
CP-SETIS

*towards **Cyber-Physical Systems Engineering**
Tool Interoperability **Standardization***

Overview

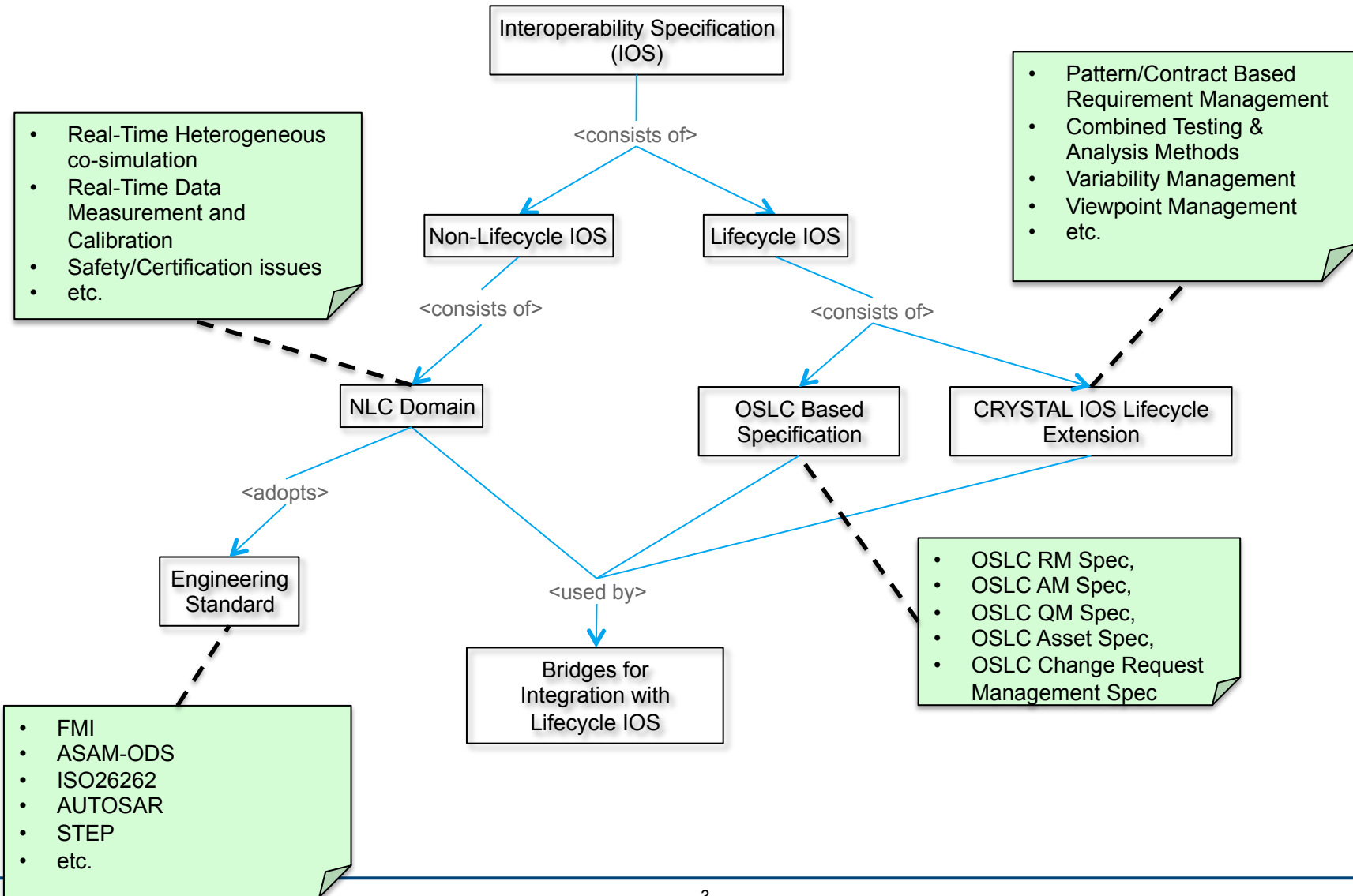
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Context and current situation

- Current situation is characterized by a **wide variety of activities**, which are only **partly coordinated**
 - Many **follow-up projects** building and extending CESAR and iFEST results (for the ARTEMIS eco-system)
 - MBAT, CRYSTAL, EMC2, DANSE, D3COS, HOLIDES
 - Using IOS, Extensions of IOS, pre-standardization activities
 - **New projects** emerging that **aim at interoperability** solutions for development tools
 - Interoperability related projects are step-by-step converging towards a common definition of the IOS
 - bridging the gap between the Systems Engineering and the IT worlds

CRYSTAL High Level IOS Architecture



Challenges

1. Organizational & Strategical

- A common vision and mission, shared by all major stakeholders, for supporting lifecycle data and tool interoperability for CPS Engineering has to be established urgently
- Aligning the as yet only partially coordinated European IOS-related activities and paving the way for establishing the IOS as a major standard in CPS Engineering.

