CLEARSY
SYSTEMS ENGINEERING

Waruna

FUI'19
Waruna project
3rd plenary meeting

Introduction

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2019-01-29

Paris
Lyon
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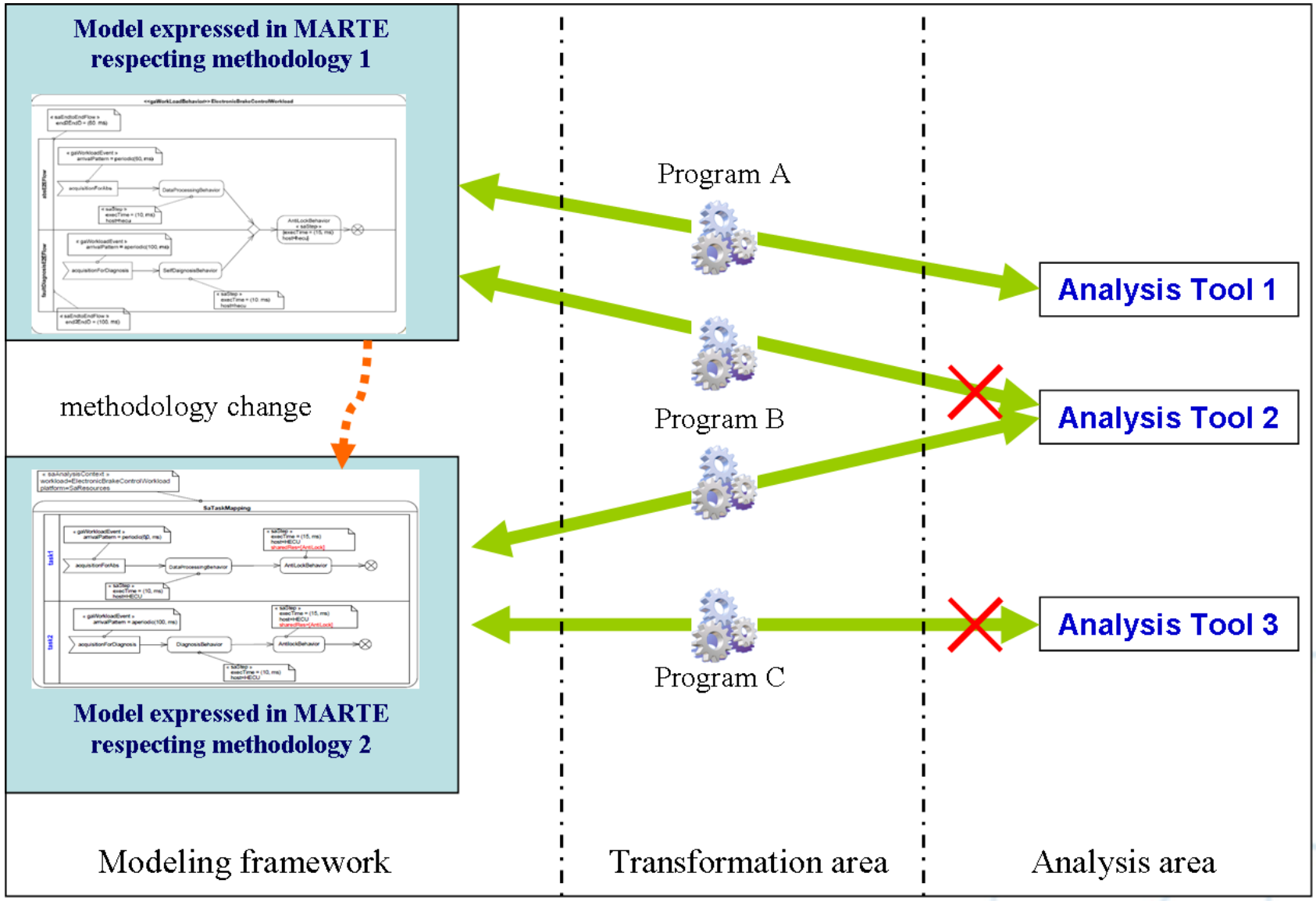
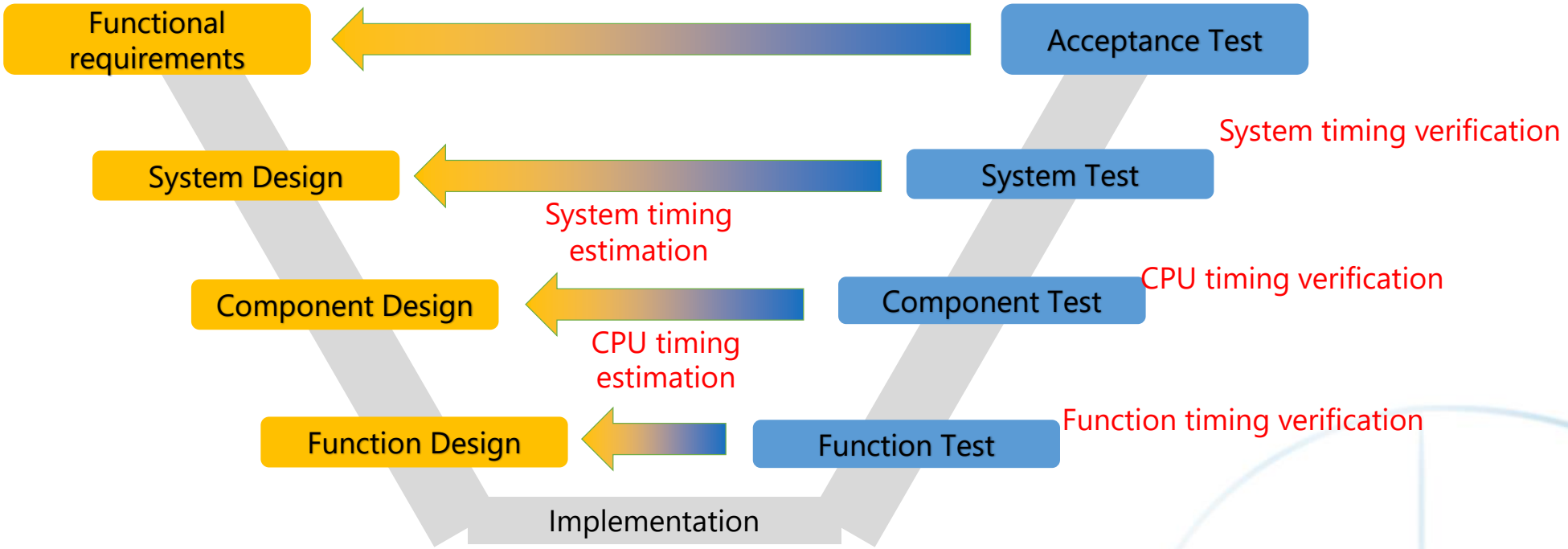
Context


