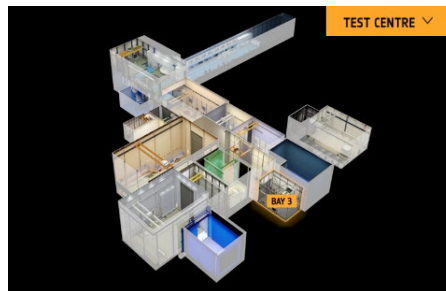




## TECHNOLOGY DESCRIPTION

The model-based virtual tour experience is a web-based platform that allows users to experience complex facilities in either first or third person through their browser or in a virtual reality setup. The platform itself runs on the Verge3D engine and features highly detailed and accurately modeled assets implemented for ESA's mission animations. The platform allows the integration of additional information and media in different formats, ranging from videos, visuals, to websites or other platforms. As a model-based solution, the platform can be easily adapted to be used as a functional tool for operations training or similar purposes (including user interaction).



## INNOVATIVE ASPECTS

- 3D models are effectively reduced in terms of polycount without losing the overall look of the original detailed models.
- Flexibility through model-based approach
- Realistic lighting and shadowing effects
- Integration of virtual reality features and user interaction possible



## TECHNOLOGY READINESS (in space application)

TRL 7 (2024)

COUNTRY OF ORIGIN

The Netherlands

LATEST UPDATE

04/2024

### TAGS

#model based

#virtual reality

#platform

#animation

#user interaction

#training

### APPLICATION AREAS

Aviation

Construction & Civil Engineering

Education & Training

Infrastructure & Smart Cities

Media – Culture & Sport

Tourism

Transport & Logistics

# TECH CARD

