



AMASS

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

WP7: Community Building

2nd EAB Workshop
Västerås, September 17, 2018

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 **eclipse**
Eclipse Foundation Europe GmbH

Task 7.1 Noteworthy Networking activities

Projects	Networking activities
<u>SafeCOP</u>	SafeCOP (Safe Cooperating Cyber-Physical Systems using Wireless Communication) will establish a safety assurance approach, a platform architecture, and tools for cost-efficient and practical certification of cooperating CPS. Common workshop organized in Stockholm during Addalot Safety conference 2017 in May.
<u>OMG System Assurance Task Force</u>	This task force specific activities include the development of the SACM specification for assurance case modelling. AMASS Partners (UC3, Tecnia) participate to the Task Force.
<u>CP-SETIS</u>	CP-SETIS (Towards Cyber-Physical Systems Engineering Tools Interoperability Standardization) is a support-action type IA of Horizon 2020 aiming at harmonizing and creating a sustainable infrastructure for maintaining the IOS (Interoperability Specification) set of standards. Connection through the participation of some partners to to both projects (AIT).
<u>ESPRESSO</u>	Swedish project aimed at increasing readiness to comply with ISO-26262. Collaboration of MDH with Scania. Reuse of safety cases.
<u>RobMoSys</u>	Presentation of AMASS to RobMoSys consortium. Considering the use of the AMASS open platform for certification of robots.
<u>AQUAS</u>	AQUAS: proposal of (some) the AMASS platform features to be exploited during the implementation of the co-engineering processes identified by AQUAS. Given talk to AQUAS people at City University of London about AMASS results.
<u>RESSAC</u>	Contacts taken with the RESSACE project team at IRT Saint Exupery with shared presentations about the two projects. RESSAC is about defining a new approach for avionics certification

Task 7.1: Networking and Coordination of EAB

- Establish a community of individuals and organizations
- Ensure the best industrial impact
- Coordinate the inputs and activities of the AMASS Advisory Board

Objectives



- Antonio Priore (Ultra Electronics CONTROLS)
- Javier Ibanez-Guzman (Renault)
- Miren Illarramendi (Mondragon Goi Eskola Polit.)
- Tim Kelly (U. York)
- Johnny Marques (Embraer)
- Anders Sandin (LFV)
- Laurent Fabre (Critical System Labs)
- Ganesh Pai (NASA)
- Markus Wallmyr (CrossControl AB)
- Timo Varkoi (Spinet)
- Marion Lepmets (SoftComply)
- Kurt Tschabuschnig (MAGNA STEYR Engineering AG & Co KG)
- Pascual Breton, Raquel Arriba (CAF)

