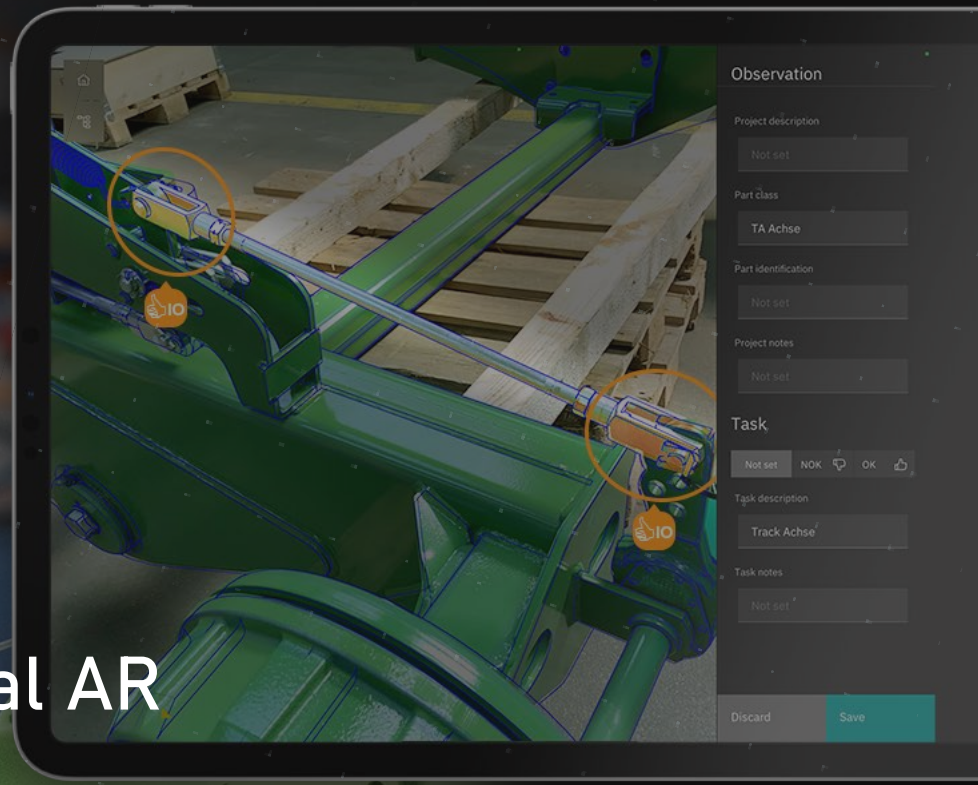
VISOMETRY

twyn

visionLib

Twyn Studio
reducing setup times for scalable industrial AR



3D Pipeline Days 2023

Harald Wuest
CEO, Founder

harald.wuest@visometry.com

VISOMETRY

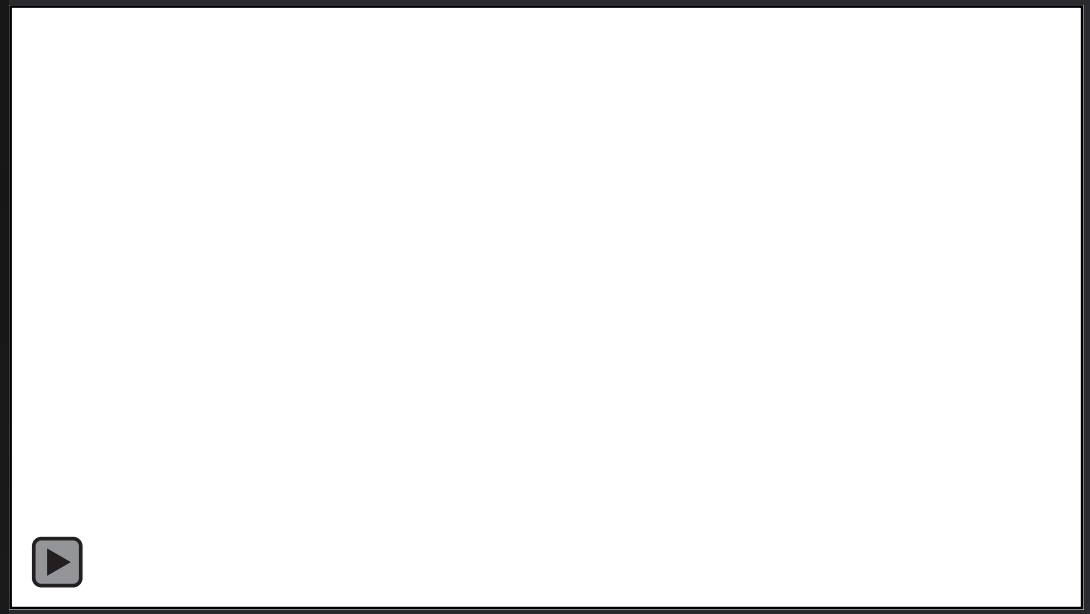
Experts: Tech StartUp + Fraunhofer SpinOff,
team of 24 enthusiasts & experts in Augmented Reality.

