

Open Source Community Day

Leveraging *Open Source* to
bridge *Research* and
Standardisation

Presented by **ETSI** 

23 - 24 September



Co-located with
AIOTI Days 2025

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Julien Satti
Technical Expert, Software and Standards





- ❖ Independent non-profit organization
- ❖ 900+ members across 60 countries and 5 continents
- ❖ Over 35 years of excellence in ICT
- ❖ Community of experts and innovators
- ❖ Diverse direct membership:
 - ❖ SMEs/MEs (25%)
 - ❖ Large companies, research entities, academia, government, and societal stakeholders
- ❖ One of the 3 SDOs recognized by the EU
- ❖ Secretariat of 3GPP

ETSI develop standards for:

- ✓ 5G / 6G
- ✓ Internet of Things
- ✓ Cybersecurity
- ✓ Network Virtualization
- ✓ Artificial Intelligence
- ✓ Energy Efficiency
- ✓ Network Automation
- ✓ Quantum Safe Cryptography
- ✓ Edge Computing
- ✓ Block Chain
- ✓ Radio
- ✓ ...

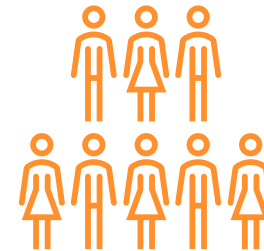
- + Software in Networks**
- + Software in Standards**
- + Software in Research**



**ETSI SDG
Software Development
Groups**

New type of group in **ETSI Directives** since December 2022

- Tailored for **collaborative** software development, in support of standardization
- Choice of software license, including **open source**
- Open communities, **meritocracy-based** governance
- Can be setup with the support of **4+** ETSI members



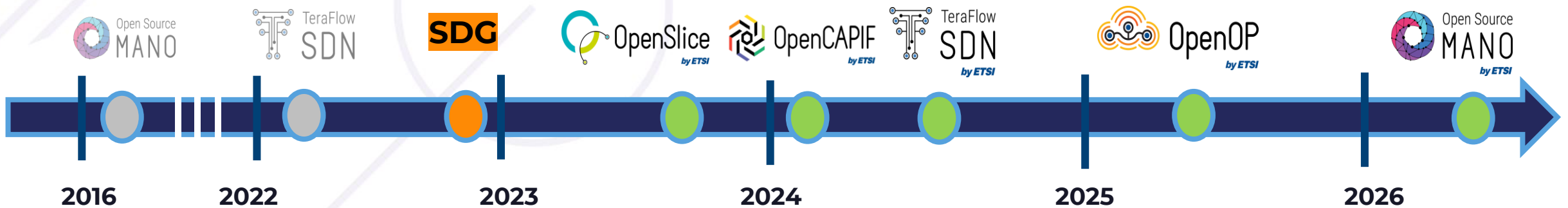


(Pseudo-)code in standards

- Test Specifications
- Data Models,
- API definitions, ...

