



AMASS

Architecture-driven, Multi-concern and Seamless Assurance and
Certification of Cyber-Physical Systems

Second AMASS Platform Prototype: An Overview

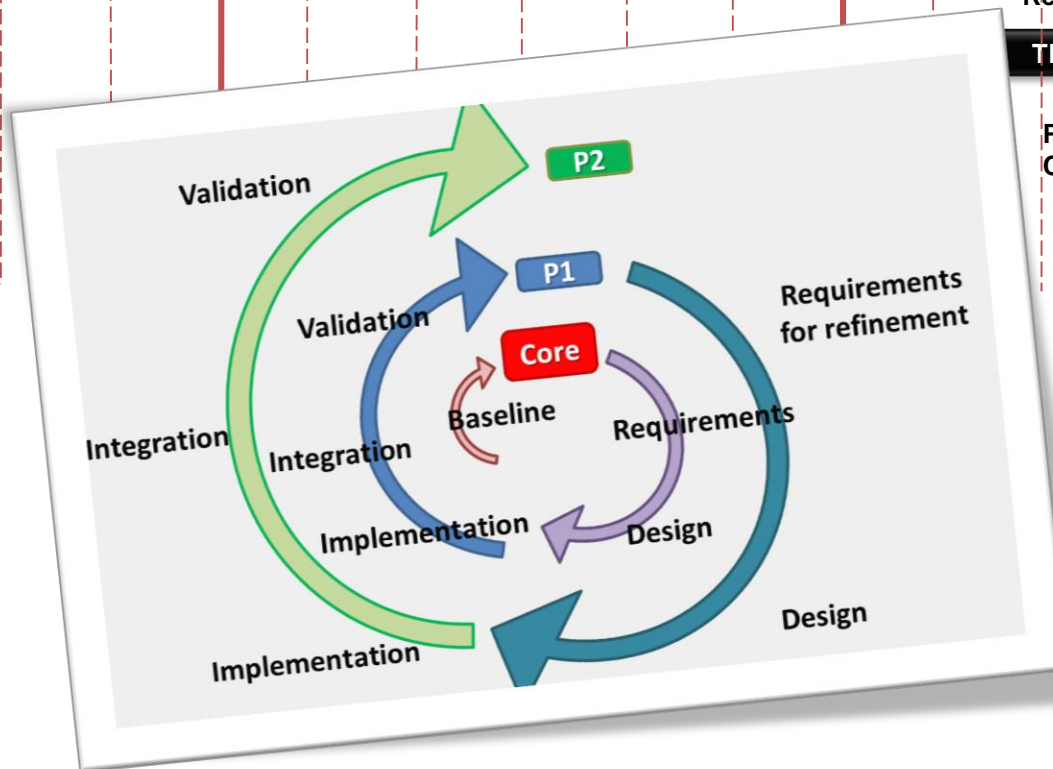
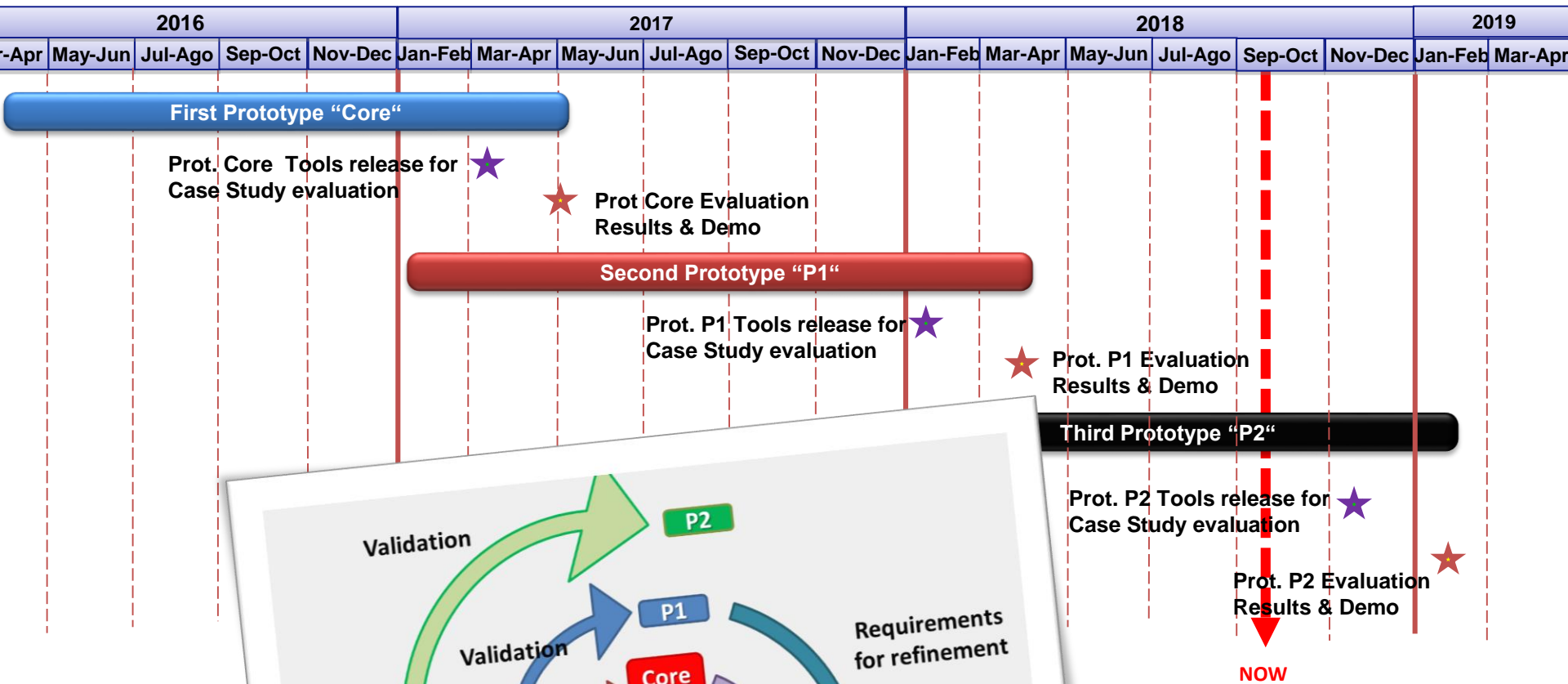
Second EAB Workshop
Västerås, Sept 17, 2018

