

Mission Critical Open Platform

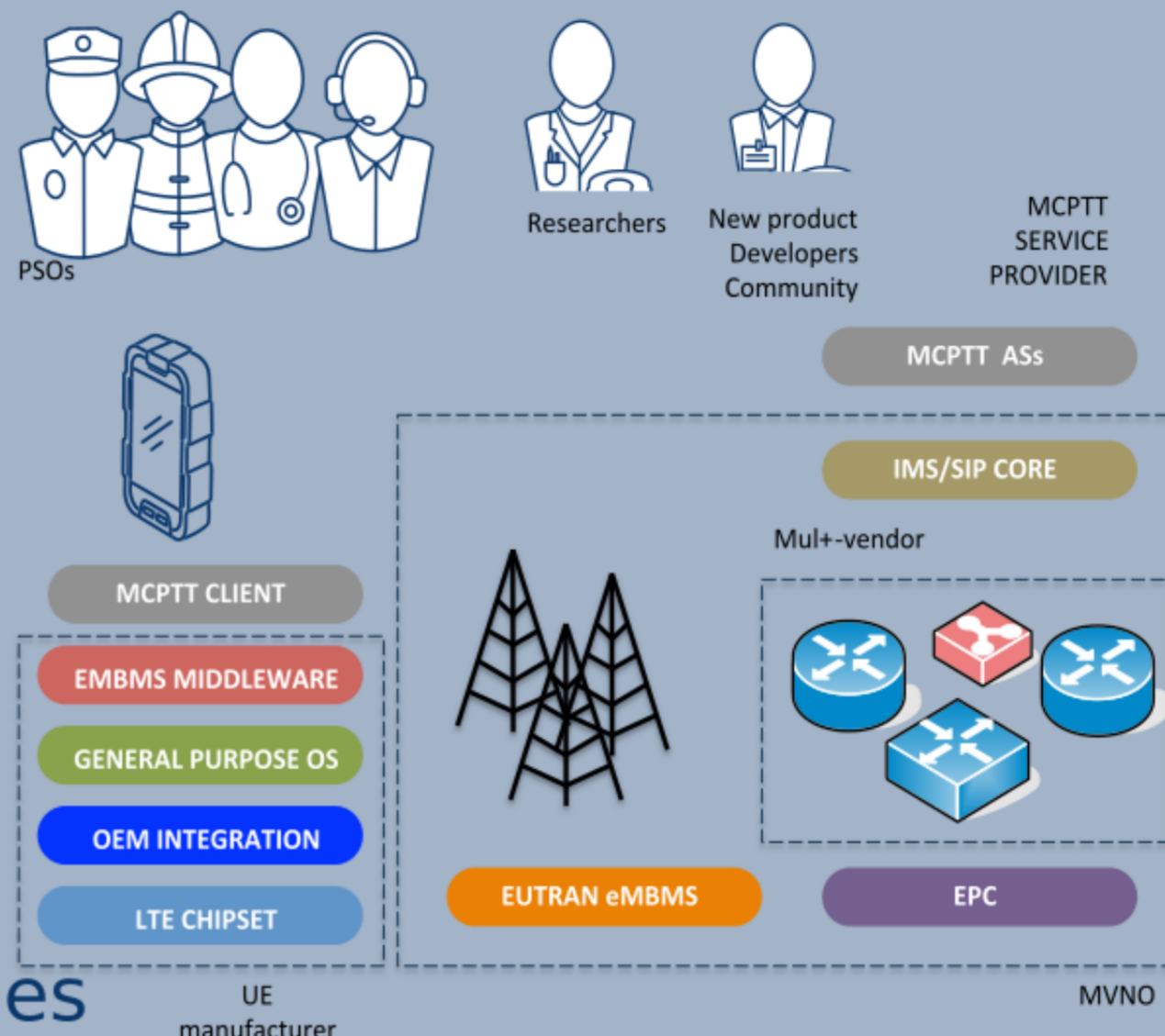
PROBLEM STATEMENT

Most **entry barriers** from traditional niche market MC technologies **removed**