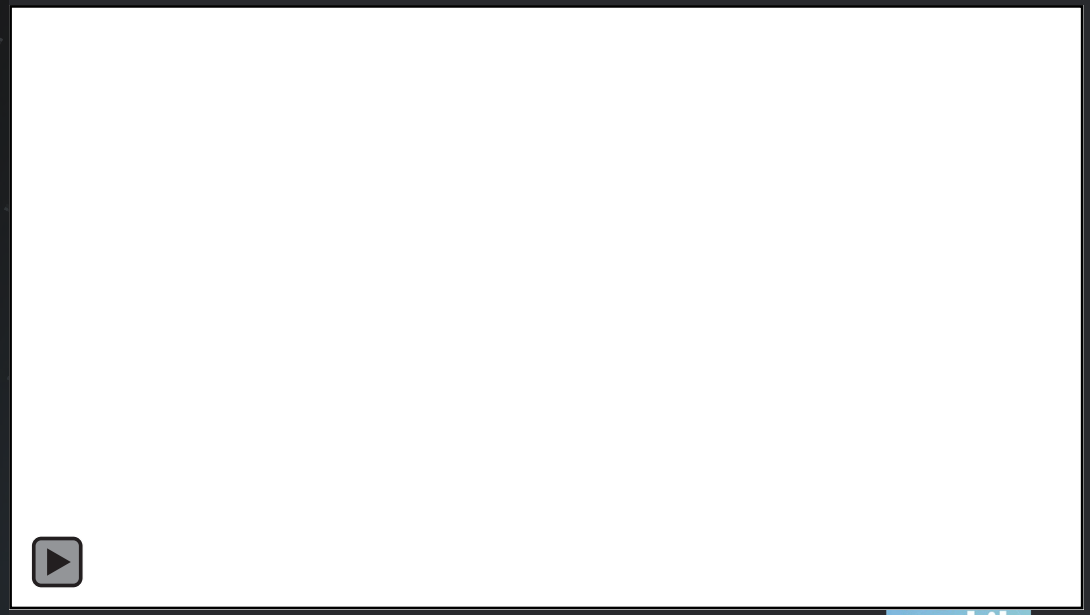
Technology: VisionLib – Object Tracking for AR

- High Performance Object Recognition & Precise Tracking
- Based on Digital Twins/CAD/3D Model
- Deep Tech for Developers

Product: Twyn – AR-based Quality Inspection

- Detecting differences between virtual and physical objects
- Mobile inspection tool for quality engineers
- Efficient and easy-to-use solution to increase the product quality and reduce expensive follow-up costs





