

Onderzoek Ontwikkeling TNO Groningen

TNO innovation
for life

- Input versterking Samenwerking Noord
- Lydia Meijer | TNO Groningen

Lydia.Meijer@tno.nl

0653720517

2023: Embryonic – IC fab

2018: Leibniz Instituut

TNO in
for

2023

2008



← Ervaring +

- TNO Senior Computer Scientist**
TNO
jul. 2003 - heden · 20 jr 1 mnd
Groningen, Nederland
Smart infrastructures, founder of www.ijkdijk.nl, coordinator of EU FP7 consortium UrbanFlood ("excellent project"). Digital transformation of the Rotterdam / The Hague region, association of TNO with the Leibniz Institute for ICT & Law of the University of Amsterdam, programmable networks and adaptive cybersecurity, Principal Investigator of DL4LD a NWO programme on ICT and logistics, law cybersecurity and intelligent transport systems
- Professor**
Universiteit van Amsterdam
jan. 2002 - jun. 2018 · 16 jr 6 mnd
Amsterdam Science Park
Part-time (one day per week) professor applied sensornetworks, software defined networks, including new internet and cyber security concepts, distributed systems, environmental monitoring systems, artificial intelligence, data analysis, systems identification, ICT and law, normative systems, business information systems, digital transformation
- Coordinator EU-FP7 consortium UrbanFlood**
EU 7th Framework Programme
dec. 2009 - dec. 2012 · 3 jr 1 mnd
Initiator and coordinator of the www.urbanflood.eu consortium. R&D with international consortium of academic institutions and companies on the subject of dike-strength assessment and flood-risk mitigation, involving sensor networks, data-analysis, artificial intelligence, adaptive ICT infrastructures. Dissemination. The results were rated "excellent" by EU.
- Freelance Columnist**
FD Mediagroep
sep. 2008 - dec. 2012 · 4 jr 4 mnd
Amsterdam en omgeving, Nederland
Occasional publicist of articles and columns in FD Outlook, a magazine of the Financieel Dagblad, a Dutch financial newspaper.
- Senior R&D Strategist**
KPN Research
jul. 1991 - dec. 2003 · 12 jr 6 mnd
Groningen, Nederland
Introduction of cable internet, cable telephony, multimedia streaming services at KPN Research. Initiation KPN-Microsoft collaboration, Initiation and development of "Het Net" a 2 million subscriber ISP and Imode a mobile ISP. ICT to stimulate regional economic growth, ICT for smart infrastructures, legacy ICT
- Postdoc researcher**
GSI Helmholtz Centre for Heavy Ion Research
aug. 1987 - jun. 1991 · 3 jr 11 mnd
Darmstadt, Germany
Drift chamber particle detector development, data acquisition software, data analysis, electronic and software development, compiler construction
- Phd-student**
Universiteit Utrecht
sep. 1983 - jun. 1988 · 4 jr 10 mnd
Utrecht
PhD experimental nuclear physics. Nuclear theory, hardware development, software development, particle detector development, data acquisition system development. data analysis

