

## ***And the Systems2Trust methodology of Open License Society***

**Eric.Verhulst @ OpenLicenseSociety.org**

26/05/2008

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### Who is Open License Society?

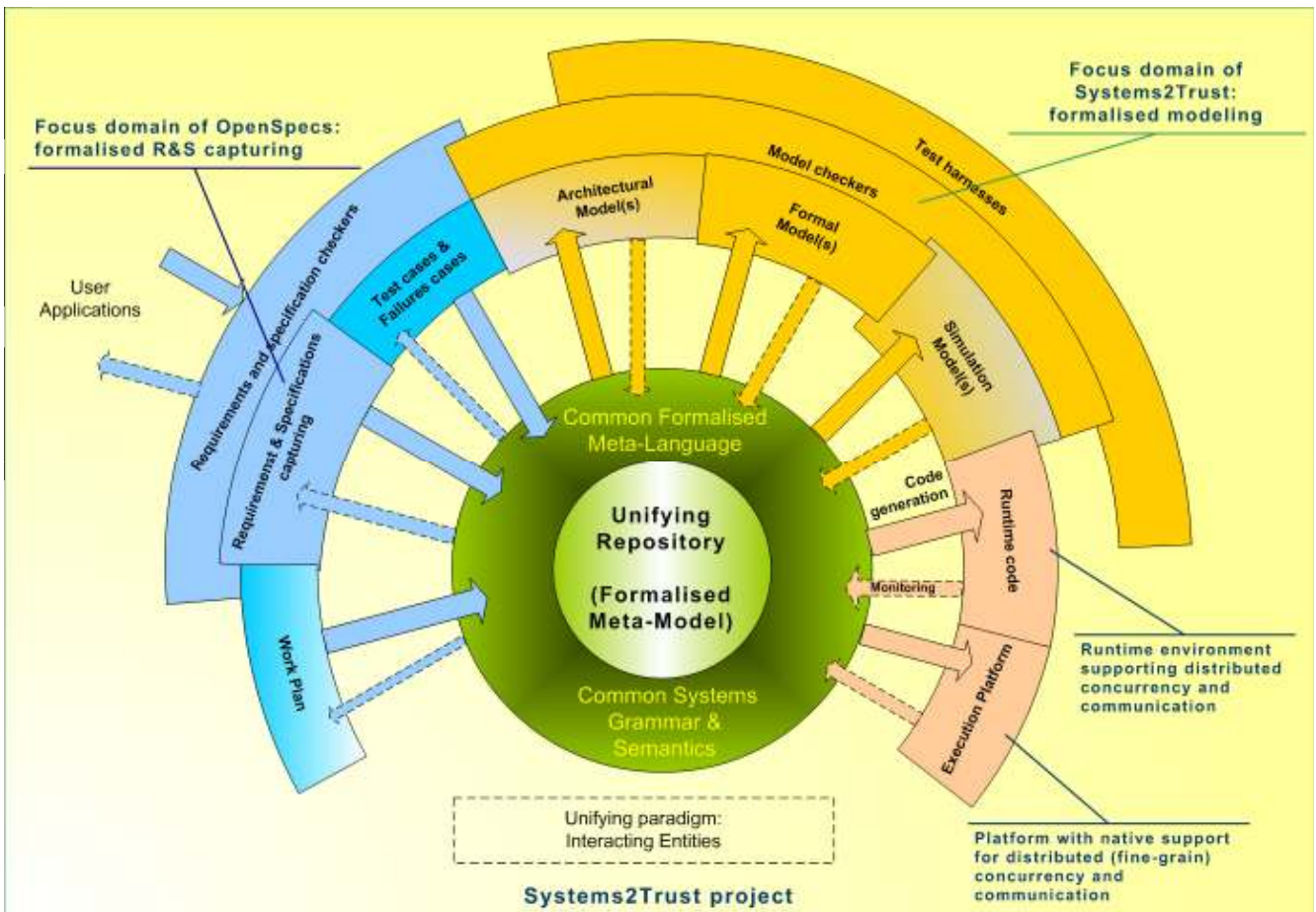
- Beyond “Open Source” => Open License
- Privately funded R&D institute
  - Leuven (BE), Berdyansk (UA)
  - Industrial sponsors
  - IWT project funding for OpenComRTOS, formally developed
  - Results now commercialised via Altreonic Co.
- Why: 70 % of all SE projects do not deliver
- Objectives
  - Systematic & Unified Systems Engineering Methodology
  - ‘Interacting Entities’ paradigm at all levels:
    - OpenComRTOS as runtime environment (formally developed)
  - Implies ‘Trustworthy Components’
    - => Open License (source code + all design, test, .... docs)
- Focus:
  - Embedded Systems:
    - Constraints driven development
    - Real-time, distributed, hardware & software, ...

