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GREAT
BRITAIN & NORTHERN IRELAND

WHY COLLABORATION WORKED FOR US: HEALTHCARE & HVM

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Sue Dunkerton

Chair Director, Knowledge Transfer Network

Knowledge Transfer Network

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UK HEALTH MARKET

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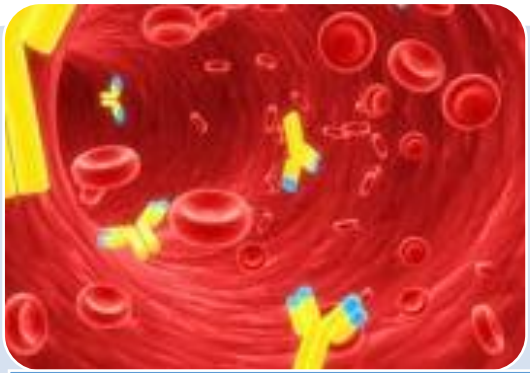

Medical Biotechnology

- 26,941 employees
- £4.2bn turnover
- 1073 companies
- Biopharmaceutical pipeline valued at £24 billion

Medical Technology

- 76,723 employees
- £17.6bn turnover
- 3,309 companies
- 25% conduct R&D

Pharmaceutical

- 70,310 employees
- £29.3bn turnover
- 477 companies
- 60% conduct R&D

MATERIALS AND MANUFACTURING

Knowledge Transfer Network

- ‘Conventional’ materials – polymers, metals, biomaterials
- Novel materials – nano, bioactives, bioinfectives, smart, powders
- Manufacturing – injection and precision moulding, machining, coatings
- High value manufacturing – nano/micro manufacturing, 3D printing, novel coatings
- Scale up

KTN HVM ROADMAP

- Pharma
- Biopharma
- MedTech

Knowledge Transfer Network

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ADVANCED MANUFACTURING SUPPLY CHAIN INITIATIVE

Knowledge Transfer Network

- £100M funding from BIS and the process is managed by Finance Birmingham
  - Final application round closes 31st December 2014

- The aim of the initiative is to increase the growth of the manufacturing sector by addressing the market failures which act as barriers to the efficiency and expansion of UK supply chains

- Seeks to fund innovative projects which are aiming to make an impact at a sectoral (and ideally cross sectoral) level to create world class excellence in supply chains.

- Funding is flexible in the form of the grant, loan or combination of both.

LIFE SCIENCE SUCCESSES

Knowledge Transfer Network

- Oxford Biomedica – Centre of Excellence in Gene Therapy Manufacture
  - £7.7M (grant and loan)
  - Cell Therapy Catapult, Biotec Services International, Heart of England NHS Foundation and Cranfield University

- GSK – REMEDIES
  - £23M (grant and loan)
  - Reconfiguring Medicines End to End Supply
  - 22 member consortium

- Centre for Process Innovation – BioMOD
  - £3.7M (grant)
  - Modular bioprocessing platform - industrial biotechnology
  - SME led, includes Ensus, Bioprocess Engineering Services, National Renewable Energy Centre, Leeds University

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Dale Athey

Chief Executive Officer,
OJ-Bio Ltd

OJbio
MOBILE DIAGNOSTICS

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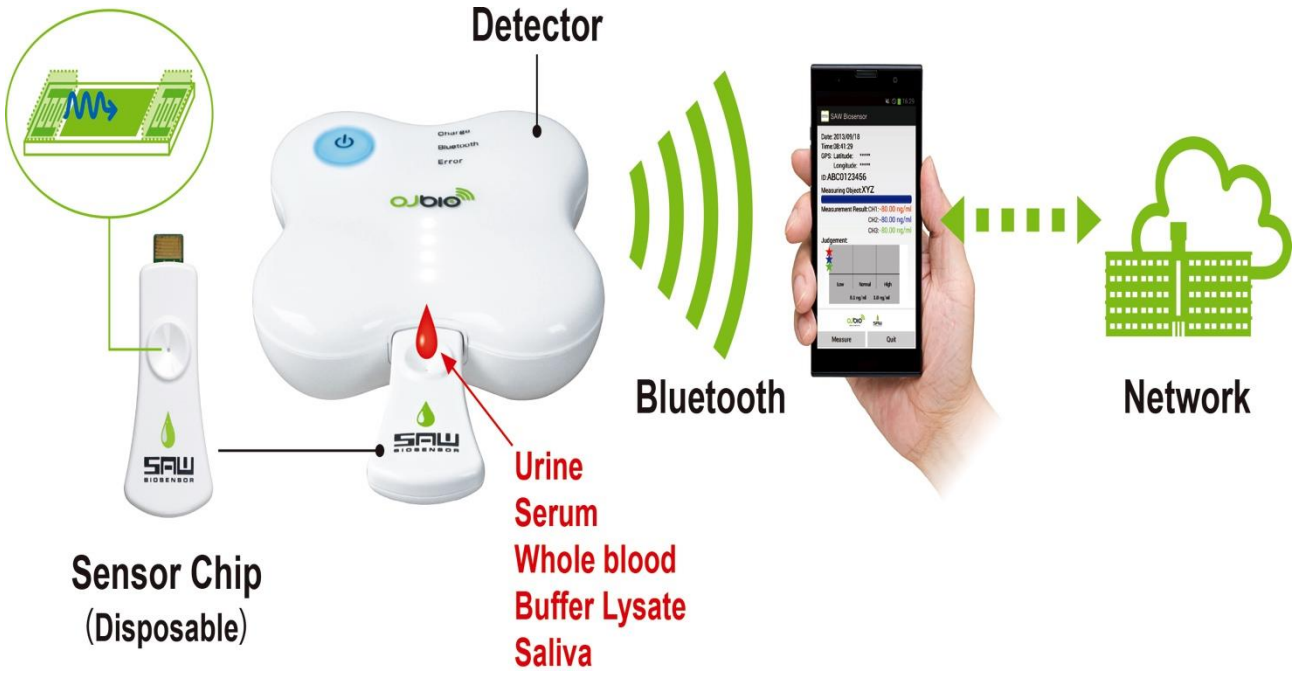
OPPORTUNITY