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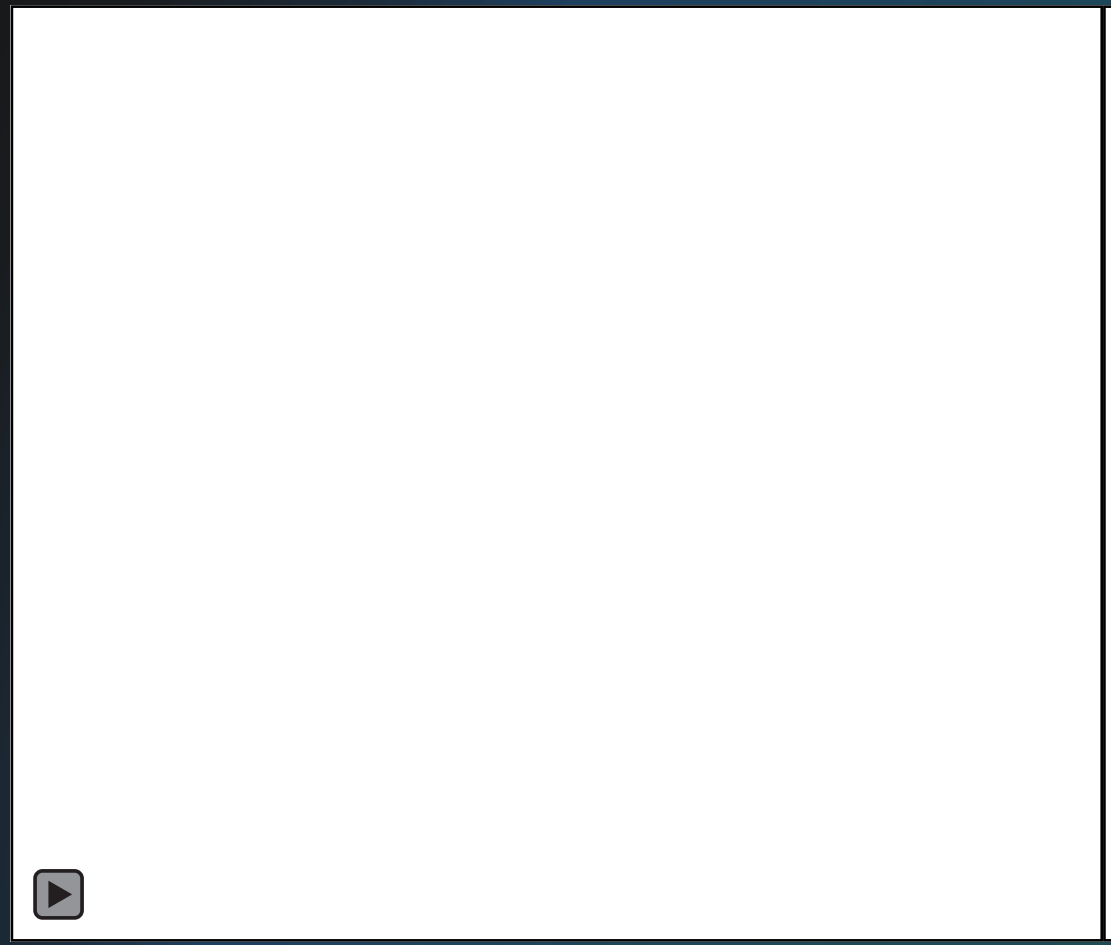

