



DATA  
DRIVEN  
SOLUTIONS

NEXT LEVEL AI DEVELOPMENT

[TECHNICAL COMMUNICATIONS DAY - 26/3/2026](#)

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## CONTRACT ENGINEERING & MANUFACTURING



HIGH-TECH SYSTEMS &  
MATERIALS



LIFE SCIENCES &  
HEALTH



SMART  
INDUSTRY



WATER &  
MARITIME



AGRI &  
FOOD



ENERGY



DEFENSE &  
SECURITY



AI

## FULL SERVICE DESIGN HOUSE



ISO 13485, 9001, 45001



BASED IN THE NETHERLANDS



OFFICES THROUGHOUT THE WORLD



1200+ EMPLOYEES



FOUNDED 1993

# DATA CENTRIC AI

**ENGINEERING DATA**

**BETTER ALGORITHMS**

**SMARTER HARDWARE SOLUTIONS**

# WE UNDERSTAND THE IMPORTANCE OF DATA

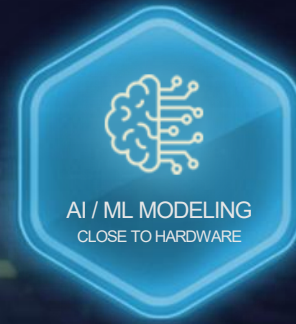
TO DEVELOP SMART ALGORITHMS  
THAT WORK





DATA  
DRIVEN  
SOLUTIONS

# ENGINEERING DATA & ALGORITHMS



DATA BEFORE THE SYSTEM IS OPERATIONAL



HIGHLY SPECIFIC DATA AT A SCALE AND VARIATION



RICH LABELING: ENABLE NEW ML STRATEGIES



FULL CONTROL OVER BIASES AND VARIATION



ADVANCED VISION SYSTEMS



DECISION SUPPORT FROM BUSINESS UNDERSTANDING TO DEPLOYMENT



OPTIMIZED CONTROL: ORCHESTRATION FOR PEAK PERFORMANCE AND EFFICIENCY



EDGE COMPUTING: AUTONOMOUS SYSTEMS FOR REAL-TIME DECISION MAKING

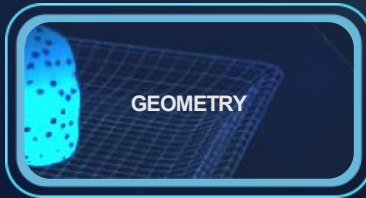


# SYNTHETIC DATA ENGINEERING DATA



DATA  
DRIVEN  
SOLUTIONS

PROCEDURAL CONTROL SYSTEM BASED ON DOMAIN KNOWLEDGE



GEOMETRY

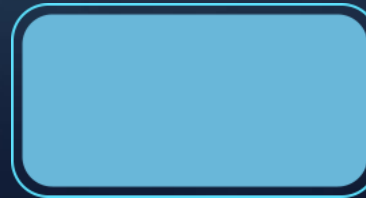
SYSTEMS TO GENERATE PERMUTATIONS  
OF OBJECTS AND 3D ENVIRONMENTS

DOMAIN KNOWLEDGE TRANSFER

FLEXIBLE

CUSTOMIZABLE

SCALABLE

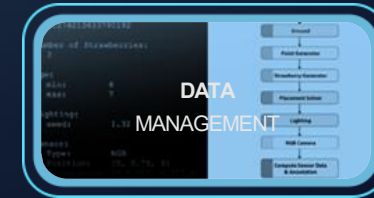


RGB, THERMAL, CT, LIDAR RADAR, SEM,  
WAVE OPTICS AND MUCH MORE

PHYSICS BASED SIMULATION

EMPLOY INDUSTRY STANDARD SOLVERS  
OR CUSTOM DEVELOPMENT WHERE  
NEEDED

IN HOUSE COMPUTE CLUSTER



DATA  
MANAGEMENT

PIPELINE TO PIPELINE:  
MATCH YOUR NEEDS AND FORMATS

HDF5 AS A BACKBONE

POST PROCESSING TOOLS FOR  
DATA AND ANNOTATION

PIXEL PERFECT, CONSISTENT  
AND FLEXIBLE ANNOTATION

# PROJECTS SHOWCASE



DATA  
DRIVEN  
SOLUTIONS



**SYNTHETIC DATA**  
SHOWCASE VIDEO



**ADVANCED SEED SORTING**  
HIGH TECH AGRIFOOD



**AUTONOMOUS PIPELINE INSPECTION**  
ROBOT – DATA - ALGORITHM



**SYNTHETIC PULMONARY NODULES**  
CUTTING EDGE MEDICAL AI



**PLASTIC WASTE SORTING**  
OPTIMIZING SIMPLE FOR HARDWARE



**AUTONOMOUS ROBOTICS**  
TEST & DEVELOPMENT PLATFORM



**BEAN SORTING**  
ANNOTATED PERMUTATIONS OF PRODUCE



**SEM**  
SCANNING ELECTRON MICROSCOPY



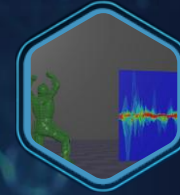
**MEDICAL PUMP CONTROL**  
MEDICAL AI



**APNEA CLASSIFICATION IN NEONATES**  
MEDICAL AI



**DEFENCE**  
SENSOR FUSION AT SCALE



**SYNTHETIC RADAR**  
MICRO-DOPPLER MOTION SIGNATURES



**BIN PICKING**  
RICH ANNOTATION



**PHOTONIC CHIPS**  
SYNTHETIC DEFECT GENERATION



**AUTONOMOUS AT SEA**  
UNMANNED AUTONOMOUS SURFACE VESSELS

