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Systems Engineering approach in support to the breeding blanket design

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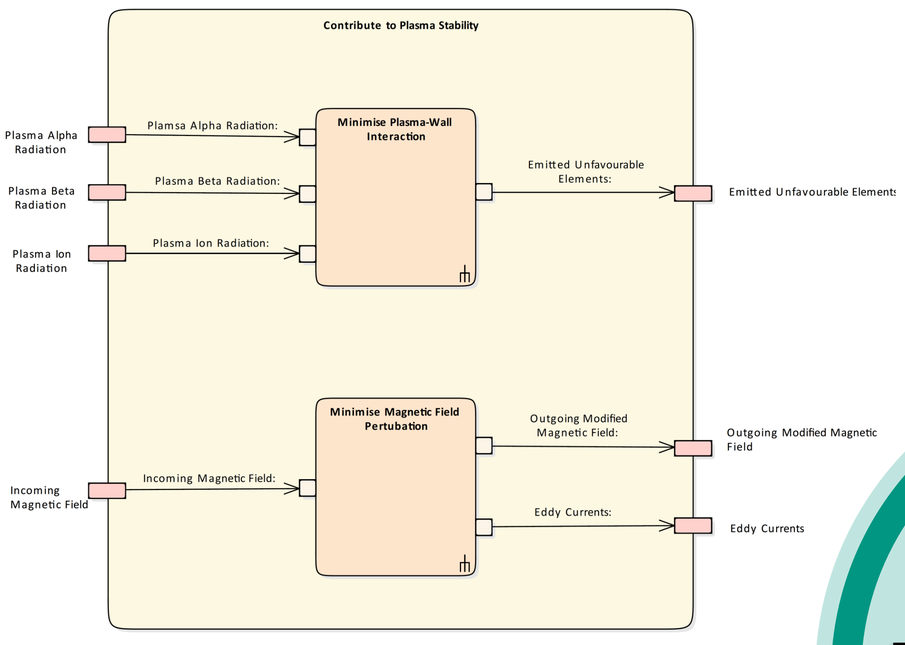
Motivation

