

DINO

Digital Infrastructure Notation Operator

Mission

Turn hidden infrastructure into reliable data for smarter planning and maintenance.



The Price of Blindspots



12%

OF THE TOTAL PROJECT COSTS FOR REWORK



4.600

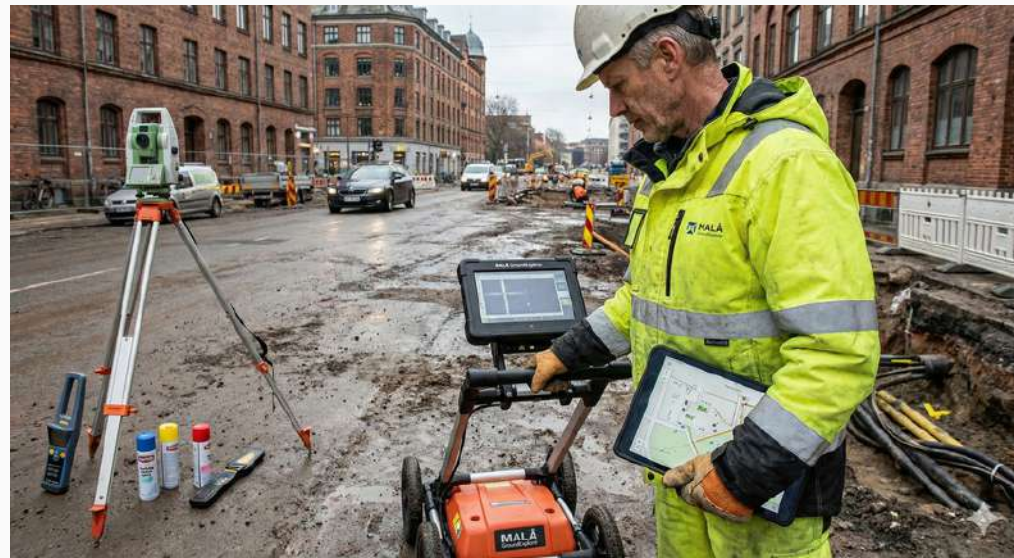
PIPES DAMAGED IN 2024



500 Million

COSTS FOR ECONOMY EVERY YEAR

GAPS



THE PROCESS GAP
(INEFFICIENCY)

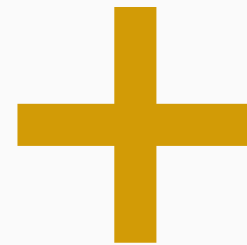


THE INFORMATION GAP
(REWORK)



THE SAFETY GAP
(LIABILITY)

