



**Alliance for AI, IoT and Edge
Continuum Innovation**

Networld Europe and AIOTI workshop • 21 January 2025

Driving Standardisation for the Digital Society

Antonio Kung

Co-founder



- Chair AIOTI WG Standardisation



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**NETWORLD
EUROPE**

Joint Webinar • 21 January 2025

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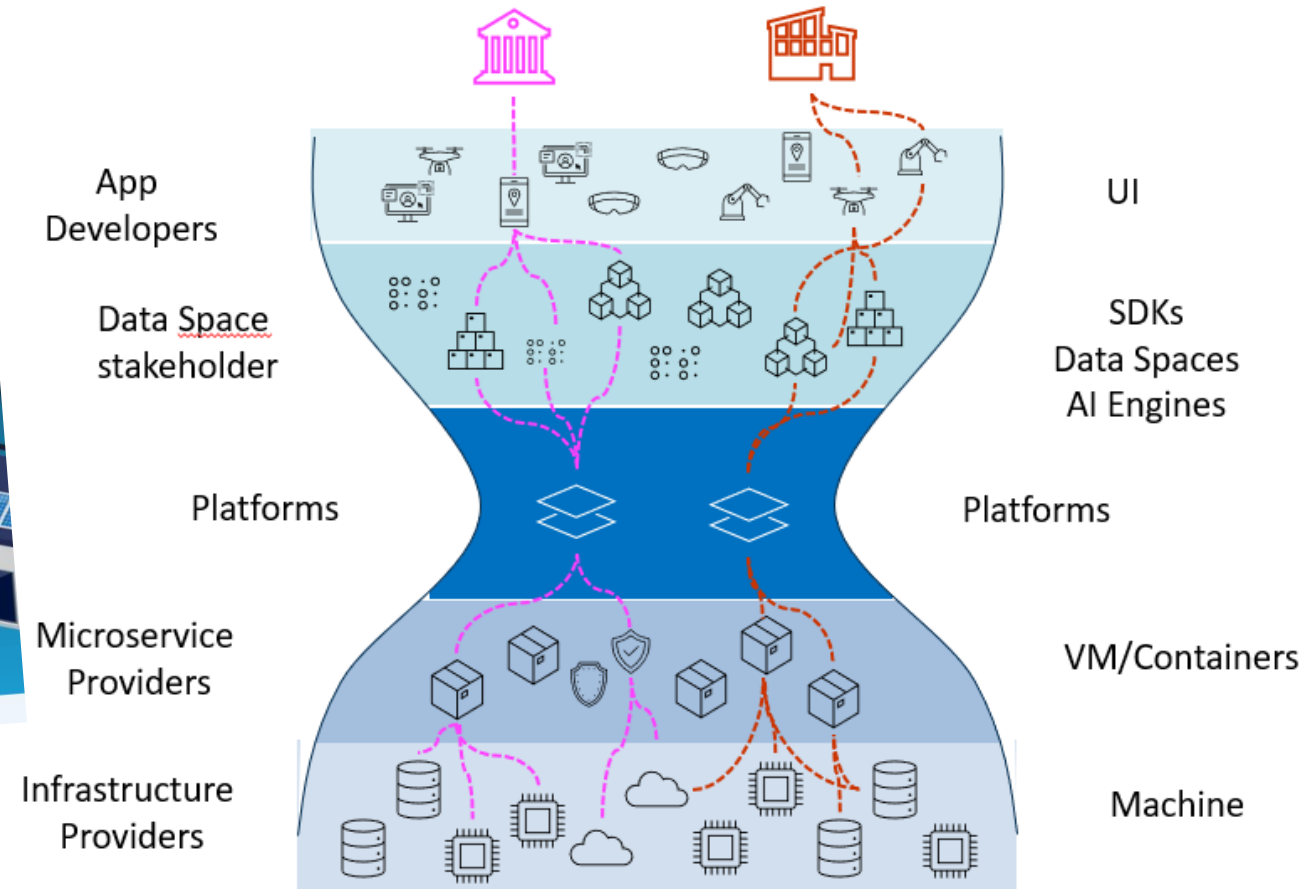
- Chair AIOTI WG Standardisation

