



Agnostic, scalable, interoperable
3D Digital Twins

1. Why Kairos3D | Vision for HMI of the future

LEAD THE SHIFT

01

Kairos3D Mission

The mission of Kairos3D is to participate in the deep change in the domain of **Human-Machine Interface**, where the bi-dimensional space for interaction and control is being replaced by the three-dimensional one, as well as the traditional vision is being extended to the stereoscopic one (VR, AR and MR).

02

Immersive Control

Kairos3D envisions immersive 3D representations for the **control rooms of the future**, and 3D as the Visual Front-End of the Enterprise Stack for consolidating point solutions, by starting with 3D/VR solution (3D Digital Twins as visual connector for the System of Systems).

2. Digital Twins | Common Understanding



Twin it. Experience it. Control it.

The Digital Twin (virtual representation) of a physical asset can include

- A replica of its physical appearance (the asset twin)
- A dynamic representation of the asset process that may consist of:
 - Simulated asset behaviour
 - Actual performance of the asset
 - Predicted asset performance

with the goal of enabling continuous optimization, predictive asset maintenance, and process innovation.

Kairos3D addresses the “asset twin” side of the Digital Twin through highly realistic, interactive 3D models of the assets, and offers an agnostic approach for integrating with “process twins”

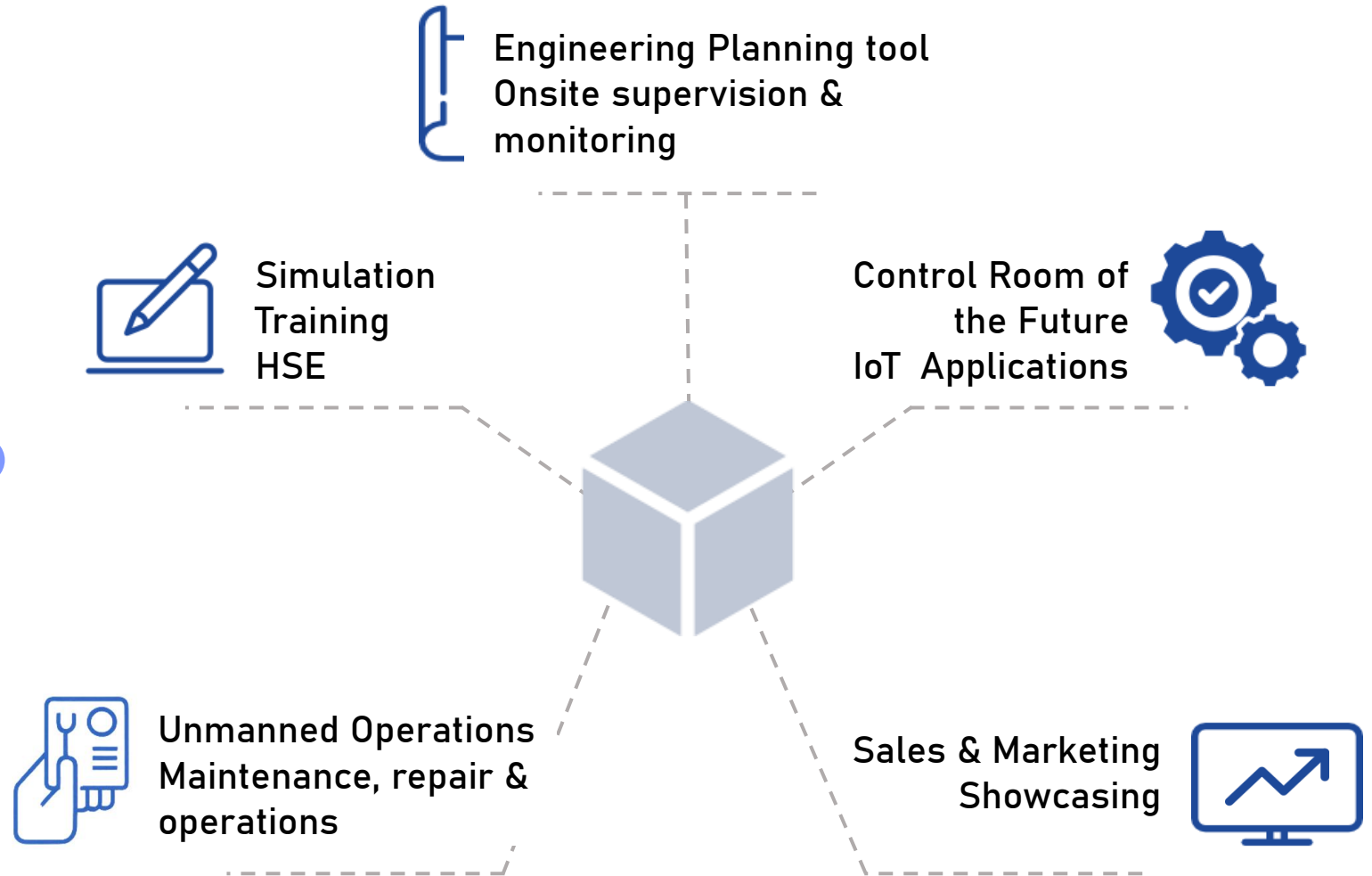


1. Why Kairos3D | Multipurpose by nature



Digital Transformation Enabler

Whatever the customer's initial use case, the Kairos3D platform enables **effortless repurposing of the Digital Twin**, unlocking new business opportunities and accelerating the enterprise-wide adoption of Digital Twin solutions.



3. Kairos3D Value | Agnostic Approach

Kairos3D technology is fully **platform-agnostic**, designed for maximum flexibility and scalability across all dimensions:



3D Model Agnosticism

- Format-agnostic CAD/model support, imports and processes any 3D format
- No size limits, handles massive, complex models (e.g., entire factories, offshore rigs, or city-scale twins)



System Agnosticism

- Seamless interoperability: integrates with any external system
- Data-format neutral: supports industry-standard formats and custom schemas



Infrastructure Agnosticism

Deploy anywhere: on-premises, public/private cloud, hybrid architecture



Device Agnosticism

Universal deployment: runs on any device - mobile, desktop, VR headsets, immersive rooms (CAVEs, domes)

3. Kairos3D Value | Versatile & User Friendly

Scalable 3D Core

The software modular architecture provides visual, user-friendly tools to:

- create stand-alone training scenario scripts
- connect the Digital Twin to OTS systems / simulation models
- interact in real-time with external systems to display raw data, KPIs, alerts, predictive analytics, and statuses in spatial context
- support data-driven decision making through color-maps superimposed on the 3D
- Large volumes → Kairos3D technology allows addressing huge 3D datasets (entire plants, entire cities)
- Highly realistic graphic quality
- Modular architecture
- Proven vertical experience in Energy sector
- Excellent Cost/Quality ratio



Fast Digital Twin creation



Cross industry solution



Huge 3D scenes



Platform agnosticism

Thank You

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