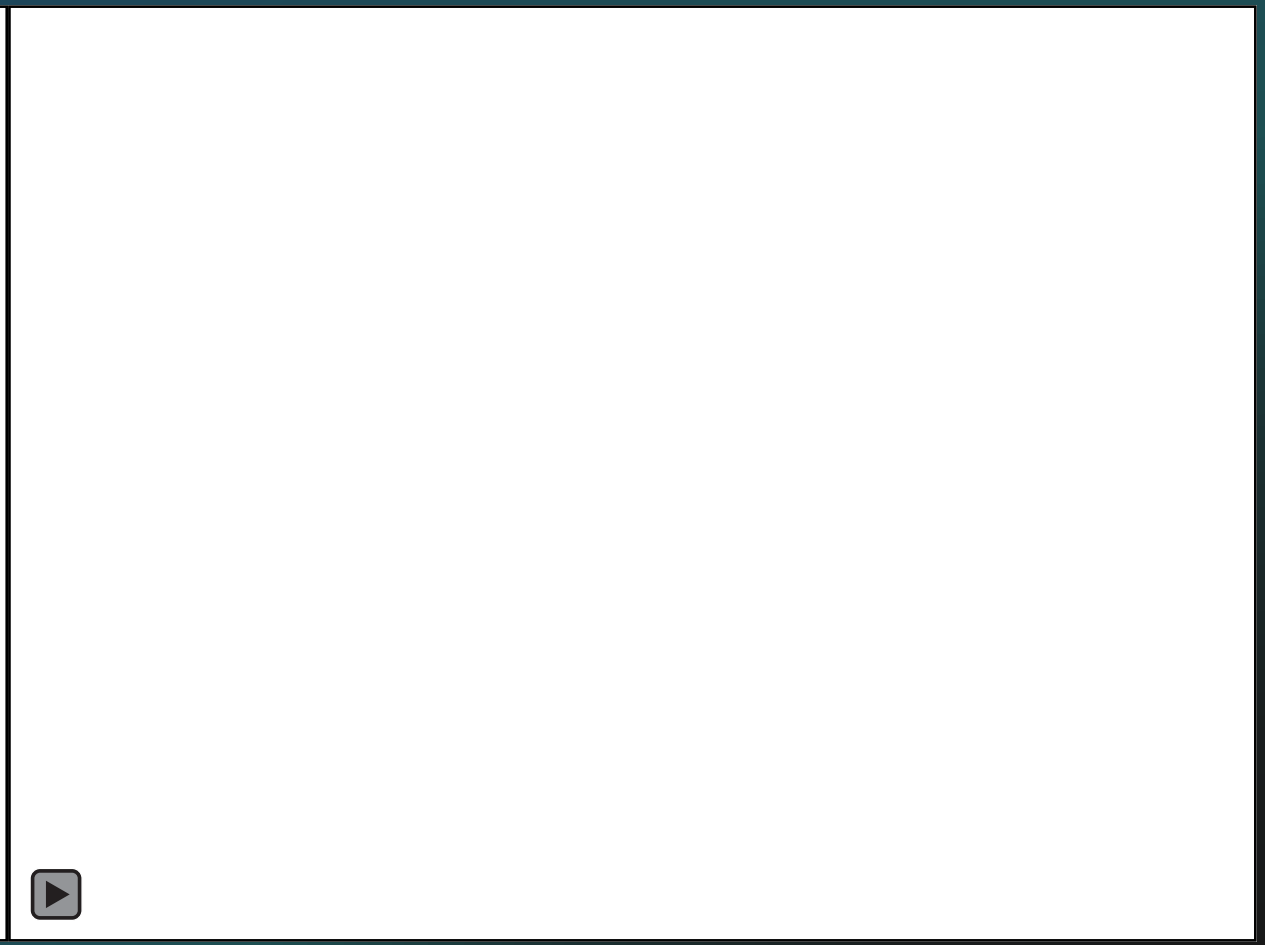

visionLib

Computer Vision Algorithms for Object Tracking

AR – Computer Vision Tracking Makes or Breaks the Case

VISOMETRY

SLAM & Planar Detection

Enhanced Model Tracking

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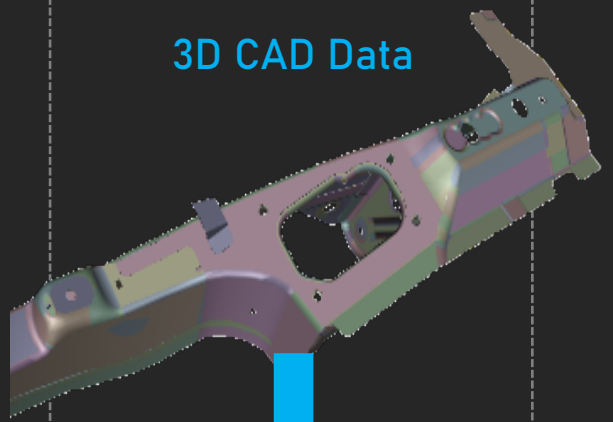
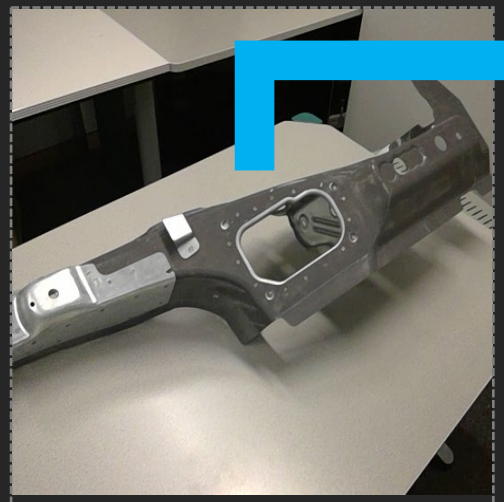
3D CAD Data





real object

Developer

VisionLib SDK

Authoring Environment

AR App

Reference Model + Augmentation Space

3D Augmentation Data

Auto-Config

Multi Platform Support

twyn

Powerful software platform for Augmented Reality-based quality control.

The mobile & digital-by-design system helps manufacturing companies deliver on quality promises faster & more efficiently.