Model expressed in MARTE respecting methodology 1
methodology change
Model expressed in MARTE respecting methodology 2
Program A
Program B
Program C
Analysis Tool 1
Analysis Tool 2
Analysis Tool 3
Modeling framework
Transformation area
Analysis area

Need for a complete framework from models to timing verifications



Place of timing analysis in V-cycle for critical embedded systems

Goals

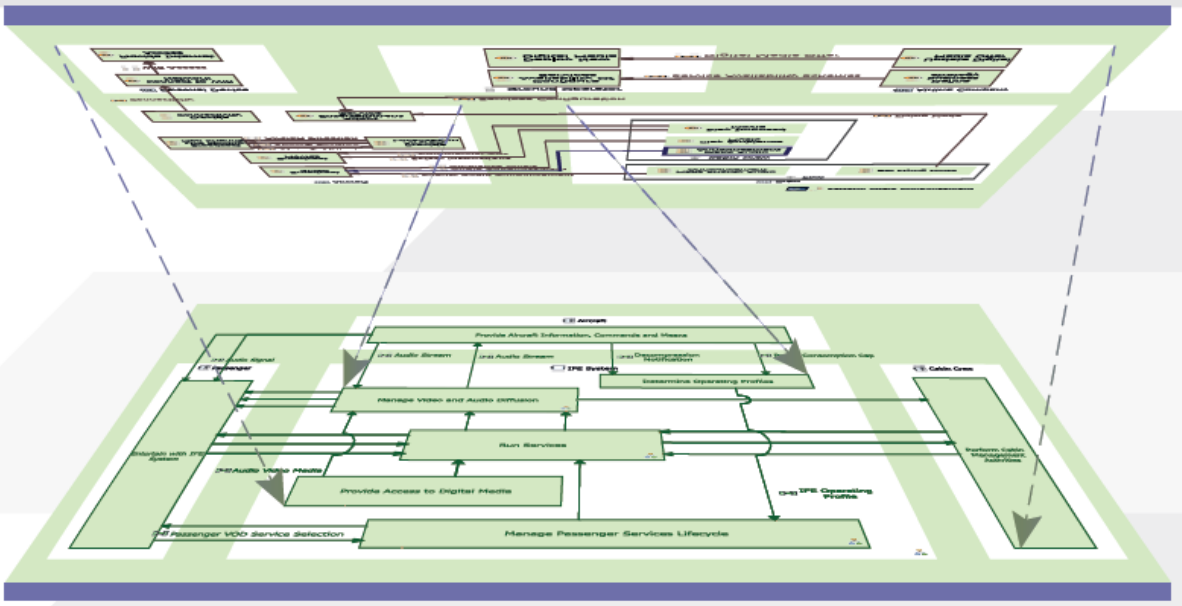
Capella

System Engineering methodology support

from Operational Analysis to Physical Architecture.

Powerful authoring tools.

