



NEOCEPTION® DIGITAL TWIN INFRASTRUCTURE

Create thousands of digital twins in no time!

SCALABILITY

MONITORING

EFFICIENCY



OUR PRODUCT

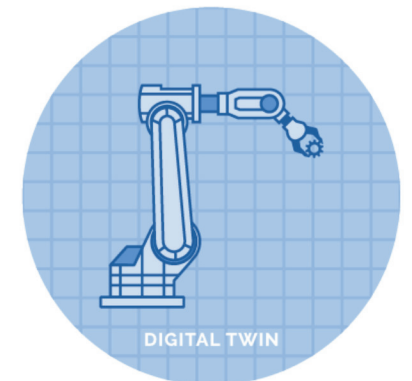
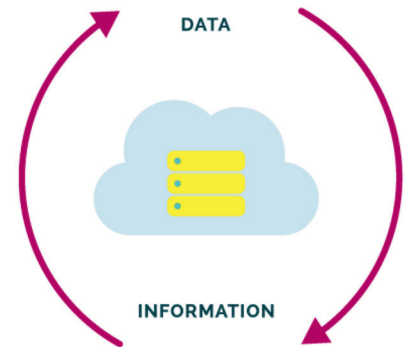
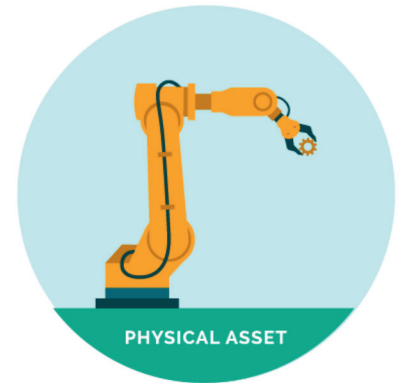
The Neoception® Digital Twin Infrastructure (DTI) is a platform designed to consolidate proprietary product data from various data sources into a standardized digital twin, making it available for a wide range of cross-manufacturer and cross-industry applications. It enables the creation, management, and optimization of digital twins.

A key aspect of the DTI is that digital twins are created upon request. This creation, based on pre-made templates and specific mapping rules, prevents redundant data storage and ensures users always have access to the latest information on-demand.

The DTI can be operated by customers themselves or offered as a SaaS solution by Neoception GmbH.

DIGITAL TWIN AS A SOLUTION

- ✓ No additional tools for customers needed to access information,
- ✓ Enables automation by providing IT-interfaces (API) to request data,
- ✓ Enable customers to retrieve a copy of the data in standardized form (AASX-file),
- ✓ Secure, protected, and authorized access to information without direct access to internal systems,
- ✓ Authentication of users (allows to share information),
- ✓ Running business applications on top of the available data,
- ✓ Connecting to multiple internal systems by using easy to manage rule sets and automated suggestions system.



BENEFITS

1

Dynamic Provisioning

Allows for the dynamic creation and provisioning of digital twins for various physical assets and systems.

2

Security

Incorporates robust security measures to protect sensitive data and prevent unauthorized access.

3

Semantically Described

Uses semantic data modeling to provide context and meaning to data points.

4

Scalability

Highly scalable, accommodating the addition of more assets and data sources without significant constraints.

5

Easy Update

Facilitates effortless updates and modifications to digital twins and their associated data models.

6

Versatile Output Formats

Offers diverse output formats for presenting and sharing digital twin data.

CUSTOMER VIEW

01

Connection Layer

In the initial connection layer, we focus on linking various systems within a company. This involves integrating software applications, sales tools, and data sources, like Siebel, HubSpot, Easy Project, and others. This layer acts as the foundation for seamless data communication.

02

Standardization Layer

The DT standardization layer ensures smooth interactions and data consistency among diverse physical assets and systems. Its core goal is to overcome challenges in integrating assets with varying data formats and protocols.

03

Modeling Layer

The modeling layer in DT customizes and standardizes data points using E-Class and IDTA standards. E-Class offers unique identifiers for cross-system communication, while IDTA standardizes templates like digital nameplates for product consistency, integrated by Neoception.

04

Application Layer

In the application layer, Neoception offers various applications using standardized data and models. These include a UI viewer for digital twin exploration, a format-specific file exporter, and potential automation via an API. Customers can request or build tailored applications.