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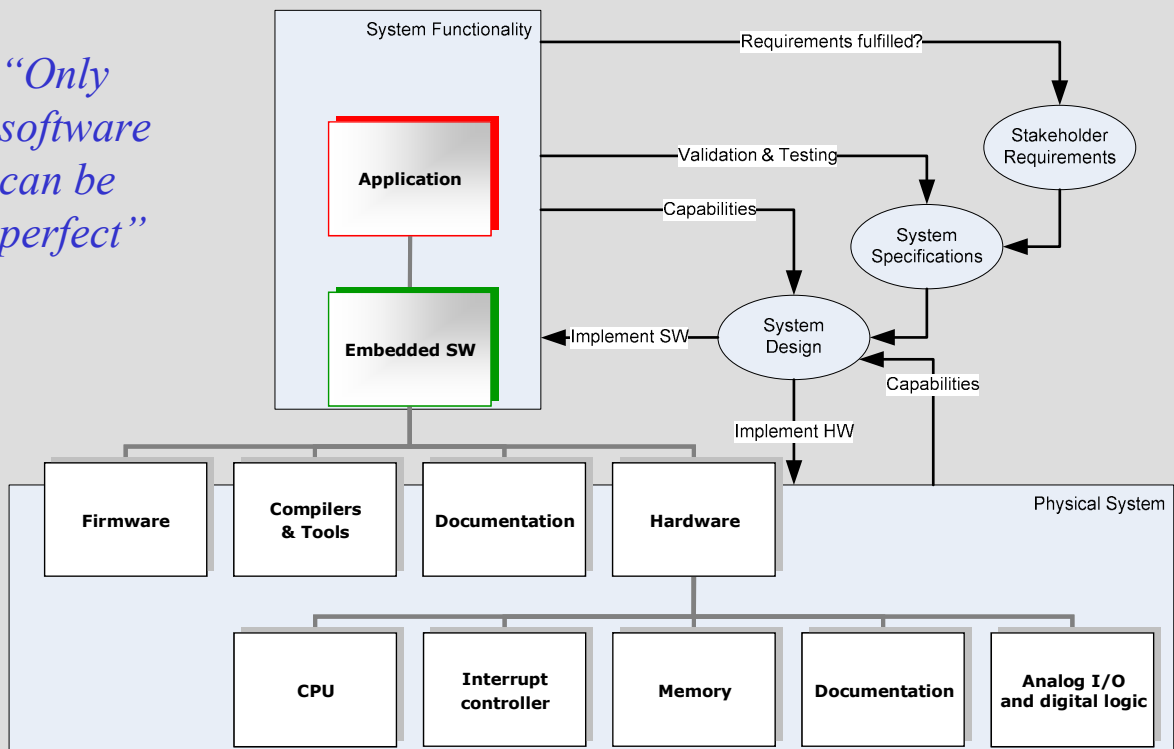
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## Systems/Software Engineering Process dependency graph