Huáscar Espinoza
EAB Coordinator



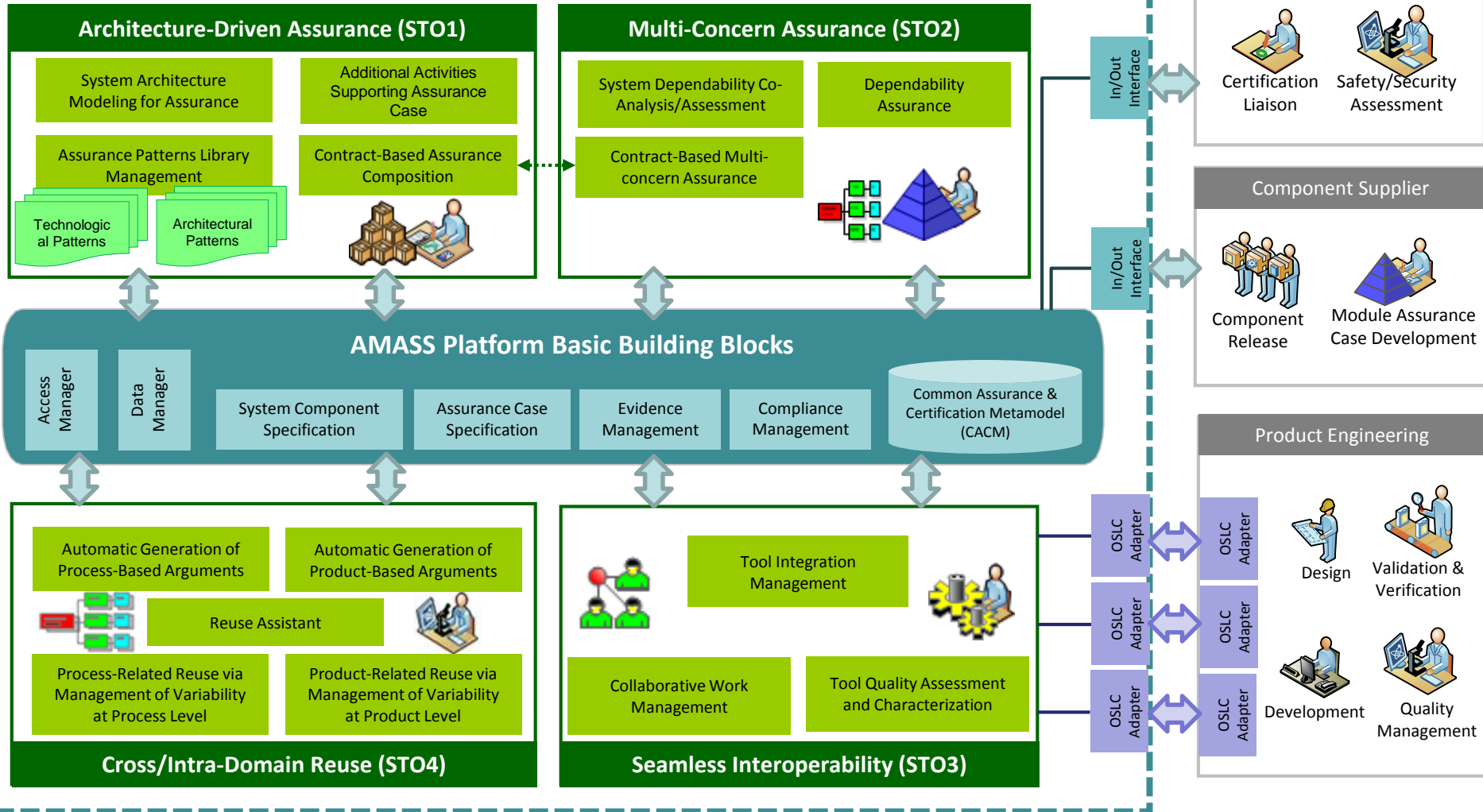
| Prototype Roadmap

Prototypes Schedule



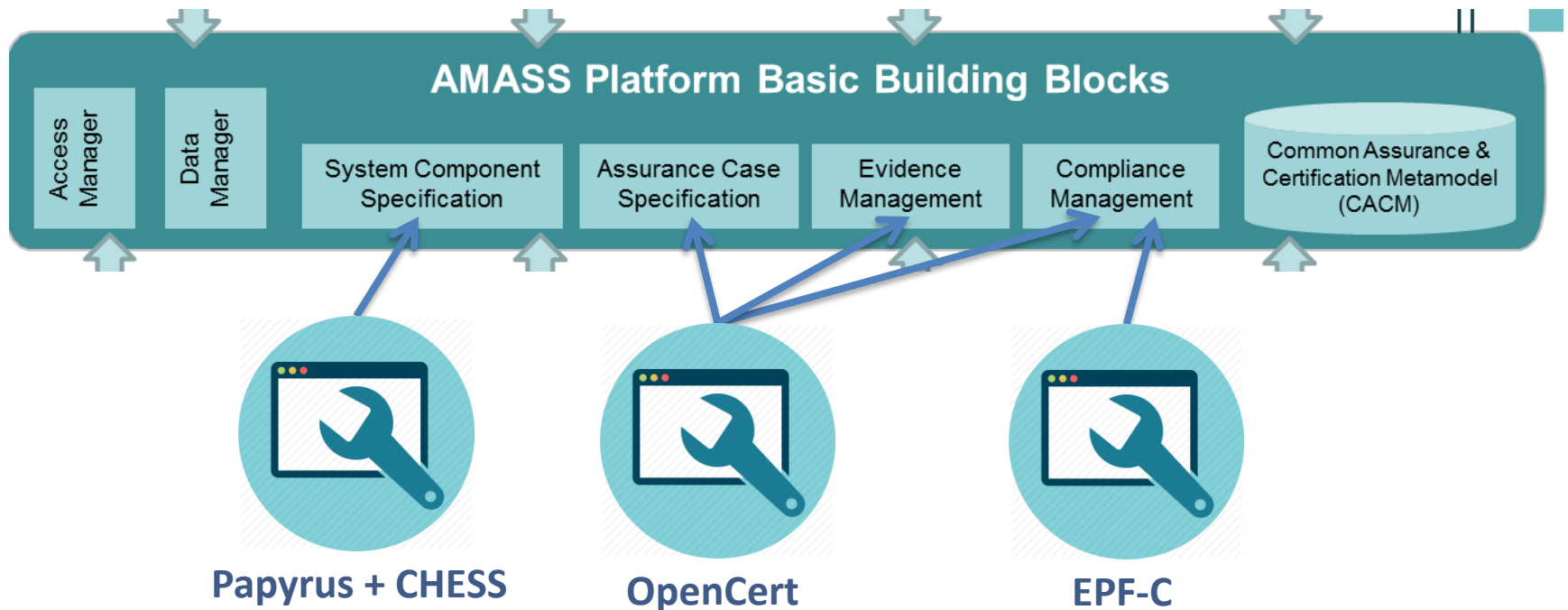
