

Environmental Measurement Special Interest Group (EMSIG)

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Sensors & Instrumentation KTN

The Sensors & Instrumentation KTN

- **Funded by:**
 - Technology Strategy Board
- **Sponsored by:**
 - Natural Environment Research Council
 - Science & Technology Facilities Council
 - Biotechnology & Biological Sciences Research Council
- **Managed by:**
 - NPL and Qi3

The Sensors & Instrumentation KTN

- Network covering the UK's sensing & instrumentation community - academics, large industries, small businesses, research councils, and government departments
- Embraces sensing from measurement principles, novel sensor technologies, instrumentation, deployment, and data analysis
- Mission: To improve UK's sensing innovation by transferring knowledge to businesses and enabling them to access the best science and technology
- Merging with four other KTNs to create the Electronics, Sensing and Photonics (ESP) KTN in July 2010

A network of networks



Special Interest Groups

Sensing Theme

- **Wireless Sensors**
- Biosensors
- Micro & Nanosensing
- Imaging

Advanced Instrumentation Theme

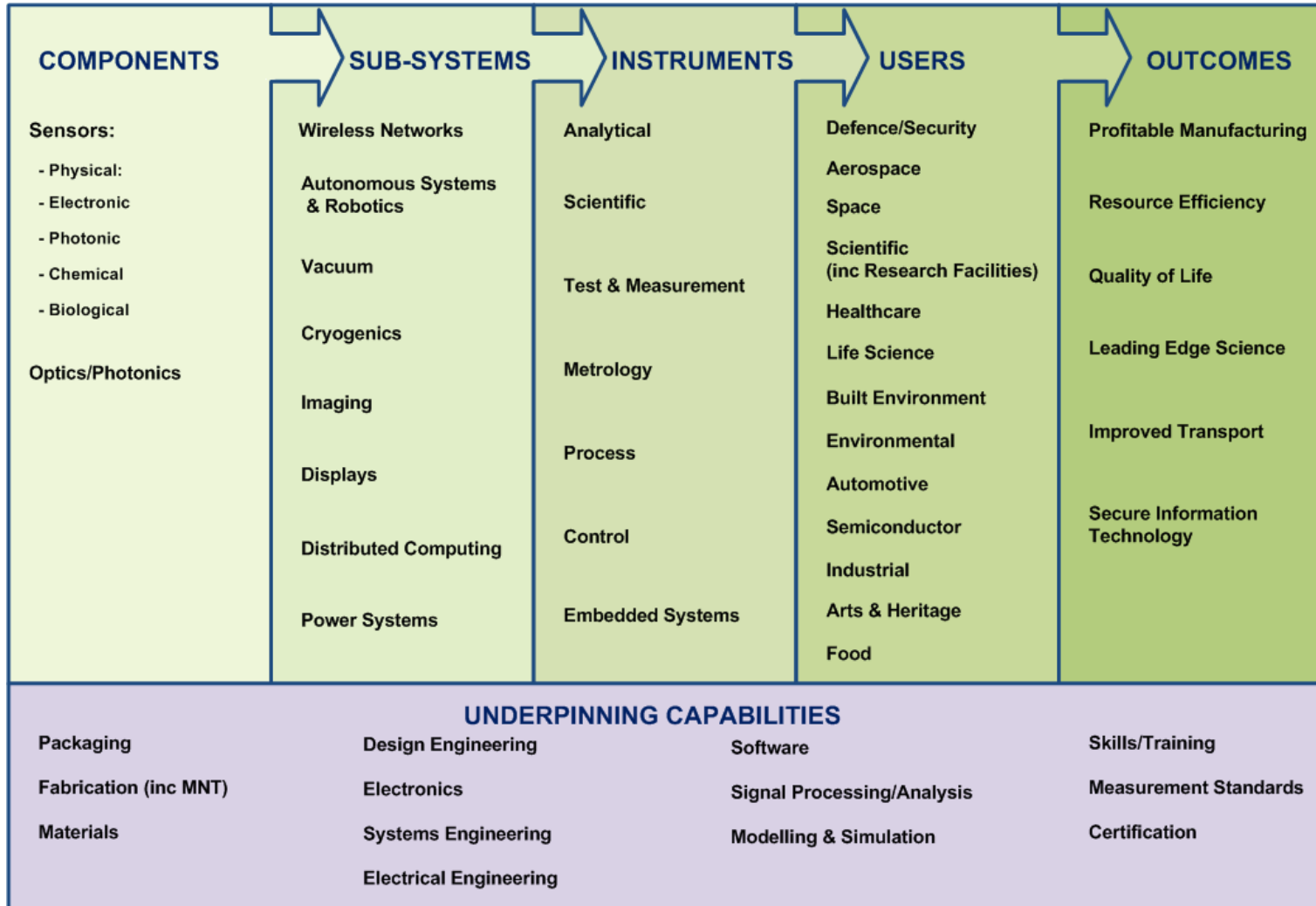
- Life Sciences
- Research Instrumentation
- Space Instrumentation & Payloads
- Instrumentation in Hostile Environments
- **Environmental Monitoring**
- Security Instrumentation



