INCOSE IW 2012 MBSE Workshop

System Architecture and Requirements Modeling Breakout Session

Setting the SE Modeling Context

LOCKHEED MARTIN

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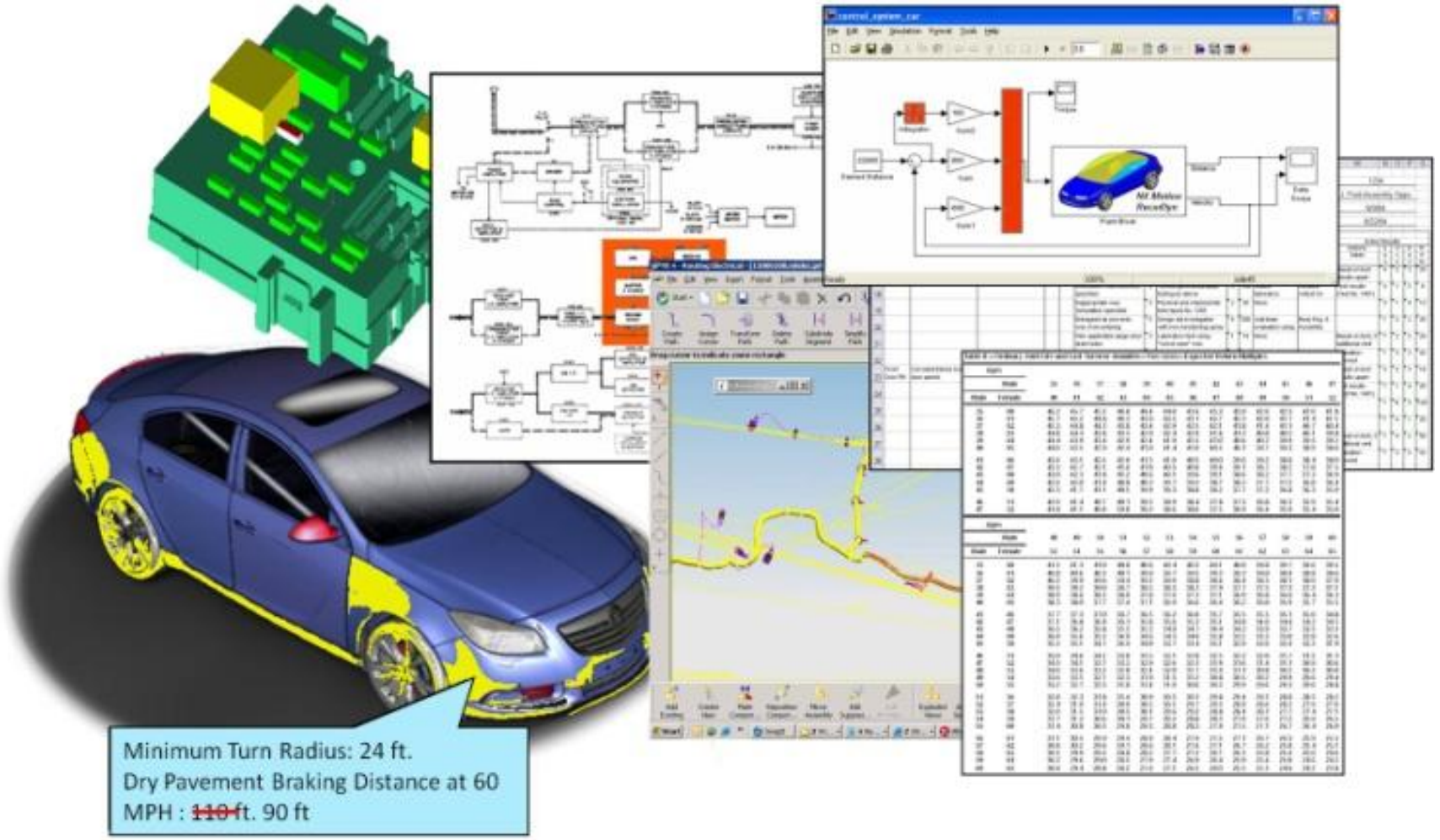