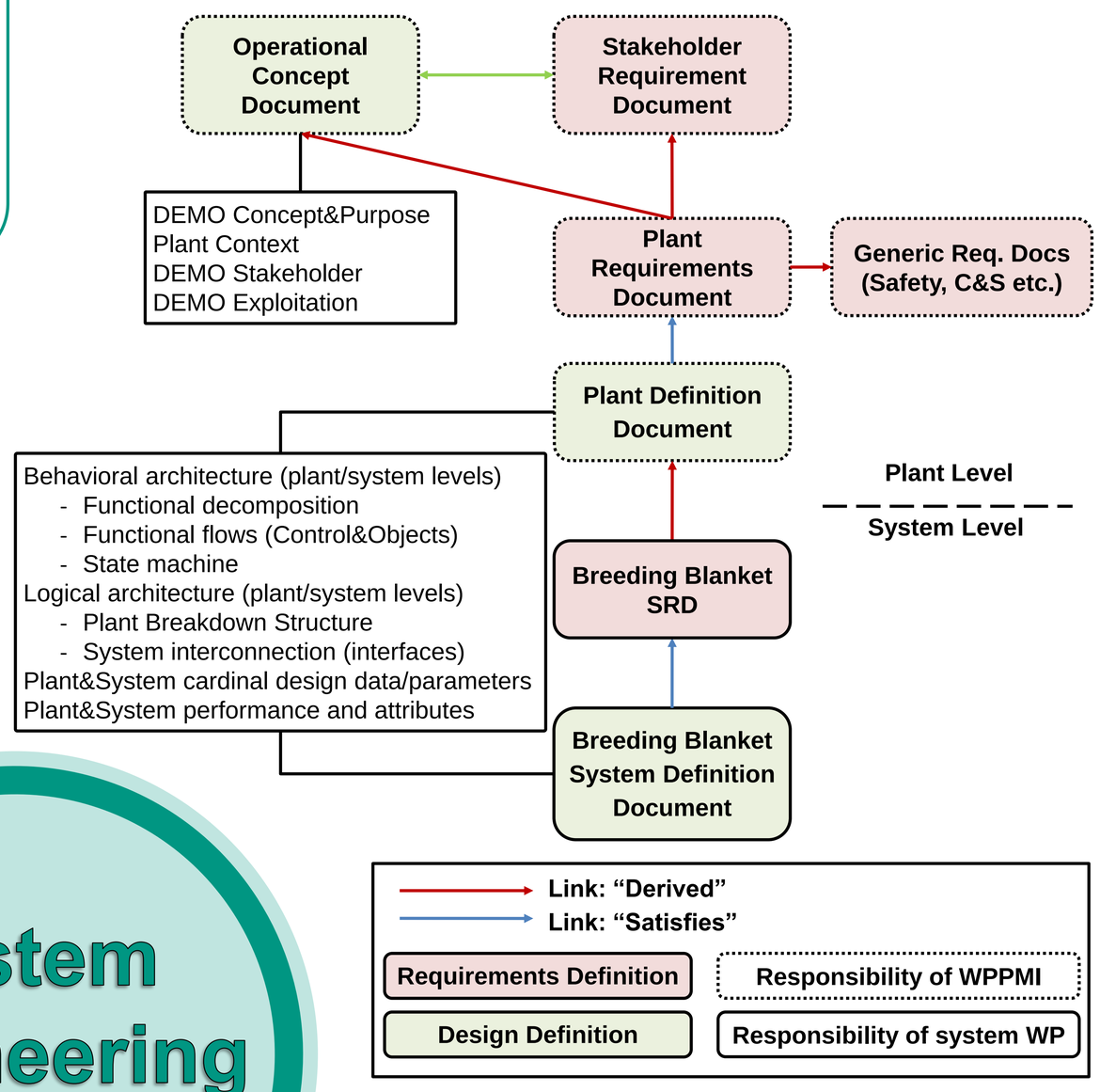
- ❑ Capture, trace and maintain coherency between systems requirements
- ❑ Manage large number of sub-system interdependencies
- ❑ Develop a holistic configuration to better understand the functional, spatial and physical integration aspects

Logical/functional architecture using the Systems Modelling Language (SySML)



- ❑ Functional, logical and physical levels defined in system architecture
- ❑ Solution-unrelated description of the design
- ❑ Illustration of system boundaries and model elements

System Requirement Document



System Engineering in WPBB

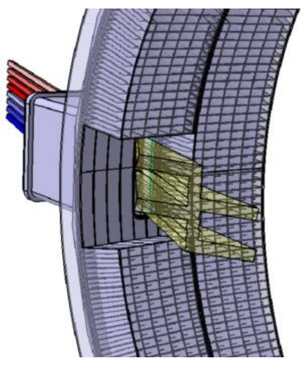
Interface Management

Interface Identification

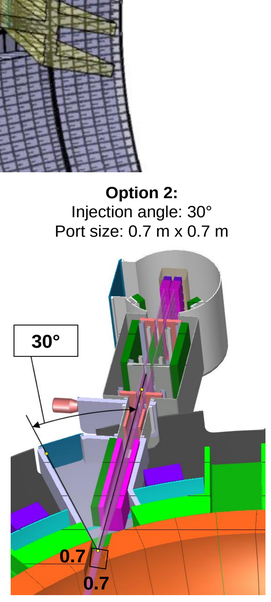
Interface Definition (IDD)

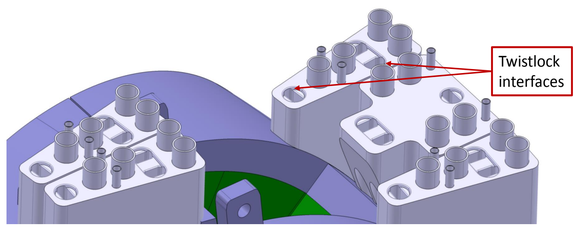
Define Interface Requirements (IR)