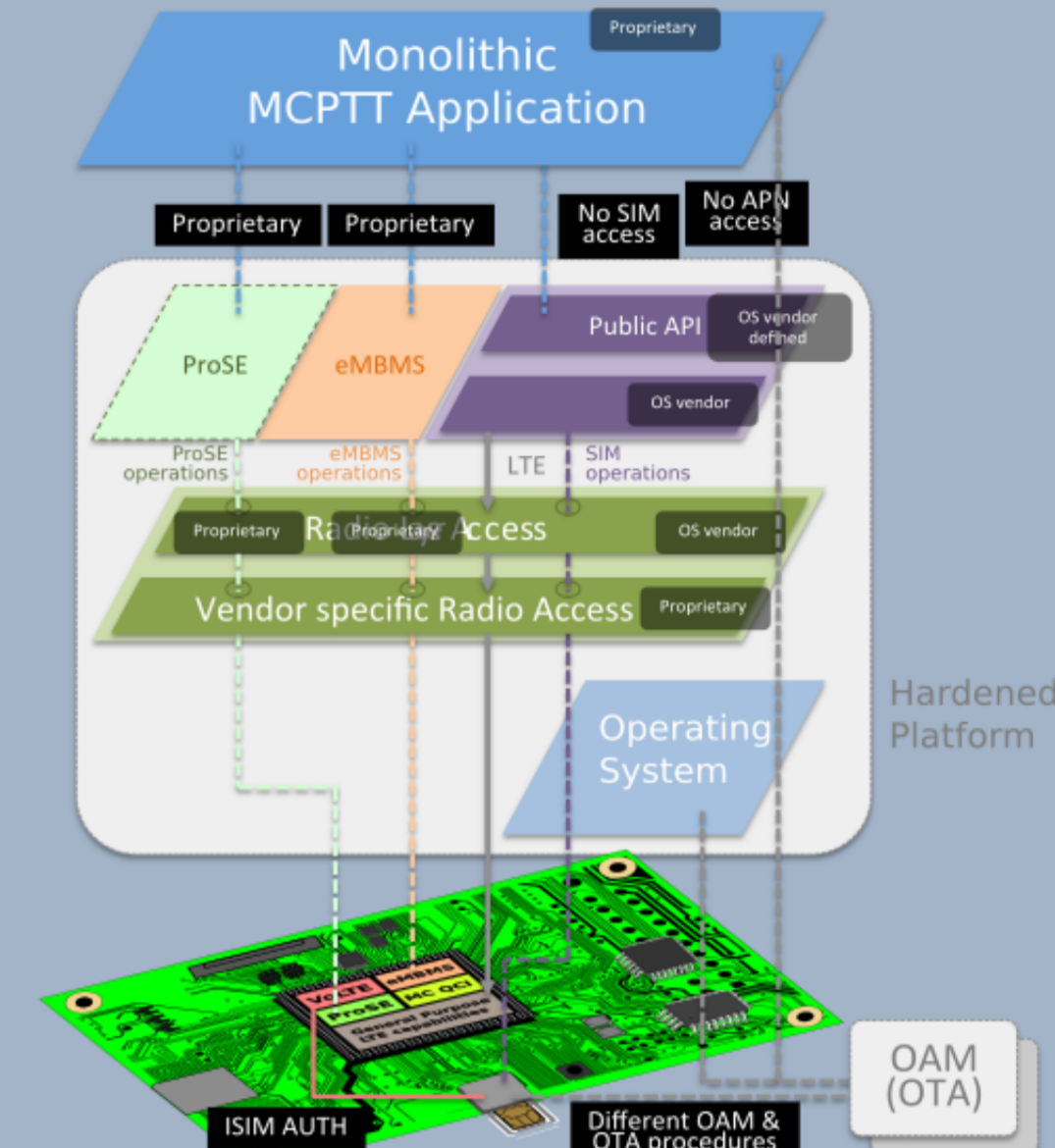
- Standardized (3GPP MCPTT)
- General Purpose Radio Technology (LTE)
- Interoperable
- All-IP
- Software based (VoIP-like)

but... there still exist **implementation issues** that **limit Public Safety Innovation capabilities** when compared with Internet & Mobile technologies

P1. Heterogenous and complex MCPTT ecosystem



P2. Proprietary or missing internal MCPTT UE interfaces



The MCOP approach

Challenges

- R&D in MCPTT complex ecosystem.
- Proprietary or all-in-one e2e solutions.
- Monolithic apps (MC-voice only).
- General purpose APIs missing MC mechanisms.
- VoLTE co-existence.
- Lack of common provisioning mechanisms.

Objectives

- Live and on-site MCPTT testbed.
- Definition of industry driven normalized APIs.
- Open Source SDK.
- Different level APIs.
- Validation
- Integration on live testbeds.