Prototypes Roadmap

AMASS Reference Tool Architecture



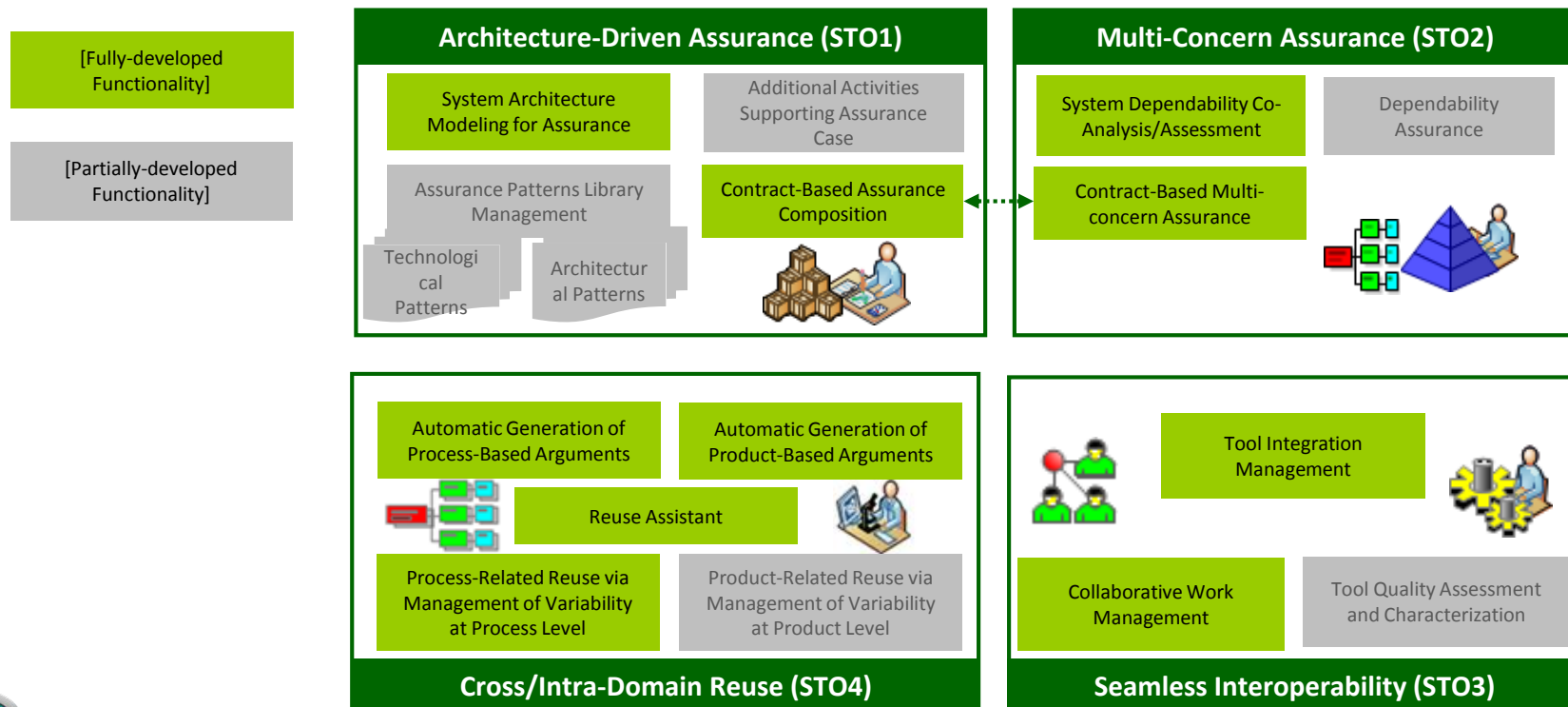
First Prototype “Core”