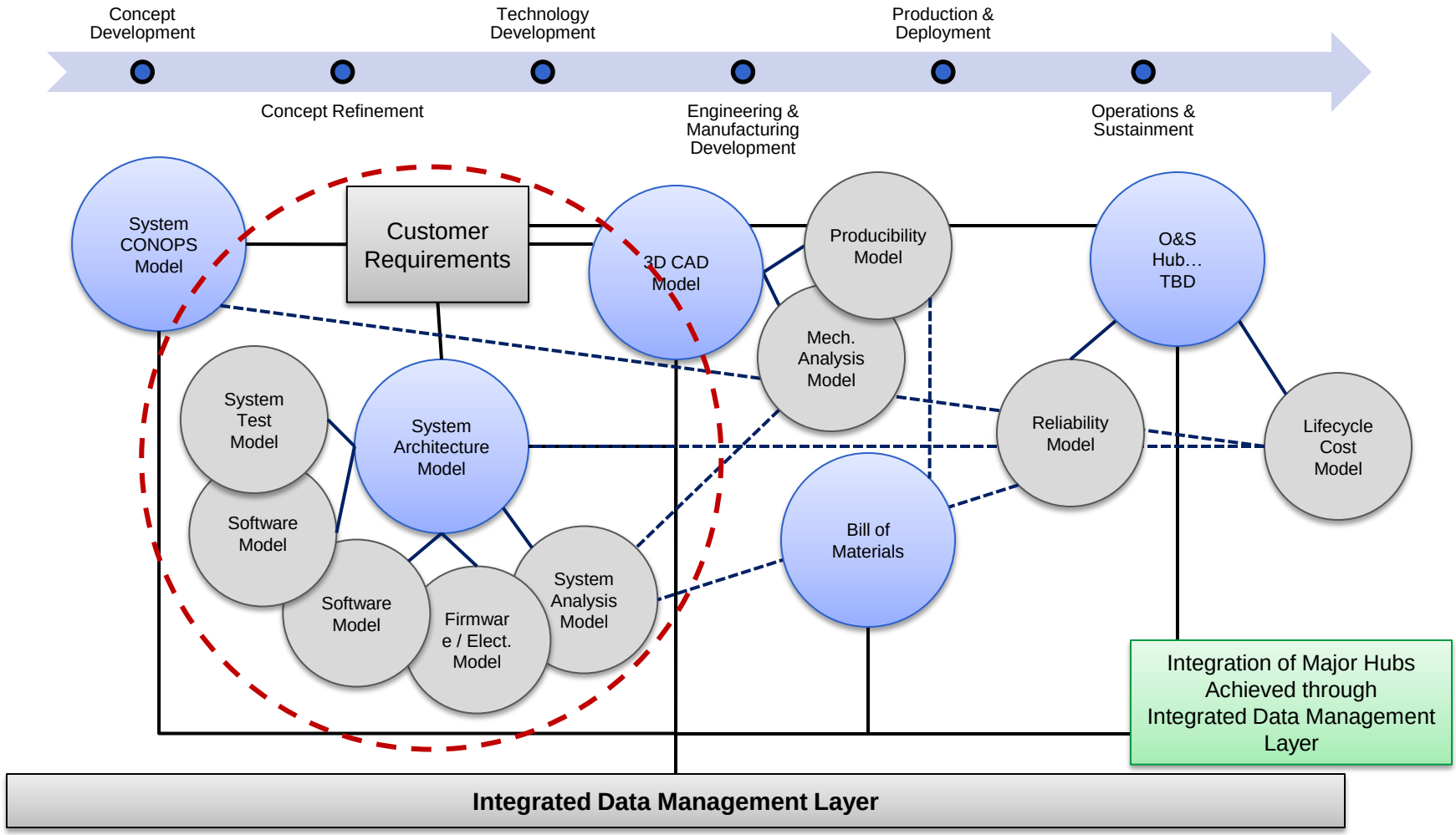
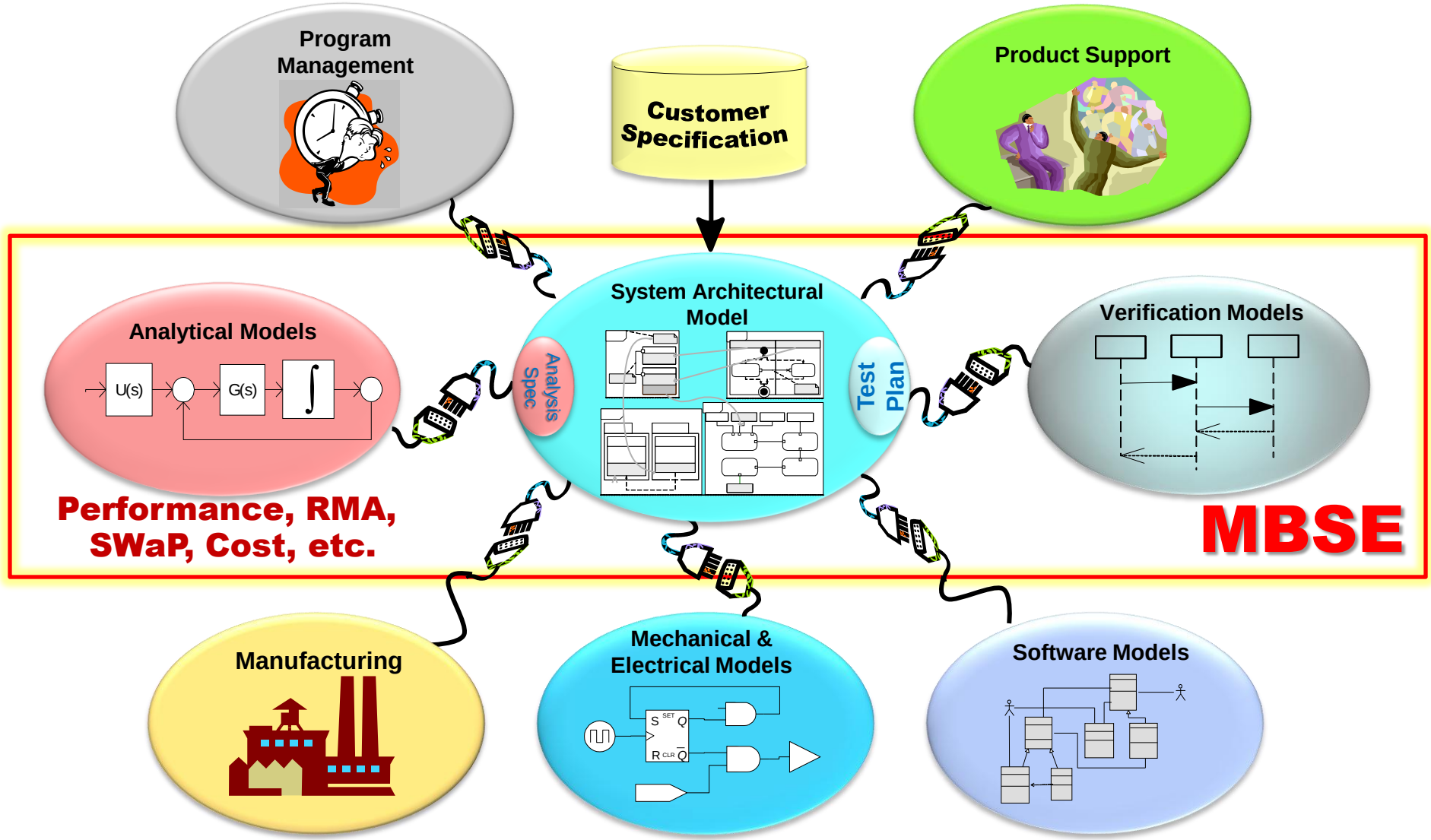
INCOSE - Integrated Systems Engineering Vision



