

TeraFlow
SDN
by ETSI

Introduction to ETSI OSG TeraFlowSDN

Ricard Vilalta

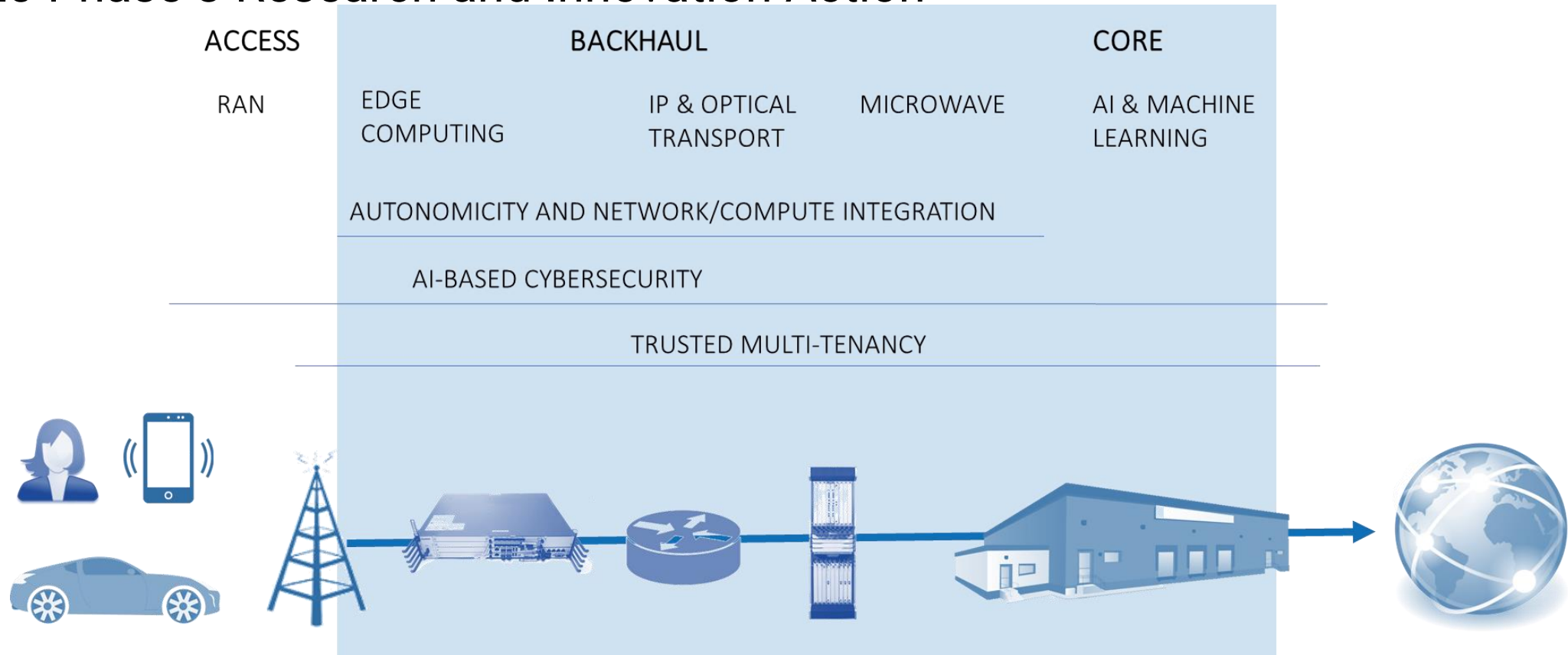
OSM#13 Ecosystem Day

Agenda

- From H2020 TeraFlow to ETSI OSG TeraFlowSDN
- ETSI OSG TeraFlowSDN
- Relationship between OSM and TeraFlowSDN