TNO Groningen



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EMPLOYEES

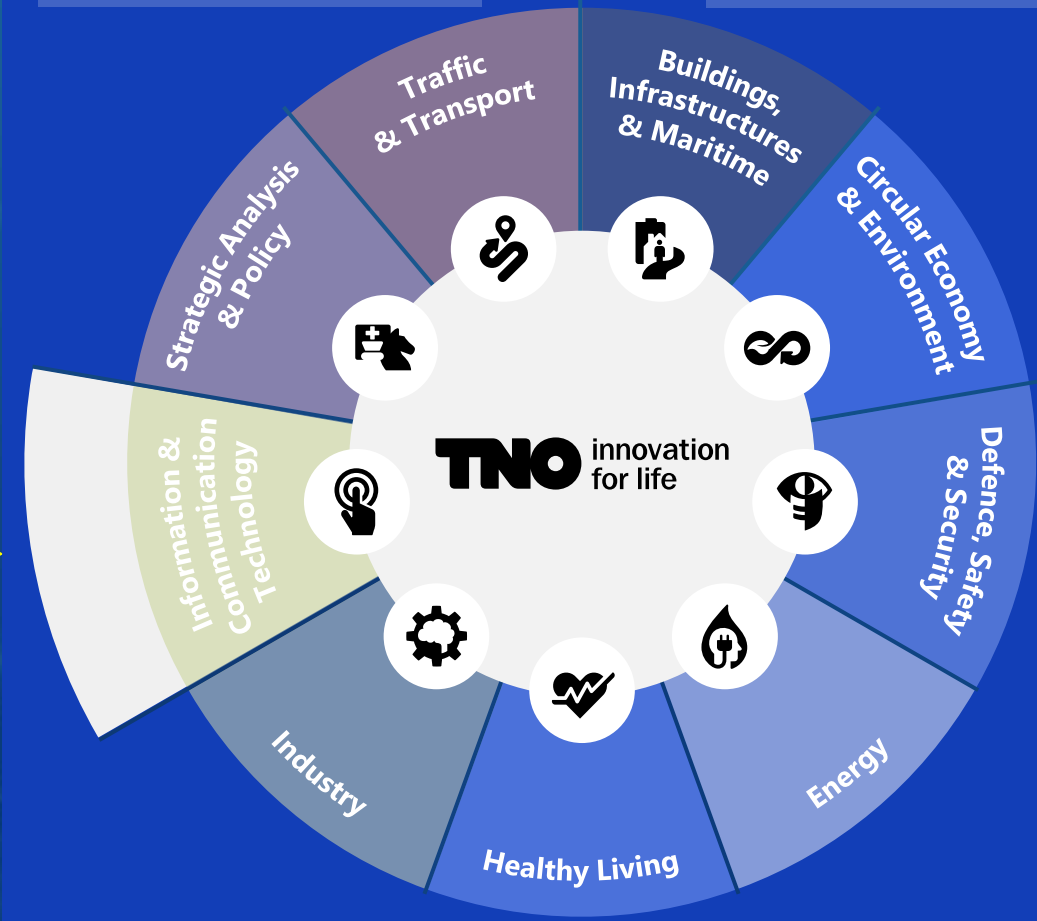
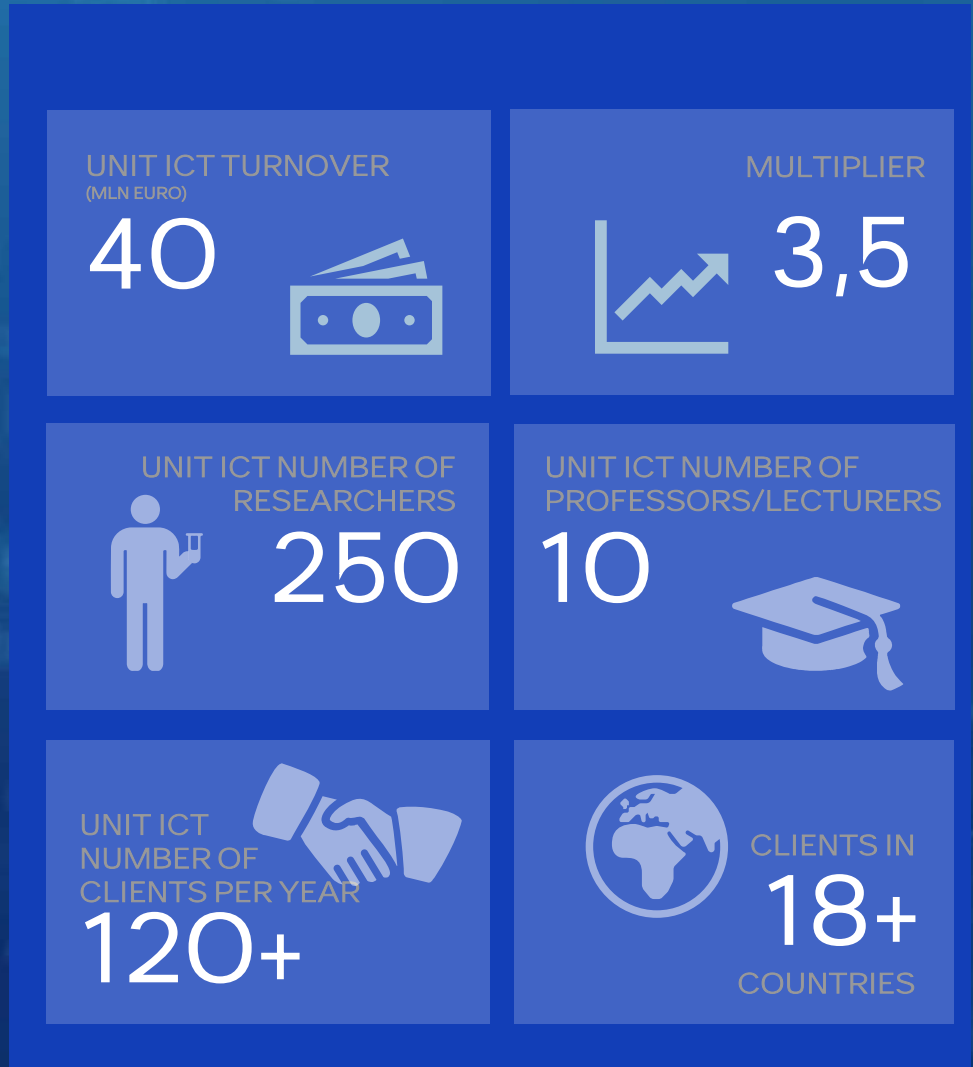