13 Members



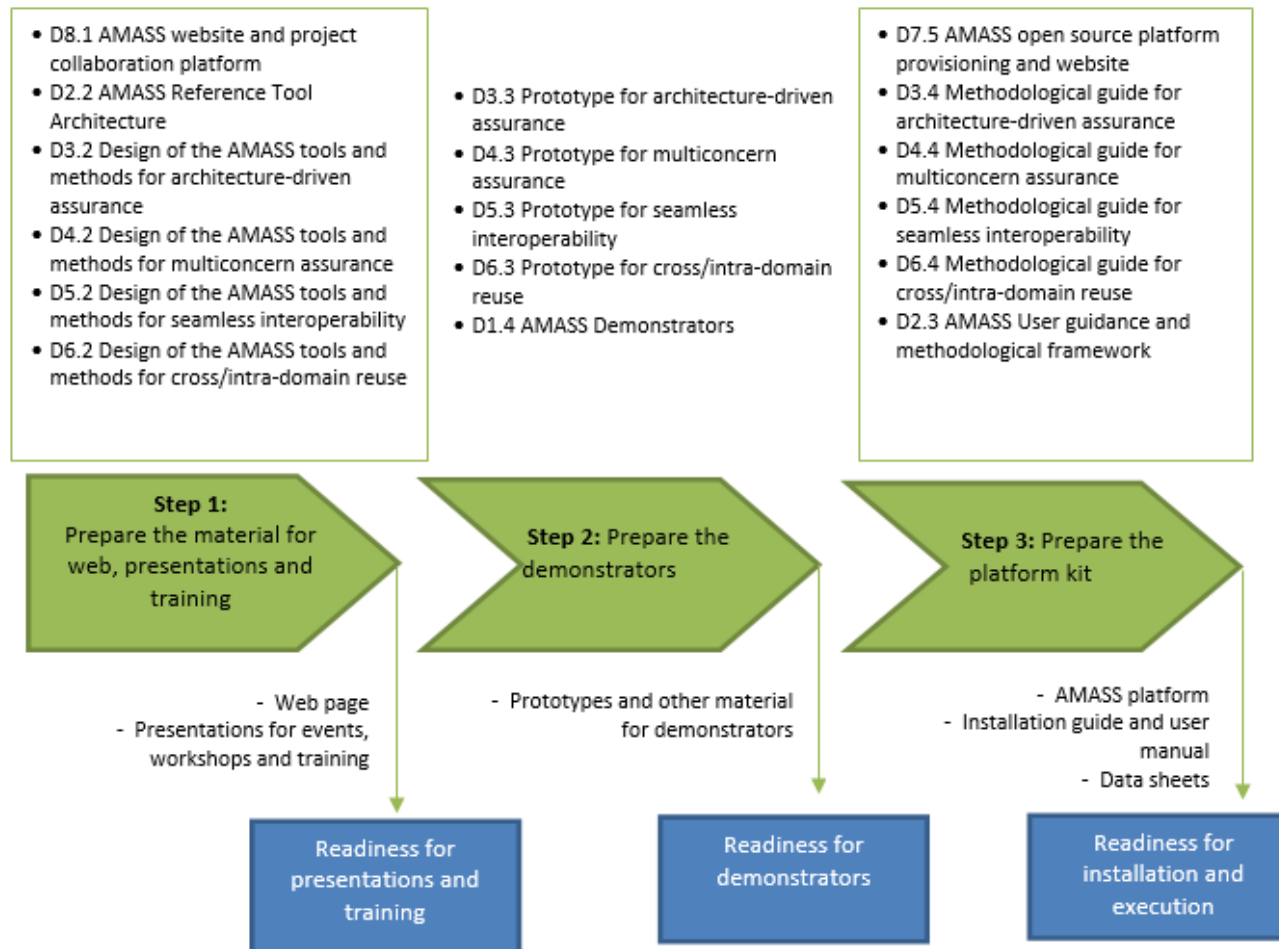
- First EAB workshop in September 2017
- EAB teleconference in May 2018
- EAB feedback and brainstorming
- Second EAB workshop planned in September 2018

Events



T7.2 Industrial Adoption Program – Phase 2

- Roadmap for Industry/Policy Makers user groups



T7.2 Identified results to promote

Item nº	WP1 Result	Deliverables	Tools	Means	General Audience	Actions	Barriers to Entry
1	First Prototype analysis implementation	D.1.4	OpenCert, Papyrus	Training and demonstrations	Industry	<ol style="list-style-type: none"> 1. Contact with different departments of TAS-E 2. Explain the project and send information 3. Demonstration 4. Training 5. Give access to the tools and documentation 	<ol style="list-style-type: none"> 1. Time and effort needed 2. lack of awareness 3. lack of interest
2	Data Acquisition related to Standards	D.1.2	-	Documentation & Information	Industry	<ol style="list-style-type: none"> 1. Contact with different People and departments 2. Obtain the information 3. Summarize information 4. Send Information 	<ol style="list-style-type: none"> 1. Time and effort needed 2. lack of awareness

Item nº	WP5 Result	Deliverables	Tools	Means	General Audience	Actions	Barriers to Entry
1	Evidence Management tool in OpenCert	D5.4, D5.5	Core Prototype and P1	Training and demonstrations	Industry	Demonstration of OpenCert to third parties, e.g. at industry-targeted events	Need for acceptance of the use of Eclipse technologies
2	OSLC-KM approach for tool interoperability	D5.2, D5.4	Prototype P1	Training and demonstrations	Industry	Prepare some video, and next (1) uploaded to the AMASS website and the YouTube Channel, and (2) distribute the links to external parties (e.g. through LinkedIn)	Insufficient integration features for a company's specific toolchain
3	OSLC-based approaches for V&V tool integration	D5.2, D5.4	Prototype P1	Training and demonstrations	Industry	Prepare some video, and next (1) uploaded to the AMASS website and the YouTube Channel, and (2) distribute the links to external parties (e.g. through LinkedIn)	Insufficient integration features for a company's specific toolchain

T7.2 Results promotion strategy

- **Results to promote**

AMASS Platform prototype P1

First Prototype Analysis Implementation

Data acquisition related standards

Contract-based design @ analysis

Evidence management tool

Assurance process management tool

- **Barriers to entry**

Time and effort needed

Lack of awareness

Lack of interest

Maturity of the approach

Impact on current practices

Insufficient integration with company's specific toolchain

- **Audiences**

General audience

Industry

Specific audience

Internal partners

Companies interested in OpenCert

- **Possible actions**

Trainings and videos (see WP8)