From H2020 TeraFlow to ETSI OSG TeraFlowSDN

H2020 Phase 3 Research and Innovation Action



From H2020 TeraFlow to ETSI OSG TeraFlowSDN

TeraFlow H2020 project started in 1/1/21

We had the first code release in 17/2/22

<https://gitlab.com/teraflow-h2020/controller>

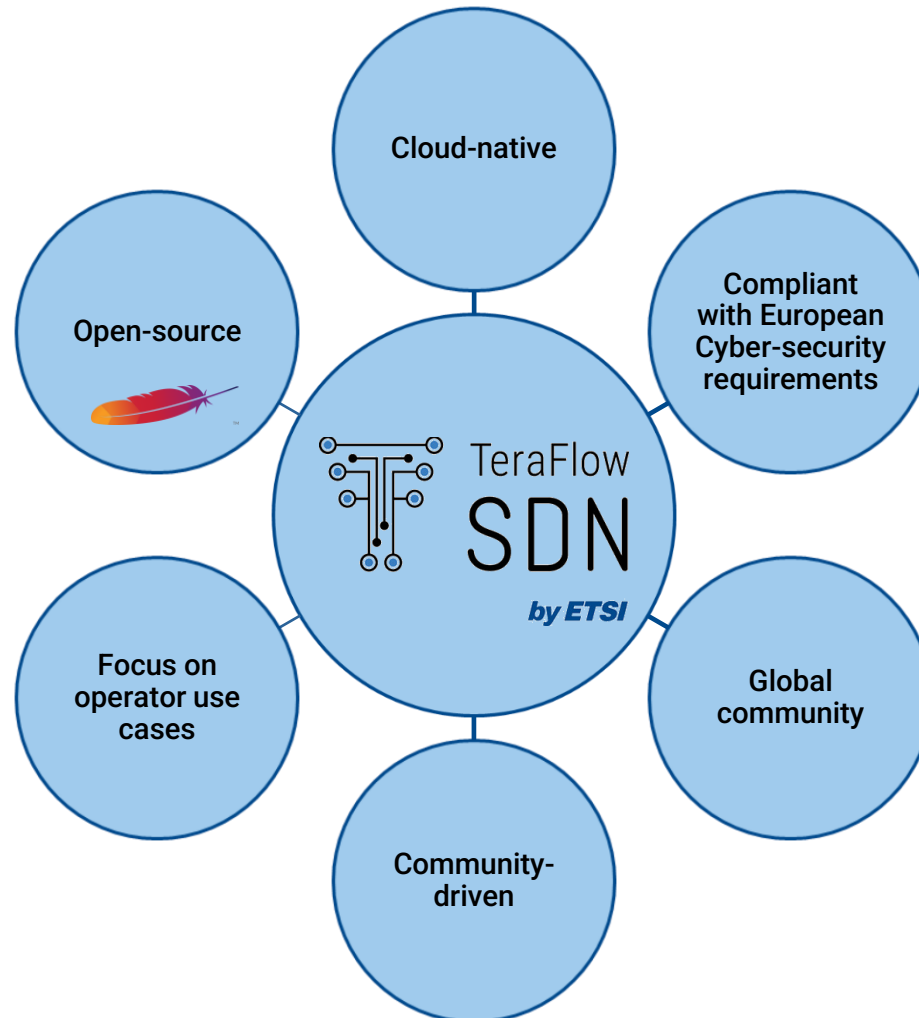
More contributions from other companies are expected