Digitalizing Quality Control with AR & Digital Twins

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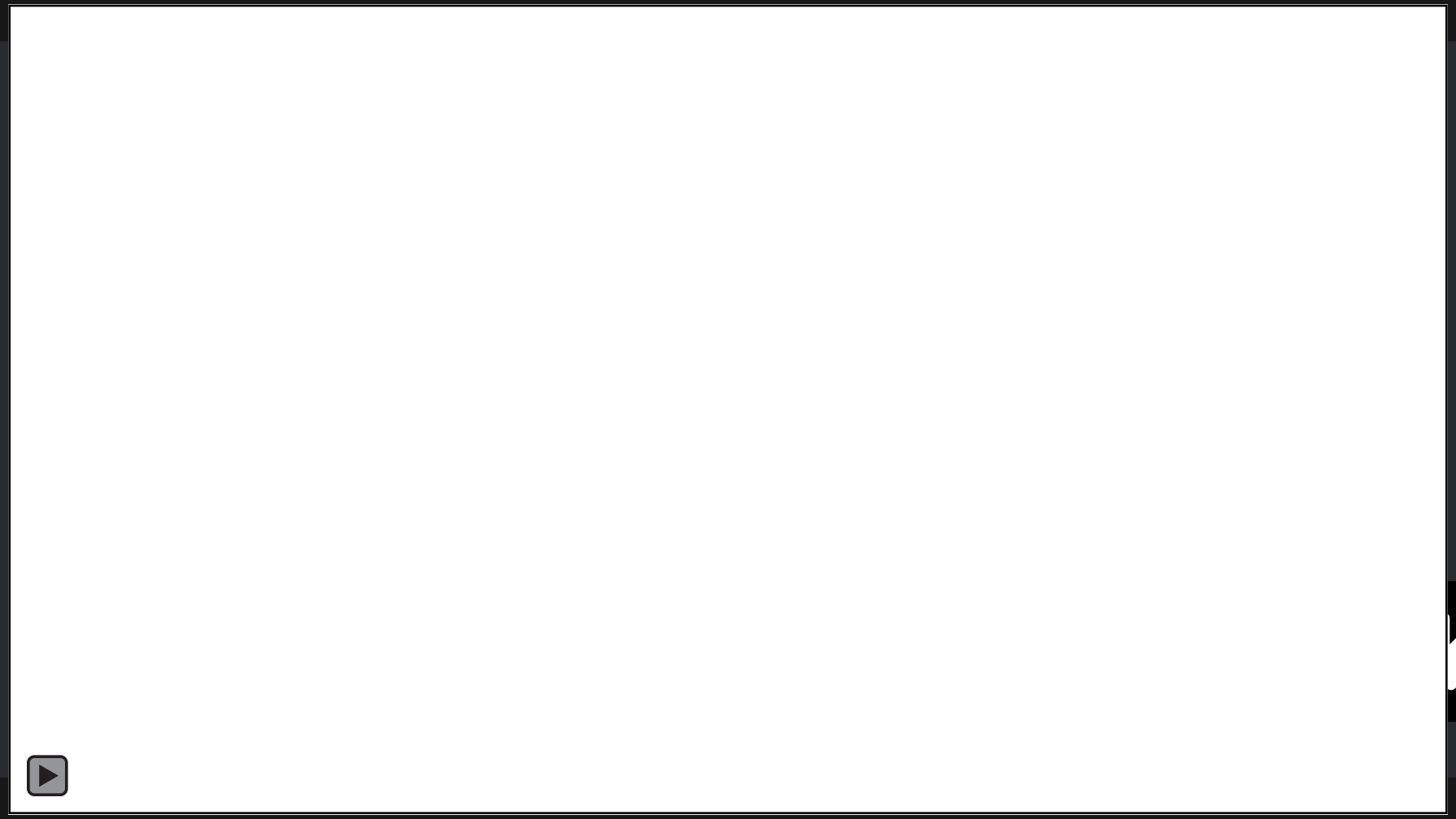

Application Example: Part/Object Analysis

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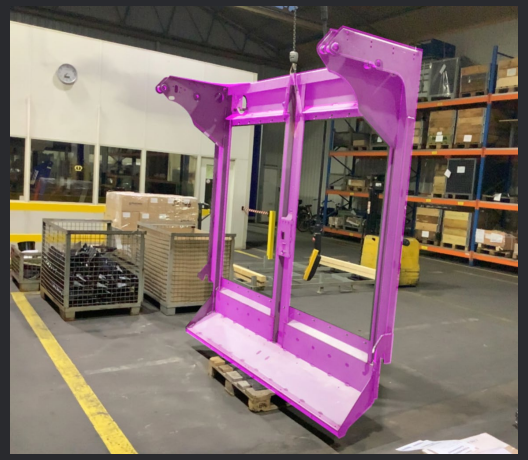
Application Example: Part/Object Analysis