Promote access to the tools and docs

Select few beta test companies

Provide demonstrations


Send explanation and information about the project to companies

Get feedbacks from users

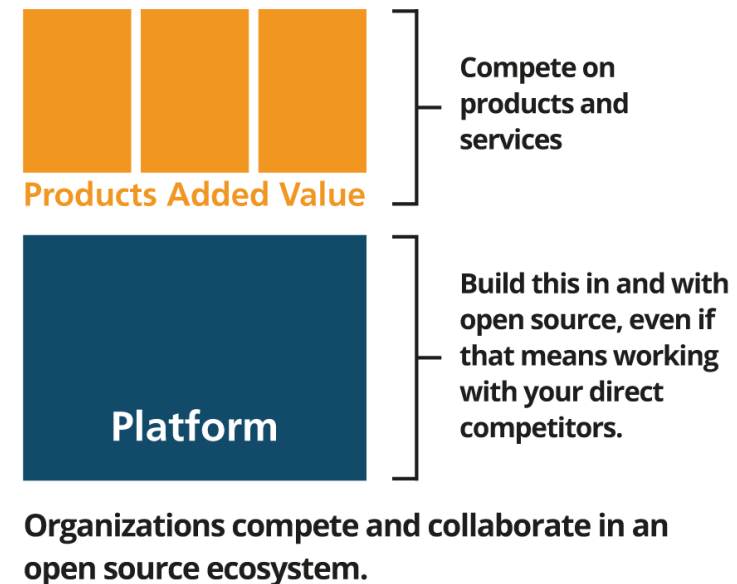
Task 7.3: Creation and Coordination of AMASS open source community

- The AMASS Open Platform as a new platform for new safety and process assurance approaches.