*“Only software can be perfect”*



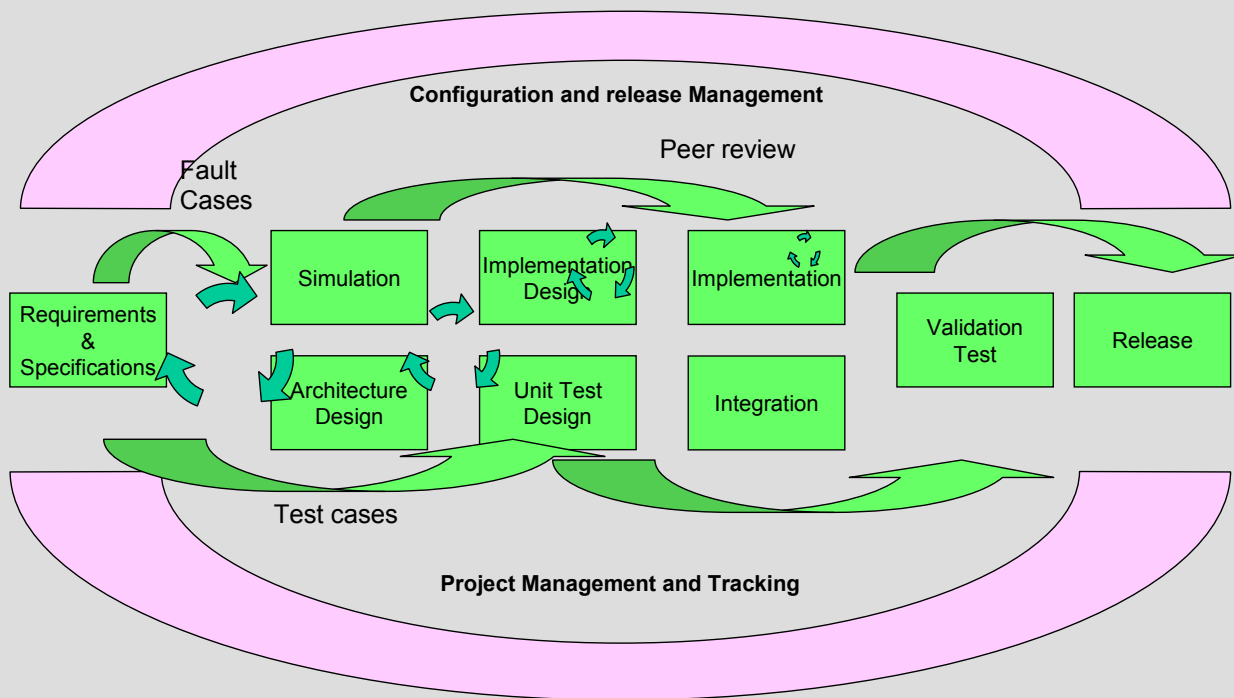
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(Software) Engineering Process Flow



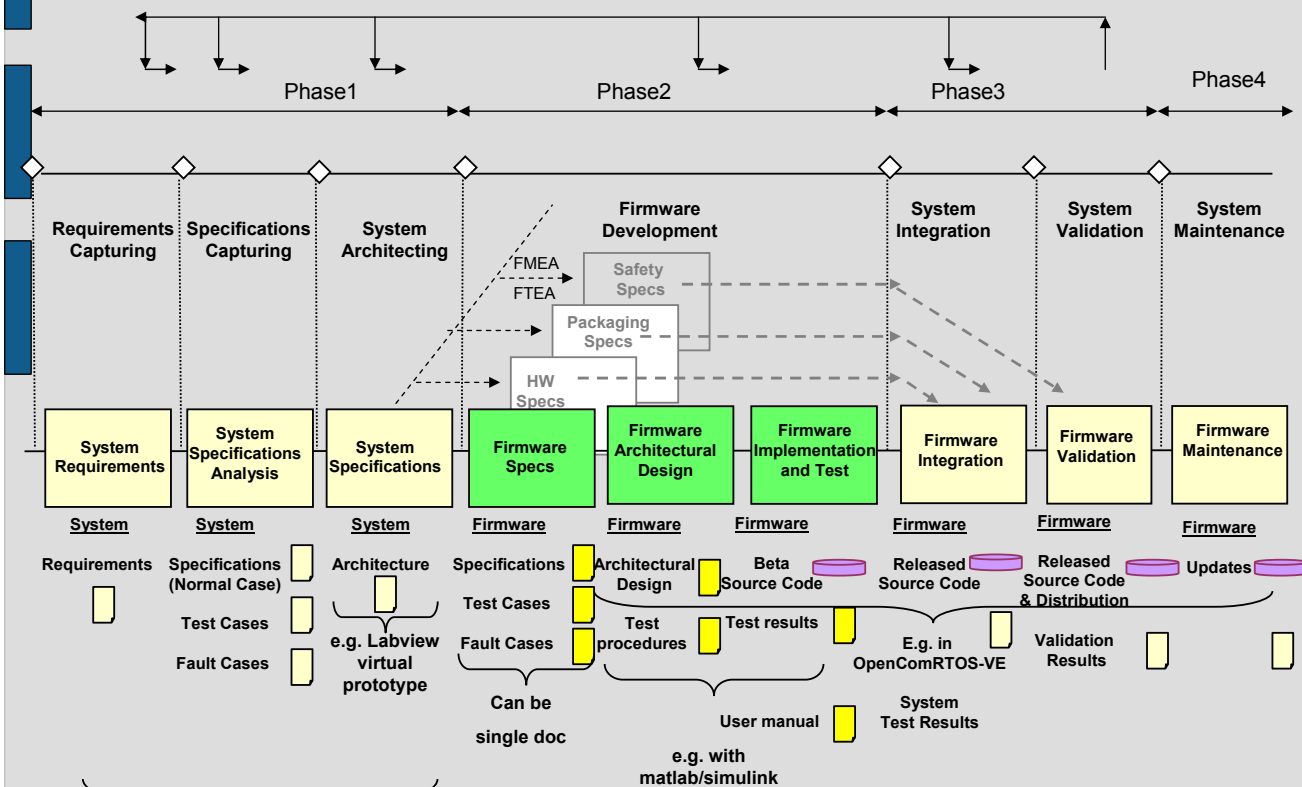
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Systems and Software Engineering Activities