Design the system architecture

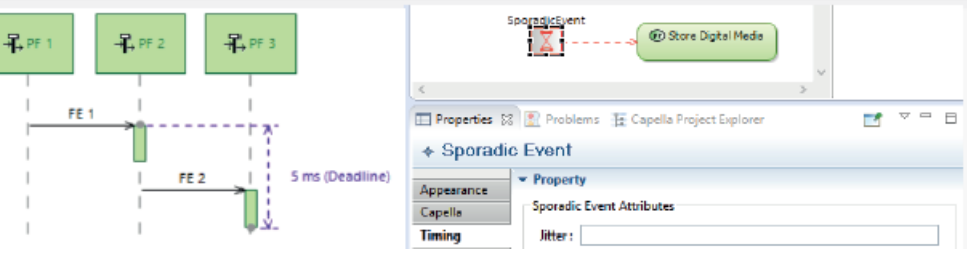


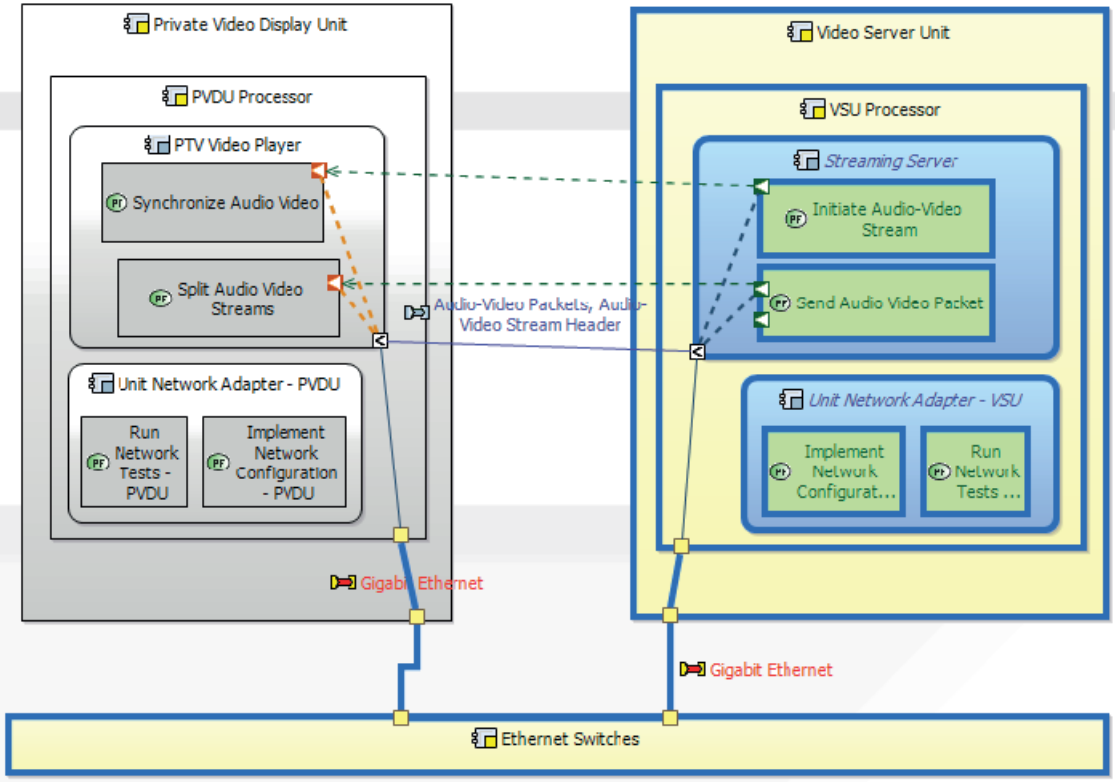
Goals

Tideal

The viewpoint to find the perfect timing

Capella Model with Real Time properties & Constraints

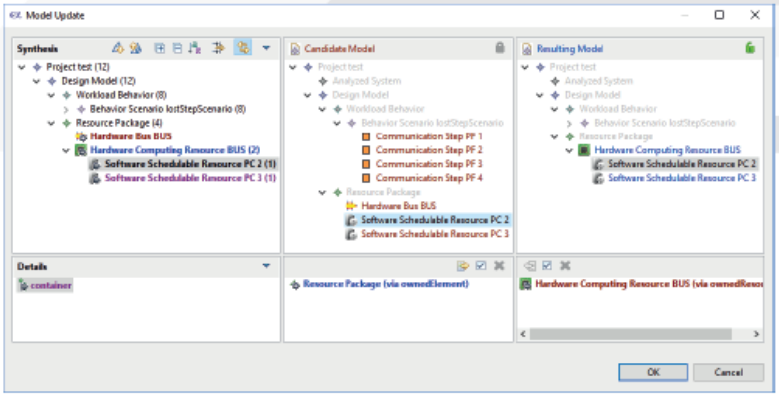


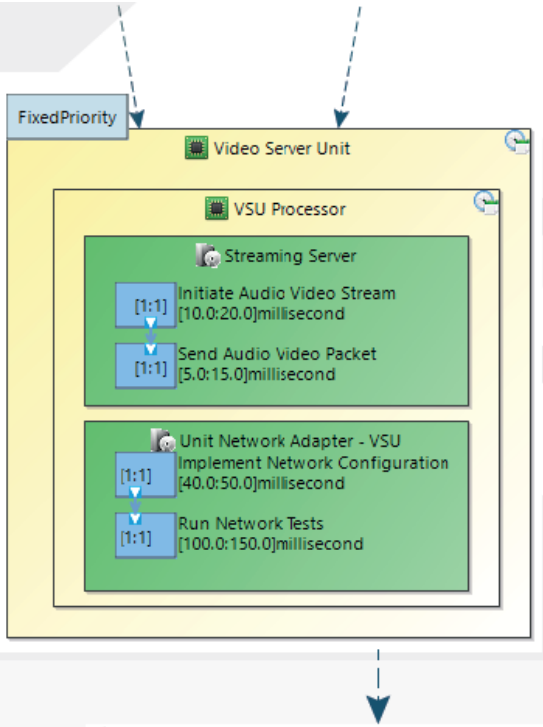


Goals

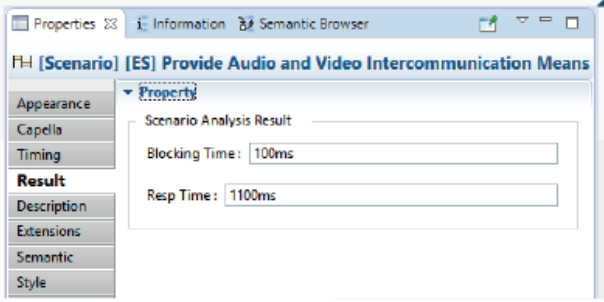
Time4Sys

Iterative transformations

