Obeo Supports Sydney Interplanetary Rover Initiative in Advancing MBSE with Capella and Arcadia

Obeo, a software company founded in 2005 and known for its collaboration with Thales to create the open-source model-based systems engineering (MBSE) tool Capella (https://mbse-capella.org/), has announced its support for the Sydney Interplanetary Rover Initiative (SIRI). SIRI is a student collective from the University of Sydney, currently consisting of 75 members with plans to expand to 200. This partnership is part of Obeo's Academic Program, which provides students with free licenses and guidance to design their rover prototype while learning model-based systems engineering using the Arcadia method through Capella.

The Arcadia Method and Capella

Arcadia is a model-based engineering method for systems, hardware, and software architectural design. Developed by Thales between 2005 and 2010, it has been deployed by hundreds of organizations across thousands of complex projects worldwide in sectors such as Defence, Transport, Aerospace, and Healthcare. Arcadia, coupled with the pragmatic Capella software, offers numerous advantages:

- **Managing Complexity:** Effectively deals with the complexity and scale of projects.

- **Improved Communication:** Facilitates better communication among stakeholders in complex projects.

- **Understanding Customer Needs:** Helps in thoroughly understanding the real customer requirements.

- **Proven in the Field:** The method has been successfully applied in various domains and organizations worldwide, across projects of different sizes, by thousands of users.

Obeo's Support and Collaboration

As part of the Academic Program, Obeo is proud to provide SIRI with access to its main add-on, Team for Capella, which allows multiple SIRI members to simultaneously edit and collaborate on the same Capella model remotely via a server. This capability is crucial for SIRI as they work on designing their interplanetary rover.

This collaboration is further supported by Obeo's partner in Australia, Tim Carter, a former Thales employee with over 24 years of experience in systems engineering and deep expertise in the Arcadia method and Capella.

Romain Horcada, Obeo's Business Developer for Australia and New Zealand, represented the company at SIRI's Preliminary Design Review presentation on July 31, 2024, during the Space Industry Networking event in Sydney.

Looking Forward

In the coming months and years, SIRI will continue to develop their rover using Capella, with ongoing support from Obeo and Tim Carter. This partnership is expected to help SIRI excel in their upcoming national and international competitions, potentially leading them to victory.