CEI-Sphere Support Action

<https://ceisphere.eu/>



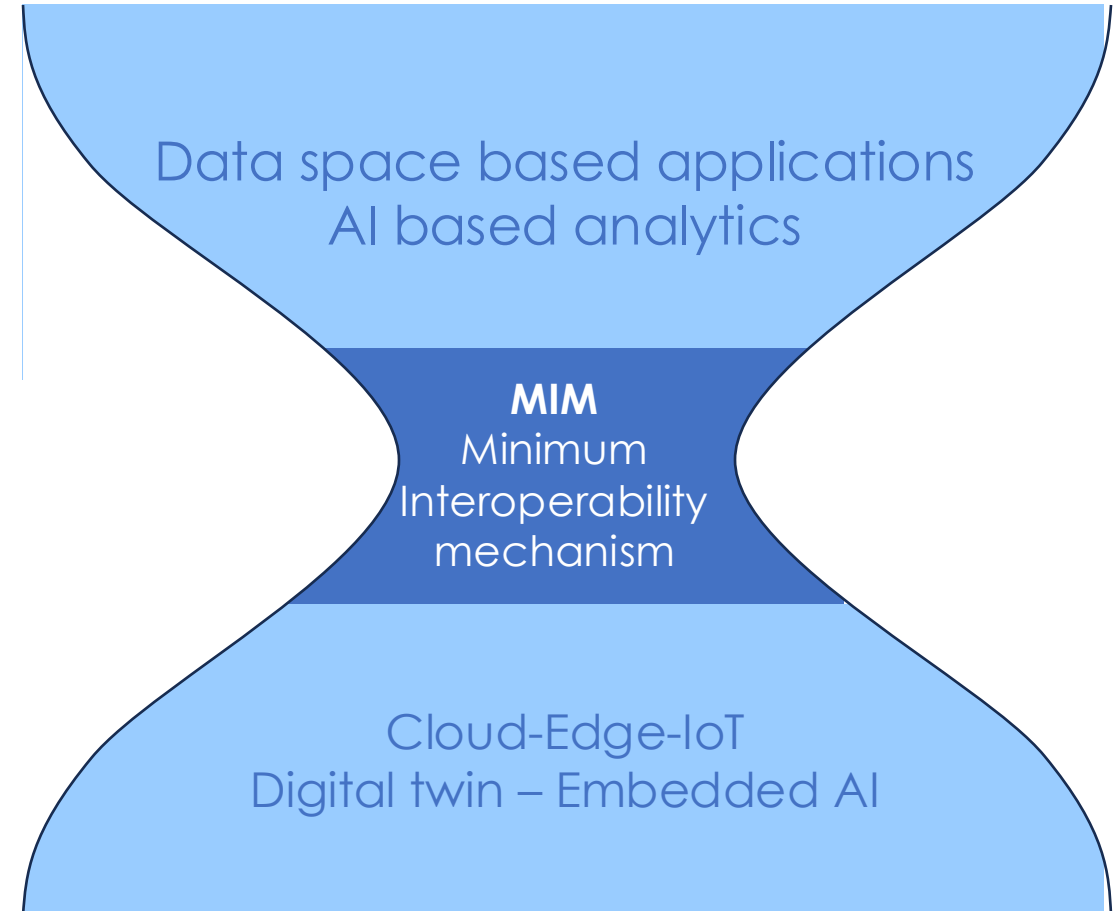
Solution view – Threading the needle



Hourglass Architecture Model

Applications and
data analytics concerns