- ❖ Functional description in D2.2: AMASS Reference Architecture (a)
- ❖ Prototype Core has been built upon 3 pre-existing toolsets:
 1. Tools from Papyrus and CHESSE projects (Eclipse/PolarSys)
 2. Tools from pre-existing OpenCert project (Eclipse /PolarSys)
 3. Tools from EPF (Eclipse Process Framework) project (Eclipse)



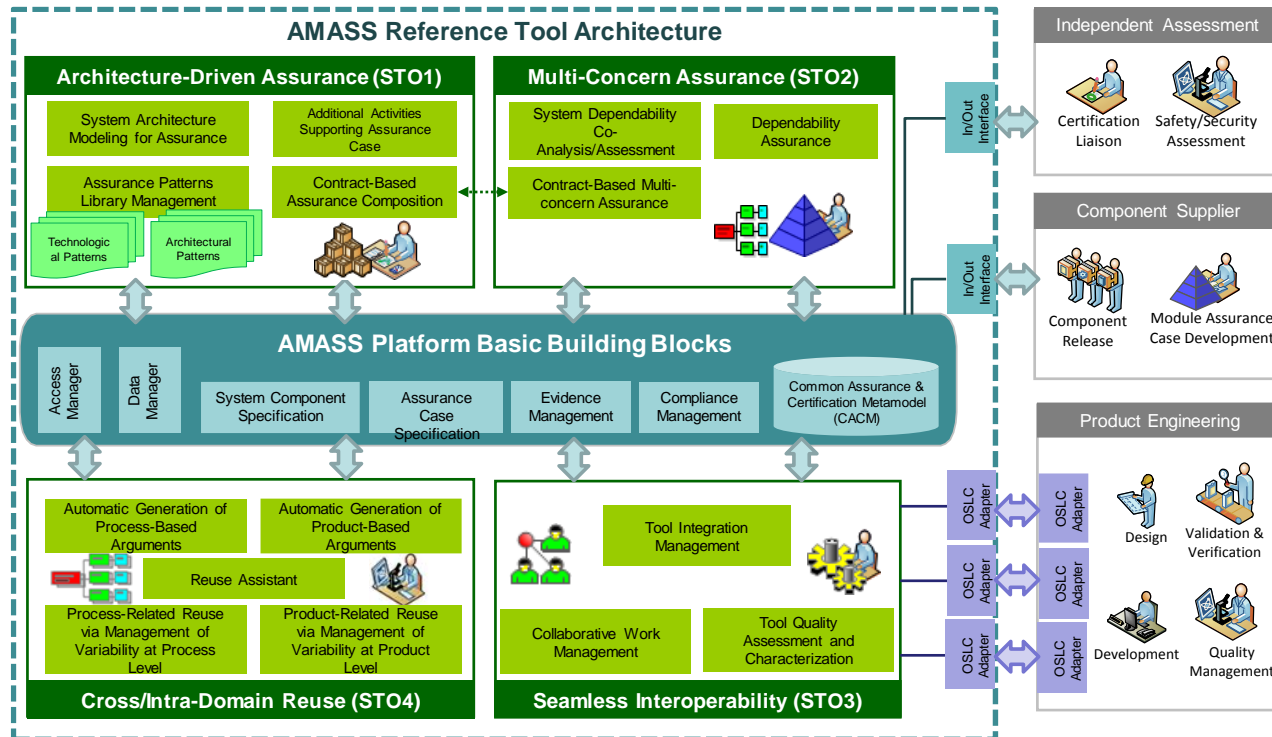
Second Prototype “P1”

- ❖ Partial development of modules linked to AMASS objectives (STO), on top of basic building blocks
- ❖ Adoption of new tools as part of the AMASS platform: BVR (variability), CAPRA (traceability),...
- ❖ Ad-hoc Integration with external tools



(In-progress) Third Prototype “P2”

- ❖ Complete development of modules linked to AMASS objectives (STO), on top of basic building blocks
- ❖ Systematic integration (e.g. OSLC) with relevant external tools
- ❖ Dashboard as embedded guide for AMASS platform users