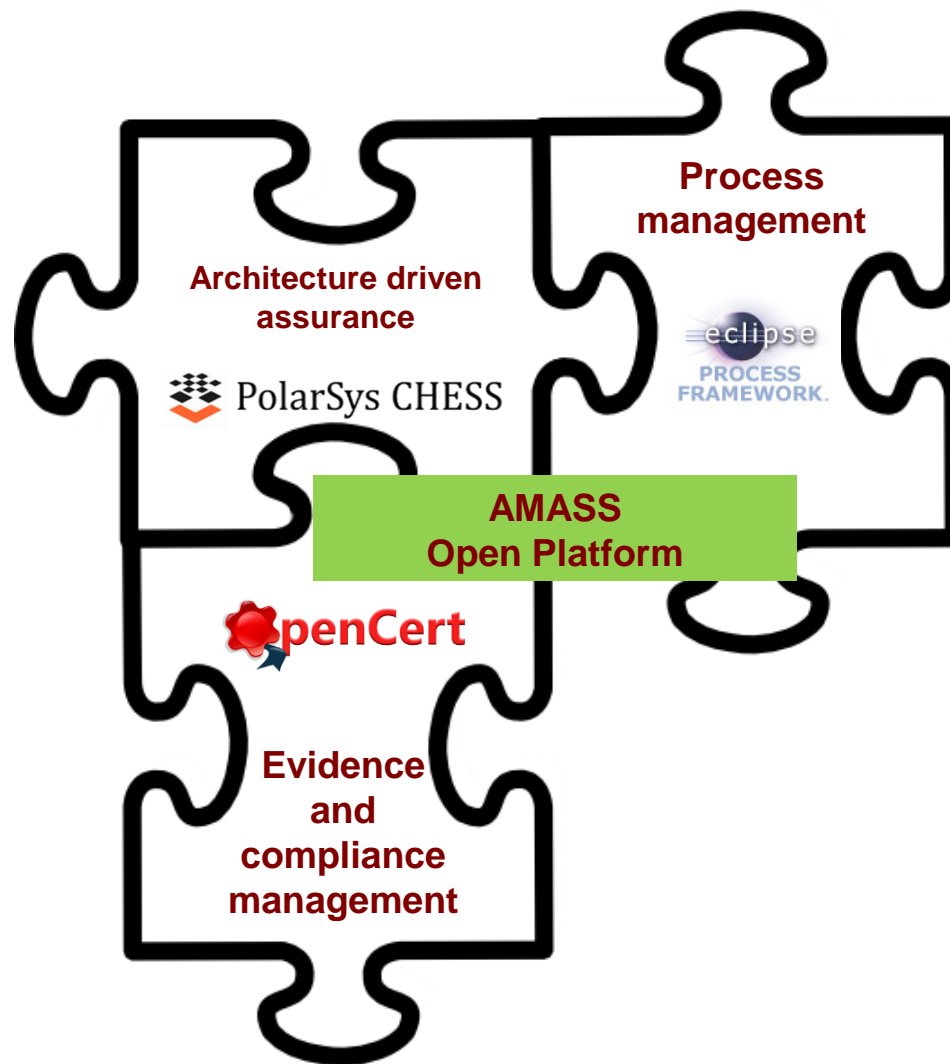
- Enable open collaboration

- Hosted at  POLARSYS

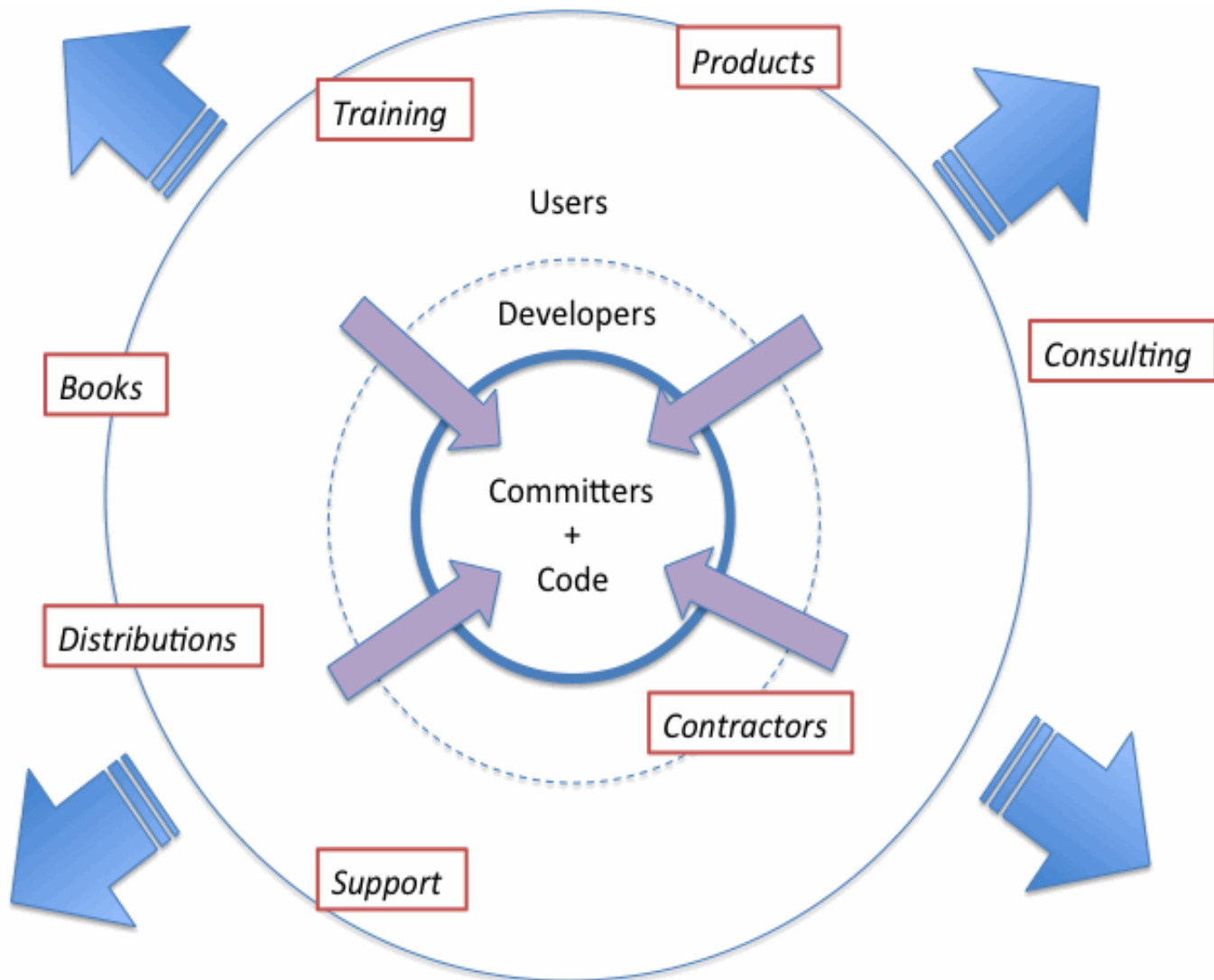
- An  eclipse Working Group



Task 7.3: The AMASS Open Source Platform



Task 7.3: Developing the open source ecosystem

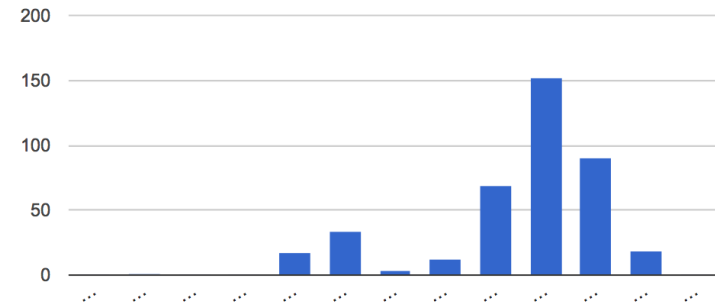


Source: Patterns and practices for open source software success
<https://opensource.com/business/13/8/oss-patterns-and-practices>

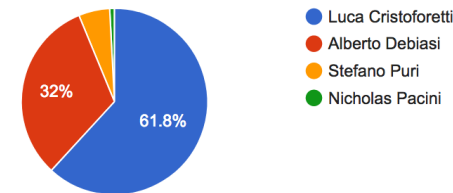
Task 7.3: Main achievements

- New committers for CHESS
- New committers for OpenCert
- OpenCert finished its IP due diligences and moved all the development in public
- Collaboration with Eclipse Process Framework
 - Porting to the latest version of Eclipse
 - Collaboration with IBM
 - MDH became committer of the project
 - Presentation in plenary session at the upcoming EclipseCon France in Toulouse

Commits on this project (last 12 months).

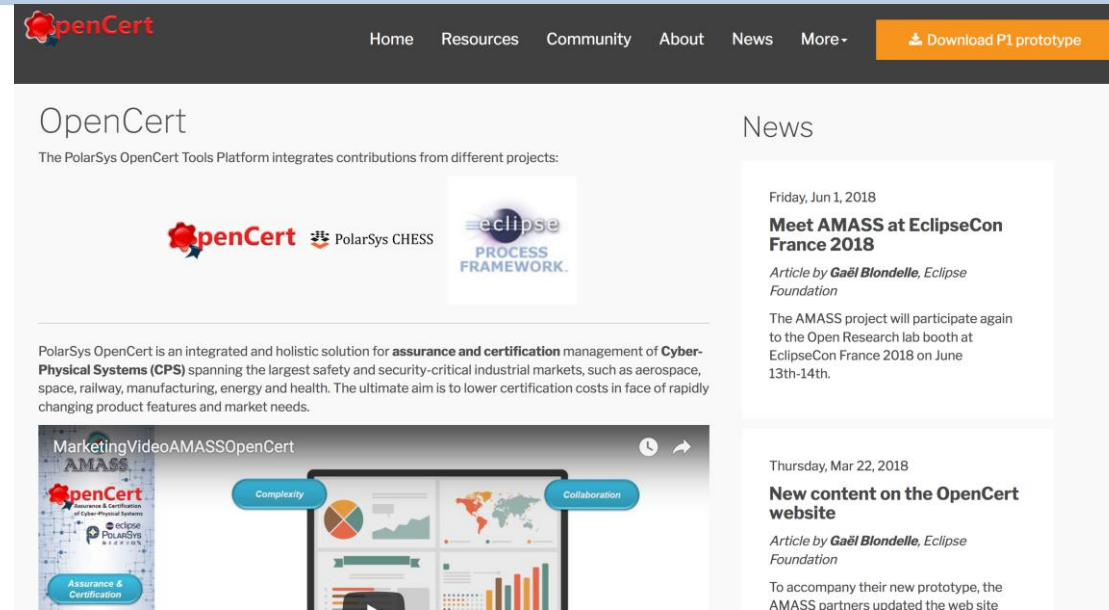


Commits on this project by individuals over the last three months.



Task 7.3: Promoting OpenCert and the AMASS open platform

- Updates to the website
- GDPR compliant
- Also managed as an open source project
- Every project committer can update the website
 - Reviews by other committers before pushing to the website.



Achievements

- Successful collaboration with the Eclipse Process Framework (EPF) project
- Development of the open source community around CHES and OpenCert
- Presentation at EclipseCon France
 - On the Open Research Labs booth
 - In plenary session (~250 attendees)
- Publication of an article in the Eclipse newsletter in July (250000 subscribers and >14% opening rate)

Next steps

- Participation to Certification Together 2019
 - Promotion of AMASS open platform to the industry
 - Ideas for other conferences?
- Promotion of AMASS results to potential users
 - Help us to talk to the right persons

WE NEED YOUR HELP



TO FIND ADOPTERS

Thank you for your attention!



Any questions 

