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URMSM – ny standard för interoperabilitet mellan olika länders industrier

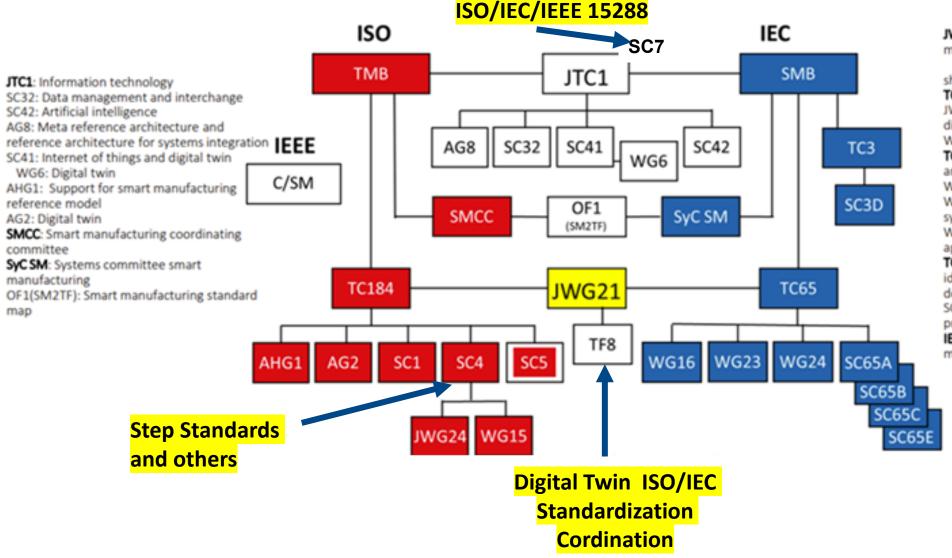
What is IEC/ISO JWG21

Last JWG21 SIS Tk280 meeting, Okt 2024, in Stockholm and seminarie

Test Case 2: Ship Lifecycle Information Management

Test Case 1:Unified Reference Model-Smart Manufacturing URMSM and its Model kinds

What is IEC/ISO JWG21

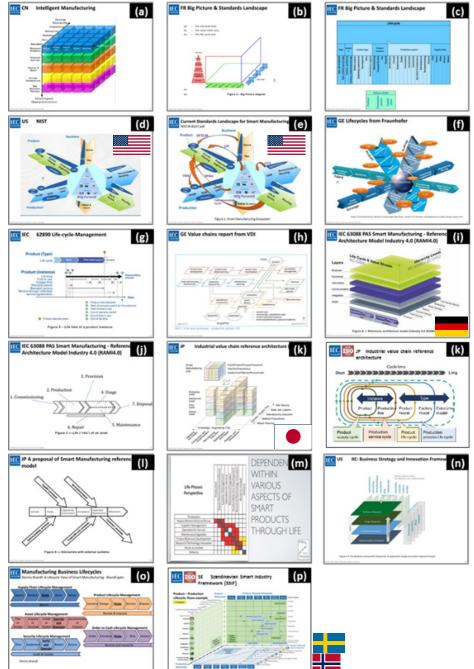


JWG21: Smart manufacturing reference model(s) TF8: Digital twin and asset administration shell TC184: Automation systems and integration JWG24: Use of IEC CDD for ISO data dictionaries and ontologies WG15: Digital manufacturing TC65: Industrial-process measurement, control and automation WG16: Digital factory WG23: Smart manufacturing framework and system architecture WG24: Asset administration shell for industrial applications TC3: Information structures and elements. identification and marking principles, documentation and graphical symbols SC3D: Classes, properties and identification of products - common data dictionary (CDD) IEEE C/SM: IEEE computer society smart manufacturing standards committee