MCOP's targets

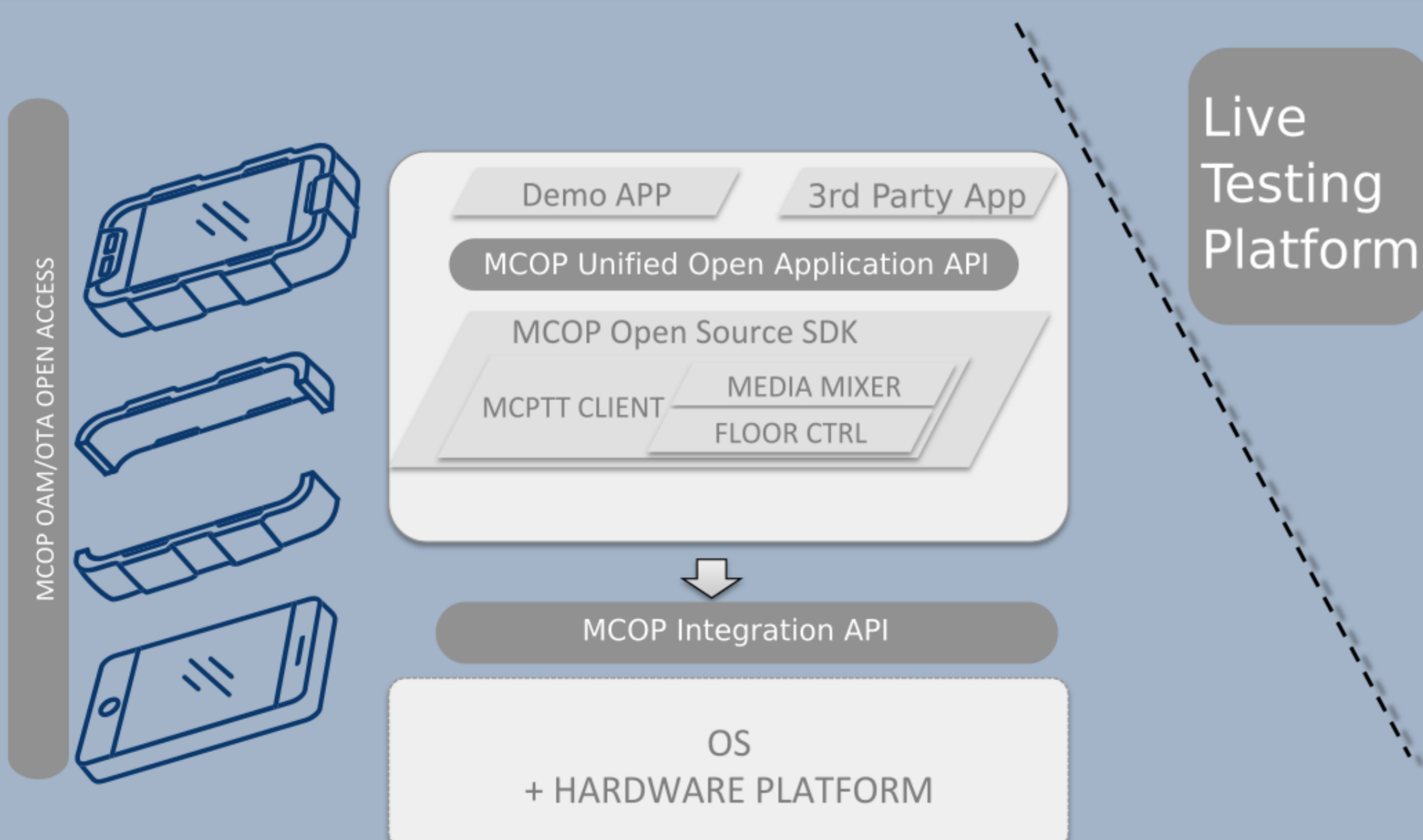
Stakeholders

- Industry and Researchers
- Not only telcos but...**
- ...former OTT PTT solutions providers
- Small integrators
- PSOs' IT departments
- New stakeholders, Internet & FOSS community, volunteers, IoT....

Benefits

- Reduce** Entry Barriers.
- Foster** innovation & accelerate development.
- Share** Lesson Learnt and MCPTT awareness.
- Avoid** duplicated efforts.
- Democratization** of MC access to newcomers.
- Better **understanding**/troubleshooting protocols.
- Take **advantage** of the scale economy.
- Easier integration** for all.

The MCOP architecture and outcomes



- Open APIs** to be implemented by UE vendors.
- Open Source MCPTT Client early release.**
- Project site and **live on-site/online testbeds.**
- Tailored demo app** using MCOP SDK.
- Detailed requirements and lesson learnt **reports.**
- Participation on plugtests/stakeholder **events.**