

Vortrag: Space System Engineering, a digital transformation challenge

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Abstract: Airbus Space Systems in Friedrichshafen is the largest provider of high-performance satellites in Germany. Mission and Satellite Chief Engineers are tasked with providing technical leadership for advanced and complex satellite developments from early study phases up to design, development, ground- and in orbit validation phases.

This talk introduces how the maintenance effort in modern projects is minimized with continuous increase of information and system complexity by using Model Based Systems Engineering (MBSE) aiming to improve deficiencies in data consistency and information latency by using models which are ideally all linked to a central database as the “single source of truth”.

Besides, the Laser Interferometer Space Antenna (LISA) mission, one of the three large missions in the ESA Cosmic Vision Science Programme, (next to JUICE and ATHENA) is presented. It is planned to be adopted for implementation phase in 2023 and launched in 2035 with the main objective to observe gravitational waves in space which are emitted by extremely interesting galactic and cosmic sources at frequencies that cannot be accessed on Earth.

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