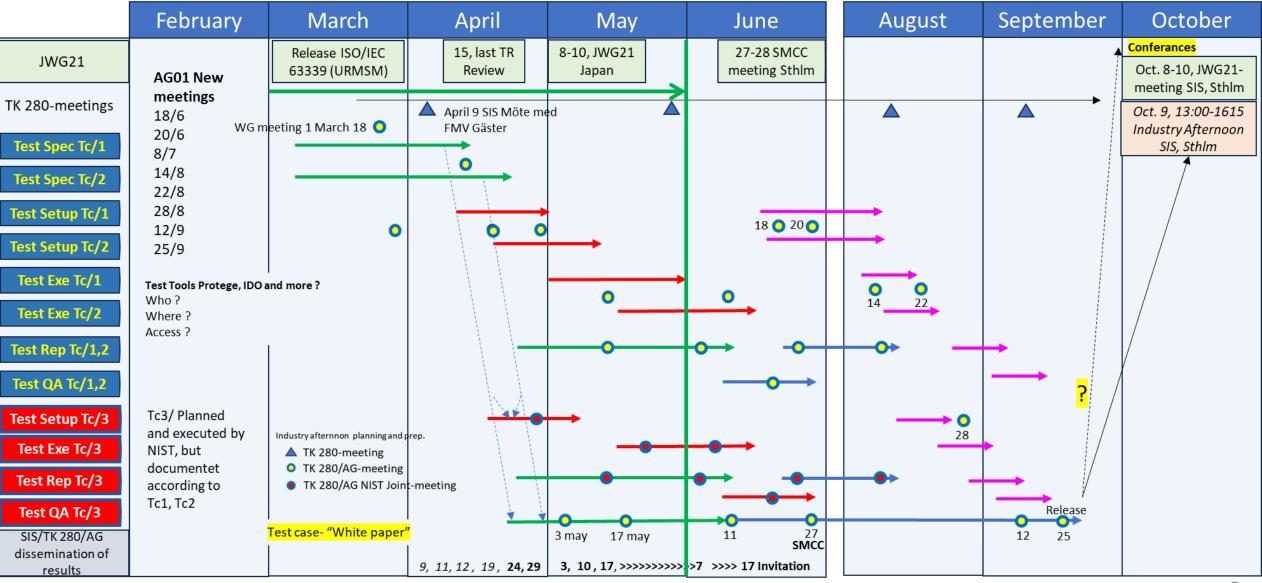
SIS

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National Reference models contribution to IEC/ISO JWG21 15 countries and 110 standard practioners



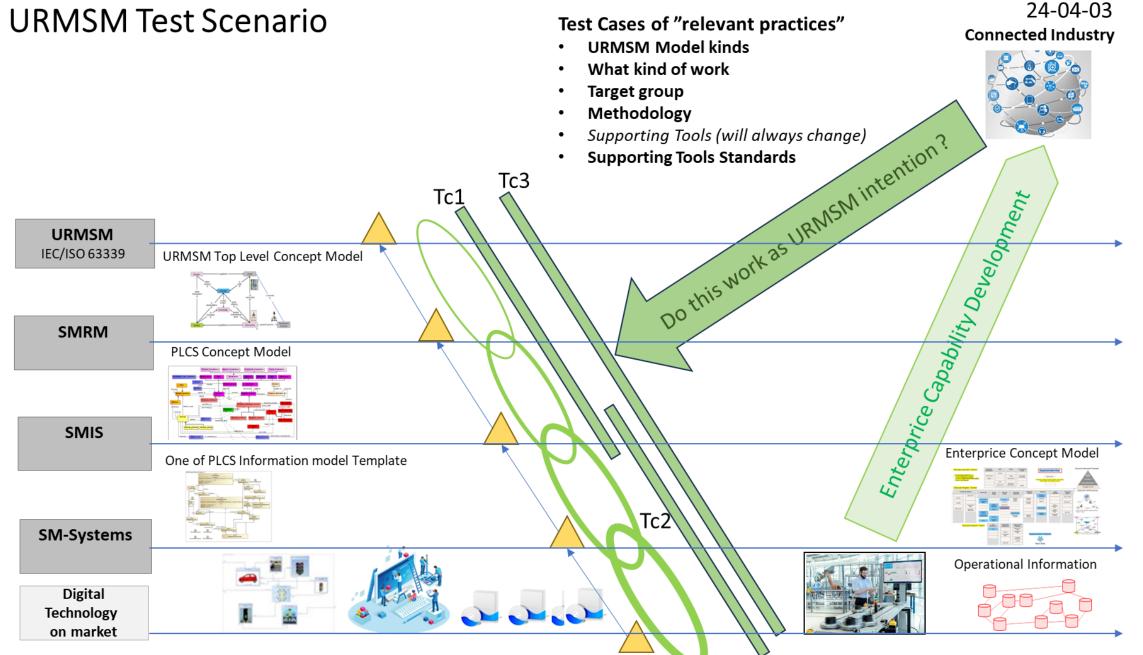
Last JWG21 SIS Tk280 meeting, Okt 2024, in Stockholm and seminarie



Sis

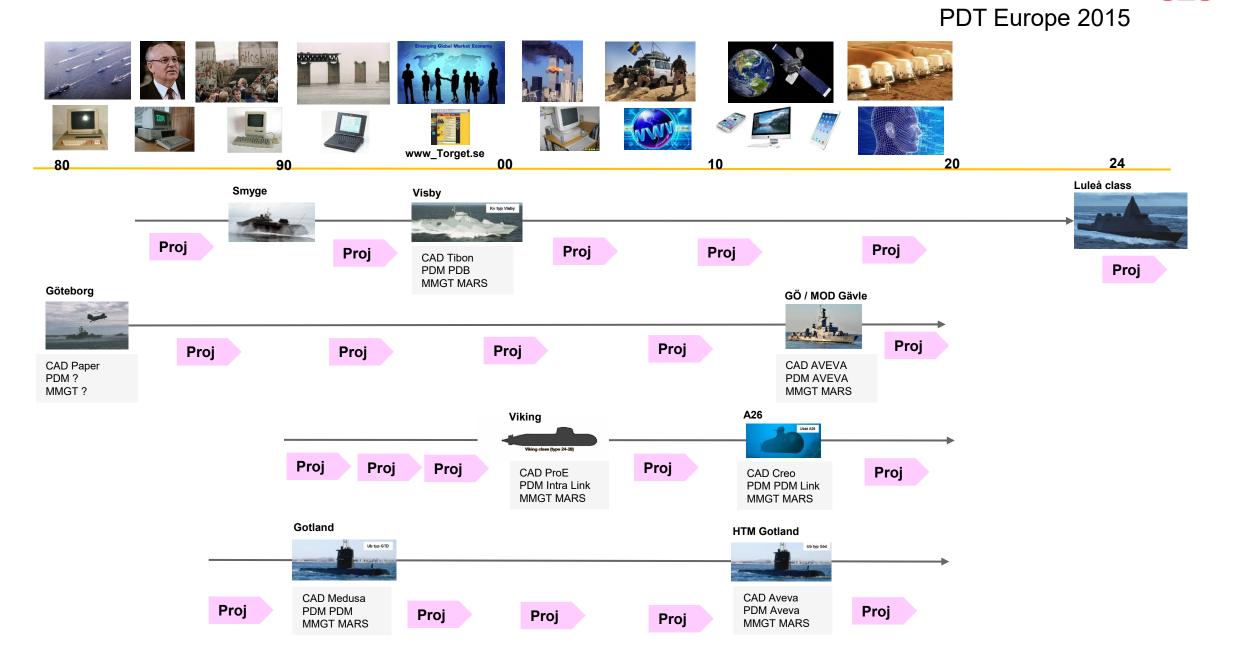
All complex systems need to be verified, initiated in the JWG21 project by the Swedish team