90

- Employer of (local) talent
- Applied Computer Science
- Developer Contributor/Leader (Inter)national projects
- “Embassy of TNO”
- Active in regional innovation system
- Orchestrating innovation



Representing



TNO aanwezigheid op de Zernike campus

BuildingG

HESI - Hybride Energie Systeem Integratie



ICCS (5Groningen)





Examples of TNO ICT projects and subjects with strong roots in TNO-Groningen

GAIA-X & The Dutch Cloud Infrastructure Coalition:

Creating a level playing field in the globalized cloud services market



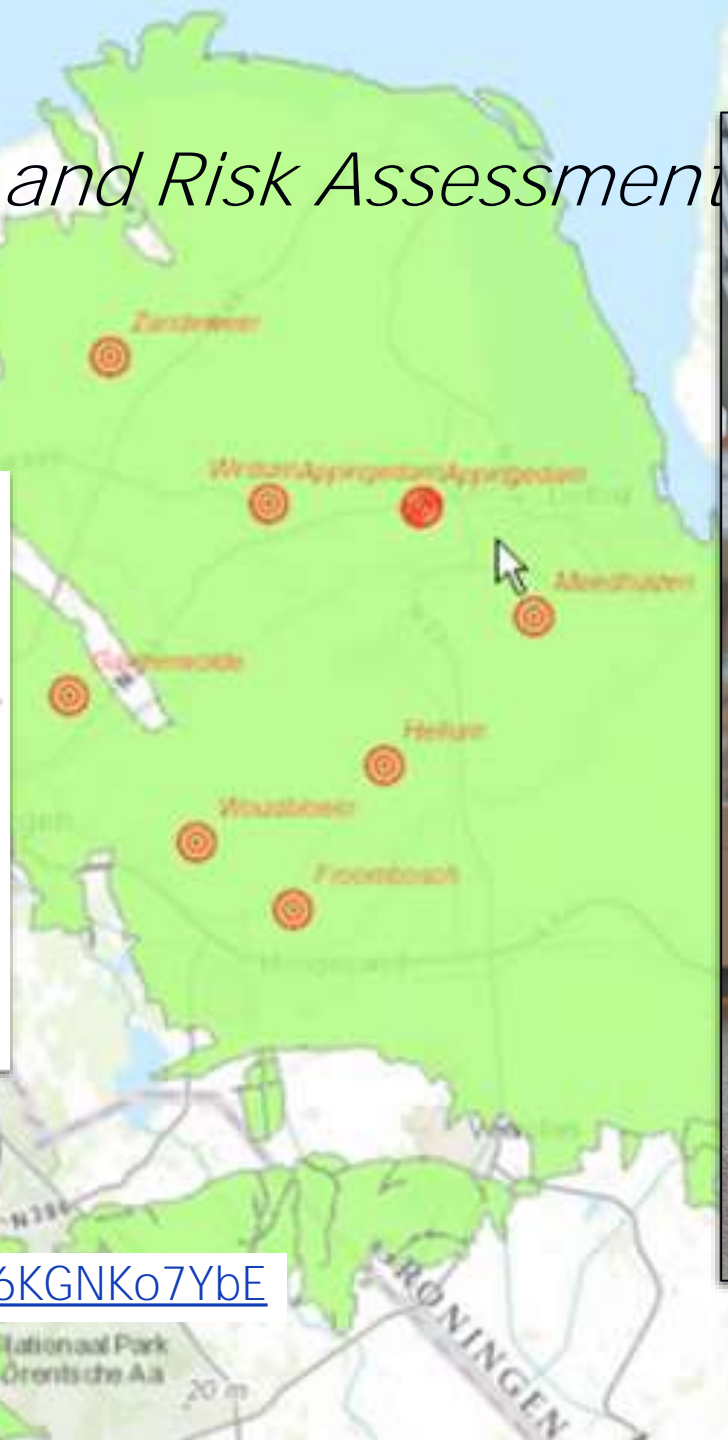
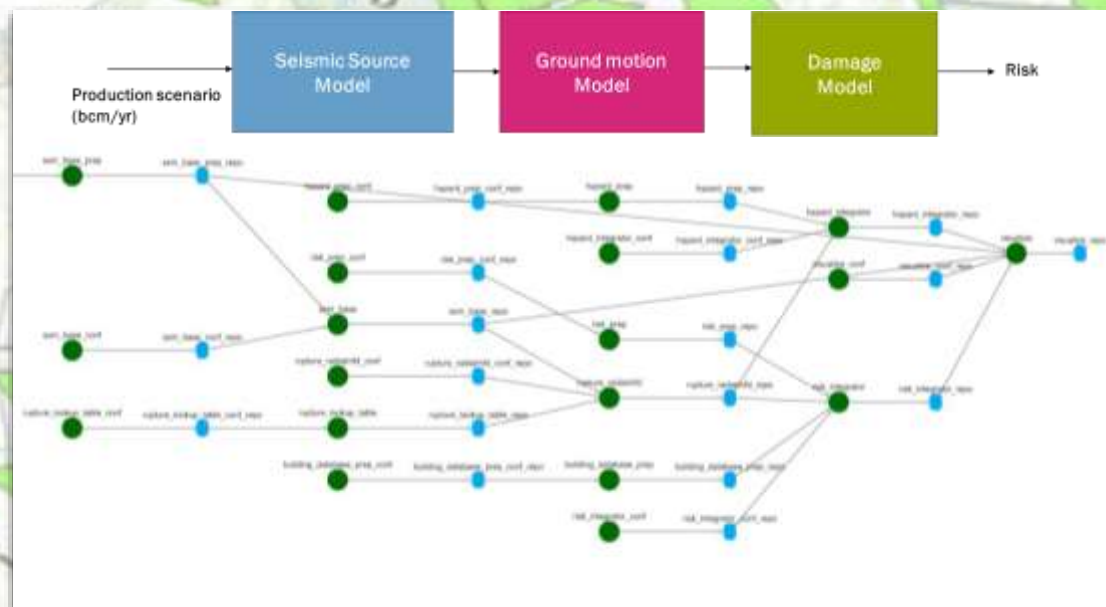
AN EARLY-STAGE MOCKUP OF THE EUROPEAN CLOUD MANAGER GAIA-X DEMONSTRATION



YouTube <https://www.youtube.com/watch?v=12D0vNa9EfE>

Image sources <https://www.1limburg.nl/eenvoudige-maastrichtenaan-maken-kans-op-stratnaam>

Model chain Groningen: *Traceable and scalable Hazard and Risk Assessment for the gas field Groningen*



YouTube [tps://www.youtube.com/watch?v=D6KGNKo7YbE](https://www.youtube.com/watch?v=D6KGNKo7YbE)



ICT Impact Award
2020

Digital Twin



Flexible vehicle architecture for Dutch MoD NCVID



DRONE ACTIVE 

SENDING COORDINATES



YouTube <https://www.youtube.com/watch?v=VH7EKxSTI5I>





› **HUMAN-AI ECOSYSTEMS**

Efficiency, scalability, resilience and trust.

WICO MULDER

DATA SPACES

1. Connectivity
2. Interoperability
3. Safety
4. Sovereignty



 <https://www.youtube.com/watch?v=CnFeZVNSi7Y>



TALKING BUILDINGS

A PLEASING PARTNERSHIP BETWEEN PEOPLE AND BUILDINGS

CONNECTED FACTORIES