| Conceptual Dashboard

Deliverable D2.5

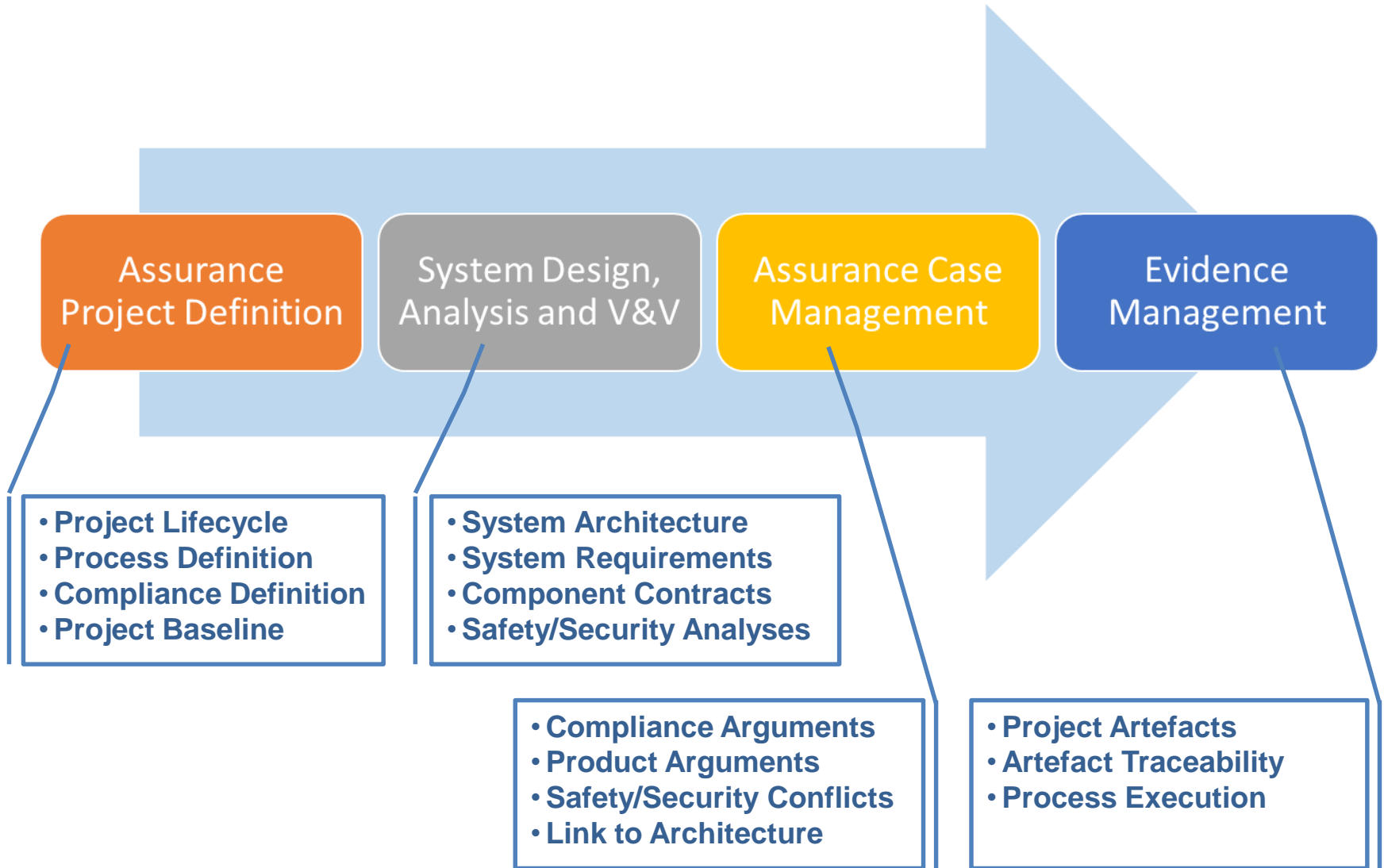
Comprehensive view of the AMASS methodological framework including the steps of the proposed AMASS process and the interfaces between the steps

The intended readers are:

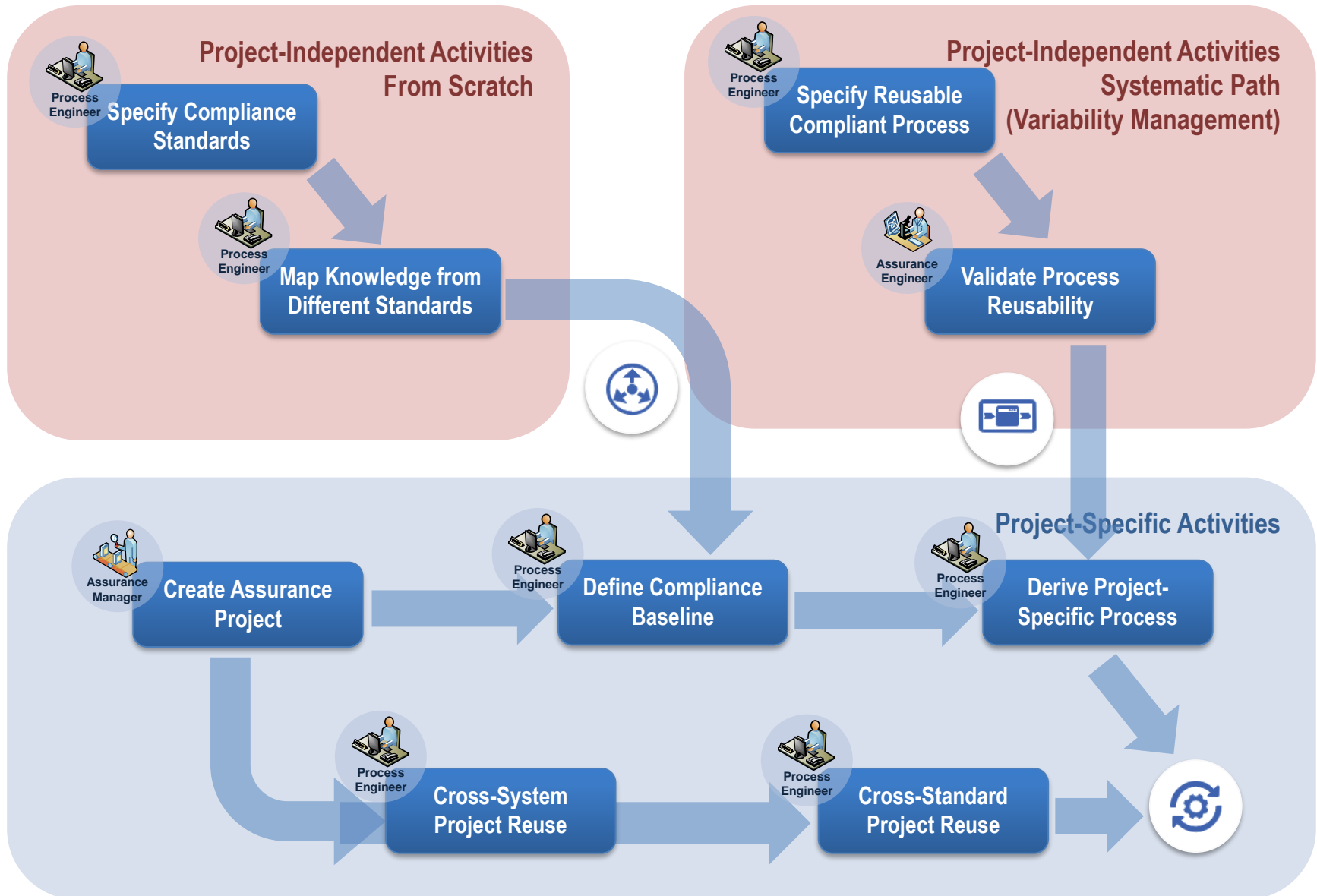
- AMASS Tool Platform Usage Guidance for Users
- Global Methodological Guidance for Users
- AMASS Tool Platform Guidance for Developers

