SPEEDOMETER v0.1
BOOST
k-W
Nm
km/h
193
DASHBOARD
Standar-
disation
PANORAMA

PANORAMA

Standardization and open source

ITEA Award of Excellence 2022 ceremony

15 September 2022

Maria Rimini-Döring

ITEA 4 is the Eureka Cluster on software innovation

PANORAMA

23 partners

5 countries

ITEA 3 Call 4

Apr 2019 – Sep 2022

Smart engineering

Heterogeneous Functional Domains

Integration of heterogeneous function domains

Heterogeneous Hardware

Use of heterogeneous specialized hardware

Heterogeneous Teams

Heterogeneous parties in design & development

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Project consortium

This project has received funding from:

BUSINESS FINLAND
SPONSORED BY THE Federal Ministry of Education and Research
ANI AGÊNCIA NACIONAL DE INOVAÇÃO
TÜBİTAK
VINNOVA Sweden's Innovation Agency

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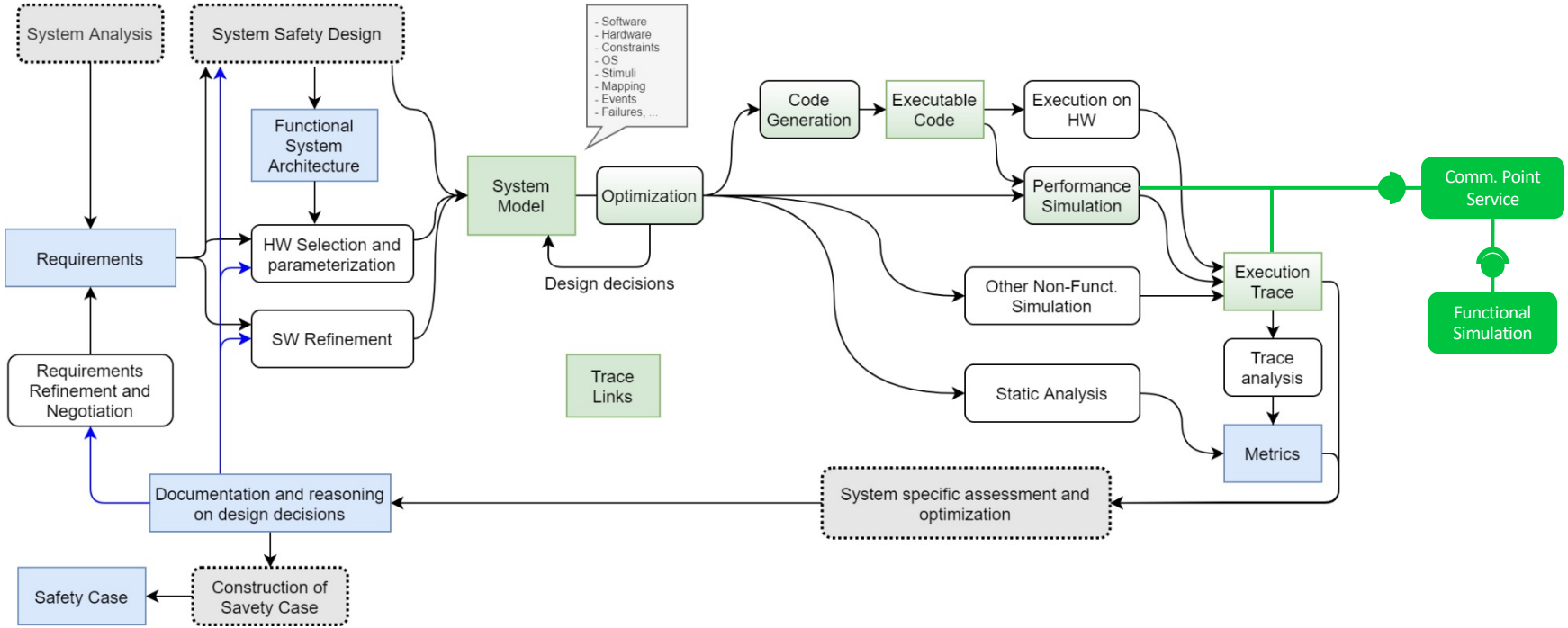
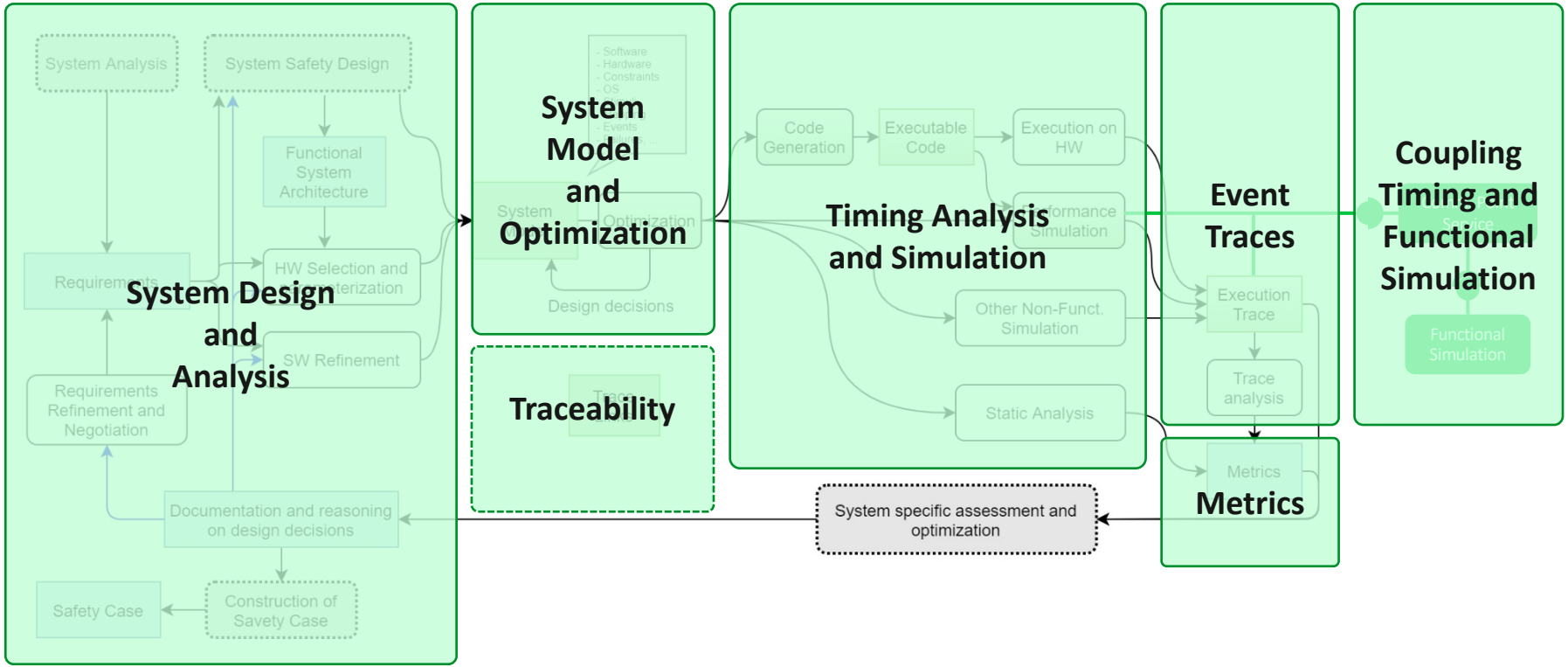
Design Flow for Systems Engineering



