

# The use of FMI for LOTAR and what could make it easier

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*Representing the LOTAR MBSE workgroup*



# What is LOTAR?



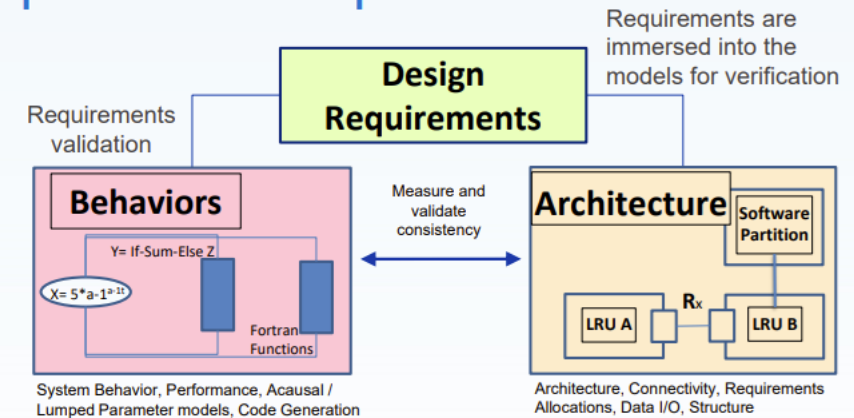
“The objective of LOTAR International is to develop, test, publish and maintain standards for long-term archiving (LTA) of digital product and technical data, such as 3D CAD/CAM and PDM data. These standards will define auditable archiving, management, and retrieval processes preserving engineering intent throughout the lifecycle of the product.” (LOTAR website)

# Our Workgroup focuses on mBSE

## What is MBSE?

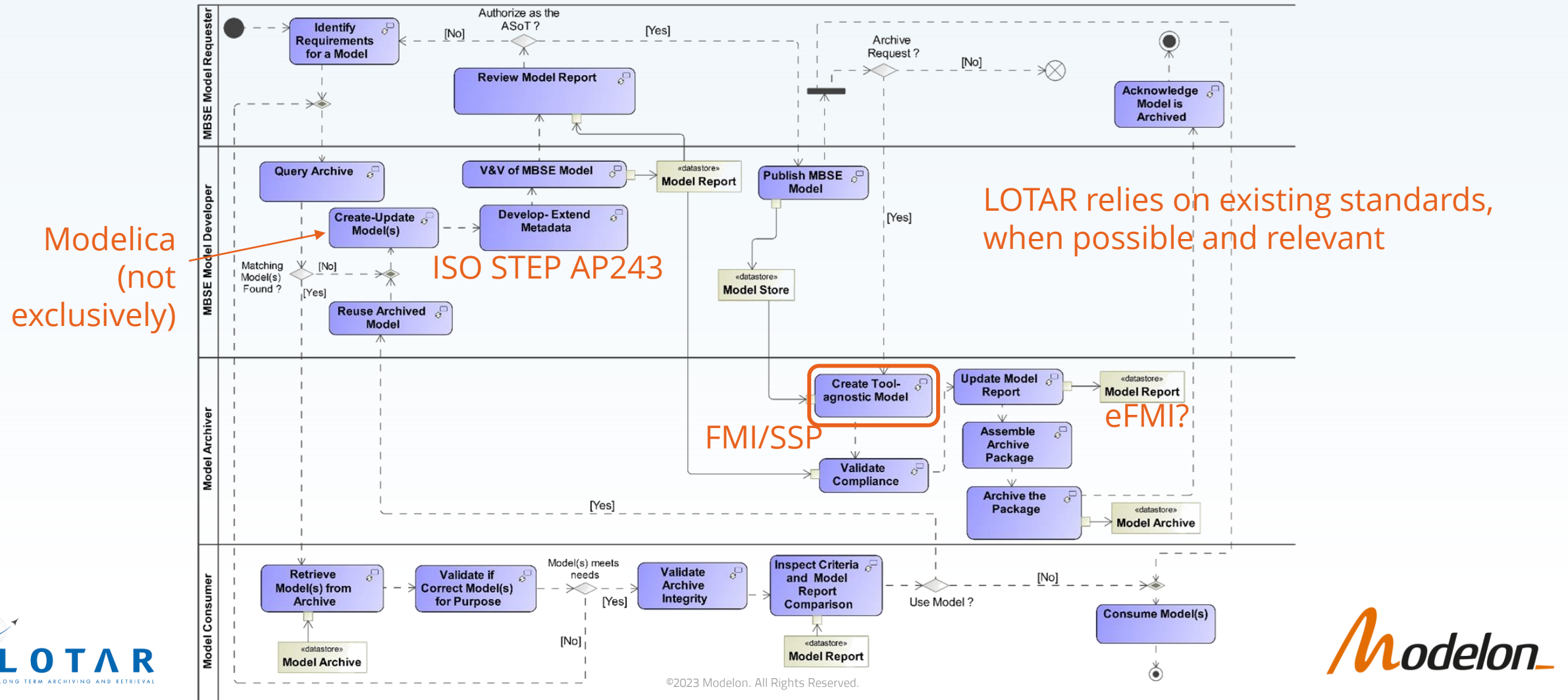
- 1) define BIG **M** (MBSE)  
*all of the **digital thread**, all domains, all models, the digital twin enabler*
- 2) define little **m** (mBSE)  
***RFLB** (Behaviors), not defined by CAD model, **Concept Design to Physical Implementation** (not spatial)*

## Keep mBSE Simple!



MBSE is achieved if the models are consistent, and are used downstream **without recoding or recreation**

# The LOTAR workflow



# What could be improved – from our perspective:

- Can we align metadata in AP243 and modelDescription.xml?
- We are concerned about licensed FMUs for LOTAR. Standardization of the FMU licensing would already be an improvement.
- We recommend to add the source model (in its proprietary form, e.g. `.mo` or `.slx`) as an extra artifact to the FMU
- We need a standardized way to specify FMU tests and define excitations (inputs) and results (outputs)
- We would benefit from having the model documentation embedded in the FMU.
- We might want to store the GALEC code as back-up(?)