Built upon Methodological Guidelines (Dx.7,Dx.8)

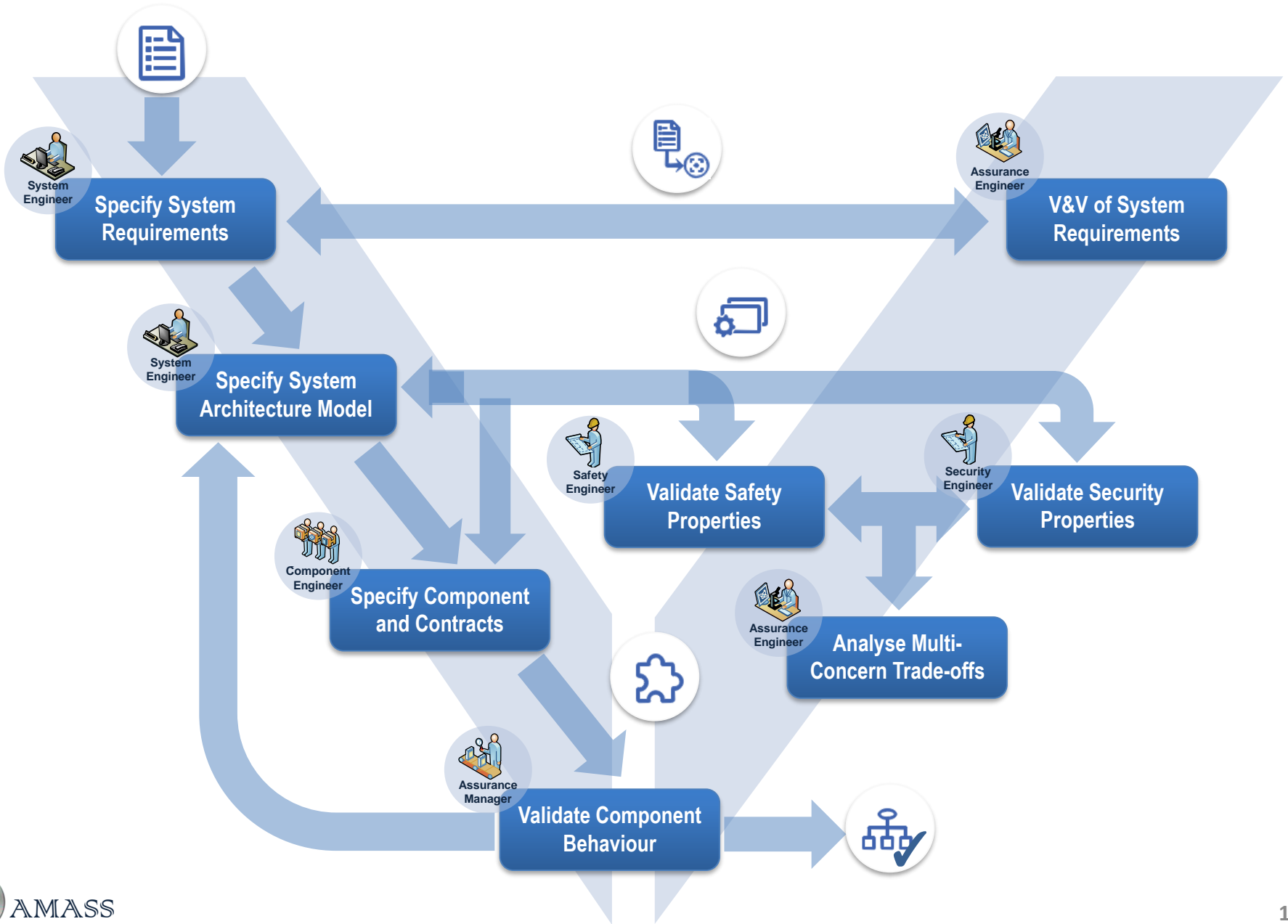
General AMASS Workflow



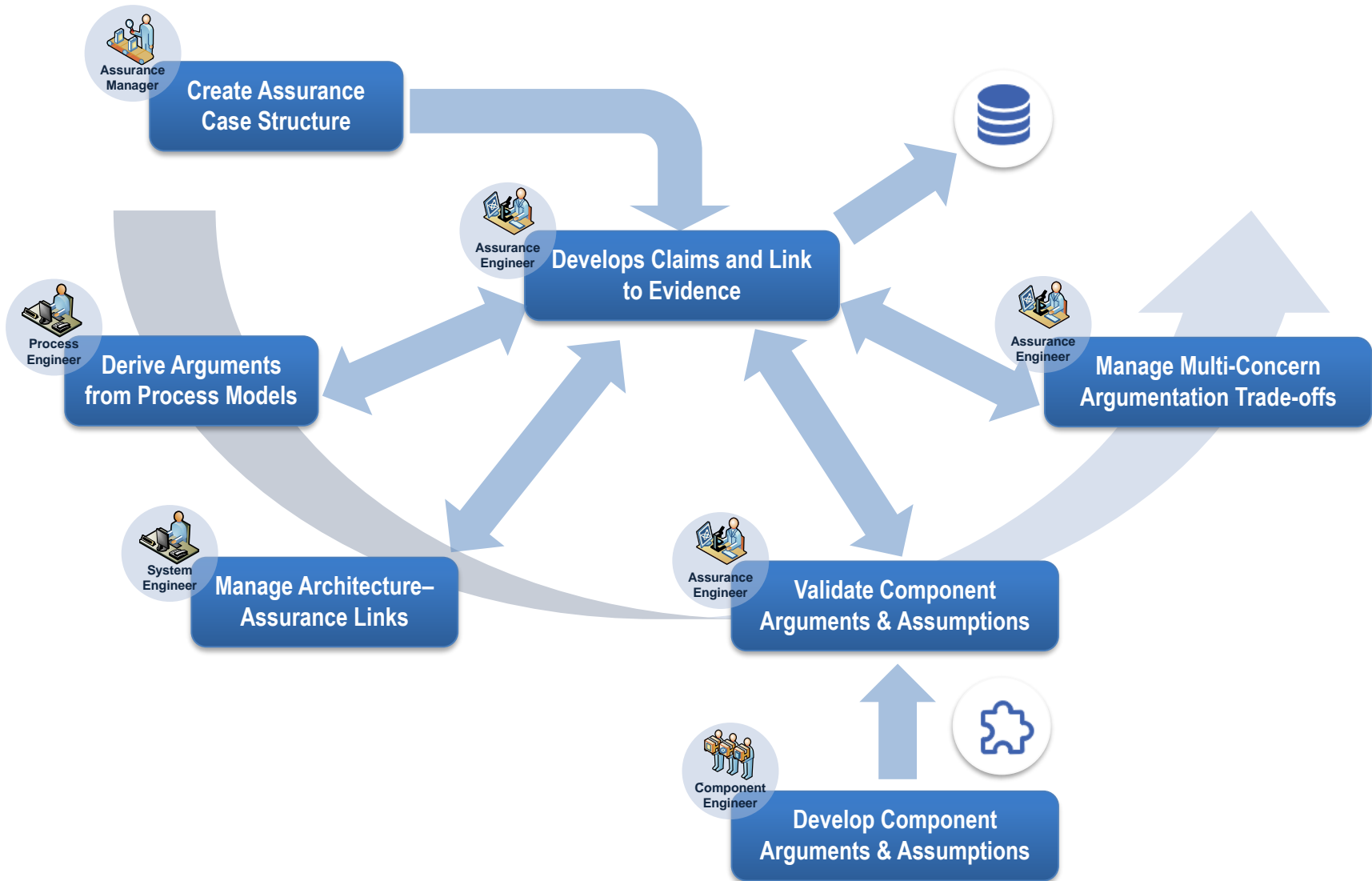