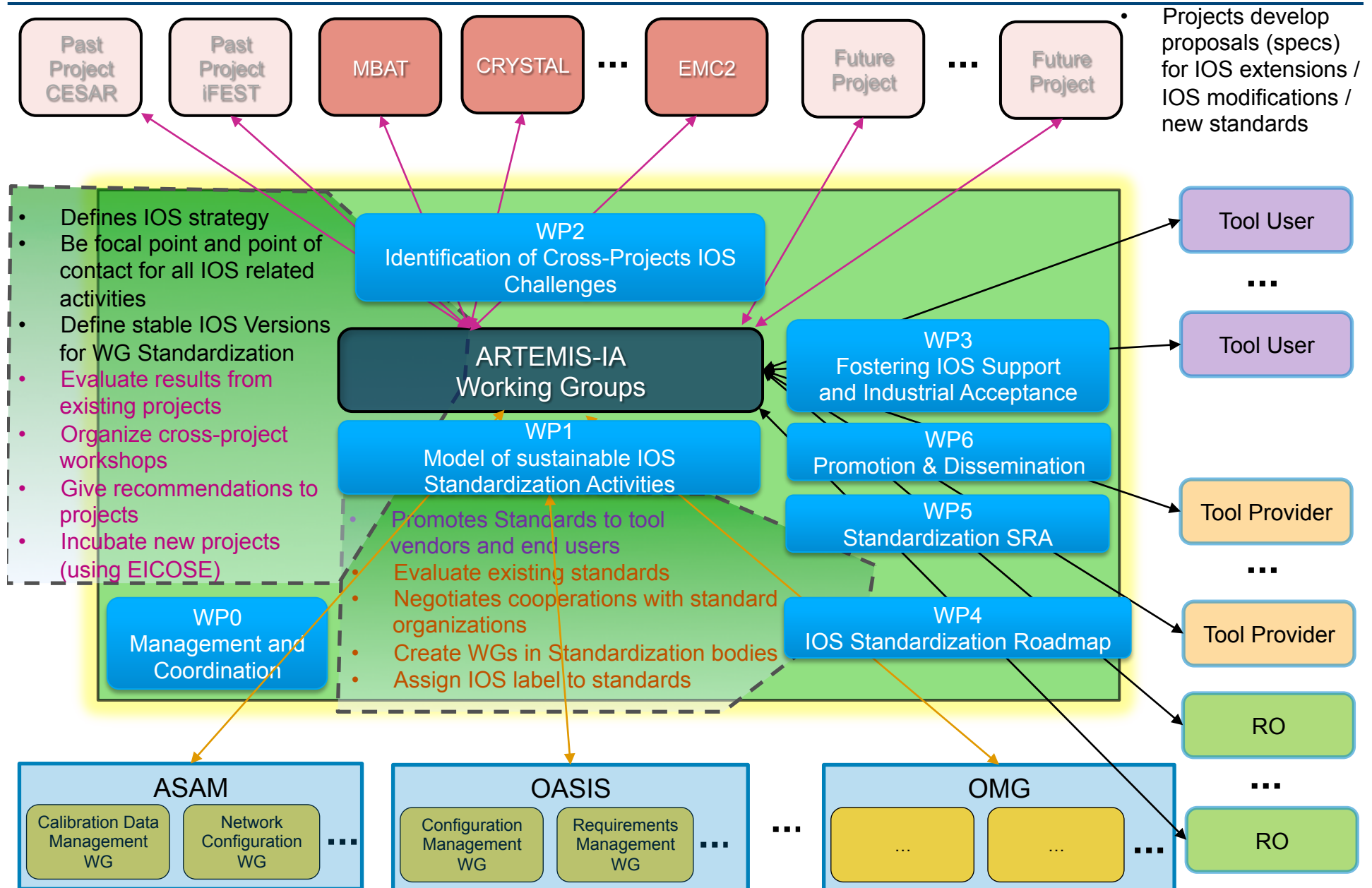
2. Technical

- Coordination of IOS cross-project extensions (complementary & orthogonal concerns)
- A clear bridge has to be defined between the on-going definition of the IOS and other wide spread Interoperability and Engineering Standards commonly used by European developing organizations

CP-SETIS Goals

- **Align all IOS related forces** within Europe to support a **common IOS Standardization Strategy**, aiming at **formal standardization** process of the IOS
- The definition and implementation of **sustainable IOS Standardization Activities** supporting both, formal standardization of 'stable' IOS versions as well as extensions of IOS, if possible within existing structures that survive the lifespan of single projects

CP-SETIS WPs & Possible Implementation



Partners

Core Partners

Austrian Institute of Technology (AIT), Austria

ARTEMIS-IA Industrial Association, Europe

AVL, Austria

Royal Institute of Technology (KTH), Sweden

OFFIS, Germany

SafeTRANS, Germany (coordinator)

Siemens, Germany

Thales, France

Associated Partners

(initial list to be extended)

ABB, Sweden

Airbus, France, Germany, UK

ASAM, Europe

Daimler, Germany

Volvo, Sweden

**European Telecommunications
Standards Institute (ETSI)**, Europe

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