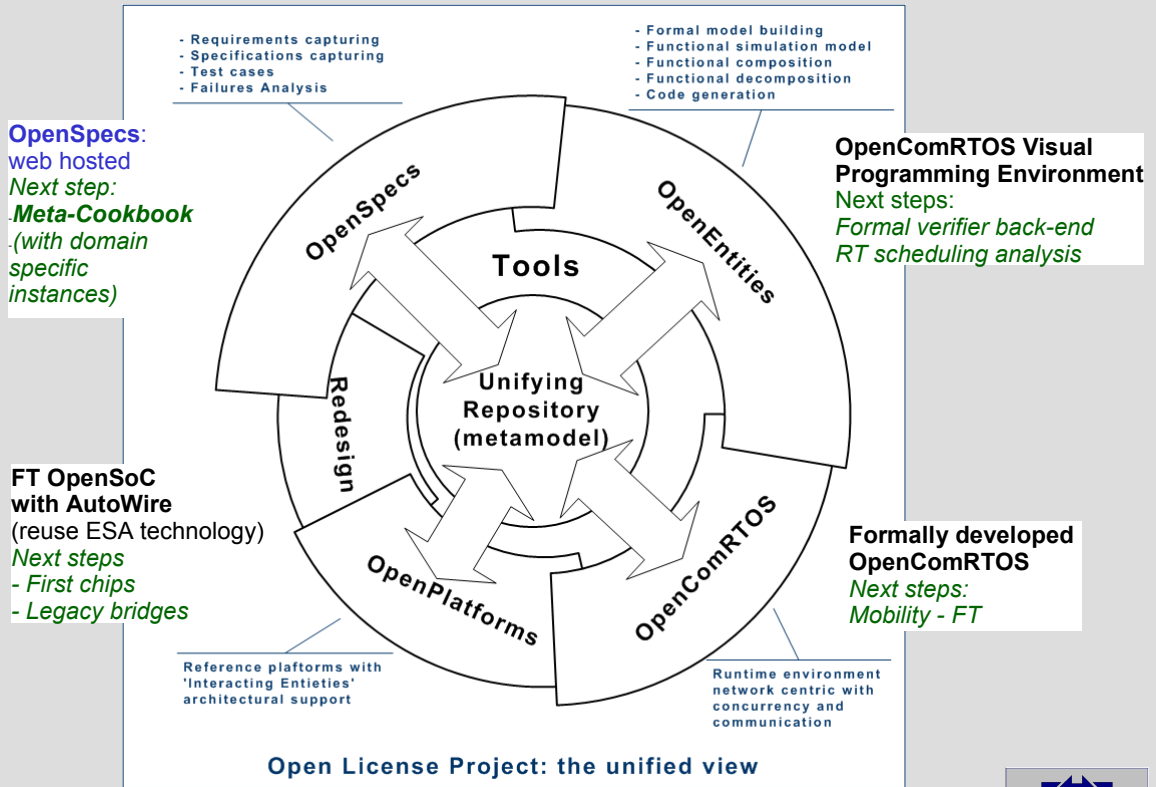
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# The Systems2Trust approach



