

**Xecs
Matchmaking
Event**

POLLEN Metrology

Smart Manufacturing Software of High Performance Materials

Richard FONTANGES

+ Program Manager & Business Development

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Pollen at a glance

- Deeptech in Moirans (near Grenoble, France), from 2014
- 25 teammates
 - 16 software/data scientist experts in R&I
- Sales : 1.3M€ (update 2023)

- Competences and products:

Technologies

- Multi-scale metrology and defectivity
- AI expertise (deep learning)
- Image processing

Target applications

- Metrology automation
- Defectivity
- Process optimization

- Contact details: Richard FONTANGES

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R&I expenses as 60% of total expenses

Markets

- Semiconductor and Electronic Display (90%)
- Chemistry.
- other in progress (automotive, batteries, medical)

Products portfolio

- SmartMET3 metrology
- SmartDEF3 defectivity
- SmartEMB3 embedded custom solutions

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Pollen's Activities

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- Previous experience with collaborative projects:

Partner in:

- European Project: EMPIR (17NRM04 nPSize)

Coordinator of:

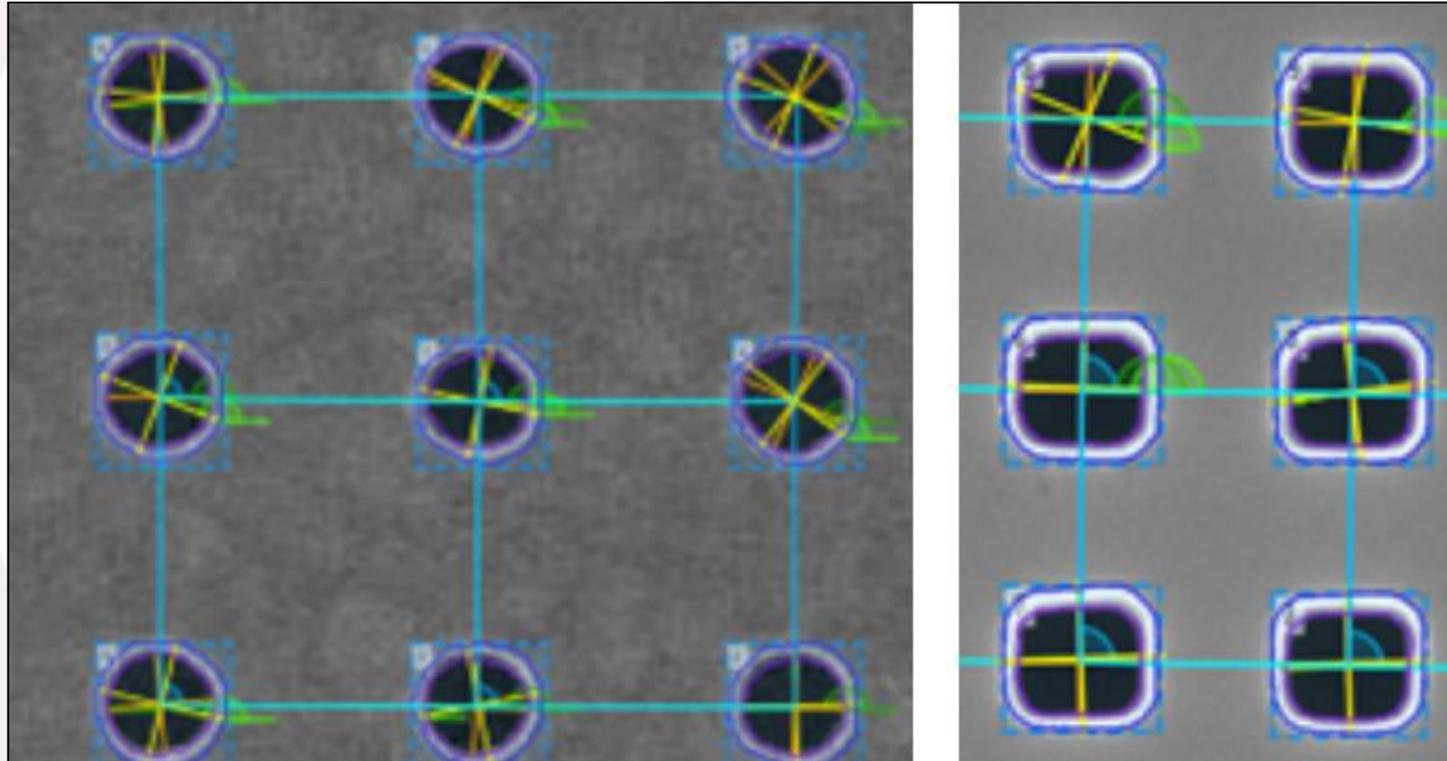
- France-Relance: 6 projects, with UCA and uB
(Université Clermont-Auvergne, Université de Bourgogne)
- Easytech-Minalogic: DeepSmart, with UCA
- PSPC: Process enhancement, with industrial partner and UCA

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Collaboration Expectations

<p>Collaborative project of interest to you</p>	<p><i>Eureka Clusters</i> <i>for finding European partner(s)</i> <i>Eurostars</i> <i>to meet market needs</i></p>
<p>Scope</p>	<p><i>Developping AI models for following issues:</i></p> <ul style="list-style-type: none"> • <i>Metrology</i> <i>(AI for Image processing)</i> • <i>Defectivity</i> <i>(AI for Image processing)</i> • <i>Process optimization</i> <i>(AI for data management)</i> <p><i>Ux and GUI to non AI experts</i> <i>(User experiences)</i></p> <p><i>Proposing new software tools to these issues</i> <i>(Measurement tools, Annotation, Data preparation)</i></p>

TOP-DOWN OBJECT SEGMENTATION TOOL



New algorithm available using Deep Learning to segment top-down object and extract measurements

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- ✓ Roughness
- ✓ Axis angles
- ✓ Pitches
- ✓ Areas