Digital Infrastructure Notation Operator

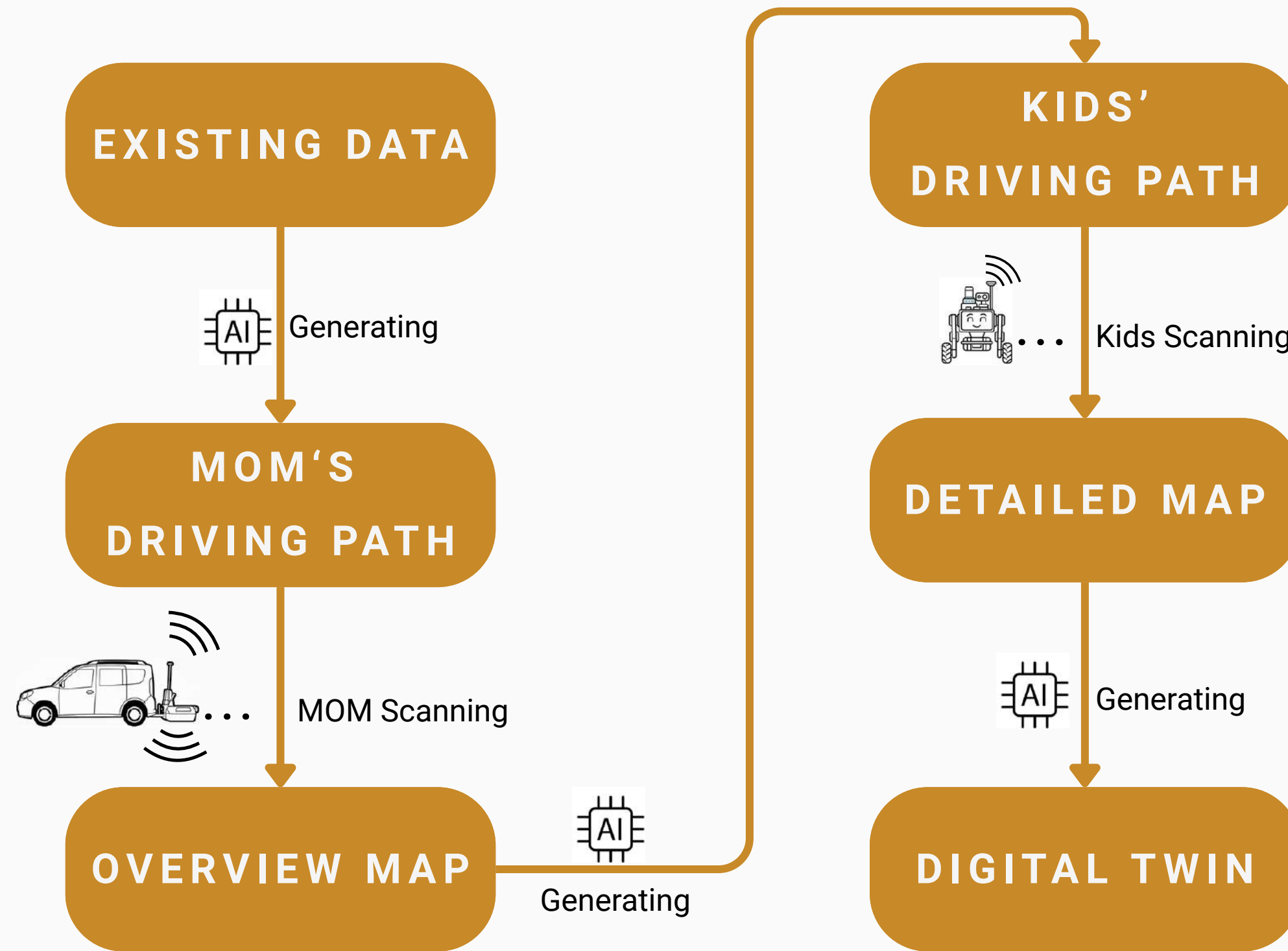


Solution Kit: MOM and KIDS

MOM	KIDS
Low-resolution, wide-area scan	High-resolution, localized scan
Offering backup battery to KIDS	Limited operating hours
Deliver and pick up KIDS	Enhanced mobility skills



Solution Kit: MOM and KIDS



Human-Robot Interactions and Data

ANONYMIZATION FOR
PUBLIC SAFETY



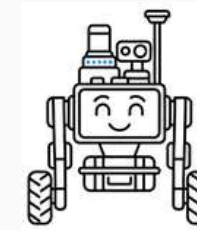
PROMOTE TRUST AND
ACCEPTANCE



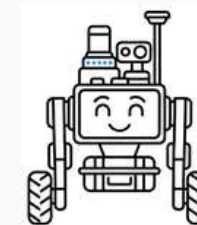
DATA SAFETY OF THE
DIGITAL TWIN



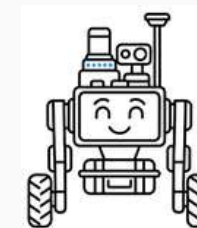
Competition & USP



Focus on Human-Robot interaction



First autonomous infrastructure scout



Made and hosted in EU

DINO Team



RUILIN DONG
HURLING HERO



AASTHA SINGH
HOGWARTS
STUDENT



BENEDIKT KÖHLER
HACKER



MARIUS HÄMMERLE
HUSTLER

BERLIN 2030



Legal & Privacy Requirements for Deployment

1. Data Privacy (GDPR / DSGVO)

Critical Challenge: Onboard cameras record personal data (faces, license plates), making GDPR compliance the primary hurdle.

Privacy by Design: Raw personal data should not be stored. Implement **real-time anonymization (blurring) directly on the device (Edge Computing)**.

Transparency: **The robot must display a clearly visible information sticker including:**

Owner identity and purpose of recording.

Contact details for the Data Protection Officer (e.g., via QR code).

Legal Basis: Since obtaining individual consent is impossible, operations must be justified by "legitimate interest" (Art. 6 GDPR).

2. Traffic Regulations (StVO)

Classification Ambiguity: The legal status of delivery robots (vehicle vs. mobility aid) is often undefined.

Speed Restrictions:

< 6 km/h (Walking Speed): Generally permitted on sidewalks.

> 6 km/h: Classified closer to road vehicles; requires lights, brakes, and potentially insurance/license plates.

Mandatory Permits: Testing or operation usually requires a special exemption permit (Ausnahmegenehmigung) from local transport authorities.