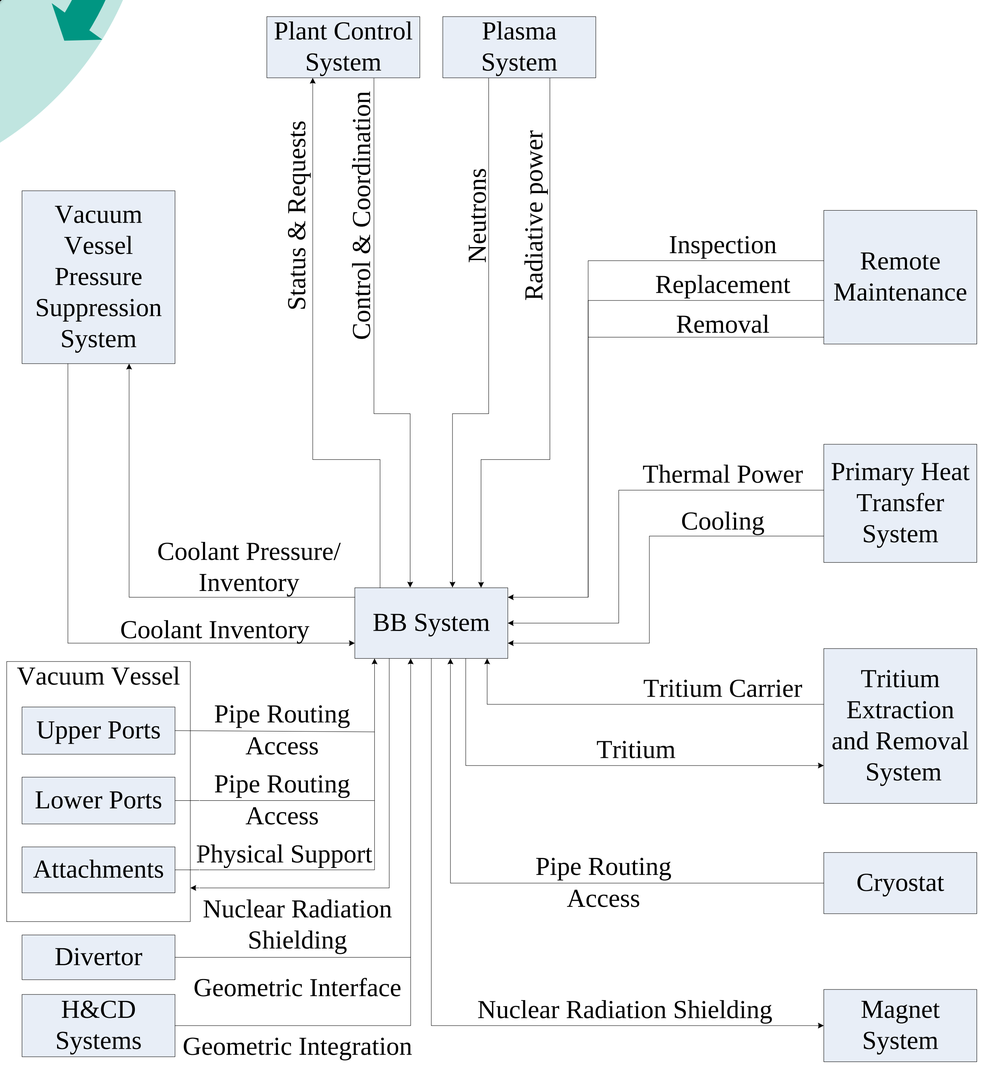
Interface Control (ICD)



Option 2:
Injection angle: 30°
Port size: 0.7 m x 0.7 m







EUROfusion

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