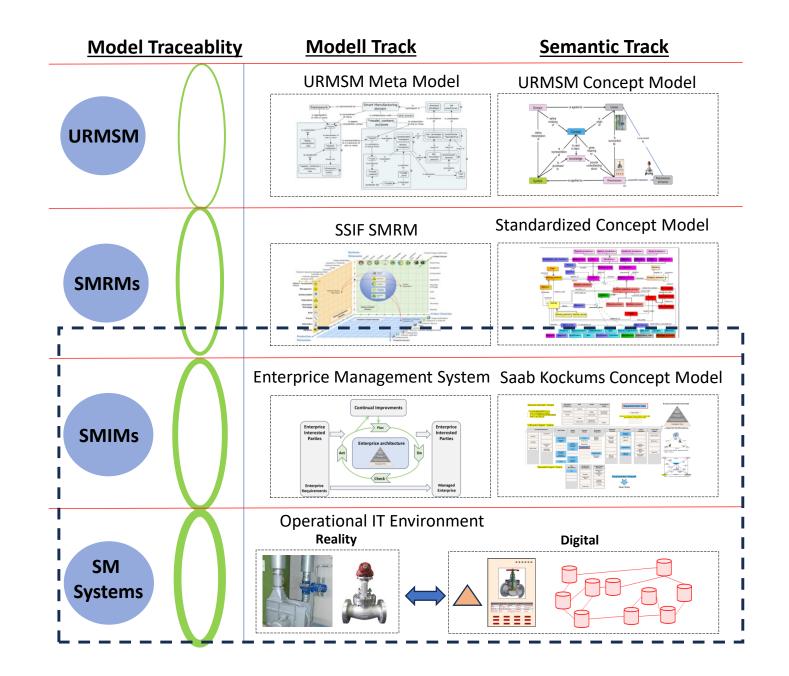




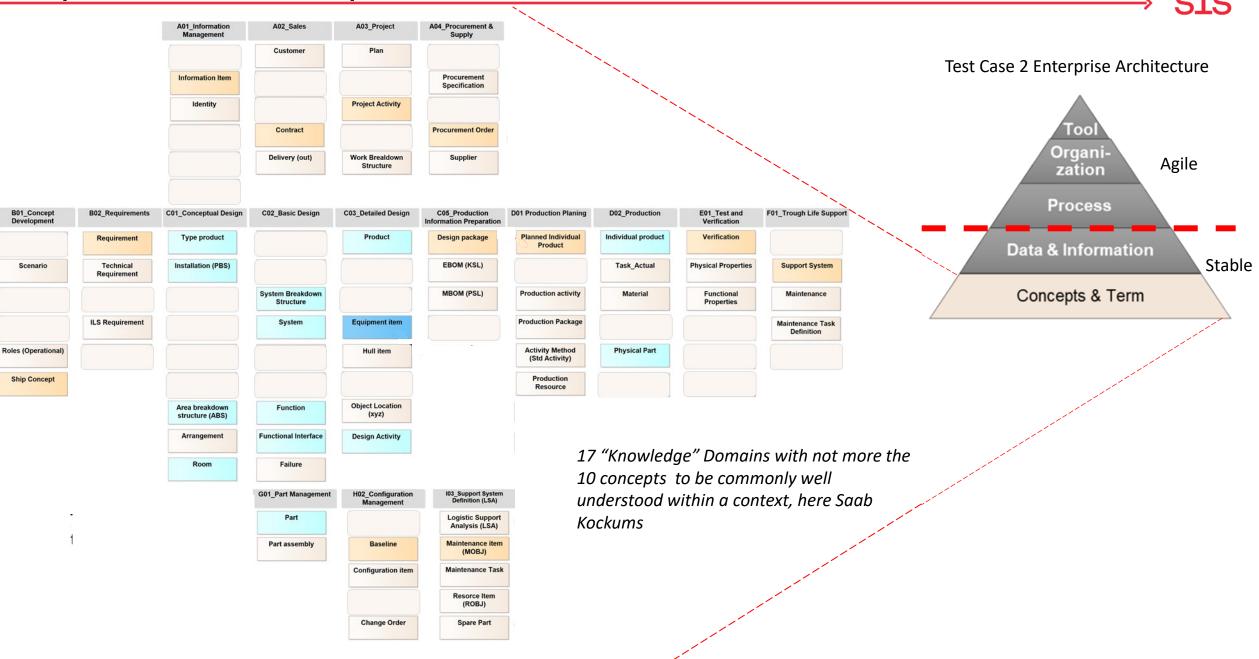
Test Case 2: Ship Lifecycle Information Management