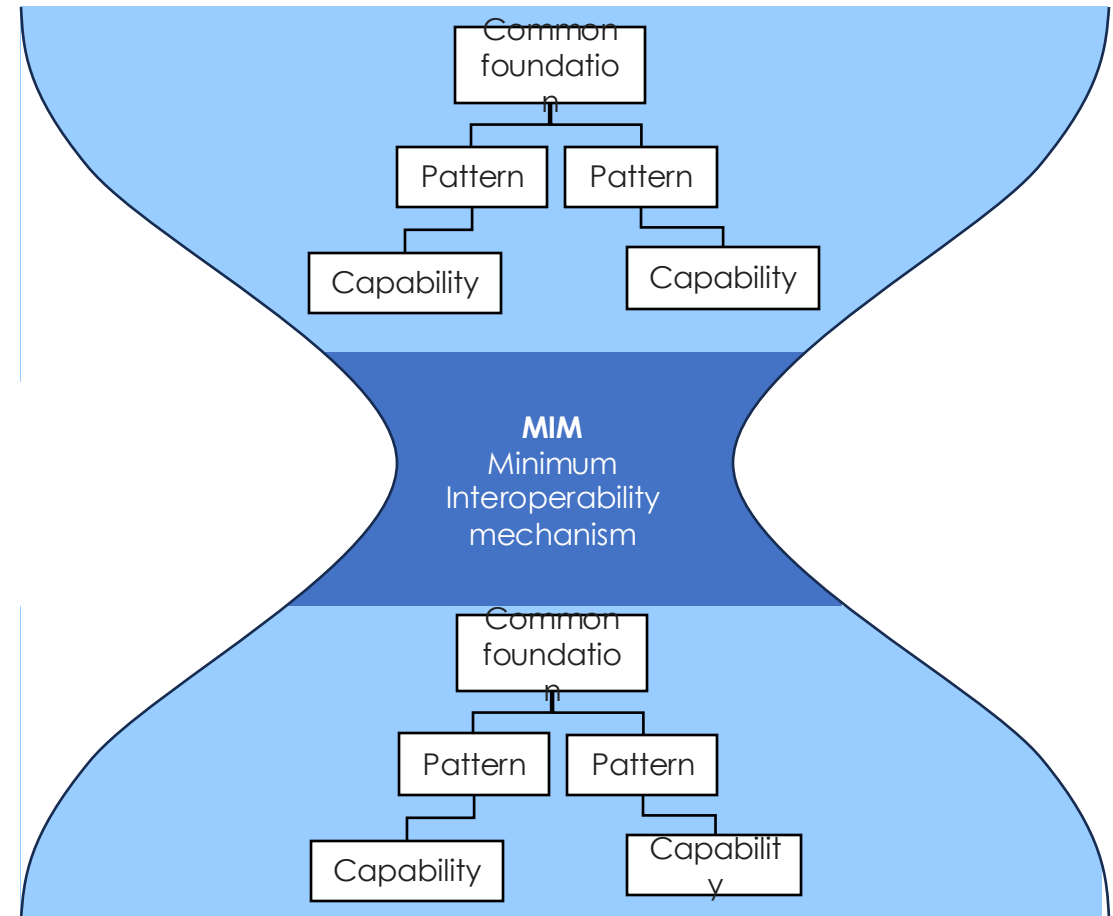
Infrastructure concerns



Supporting the Hourglass Architecture Model Vision

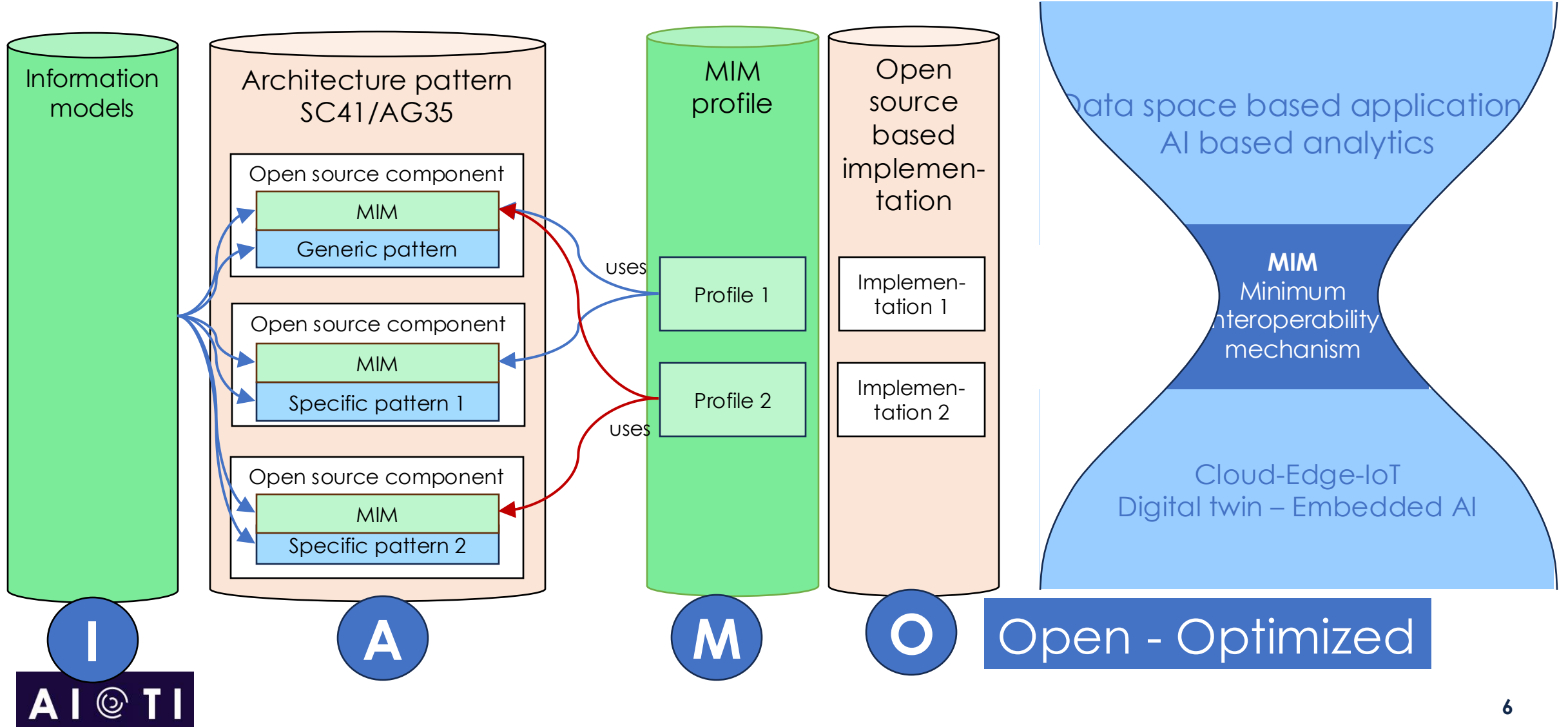
Applications solutions
e.g. data analytics