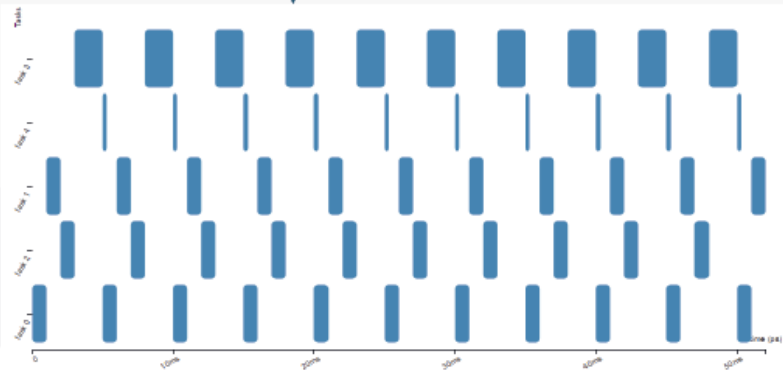




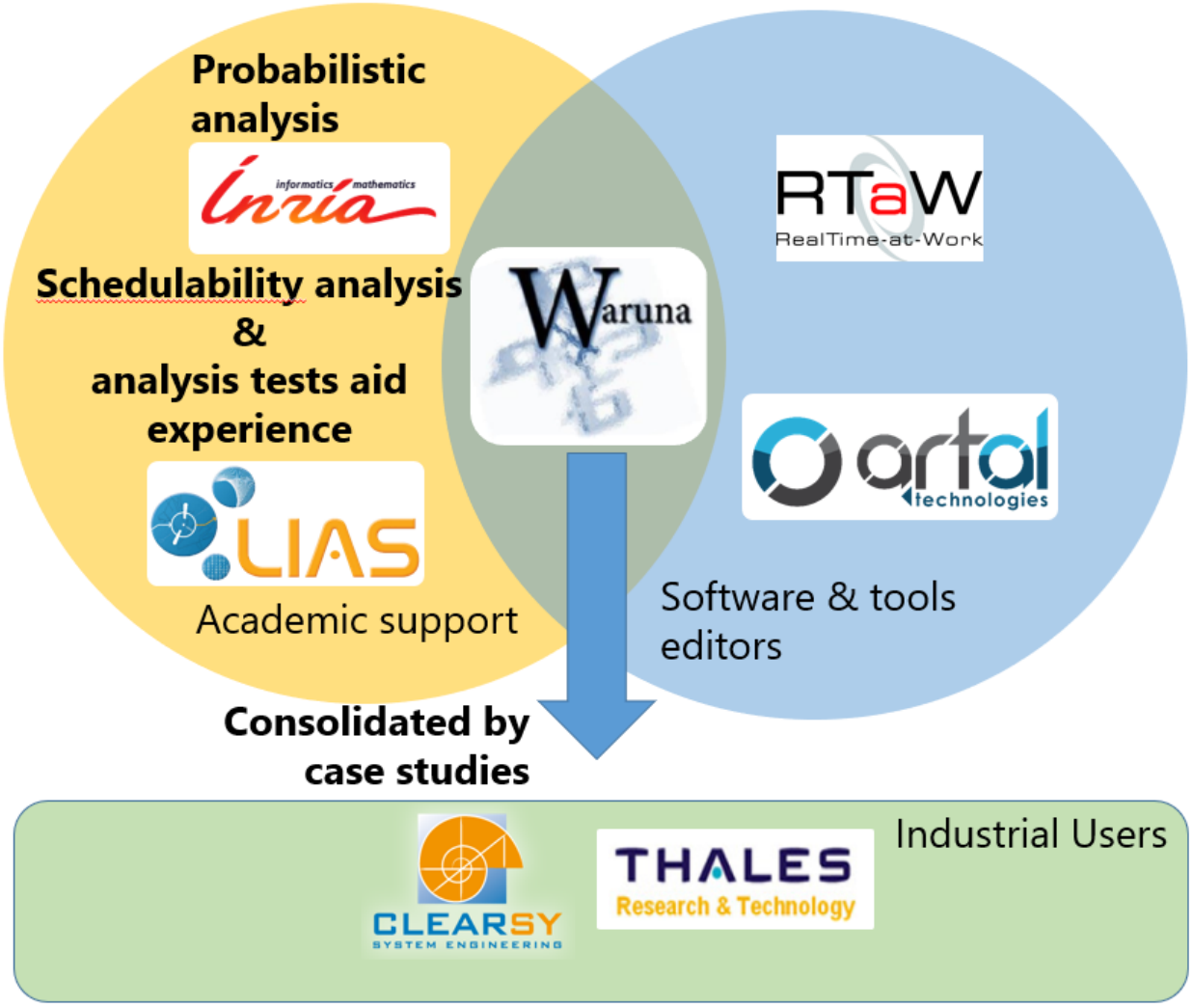
Analysis



Simulation



Partners



Clusters

aerospace valley

materalia Pôle de Compétitivité Matériaux

Systematic Paris Region Digital Ecosystem

Financial support

métropole GrandNancy

Grand Est ALSACE CHAMPAGNE-ARDENNE LORRAINE

îledeFrance

La Région Occitanie Pyrénées - Méditerranée

Agenda

- Introduction — 15 minutes
  - Nicolas Ayache – ClearSy
- Scientific contributions: Time4Sys — 20 minutes
  - Emmanuel Grolleau – ENSMA-LIAS
- Industrial contributions: user environment — 20 minutes
  - Aurélien Didier, Benoit Viaud – Artal Technologies
- Break — 10 minutes
- Case study — 20 minutes
  - Rafik Henia, Laurent Rioux – Thalès Research & Technology
- Conclusion — 20 minutes
  - Nicolas Ayache – ClearSy