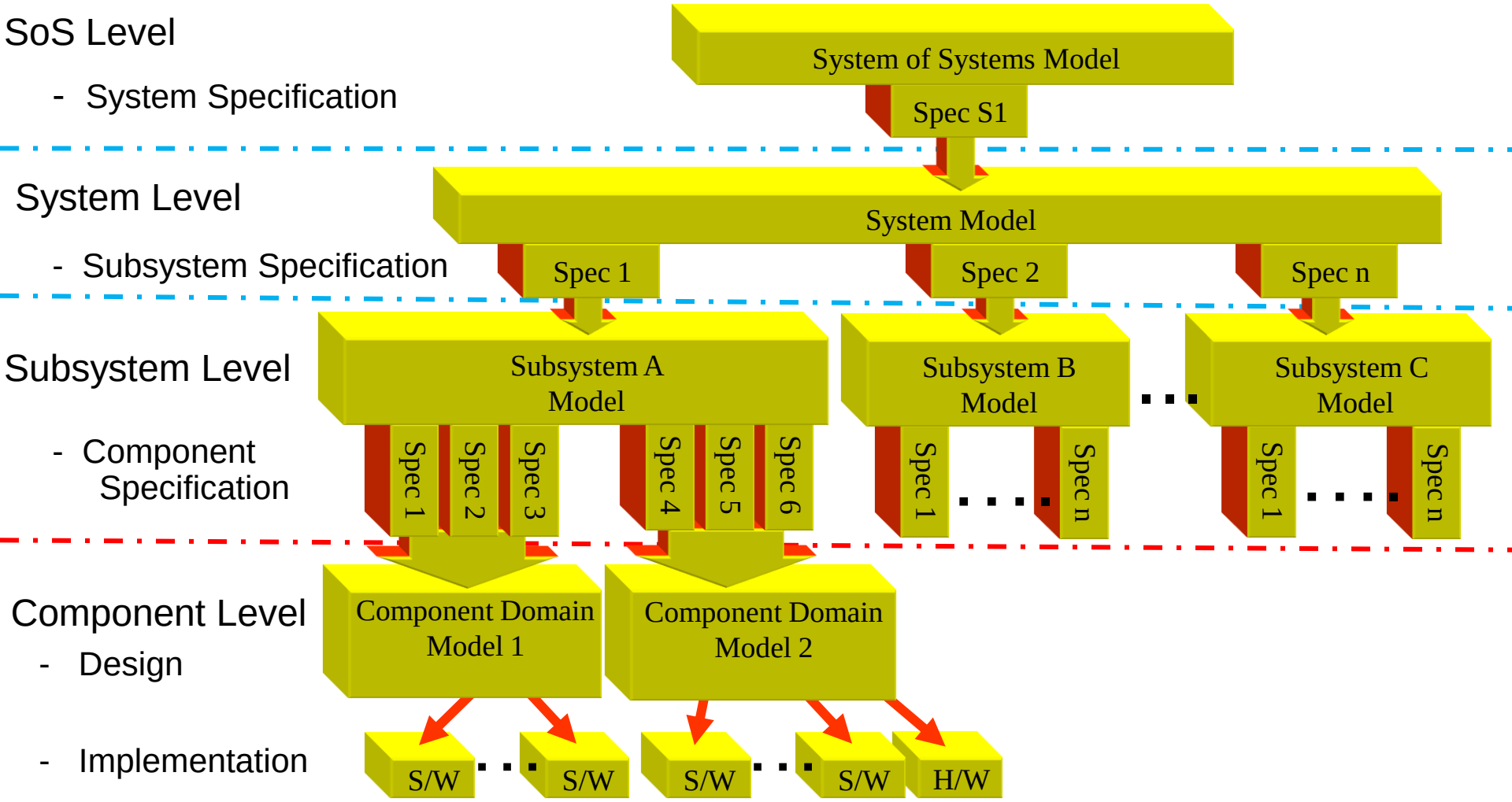
Model Integration Through the Lifecycle



The MBSE Integration



Program Model Tree Integration



Integration Benefits

- **Improve communications across all domains and product lifecycle**
  - **engineering, manufacturing, management and support**
- **Uniform and Consistent Repository of the "Truth" integrated across all product lifecycle domains**
- **Improve ability to Measure Change Impact**
  - **A more thorough and complete assessment**
  - **Reduced time to access the change**
- **Enables better design space exploration and design optimization**
- **Reduces the number of defects and detects them earlier**
- **Environment for Automation**
  - **Electronic based**
  - **Linked Data**
  - **Programmatically Evaluated**