SIKTN facts and figures

- 2200 Member Organisations
 - With >1200 active in the past year
 - 14 Affiliate Networks
- 42 Events in the past year
 - >1300 attendees at our events
 - Plus exhibition, speaking, support for another 50
- Innovation Finance
 - 60 bids submitted
 - 35 bids approved
 - £30m of innovation finance secured (£60m in past 3 years)
- Secondments & studentships
- Inputs to government strategy

Sensing & Instrumentation Supply Chain



About EMSIG

The Environmental Measurement special interest group (EMSIG) is comprised of academics funded mainly by NERC, users including governmental organisations (DECC, Defra, Ofgem, Environment Agency), industrial associations (Renewable Energy Association, UKWIR), businesses and industrial suppliers interested in environmental measurement sensing and instrumentation technologies.

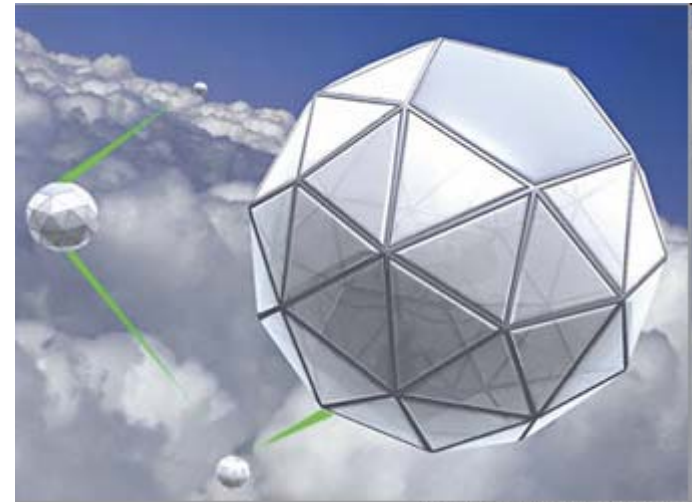


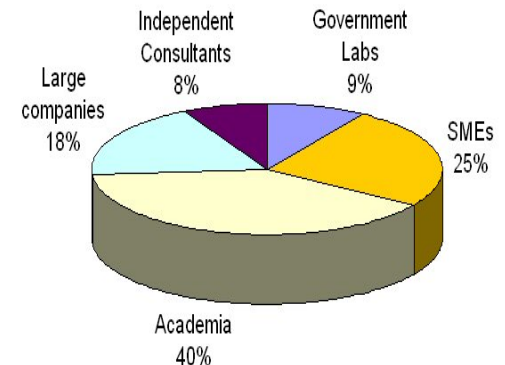
PHOTO-ILLUSTRATION: ENSCO

EMSIG: Objectives

- **Increasing industrial engagement** with the environmental instrumentation and services markets
- **Disseminating information** on technologies and business opportunities to the environmental measurement community
- **Supporting Knowledge Exchange** between UK industrial and academic communities through networking and collaborative projects
- **Developing close ties with NERC** and promote its strategic objectives to the EMSIG community
- **Stimulating discussion and consideration of industrial issues** in instrumentation for water catchments and air monitoring through networking of public and private sector stakeholder groups
- **Support research facilities, institutes and infrastructures in engaging with UK organisations** through dissemination of information and best practice

About WiSIG

- WiSIG was established in March 2006 with the aim of promoting links and collaboration between individuals active in wireless communications and/or sensor technologies.
- WiSIG mainly focuses on technologies that enable radio frequency transmission of data to and from sensors/actuators. WiSIG explores opportunities, applications and successful deployment of wireless technologies and subsequently inform and advise the industry on its uses and benefits.
- The group has 280 registered members and is managed by Costis Kompis and a 9-strong steering committee.
- Website: www.wisig.org