Experimental Open Source Groups

- Open Source MANO
- TeraFlowSDN





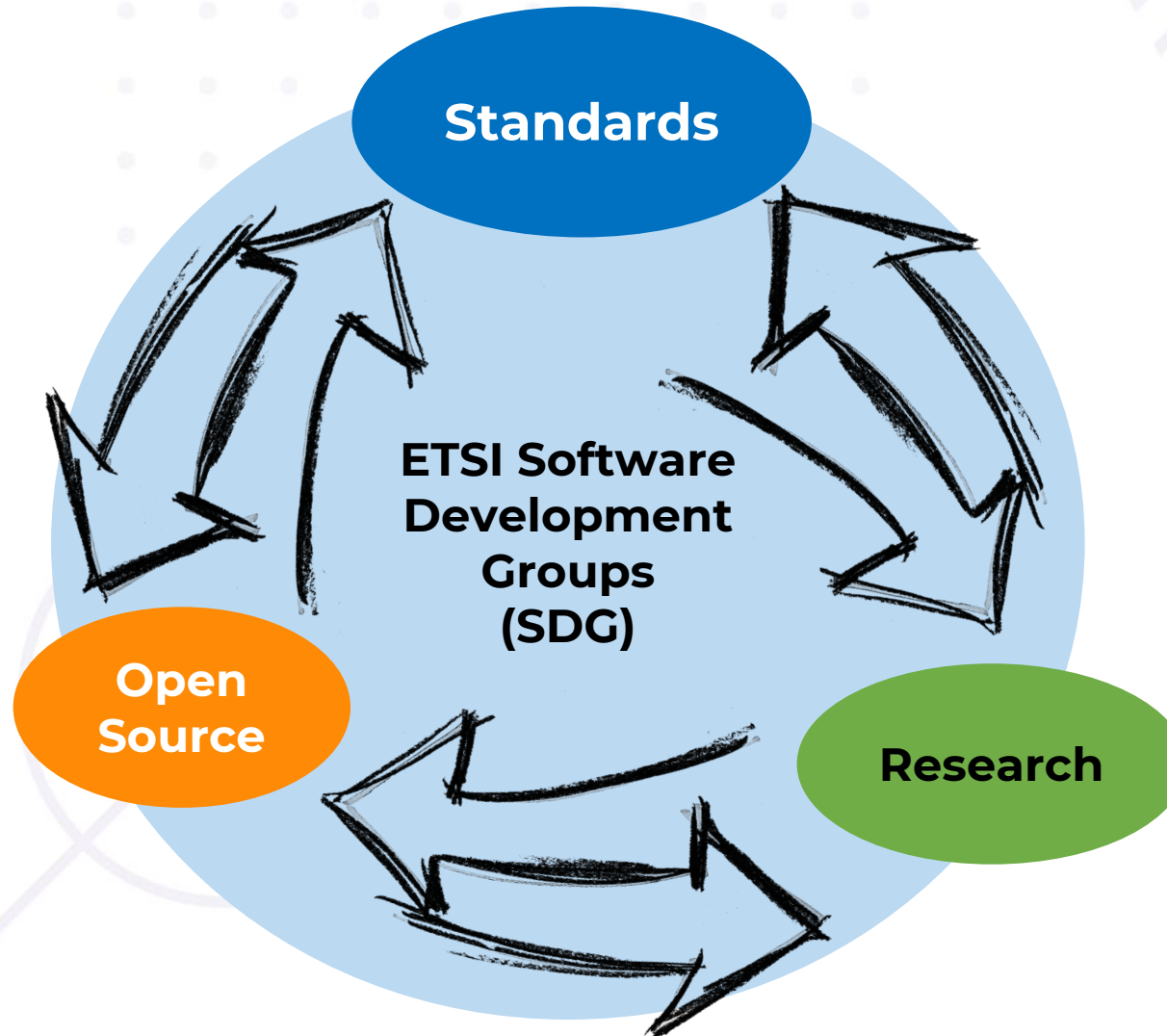
A **TOOLBOX** for quick prototyping, **experimentation** and new use-case validation allowing ETSI groups working on future network technologies to **accelerate** standardization cycles and optimize their **quality**.



A **BRIDGE** between **Standardization** and **Research**, as the code is adopted by research projects and new contributions received.



A **VEHICLE** to **promote** and facilitate adoption of ETSI standards among **software** development communities and **open source** projects.



Benefits for Standardization

Leverage Experimentation & Innovation

Receive Early Feedback

Shorten Development Cycles

Disseminate and Foster Adoption

Learn and Adopt New Ways of Working

Benefits for Research

Leverage & Impact Standardization

Code Reuse & Sustainability

Build Global Communities

Stability & Continuity

Neutral & Trusted Home

Benefits for Open-Source

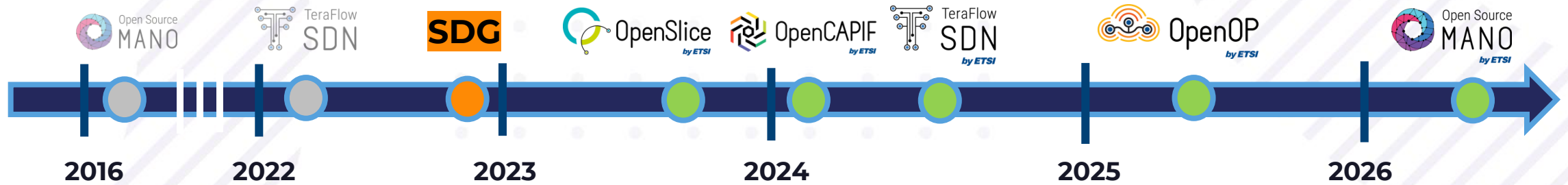
Leverage & Impact Standardization

Leverage Innovation

Promote Reuse & Sustainability

Reduce Risk of Fragmentation

Foster Adoption



OSG OSM – Open Source MANO provides Management and Orchestration for Network Services across cloud platforms