A portfolio of different ship- and IT generations

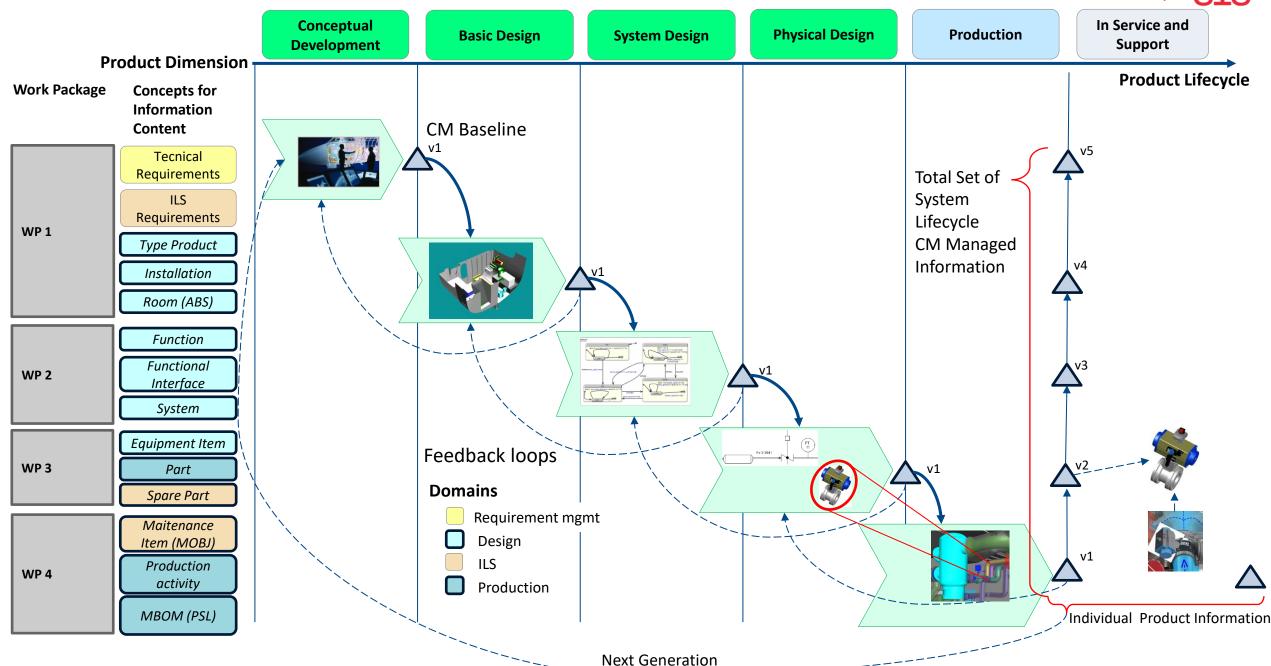




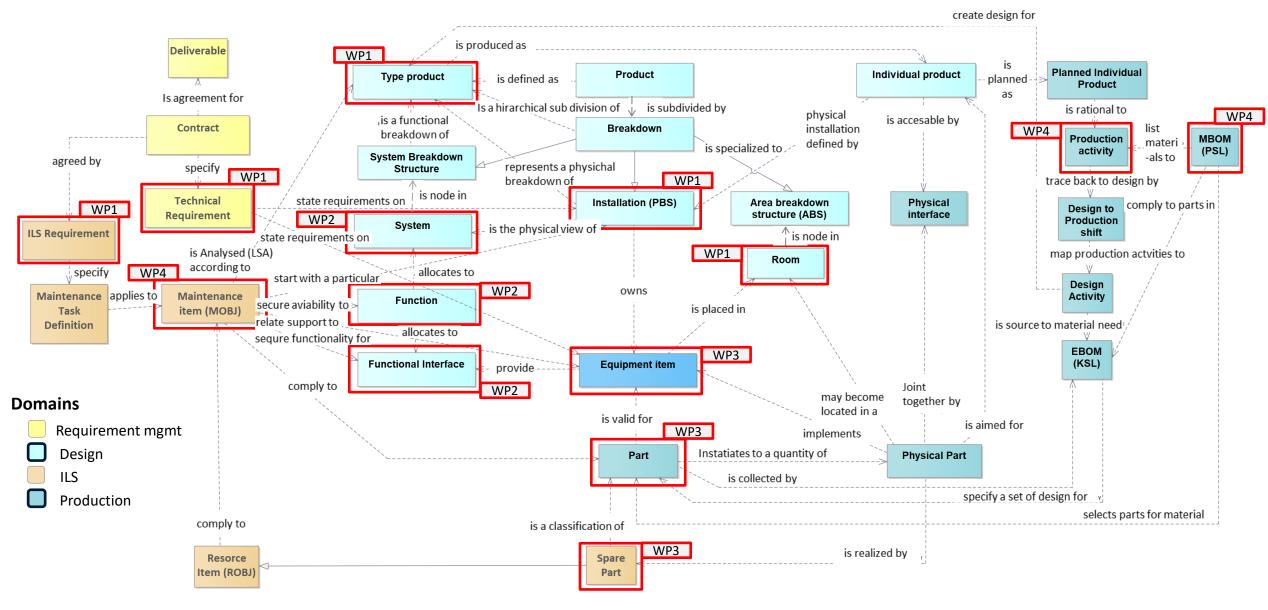
Enterprise Test Case 2 Concept Model



Test Case 2 "Special cooling media valve" project



