

# ITEA Call 2026 Information and Pitch session MIND (Material Intelligence for New Devices) pitch

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ITEA 4

ITEA is the Eureka Cluster on software innovation



# Which problem do you want to solve?

## EU industry is data-rich but insight-poor

Chips, batteries and advanced materials are Europe's strategic frontier.

But the data that reveals what is inside them stays siloed across instruments and scales slow, manual, and never assembled into the full picture.

## A Material Intelligence platform

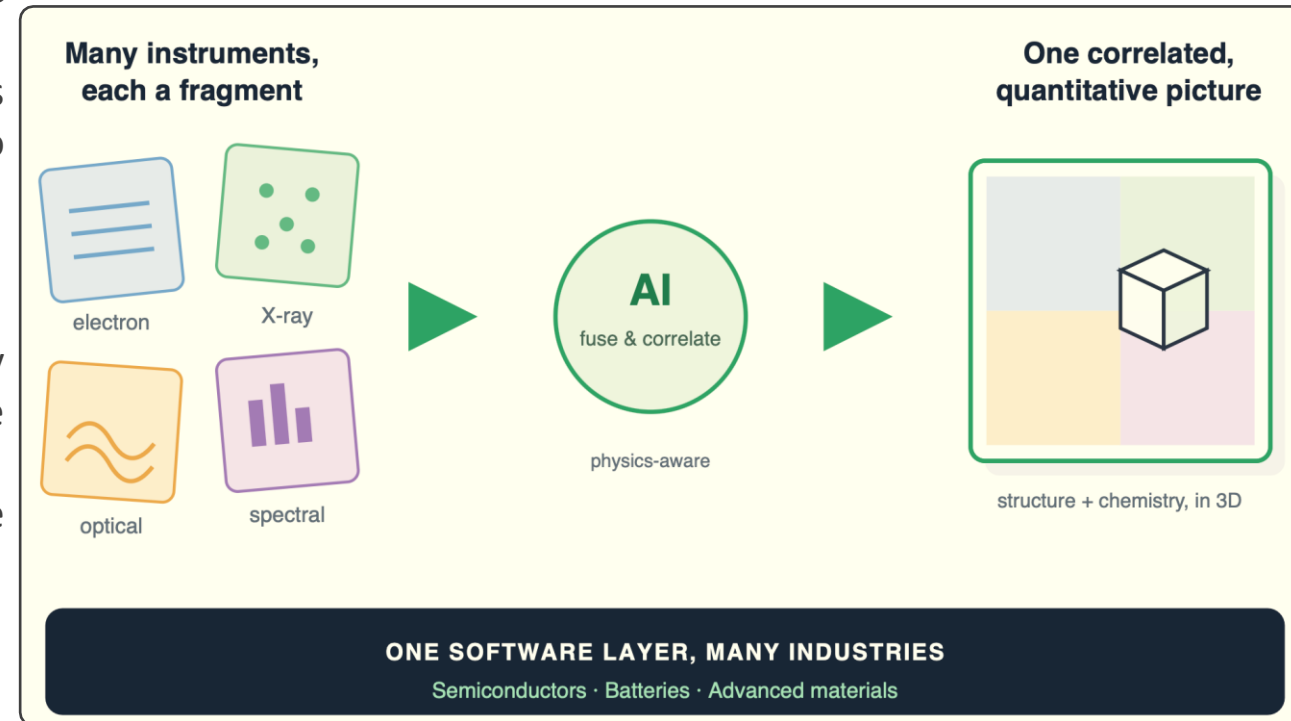
One open, AI-native platform that fuses data from any instrument, at any scale, into a quantitative digital twin of the material or device.

Physics-aware AI turns raw measurement into actionable intelligence, automatically, with full data sovereignty.

## What Raynetics brings

Physics-informed AI and scientific software that turn complex, multi-instrument data into reliable answers.

We provide the core engine and lead the software development.



# What are you looking for?

## ■ **Missing partners / expertise**

- Industrial use-case owners with real data and a business problem to solve (semiconductors, batteries, advanced materials)
- Data & instrument partners (electron, X-ray, optical; microscopy, spectroscopy, in-situ) supplying the multimodal data streams
- Software, cloud & data-infrastructure partners: scalable deployment, data management, interoperability and standards
- AI, digital-twin & data-platform builders

## ■ **Partners already involved**

- Raynetics (NL) – AI & software lead
- CWI (NL) – computational imaging research (knowledge partner)

# Raynetics Technologies B.V.



## Company data

- Creation date: December 2024
- Number of employees: 4
- Country: Netherlands

## Expertise / main products

- **Computational imaging & physics-informed AI**  
Reconstruct structure and chemistry from sparse, noisy, multidimensional imaging or sensor data (3D, multi-element, low-dose) across modalities.
- **Scientific software & deployment**  
Production-grade data pipelines, visualization toolboxes and cloud or on-premise deployment built for large multidimensional datasets and industrial use.
- **Materials & failure-analysis insight**  
Turning that data into answers: materials characterization, chemical imaging, metrology, defect detection and root-cause analysis.

## Looking for

Partners and consortia in any imaging- or data-intensive field (semiconductors, materials, energy, health, manufacturing) that need raw measurement data turned into deployable, decision-ready insight.

# Contact details

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