SDG TFS – TeraFlowSDN develops an open-source cloud native SDN Controller enabling smart connectivity services for future networks beyond 5G



SDG OSL – OpenSlice develops an open-source service-based OSS to deliver Network as a Service (NaaS)



SDG OCF – OpenCAPIF is developing an open-source Common API Framework allowing to expose and invoke APIs in a secure and consistent way

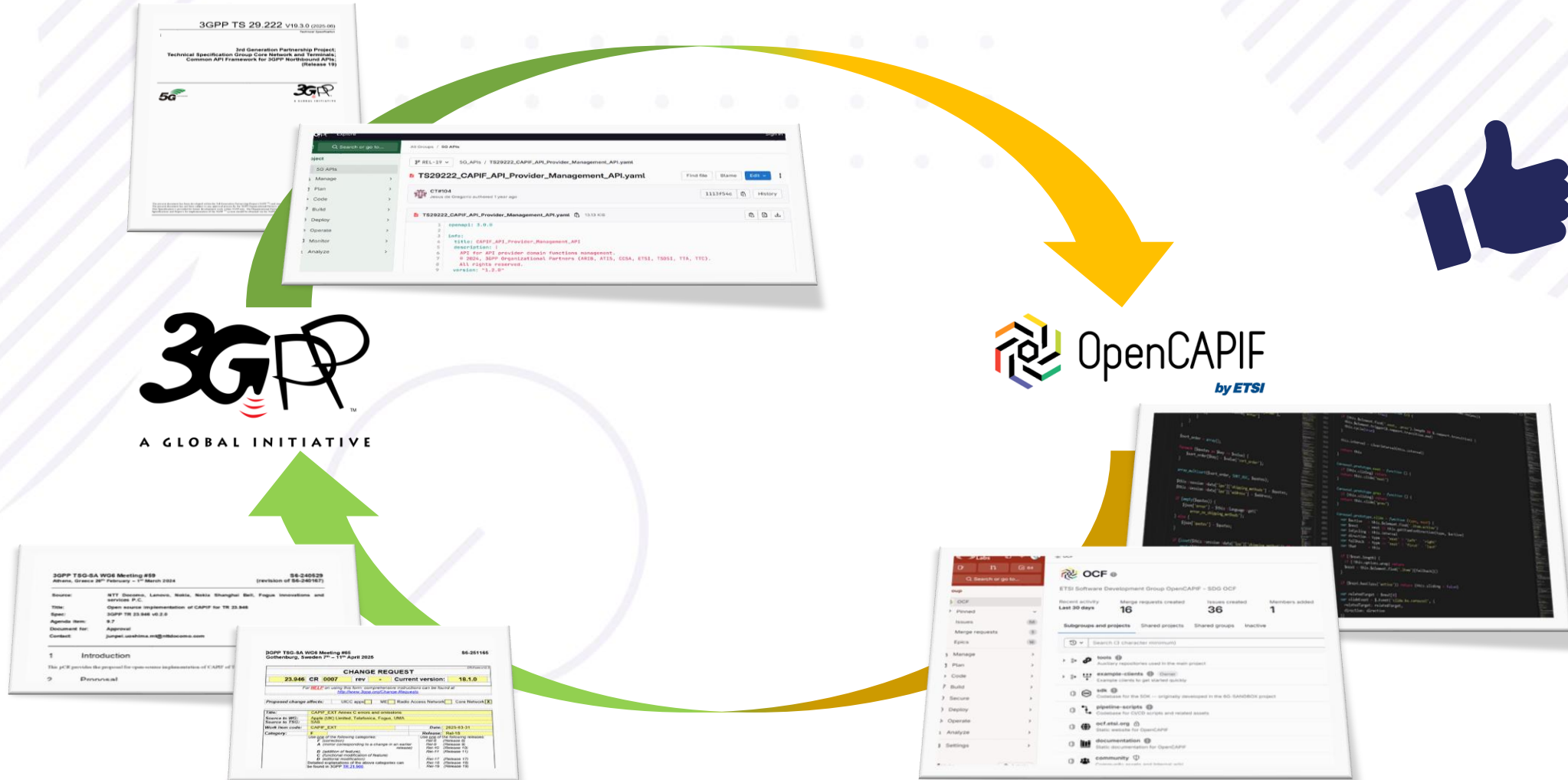


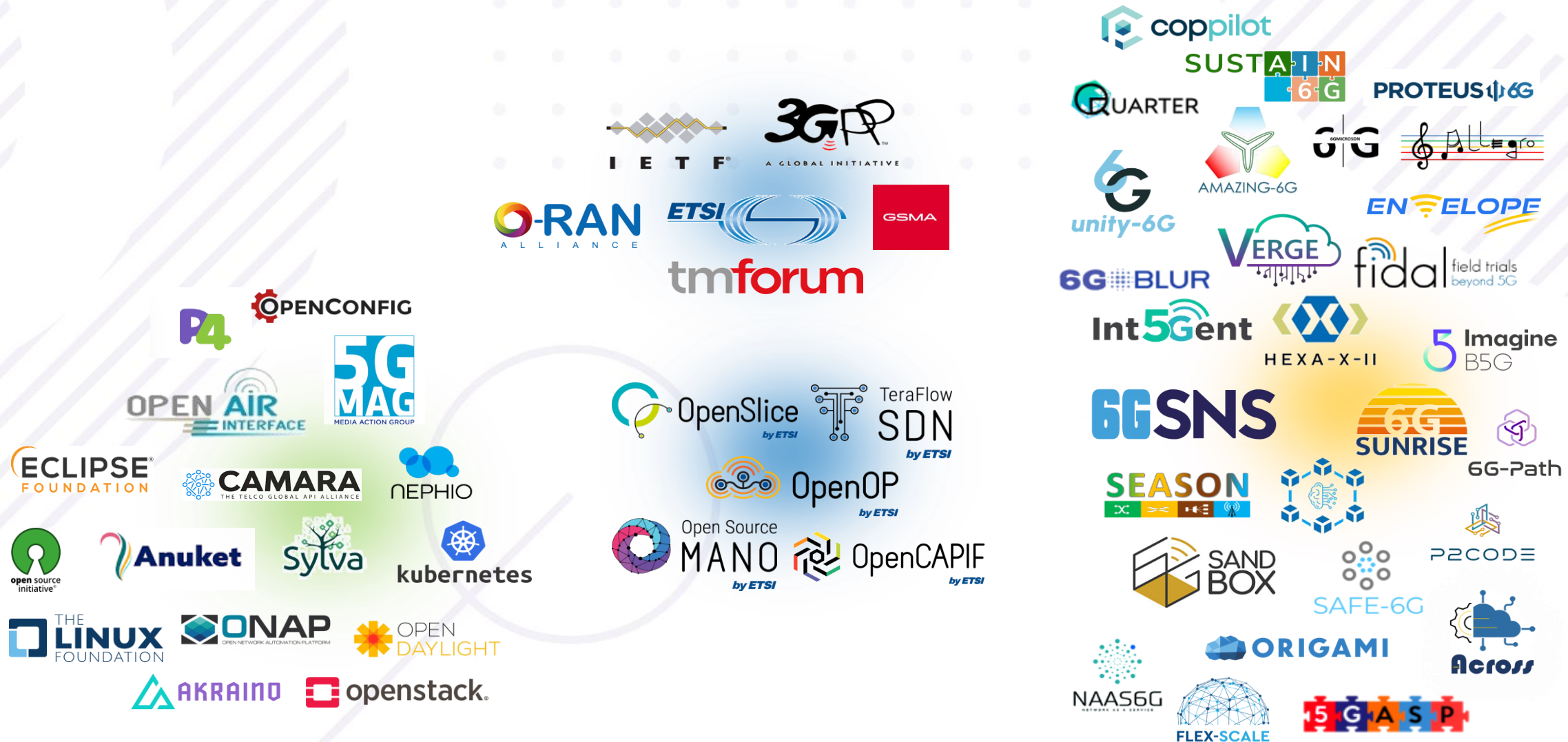
SDG OOP – OpenOP will develop an Open Operator Platform allowing for operator networks and testbed federation along with capability exposure



Open Source Community Day

..... ...with an actual success story!