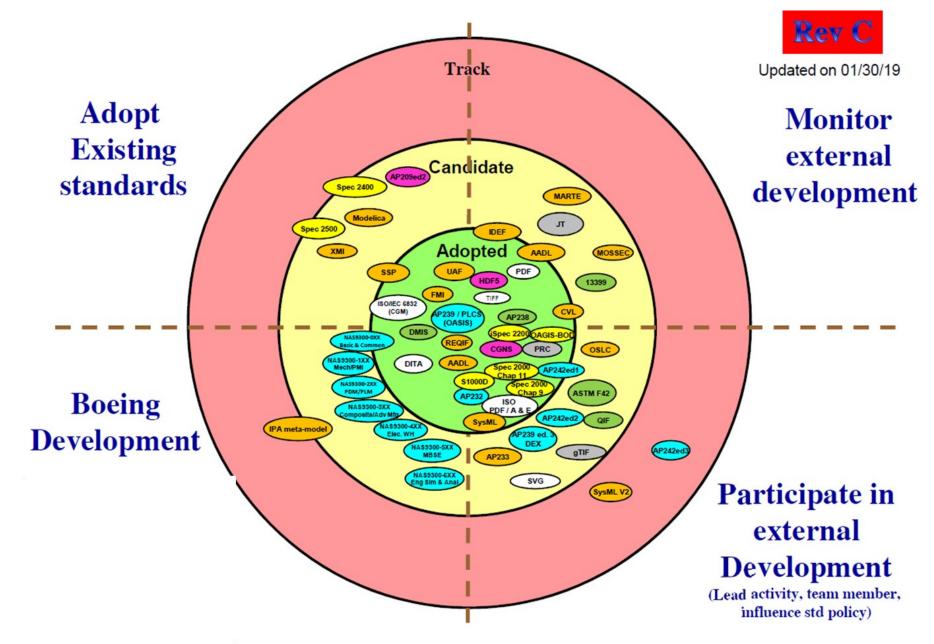
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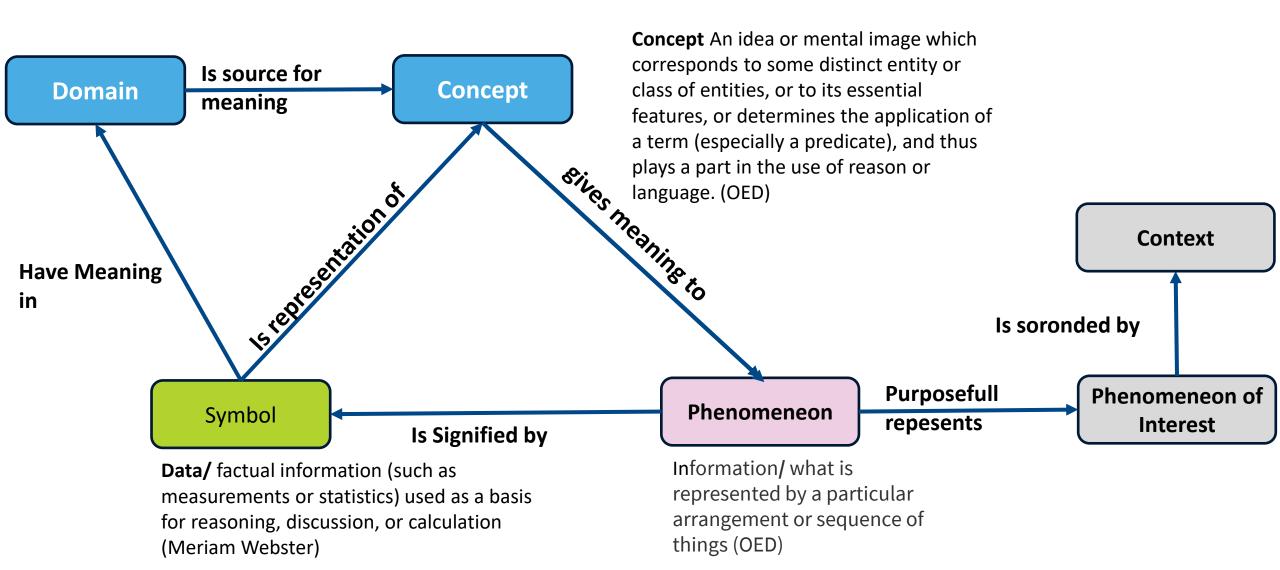
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Unified Reference Model-Smart Manufacturing (URMSM)

