

Model-Driven Engineering for Optimal Project Delivery: Introducing the Project Delivery Model (PDM)

Monday, 13 November 2023 15:30 (20 minutes)

Energy Transition acceleration coupled to geopolitical stakes has translated into a major worldwide attention for nuclear sector mainly thanks to its capacity to produce stable electricity in a sovereign way. Hence, in order to keep up with the high demand of nuclear power plants, it is fundamental to have an efficient project management in order to successfully deliver nuclear projects while ensuring high regulatory requirements. Nuclear sector faces a major challenge, which paradoxically lies in the fact that despite all the accumulated experience in product design, it struggles with managing the associated organizations, which is becoming as complex as designing the product itself.

The aim of this paper is to present a new methodology called PDM, which stands for Project Delivery Model. PDM provides a digital framework that harnesses the power of model-driven engineering capabilities to enhance and optimize project delivery. Unlike traditional project tools that are restricted to having interfaces with KPIs, PDM offers a digital framework that enables the dynamic association and modelling of various dimensions of a project with each other. This enables project managers to make well-informed decisions regarding their projects throughout the entire lifecycle, from planning to implementation. By leveraging digital technology and artificial intelligence, the methodology offers several benefits, including the ability to accelerate the initialization of projects, to conduct simulations on the project organization, on the supply chain optimization, and to perform impact analysis of a specific decision.

Speaker Bio

Primary authors: AZZOUZI, El Mehdi (ASSYSTEM); Dr PLANA, Robert (Assystem)

Presenter: AZZOUZI, El Mehdi (ASSYSTEM)

Session Classification: Day 1- Parallel Session - II : Education and Training

Track Classification: Education and Training