Design Flow for Systems Engineering



Standards

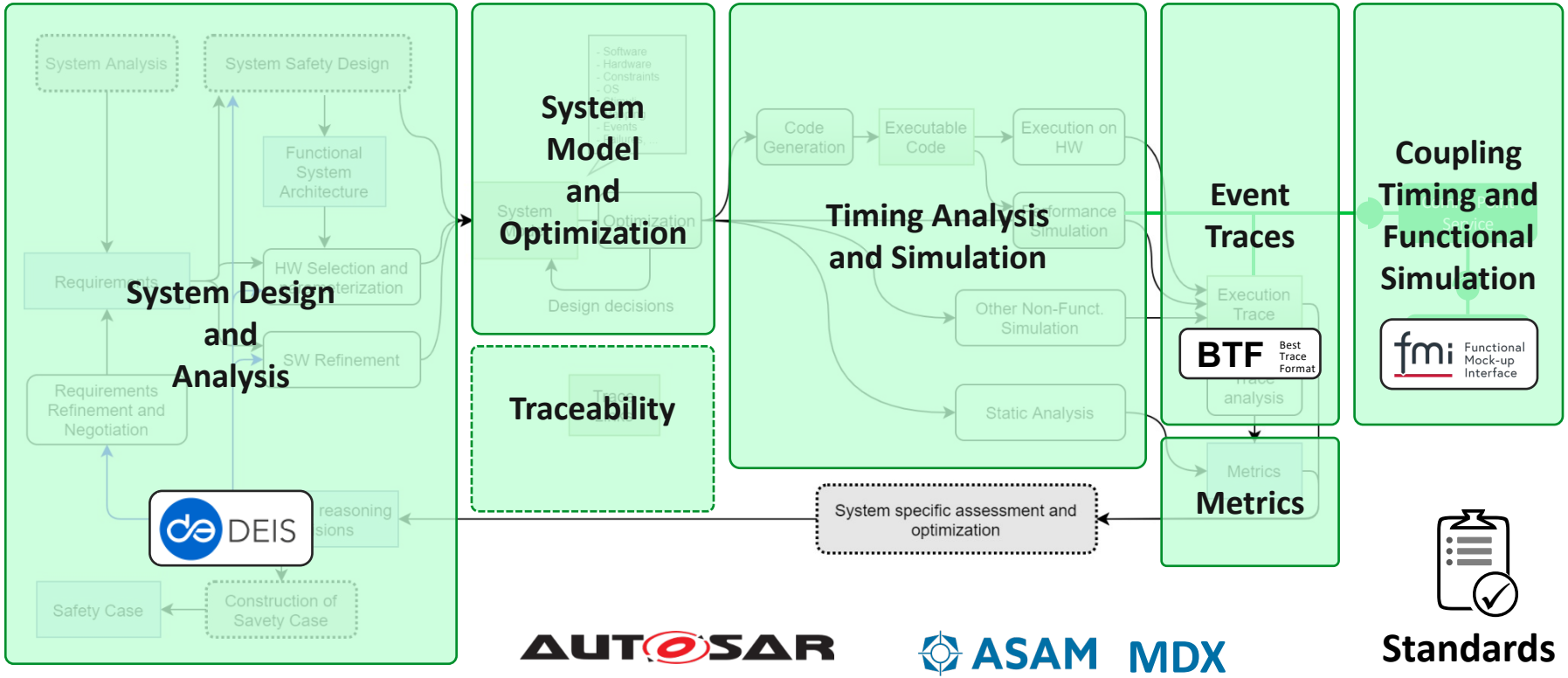
Why do we need Standards?

Standards are needed to

- assure the **safety** of products,
- ensure that products and materials are tailored-made for their purpose,
- promote the **interoperability** of products and services,
- facilitate trade by removing trade barriers, and
- promote **common understanding** of a product.

Source: Small Business Standards (SBS) https://www.sbs-sme.eu

Design Flow for Systems Engineering - Standards



Open Source Contributions

Design Flow for Systems Engineering – open source

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System Design and Analysis

Capella

ODE_Editor

Papyrus

AMALTHEA

System Model and Optimization

APP4MC

Traceability

capra

APP4MC

Timing Analysis and Simulation

ForSyDe

APP4MC

Event Traces

Coupling Timing and Functional Simulation

Metrics

emf

EMF4CPP

eclipse

open source

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Open Collaboration in Eclipse
a business-friendly ecosystem