➔ Need to open project to community

ETSI accepted the creation of a new OSG



ETSI OSG TeraFlowSDN



ETSI OSG TeraFlowSDN

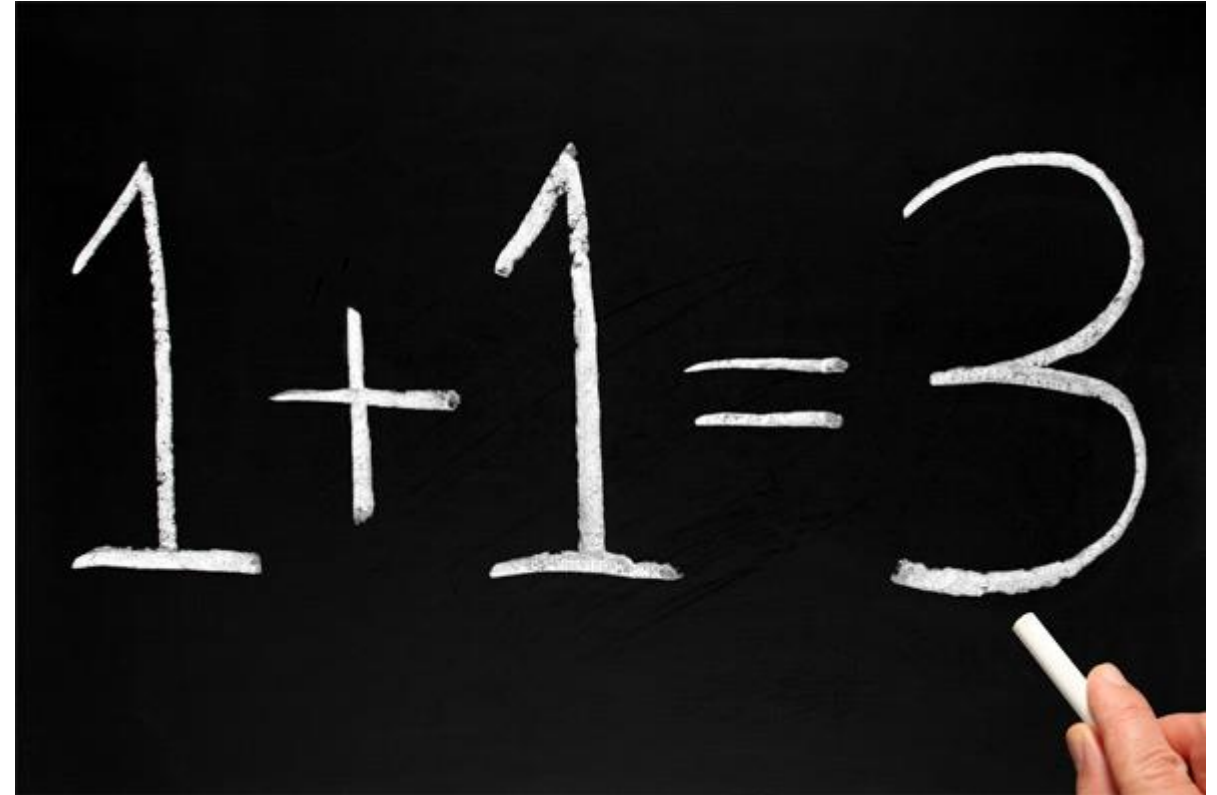
- Provide a toolbox for rapid prototyping and experimentation with innovative network technologies and use cases.
- TeraFlowSDN aims to ease the adoption of SDN by telco operators.
- We want to bring innovation to the ecosystem and contribute to network programmability for current 5G and beyond deployments.
- TeraFlowSDN will ease proof-of-concept demonstration for many ETSI ISGs to demonstrate the proposed standard solutions faster.
- The founding members of the group, Atos (Bull), CTTC, NEC Europe, Telefonica SA, Telenor ASA, and SIAE Microelettronica SpA, have since been joined by Globe Telecom, Instituto de Telecomunicacoes, NTNU, Old Dog Consulting, Peer Stritzinger, and Ubitech.



Relationship between OSM and TeraFlowSDN


Relationship between OSM and TeraFlowSDN

- TeraFlowSDN will be able to integrate with current Network Function Virtualization (NFV) and Multi-access Edge Computing (MEC) frameworks and interoperate with ETSI OSM (OpenSource MANO).









OSM-TFS integration is already on its way!