Assurance Project Definition



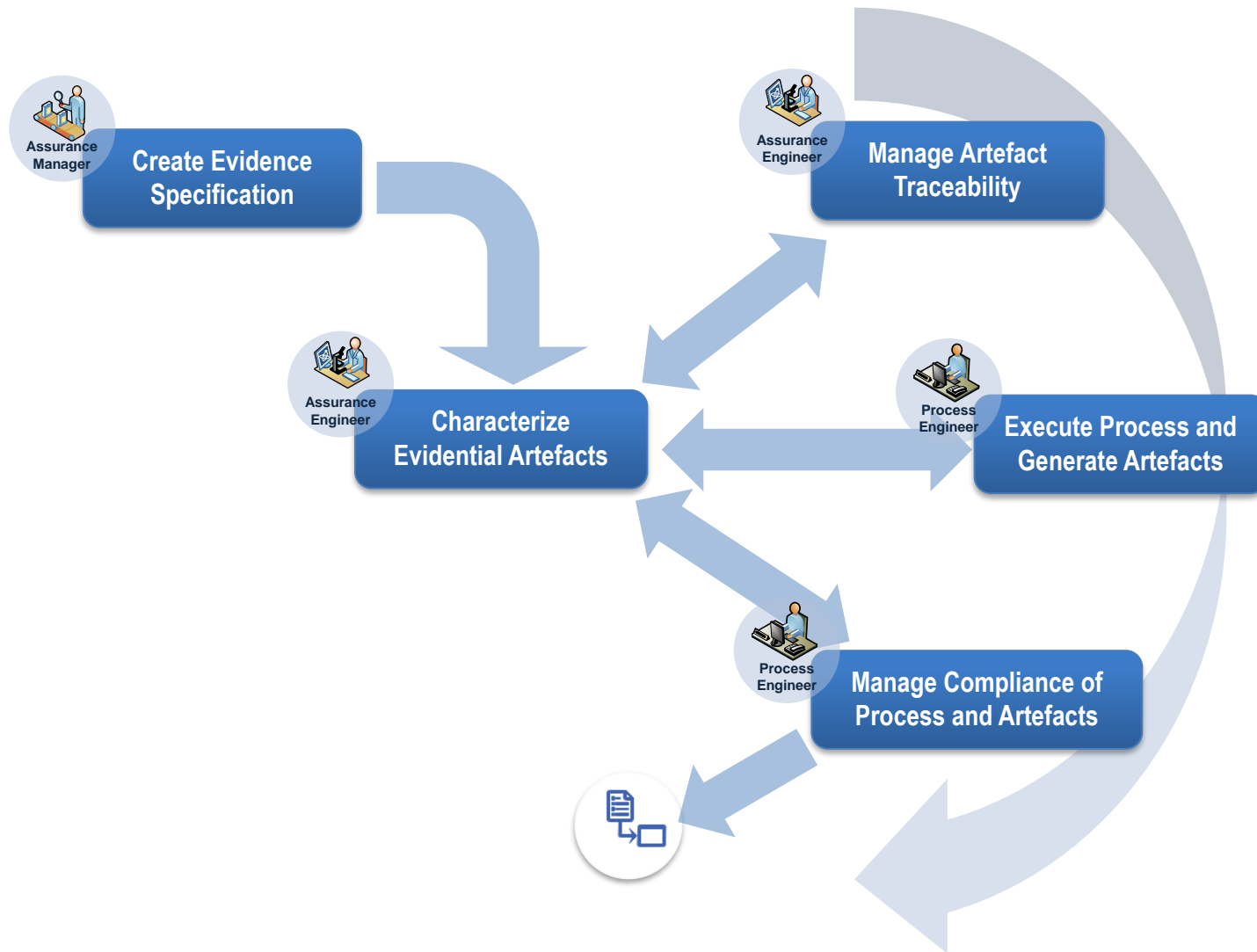
System Design Analysis and V&V



Assurance Case Management

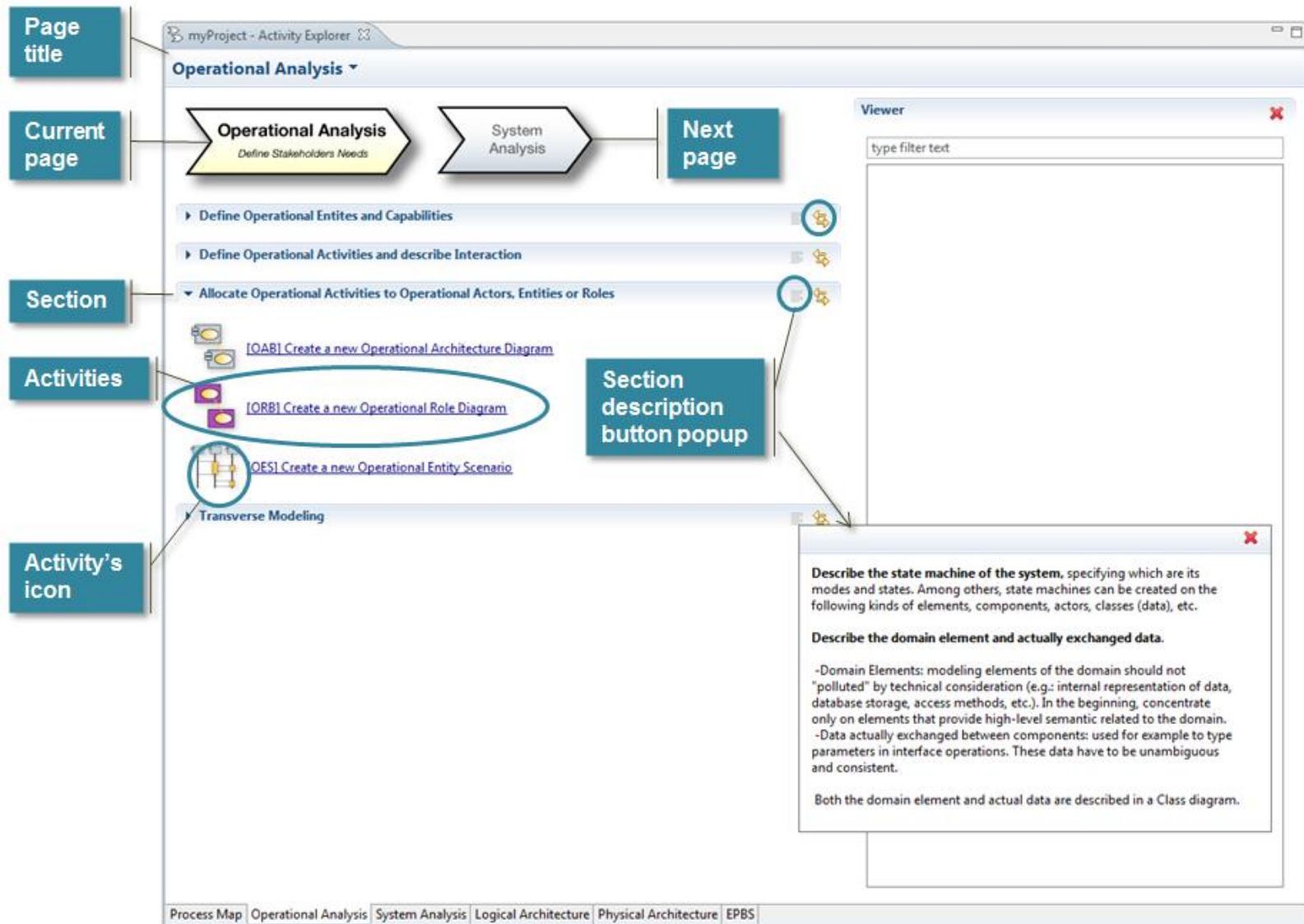


Evidence Management



AMASS Dashboard Implementation (In-progress Work)

On-going discussions; Example of technology: Eclipse Amalgam



Thank you for your attention!



Any questions 

