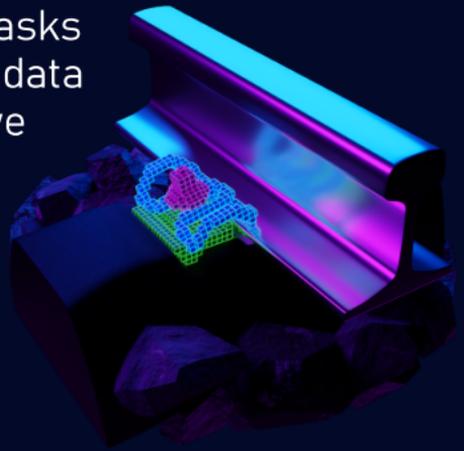# ✕-nihilo

Unlock the Future of Railway Inspection with Synthetic Data

A one-stop solution for computer vision tasks on railway. If real data does not exist – we create it!

✓ **Generate Synthetic Data for Highly Accurate Railway Defect Detection**

✓ **All-in-One Solutions for Defect Detection, from Data Generation to Model Training**

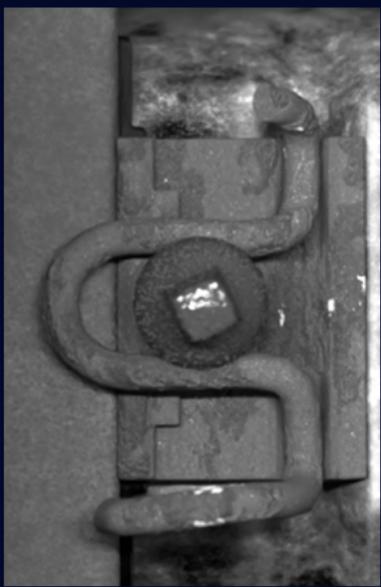✓ **Train AI to Detect any Defects like Fractured or Missing Components. No Real-world Data Needed**

We at ex-nihilo are the pioneers in synthetic data for visual inspection of railway infrastructure. We open up unique opportunities.

Learn how our algorithms achieve _perfect_ results »
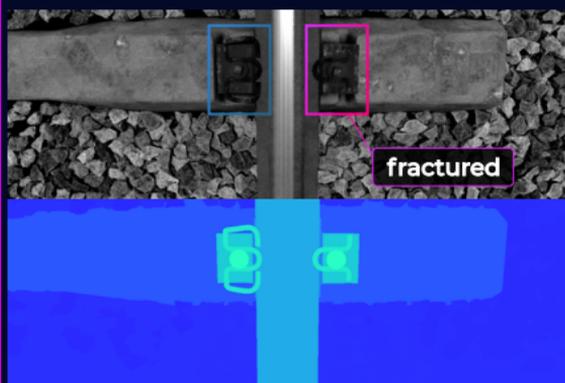
Synthetic Data, Real Results

The components you see are digitally rendered by ex-nihilo and instrumental in achieving flawless defect detection in the real world.

Our scenes can be altered in countless ways.

Generate, Train, Learn

Every annotation and every format you need, with all metadata you want.

Synthetic, but Proven by the Real World

We know our data works because models trained on data created by us achieved the highest F1 scores in detecting fractured tension clamps on a real-world image benchmark consisting of images from the Austrian rail network.

The project was conducted with a leading Austrian railway infrastructure provider.

Request your Demo Today!

✉ info@ex-nihilo.digital

🌐 www.ex-nihilo.ai

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