Infrastructure solutions
e.g. MetaOS, embedded AI
Energy OS, ...



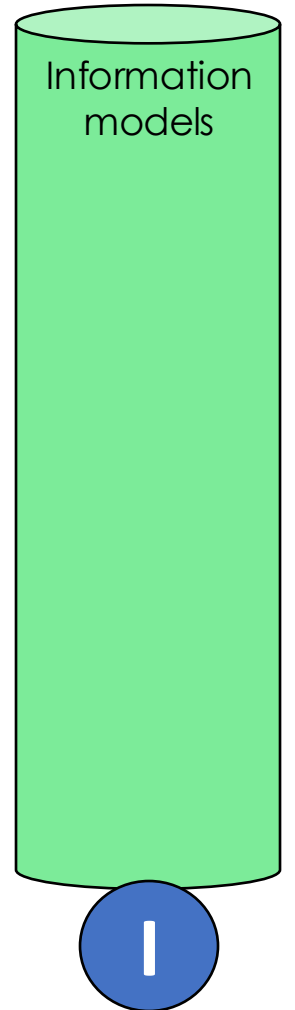
IAMO Repository

Information models – Architecture patterns – Minimum Interoperability Mechanisms profiles – Open-source Based Implementation



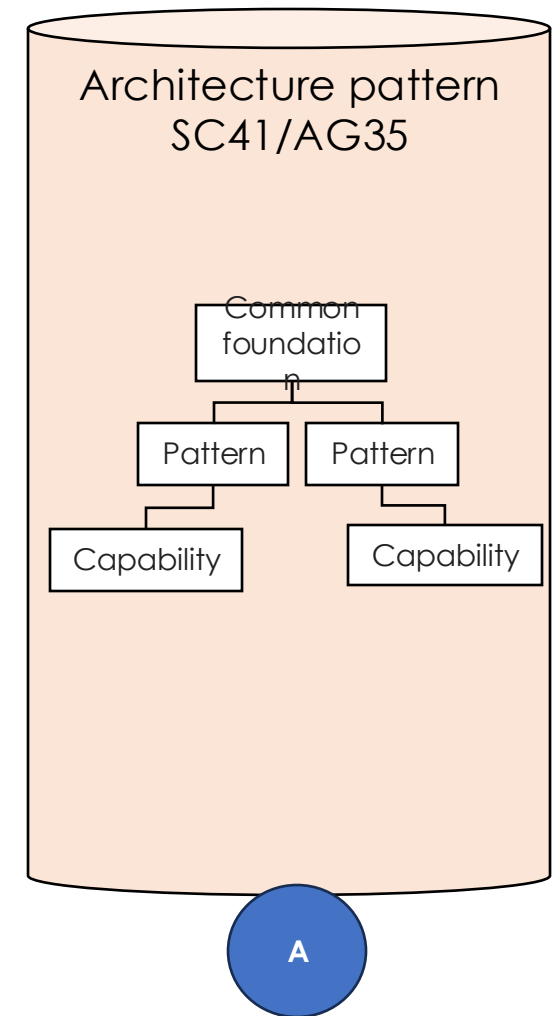
Rationale on Information Models

- Semantic interoperability
- EC rolling plan
 - Extend information models to support cross domain