Wireless Sensing Evolution

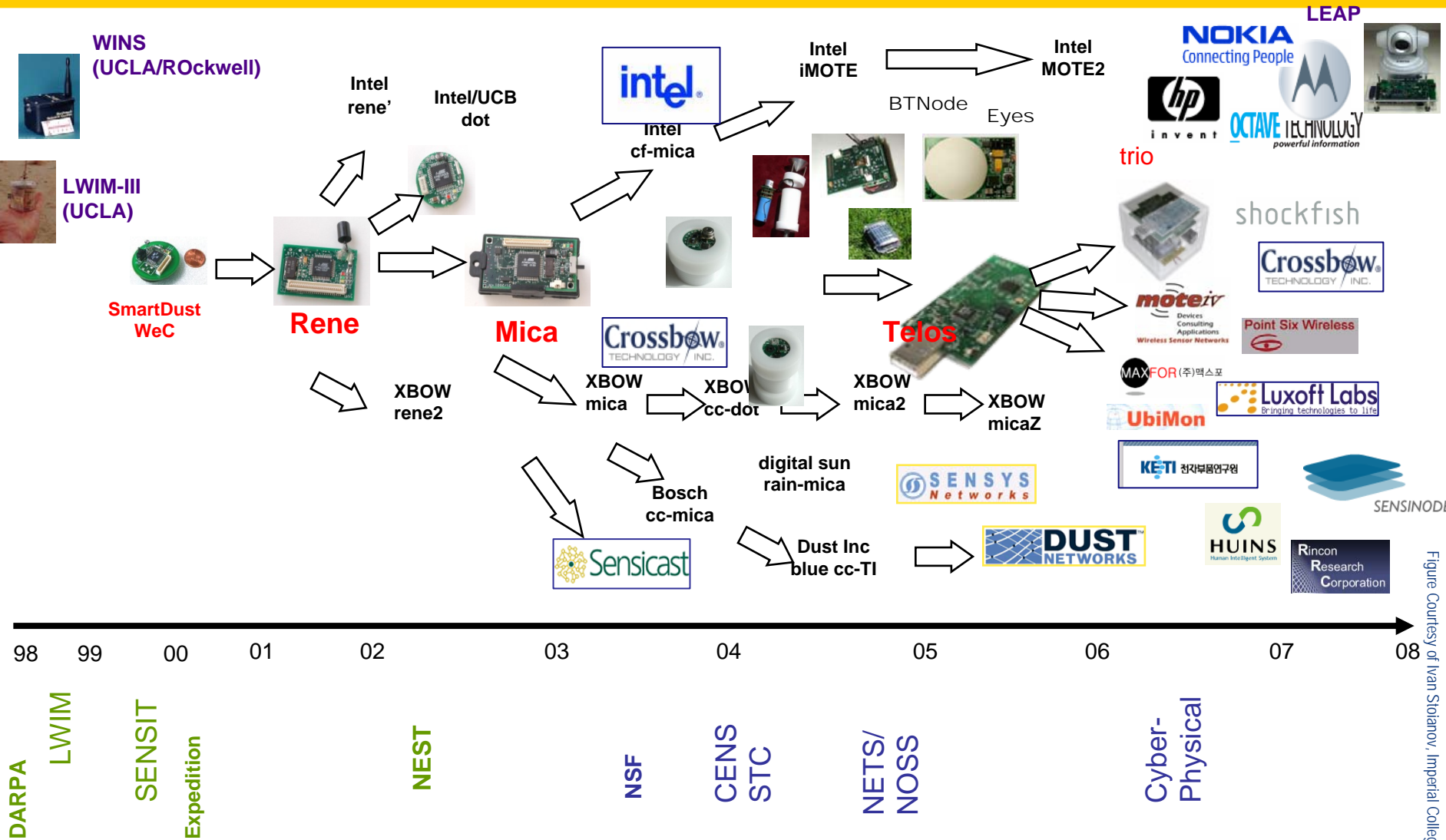


Figure Courtesy of Ivan Stokanov, Imperial College

EMSIG: Support

- Assistance in finding supply chain partners for collaborations
- Guidance on forming collaborative partnerships
- Tailored advice on evaluating funding opportunities
- Support in preparing funding applications
- Contacts across many networks, public and private

Contact Information

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