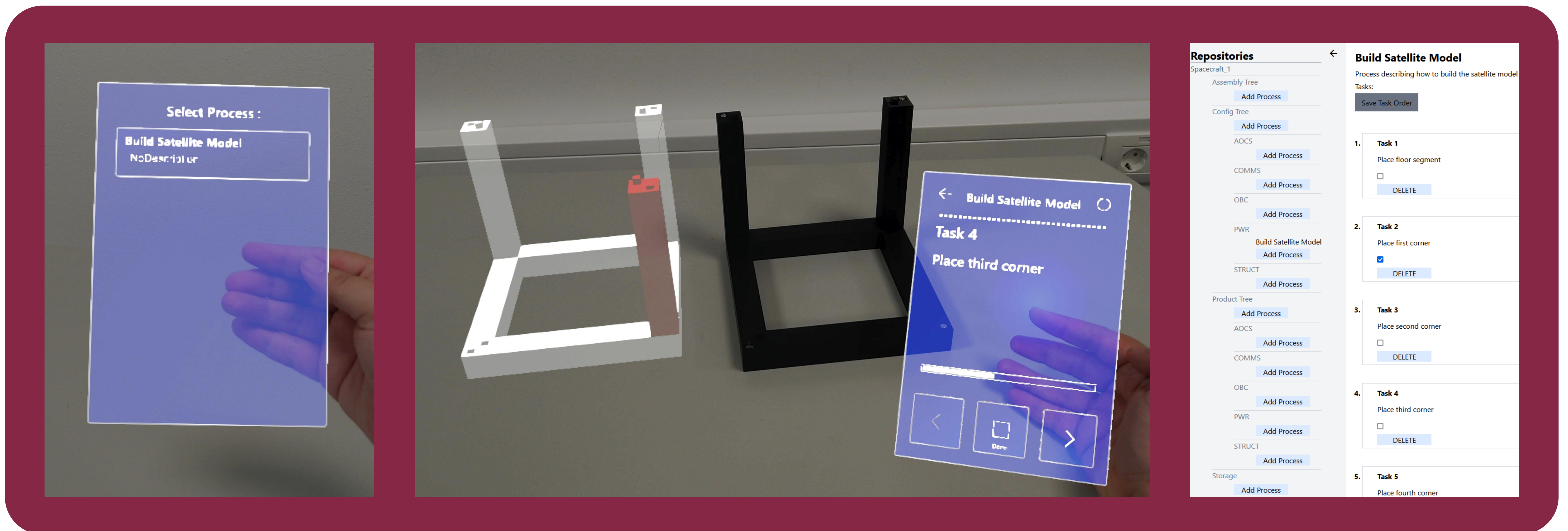


DigiTwinAIT: Augmented Reality and model-based AIT Support



Satellite construction is a largely human centered process that is divided in many dependent sections. **Digital transformation** of this area carries great importance as showcased by the focus of the sector NewSpace Initiative.

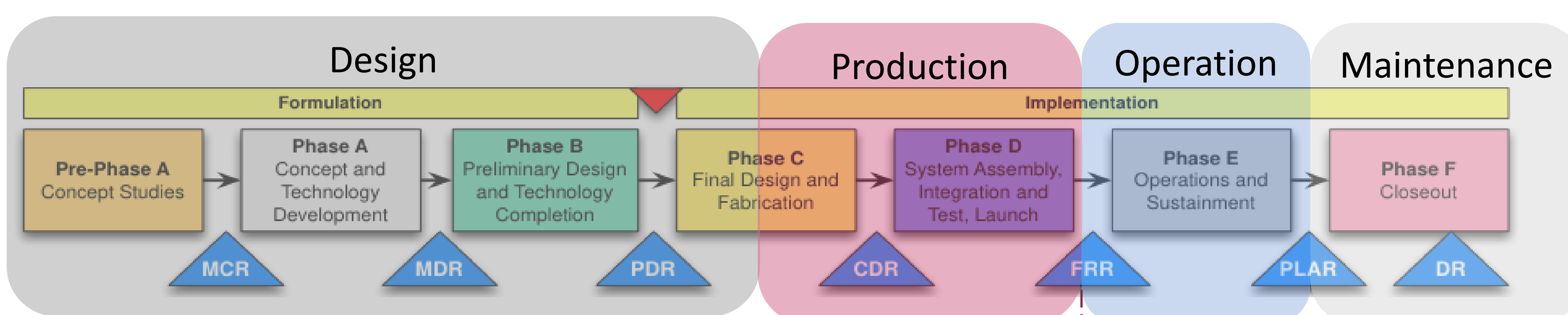
Our vision for this transformation of space industry is conceptualized by **Engineering Metaverse**, "Any data, anywhere, anytime."

This would be achieved via bridging **model-driven engineering** support for AIT, through **Digital Twins** paving the way for:

- Inter-connected visualizations across all phases through **Augmented Reality (AR)**
- Testing via simulated components
- Remote collaboration

What **DigiTwinAIT** offers:

- Interactive AR visualisation of tasks
- A digital twin conceptualizes the satellite on backend through the REST API
- Synchronized views on both Mixed Reality and Web UI



Assembly, integration and testing (AIT) is a vital phase that relies on detailed planning and documentation on all preceding steps, thus making AIT a very time-involved process, which is done on expensive hardware by experts.