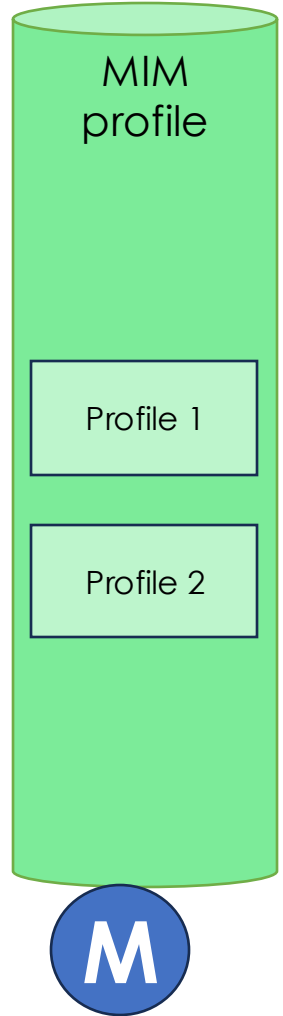
Rationale on Architecture Patterns

- Common architecture
- EC rolling plan
 - Standard project on Architecture consideration IoT-Edge-Cloud
 - Contribution of EU Cloud Edge IoT TF Architecture to ISO/IEC JTC 1/SC 41 (IoT and digital twin)