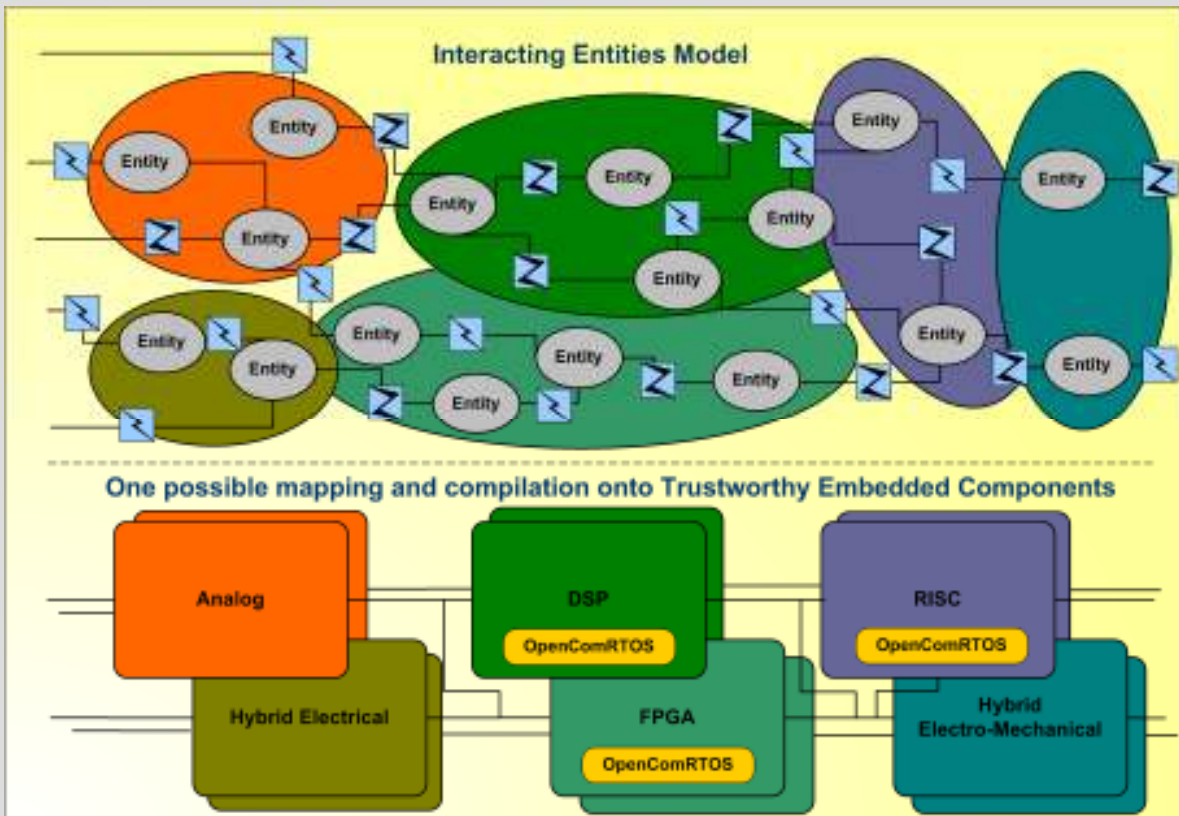
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## Unifying architectural paradigm: Interacting Entities



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## How it really works: teamwork

Requirements

Specifications

Validation

Test and profiling

Implementation Models

Formal Models

How ?

Concept

Informal Models

Discuss,  
think,  
review

Formalise  
!

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## From theoretical concept to products



*"If it doesn't work, it must be art.  
If it does, it was real engineering"*

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