

# Unlock the Power of Digital Transformation with Industry 4.0 Digital Twins

Transform your business and take advantage of the numerous benefits offered by Digital Twins. By creating a virtual representation of physical assets, you'll have access to real-time data and insights that will inform your decision-making and improve your bottom line.

#### Why DataArt?



Bespoke solutions for your business needs



In-house data analytics, AI / ML, IoT expertise



Cost-efficiency, no hidden costs



Integration with your eco-system



No vendor locks



Fast time to market & fail-fast strategy

## Your Partner for Progress in an Ever-Changing Digital World

Founded in 1997, DataArt is a global software engineering firm and the trusted technology partner of market leaders. Led by our people-first principle, our world-class team designs and engineers data-driven, cloud-native solutions that drive progress and create immediate and enduring business value.

# **End-to-End Digital Twins**

The multi-level Digital Twin journey, providing values at each stage.



#### iOT/Connectivity Layer

The data acquisition and transfer layer.



# Data Integration & Storage Layer

Data collection and preparation for future usage.



# Analytics and Simulation Layer

An object or processbased virtual representation layer, allowing you to replicate its behavior with all relevant features and then analyze it.



#### Decision-Making Layer

A set of tools to identify possible scenarios manually or automatically.

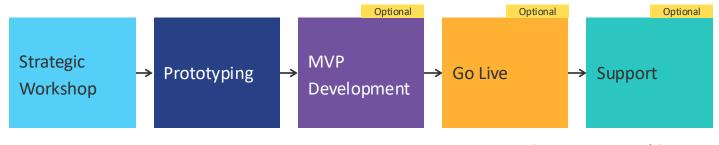


#### Management Layer

This applies the required changes to objects or processes. It also includes an admin control panel, user interface, and dashboards for displaying data.



# Fast Decisions Allow Fast Implementation



Receive expert guidance and discover potential use cases with high ROI. Functional prototypes demonstrating the agreed-upon scenarios on the discussed technology stack.

Integration of the Digital Twin solution into your existing ecosystem, ensuring seamless functionality and efficiency. Optimization and improvements of the approach with new data, model enhancements as needed, and deployment to production.

Provision of the support and minor enhancements, and ensuring efficient monitoring.

# **Digital Twins Offering**



#### Services

- Design & development
- Simulation & analytics
- Real-time monitoring & visualization
- Asset performance tracking
- Energy efficiency monitoring
- Predictive analytics
- Remote control & operation
- IoT connectivity & data integration



#### **Business Outcomes**

- Detailed control of product development
- Processes verification
- Cost optimization
- Continuous improvements & agility
- Data-driven insights & decisions
- Real-time monitoring and simulation
- Reduced operational & maintenance risks
- Overall reliability, availability & performance improvements

#### **Media Mentions**



<u>Digital Twins: A Key to Energy</u> <u>Saving in Manufacturing</u>



<u>Digital Transformation</u>

<u>Manufacturing Melds Emerging</u>

Tech



<u>Der digitale Zwilling im</u> <u>Brownfield -Einsatz</u>

### **Success Stories**