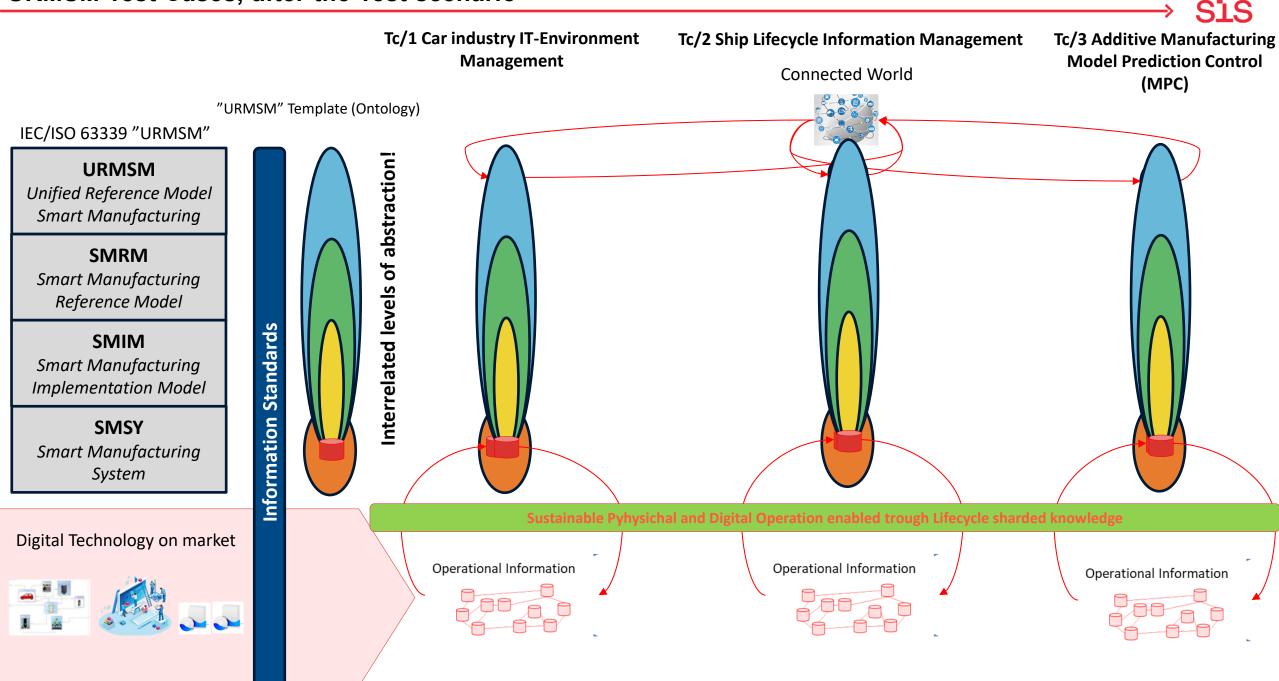
Företagets urval av standarder, Boeing exempel



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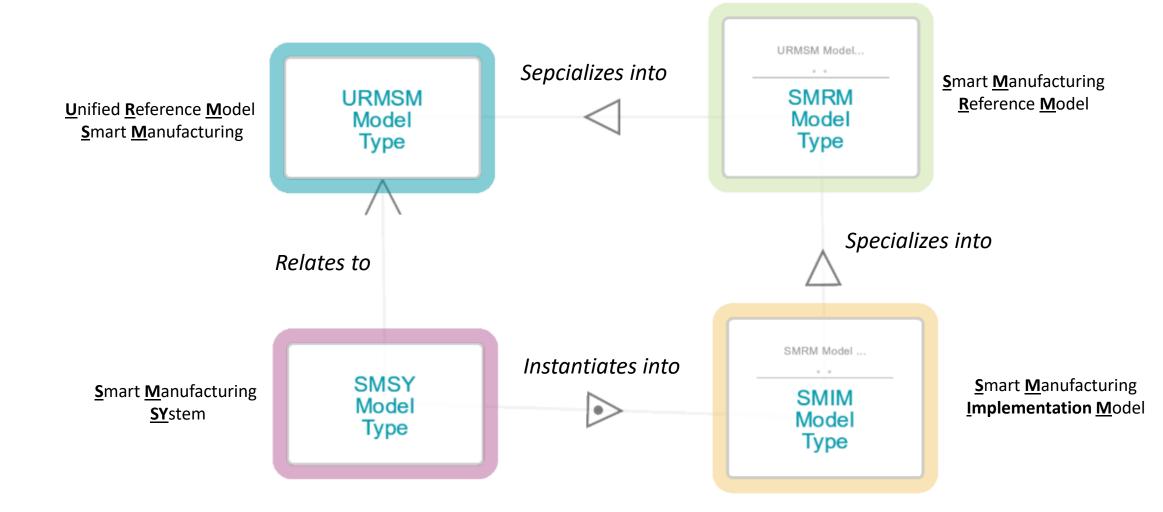
URMSM Test Cases, after the Test scenario