Superimpostion CAD model



Superimpostion Edge Model

Incoming Goods Inspection

Industrial Inspections – with AR & Digital Twins

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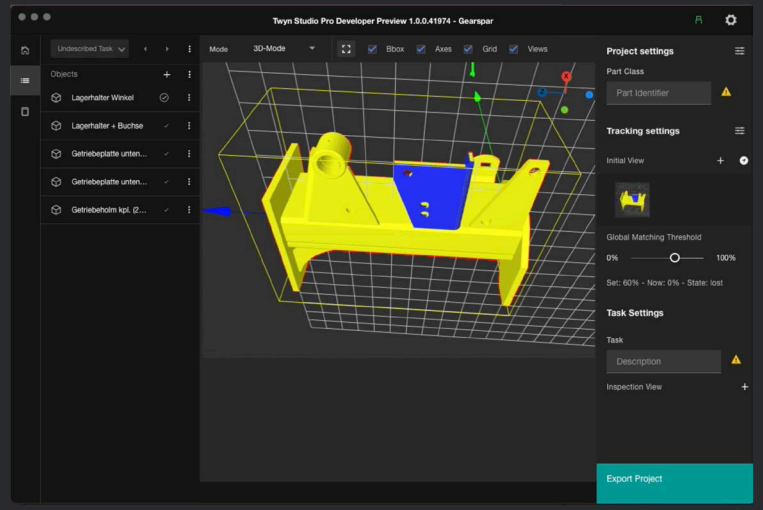
Twyn Studio

Desktop Software for PCs

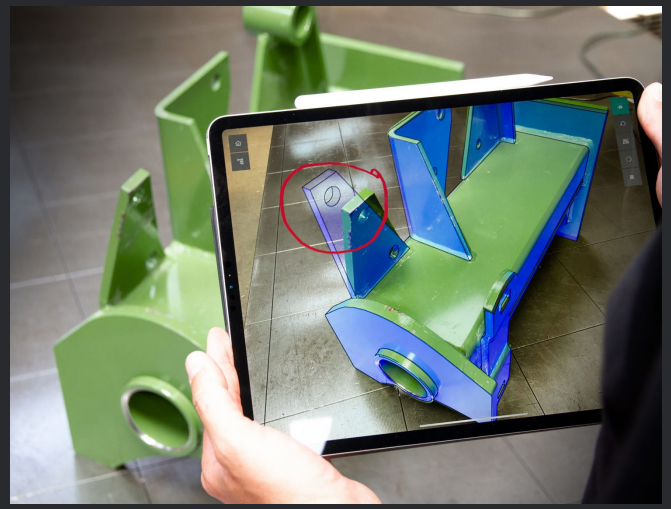
- CAD: “as-is” specification, supports multiple formats
- Quick setup of inspection projects or test cases
- Seamless Deployment to iPad



Twyn View

Mobile App for iPad

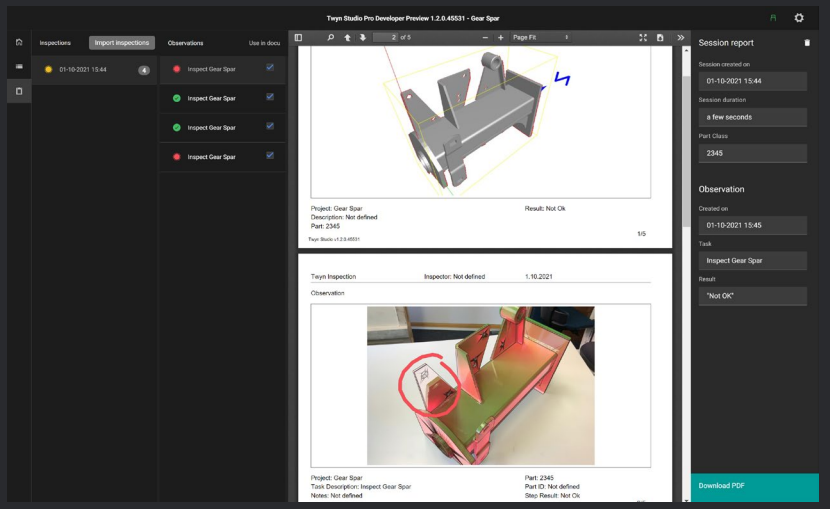
- Visual, mobile inspection of parts and entire assemblies
- Automated OK/N-OK Classification



Twyn Documentation

Instant, digital reporting of Inspection Results

- Intuitive, digital reports, per part, per session
- Generated instantly while documenting & capturing inspection results.