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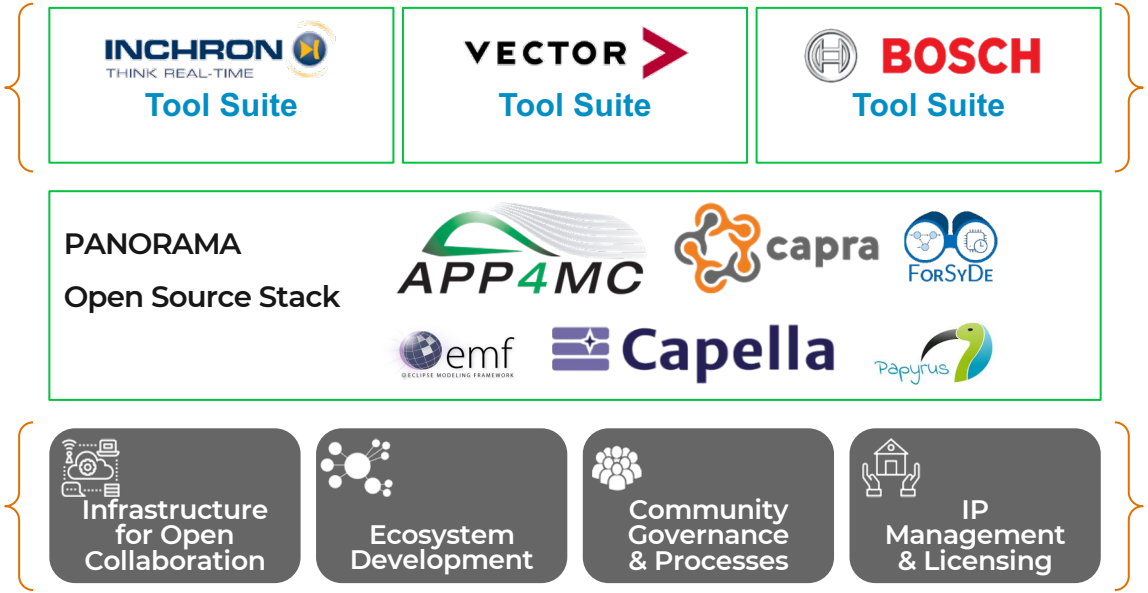

ECLIPSE FOUNDATION

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KPIs

- Maintainability: time reduction from **57** to **12** days
- Efficiency: time reduction for the installation and integration of several tools from **8** to **0.8** hours

ITEA 4

https://itea4.org

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eureka

https://www.eurekanetwork.org

Follow us

https://www.panorama-research.org/

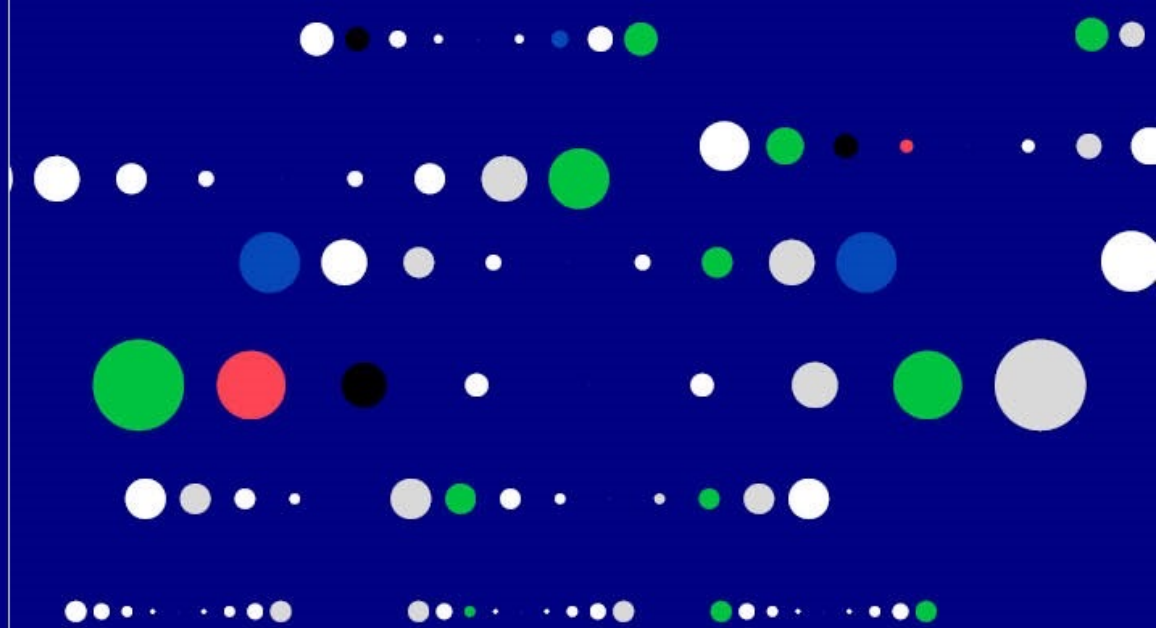
https://itea4.org/project/panorama.html

https://www.eclipse.org/app4mc/

https://twitter.com/PanoramaEng

Thank you

International Collaboration



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Thank you