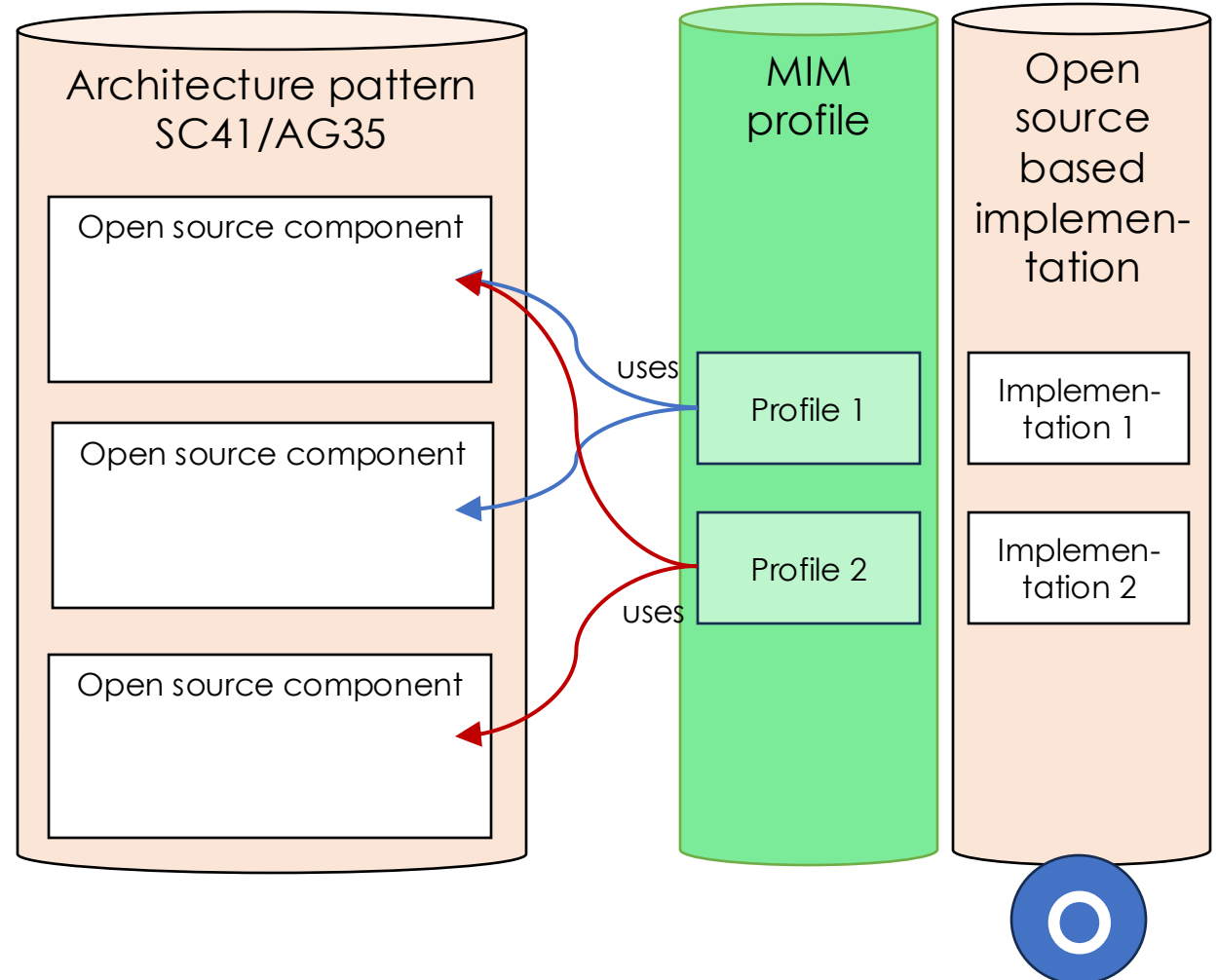
Rationale on Profiles

- Smart city interoperability
- EC rolling plan
 - Minimum Interoperability Mechanisms standards



Rationale on Open Source

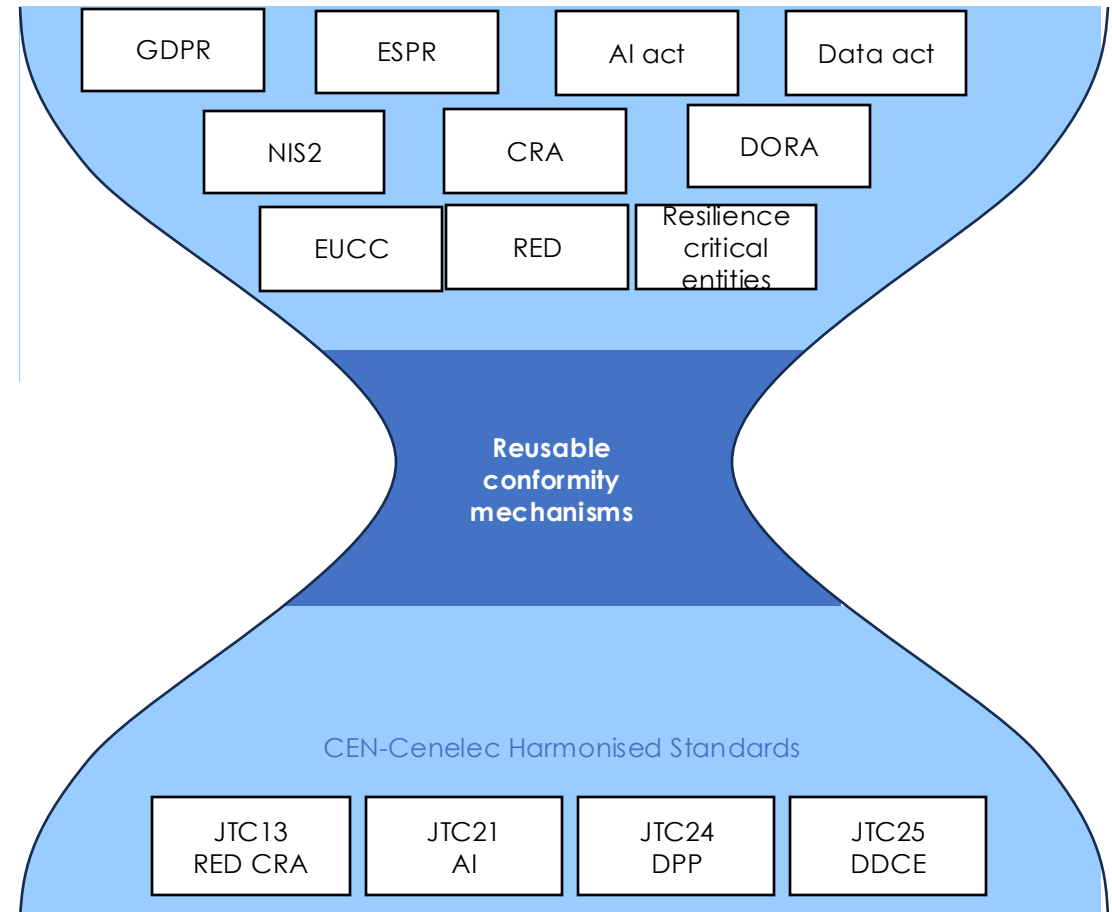
- Reusable components
- EC rolling plan
 - Open source development standards



Can be Used for Future Conformity

Regulations

Optimised infrastructure
Supporting harmonized
standards





Thank you for listening

Any questions?

You can email us at sg@aioti.eu