<https://www.youtube.com/watch?v=tt2ym6Hz6zg>


 **TeraFlow**

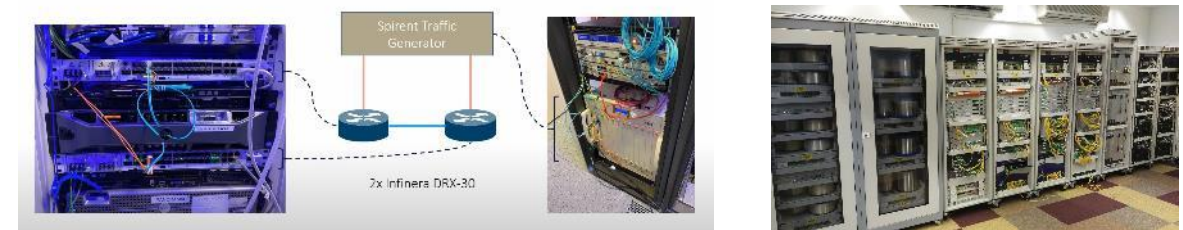
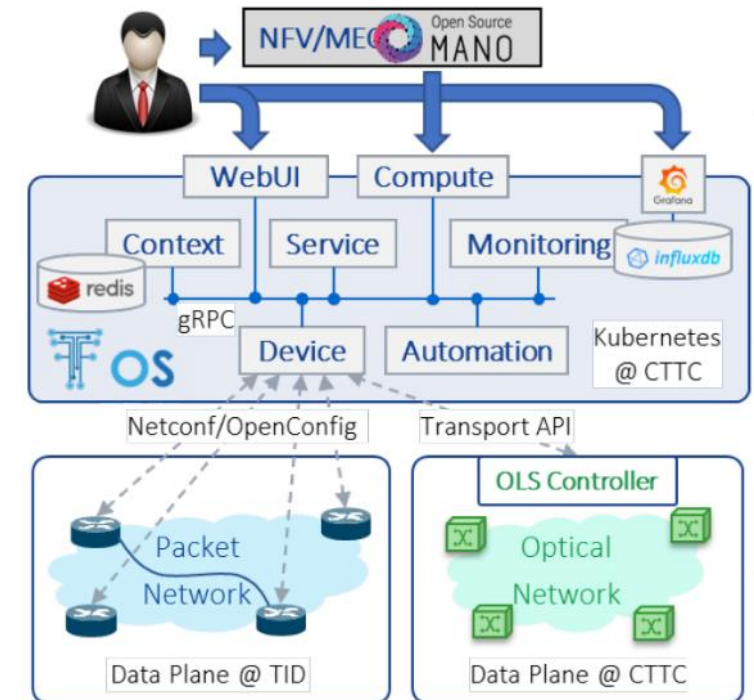
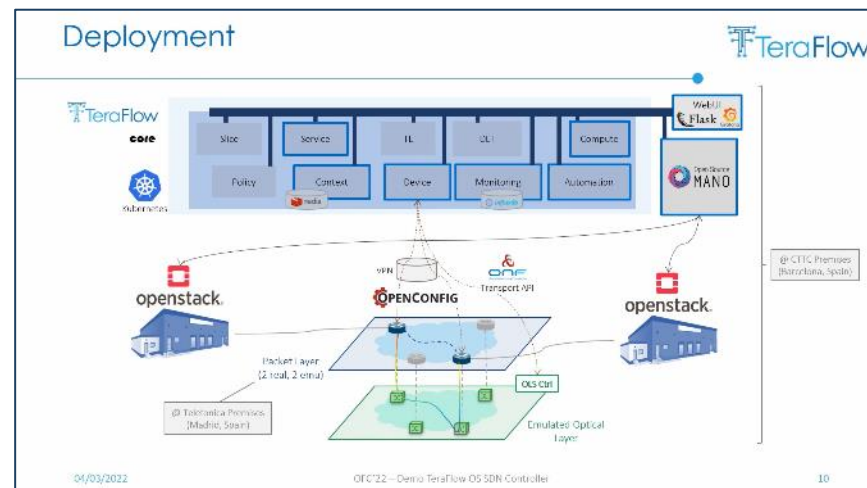
Demonstration of Zero-touch Device and L3-VPN Service Management using the TeraFlow Cloud-native SDN Controller

LL. Gifre, C. Natalino, S. Gonzalez-Diaz, F. Soldatos, S. Barguil, C. Aslanoglou, F. J. Moreno-Muro, A. N. Quispe Cornejo, L. Cepeda, R. Martinez, C. Manso, V. Apostolopoulos, S. Petteri Valiuita, O. Gonzalez de Dios, J. Rodriguez, R. Casellas, P. Monil, G. P. Katsikas, R. Muñoz, and R. Vilalta

 This project has received funding from the European Union's Horizon research and innovation programme under the grant agreement No. 101015827