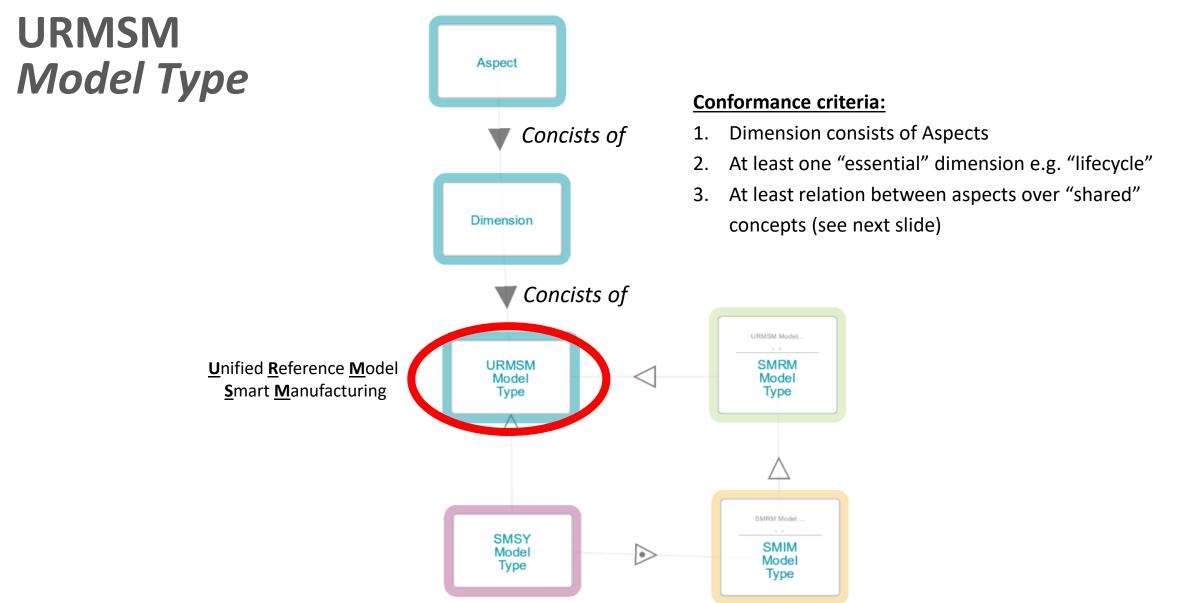


Test Case 1:Unified Reference Model-Smart Manufacturing URMSM and its Model kinds

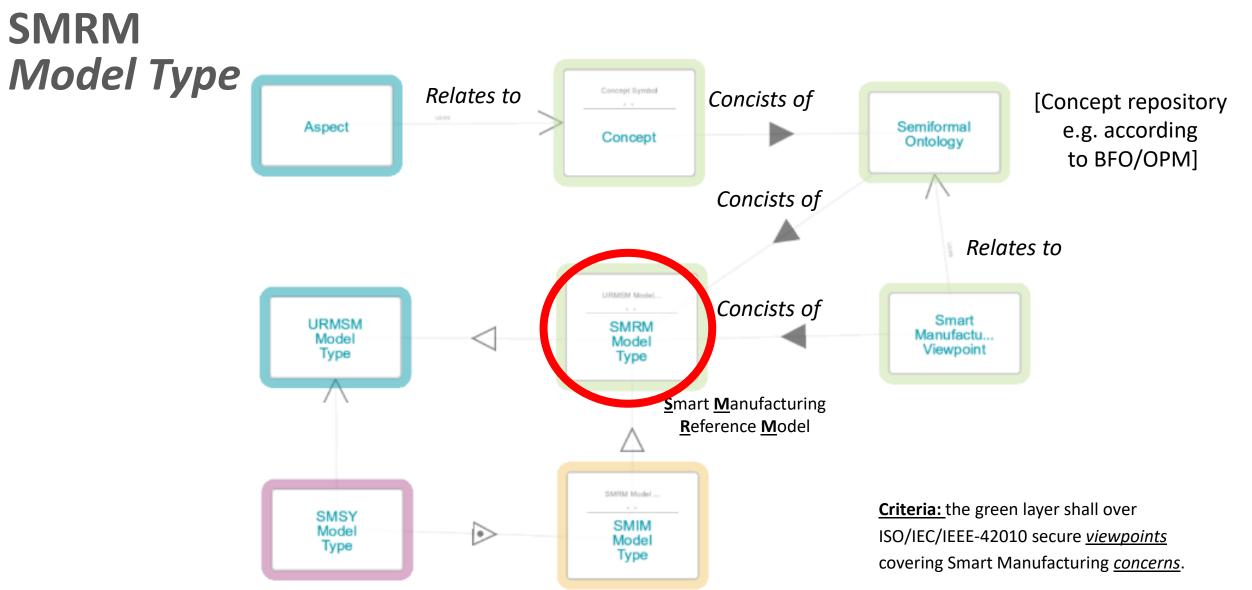
SM-Systems - the prerequisite for digitalization (means for knowledge graphs)

URMSM with model types (OPM-notation)

