# Advanced NanoSensor Tech Focused on Agri-Foods

On-Field/In-line Reagentless Monitoring Solutions



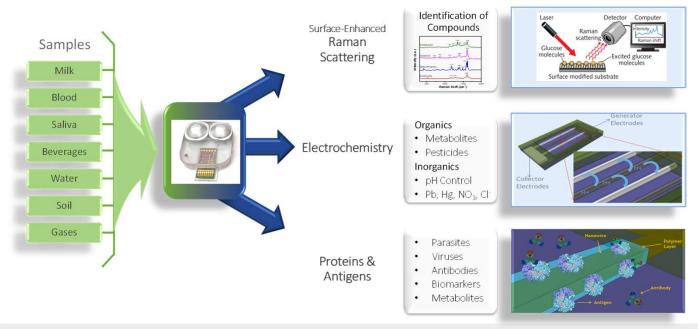
Dr Alan O'Riordan Head of Group alan.oriordan@tyndall.ie



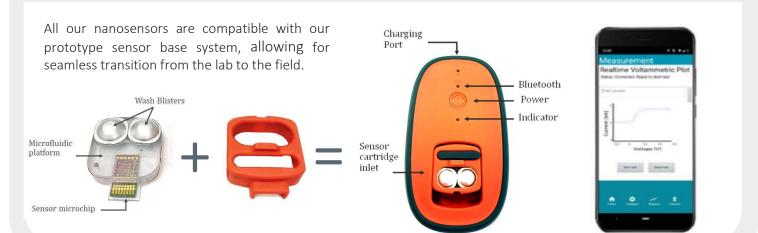
## Expertise

## **Novel Sensors for On-Field / In-Line Monitoring**

The Advanced Nanosensors Groups specialises in the development and assessment of novel sensors based on three general platforms.

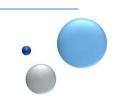


## Core Platform



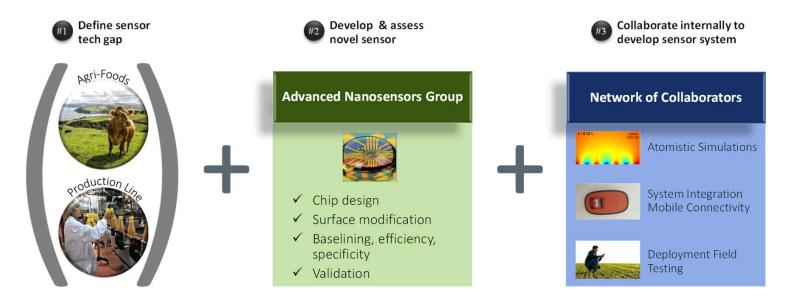
#### **Contact:**

For more information on collaborative research involving this research group please contact: **Dr Gerry Mouzakitis, Programme Manager Agri-Foods gerry.mouzakitis@tyndall.ie** +353 86 820 6464



## Advanced Nanosensors Group

#### Typical Sensor Development Strategy



We work with our industrial and academic partners to define their monitoring requirements, produce a detailed statement of work, timeline and budget.

Ireland government support schemes are available for companies with a base/subsidiary in Ireland.

Due to the breadth of work at Tyndall National Institute, we collaborate with a wide range of other research groups to integrate our nanosensors and provide additional functionality and validation.

## Advantages





Compatibility	On-Farm Diagnostics	PAT & QbD
Staff Requirement	Farm Manager	Line Manager, QC
Connectivity	Mobile Phone	QC
Data Tagging	GPS, NFC	NFC
Detection Targets	Inorganics, Organics, Biomarkers	CQAs

# **About Us**

Nanosensor-based monitoring solutions in Agriculture, Food and the Environment.

- > 20 Researchers
- Diverse expertise:
  - Nanotechnology
  - Electrical Engineering
  - Chemistry/Physics
  - 3D Rapid prototyping
- > Dedicated project manager

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