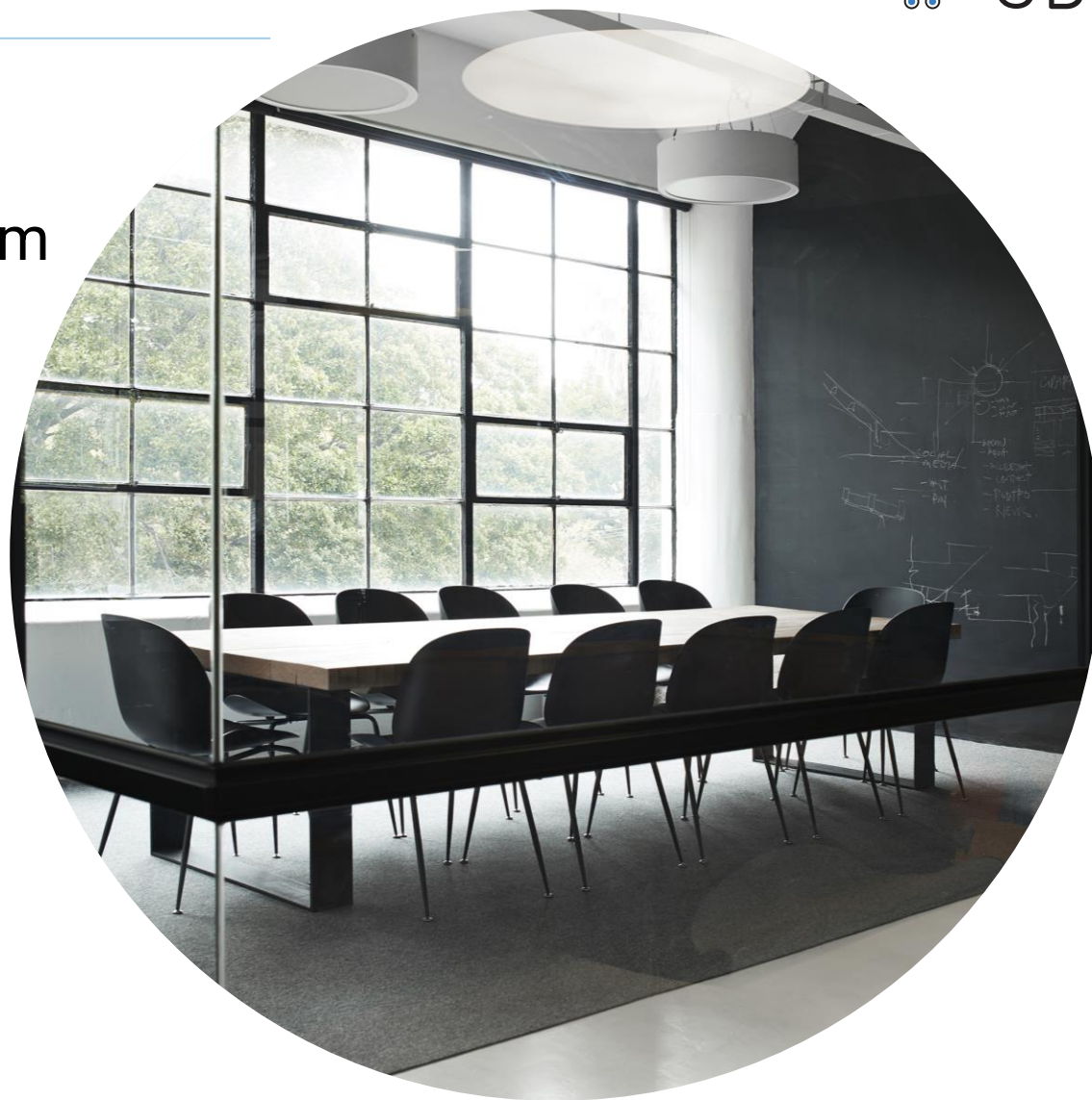
Possible synergies OSM-TFS

- Extensions to OSM – WIM interface
 - Expected release
- Analysis of joint compute-network resource allocation through PLA component



Next events

- Virtual Kick-off Meeting, 20 June 2022
- 1st TFS Hackfest @Network X, Amsterdam
 - Collocated with OSM Hackfest



How to join

- Participation is open to ETSI members, non members and individuals
 - [TFS Member Agreement](#)
 - [TFS Participant Agreement](#)
 - Contact TFSsupport@etsi.org



Learn more!

Website: tfs.etsi.org

Contact: TFSsupport@etsi.org

Join: [TFS Slack](#)

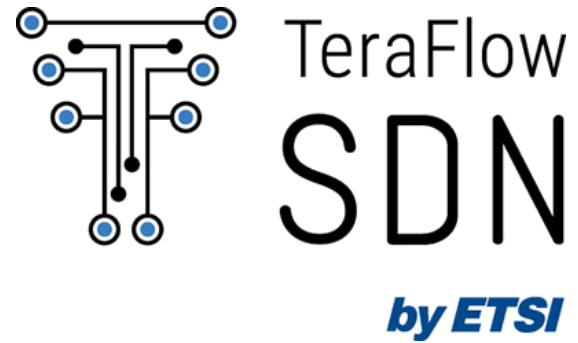
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Press Release: [ETSI Launches new Open Source Group TeraFlowSDN](#)





Thank you!
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