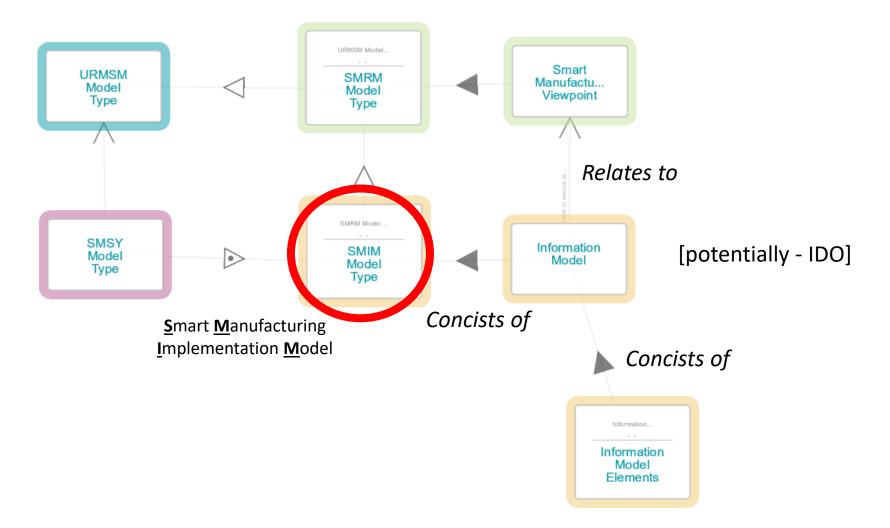




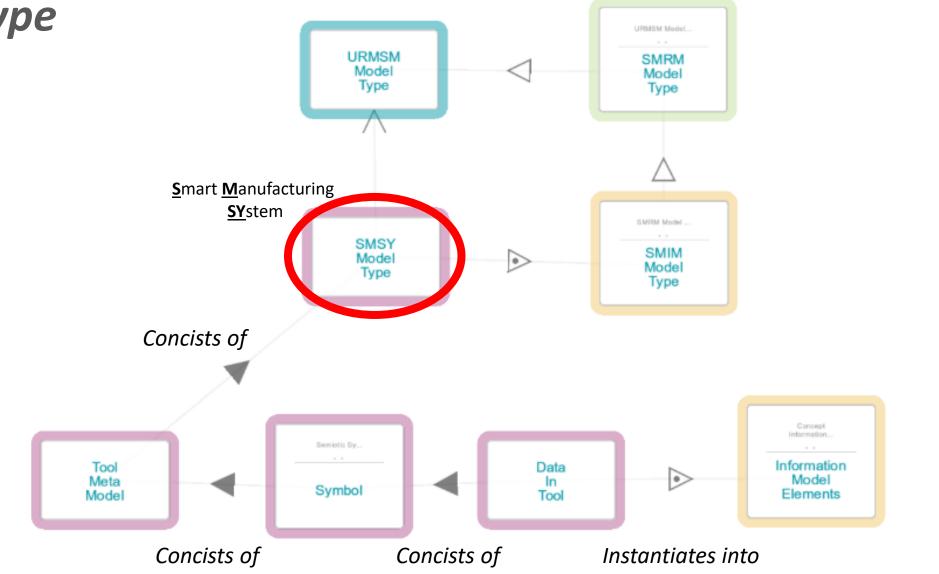
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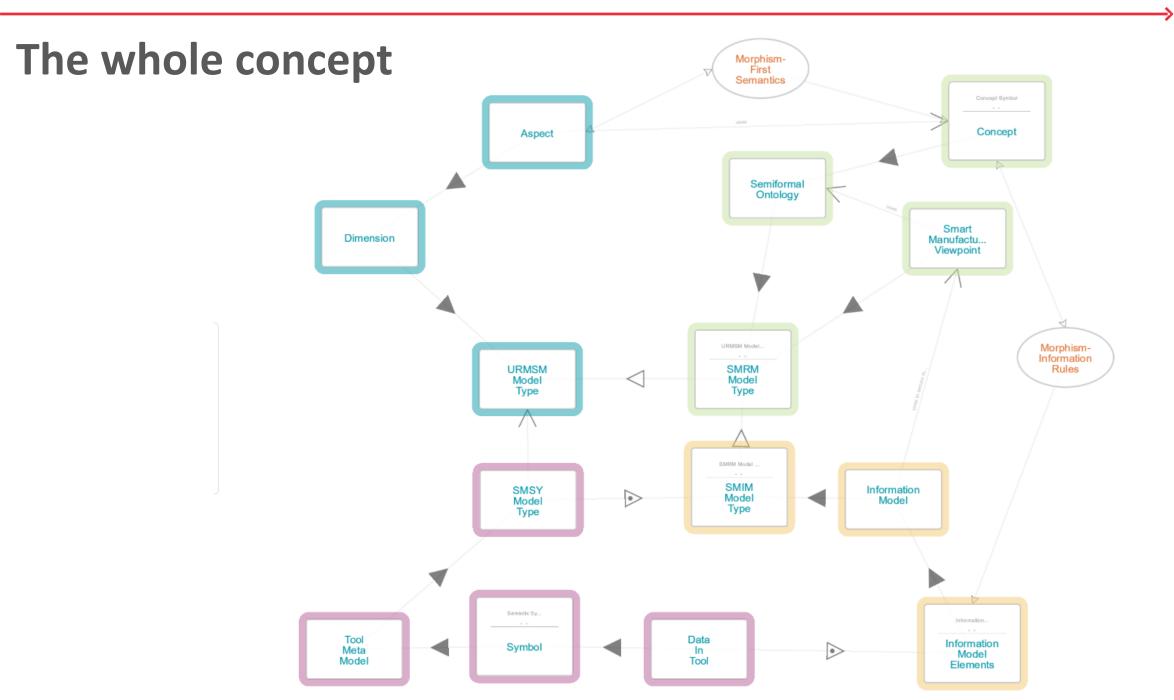


SMIM Model Type



SMSY Model Type





Thank you!

IEC 63339:2024 URMSM at ISO https://www.iso.org/standard/82374.html.

SIS seminar on October 9th: Smart manufacturing standards – from semantics to practical use

The target group for the seminar was participants of ISO/IEC JWG 21 Smart manufacturing reference model (s) and participants of SIS/TK 280 Industrial data and interoperability and others by invite

The recordings of the seminar are now available in the form of eight youtube videos reachable via links in the top right column of: <u>Standardutveckling - Industriell data och interoperabilitet SIS/TK 280 - Svenska institutet för standarder, SIS</u>

Standardization will continue in the working group AG 01: If you interested to join our standard work contact us at: **SIS/TK 280 Industrial data and interoperability**,



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