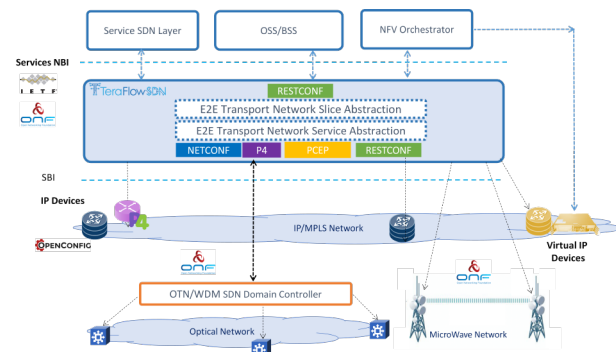
The TeraFlow OS will be the first of a new type of secured cloud-native SDN controllers that will radically advance the SoA in software-defined networks.
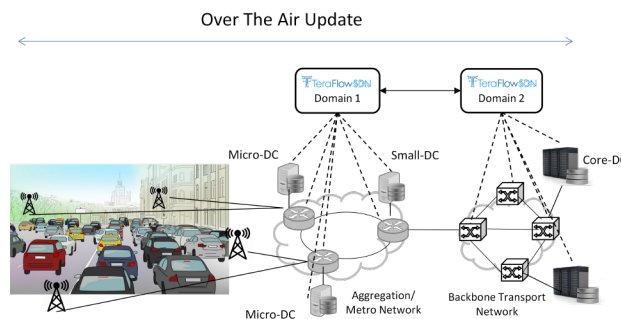
Three scenarios of applicability

Architecture

Autonomous network beyond 5G

Inter-domain

Cybersecurity