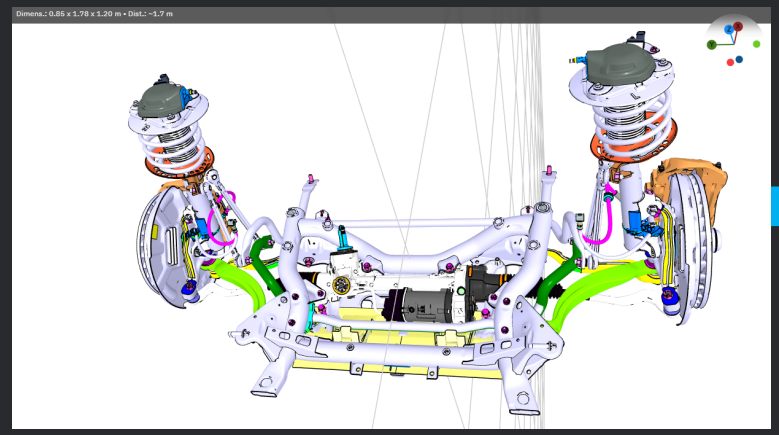
VISOMETRY

very large
3D CAD model
(i.e. 500MB)

twyn Studio

RapidCompact

reduced
3D CAD model
(i.e. 50MB)



twyn View

Customer use case: Slavia Tooling

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Twyn – Way to Automation

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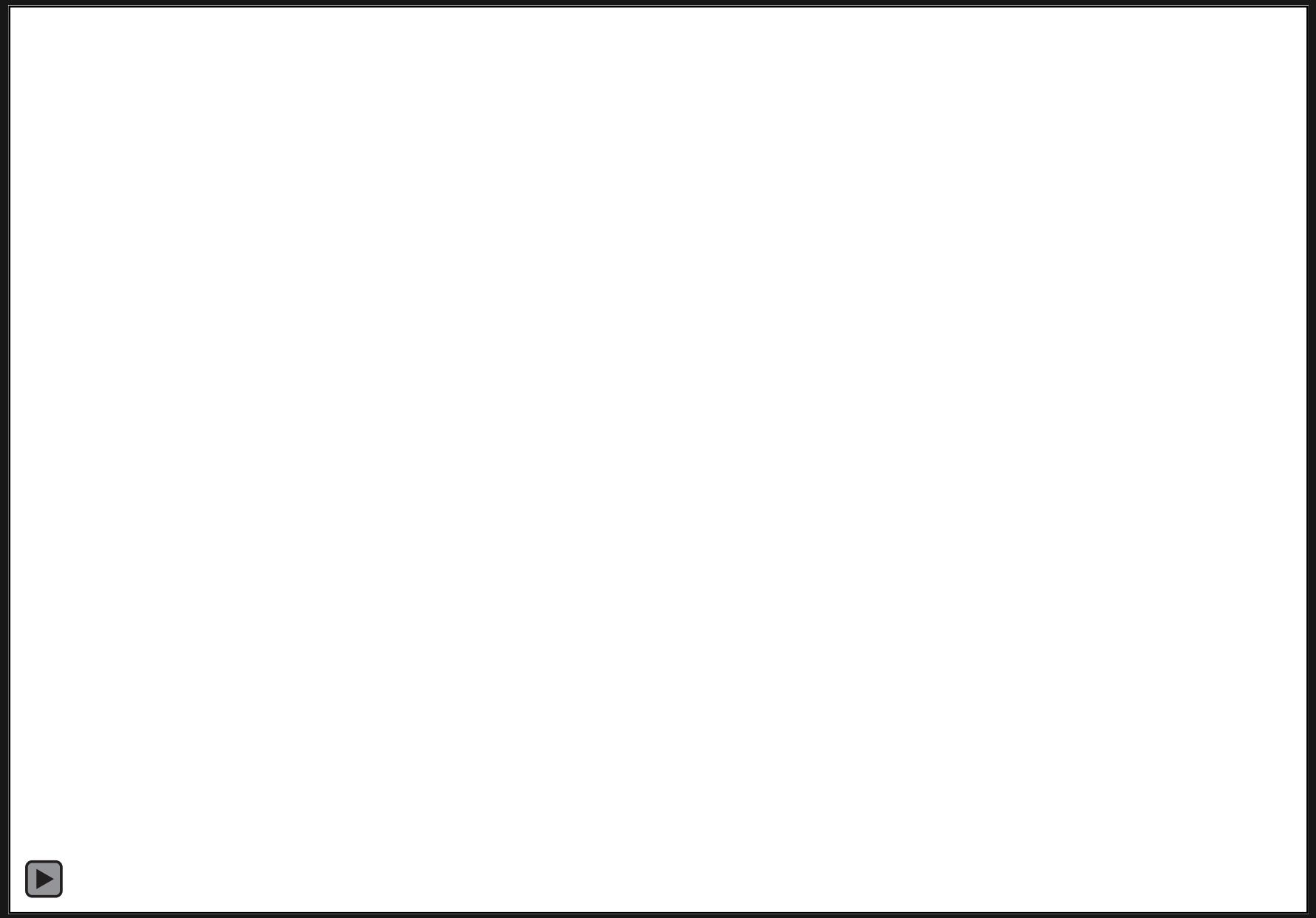

