

Digital Twins will benefit from data exchange driven interoperability

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The importance of digital twins in industry 4.0 scenarios is more and more accepted and understood, as they are providing the information model - consisting of 1D-2D-3D engineering model data plus operational data - for physical assets which can be finally used to run those physical assets in a more efficient way. One ongoing challenge in this scenario is to feed the digital twin with a comprehensive and complete engineering information model, even if the engineering partners are originally not working on the same platform and tool landscape. To collect and consolidate information from various sources semantic interoperability is essential, which is according Wikipedia “the ability to automatically interpret the information exchanged meaningfully and accurately in order to produce useful results”. To achieve this, all information exchange partners must refer to a common information exchange reference model (e.g. ISO 15926 EIWM or DEXPI information model) and software vendors must support this by providing suitable exchange functions.

In this presentation AVEVA will give an overview about its understanding of Data Exchange and Interoperability and how finally Digital Twins can benefit of a complete and accurate information model. Finally, a short overview will be given how current AVEVA tools are supporting in particular the process data exchange based on the DEXPI information model.