Conference, Demos, Tutorials, Hackfests

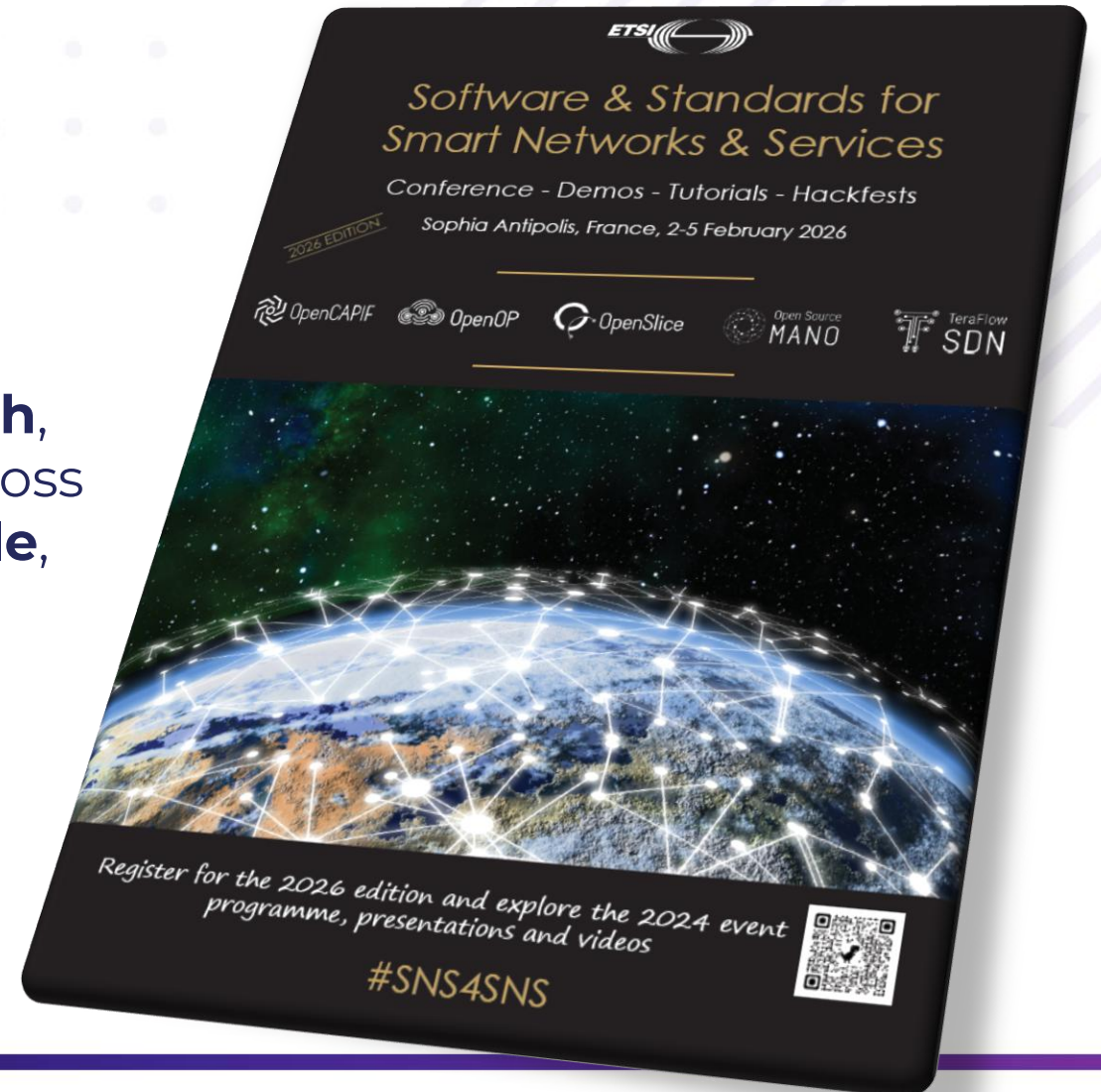
2-5 February 2026

Join us as we navigate the interplay of **open source, standardization, and research**, envisioning a **future** where **collaboration** across these domains paves the way for **sustainable, inclusive, and interoperable communication networks and services**.



Call for Presentations, Demos, Posters **OPEN**

Deadline **7 October 2025**



Thank you!



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FOUNDATION

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