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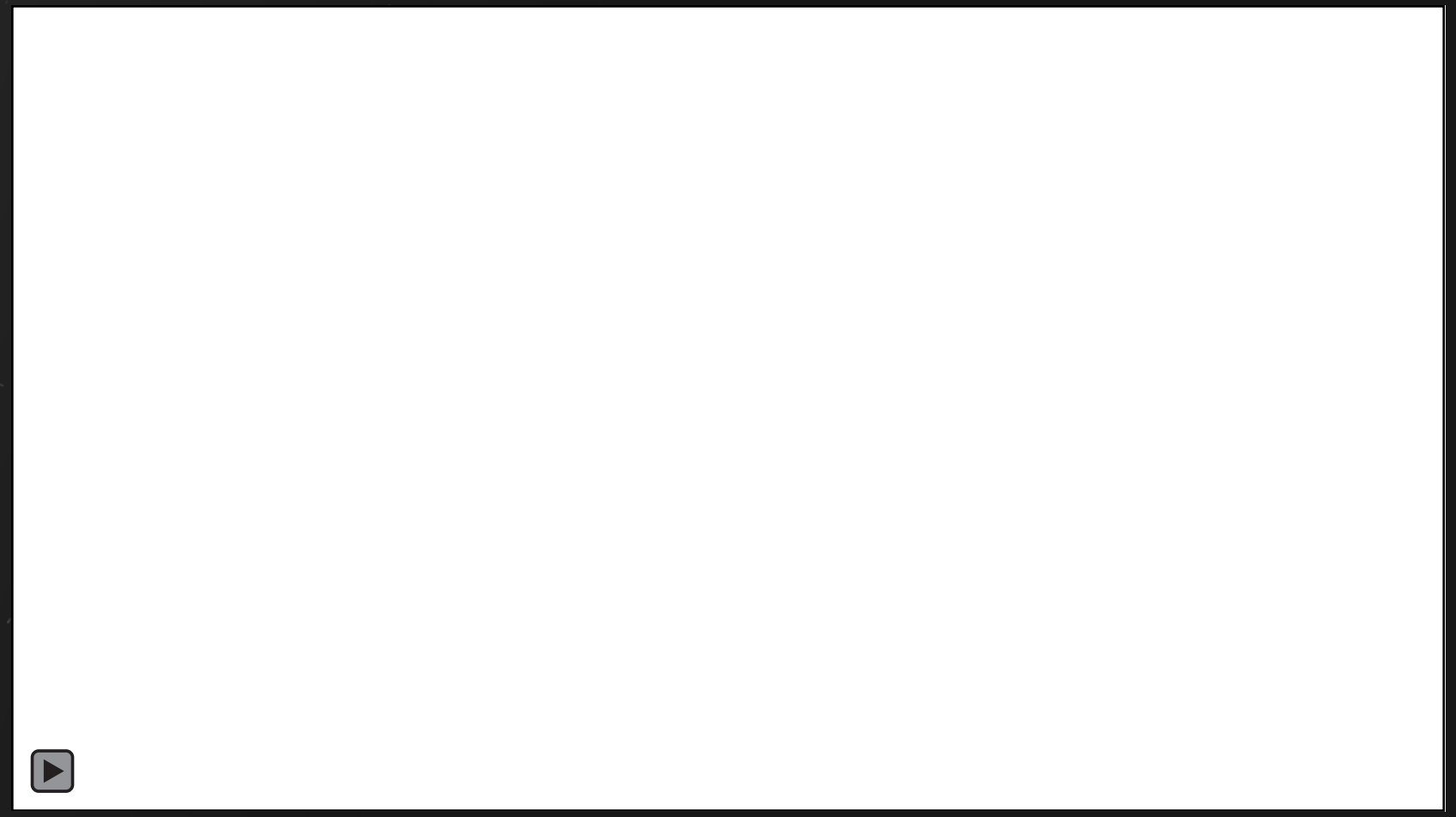

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