

Centre For Advanced Photonics and Process Analysis: CAPPA

WWW.CAPPA.IE

Applied and industrially led collaboration using photonics and optics technologies across multiple sectors

Food, Pharma, Biopharma, Medical, Agri and Diary....

<https://www.cappa.ie/industry/>

- Process monitoring, product development, sensing and detection, optical design and characterisation
- 7 licences agreed with companies over last 5 years, 5 patent applications filed
- €1.2M in direct industry income over last 4 years, €12M in total project value
- Co-Ordinator in Horizon Europe, SFI research centres, EI Innovation partnership
- liam.lewis@mtu.ie Centre Manager www.cappa.ie

Imaging & Microscopy

Element/ingredient mapping ◦
Medical imaging ◦
Defect analysis ◦



Spectroscopy

Contaminant identification ◦
Cancer screening ◦
Chemometrics ◦



Sensing & Detection

Environmental monitoring ◦
Water & soil analysis ◦
Autonomous cars ◦



Process Monitoring

In-line/on-line sensing ◦
Machine vision ◦
Process analysis & control ◦



Nanophotonics

Photonic crystals ◦
Hybrid lasers ◦
Photonic Integrated Circuits ◦