OJ-BIO PLATFORM



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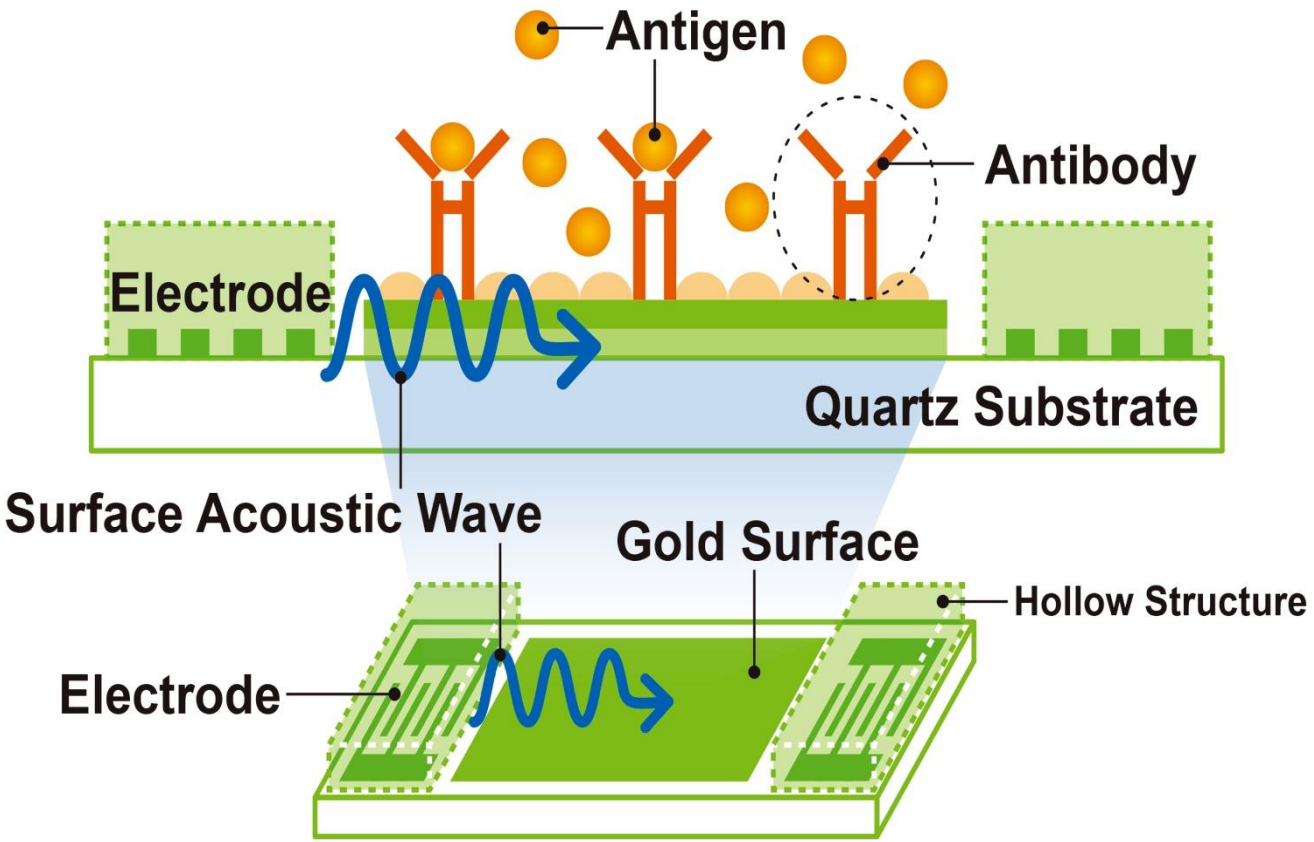
BIO – ELECTRONIC CONVERGENCE



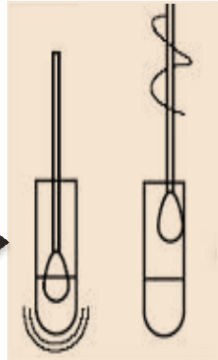
UK-JAPAN JOINT VENTURE COMPANY

JRC Japan Radio Co., Ltd.

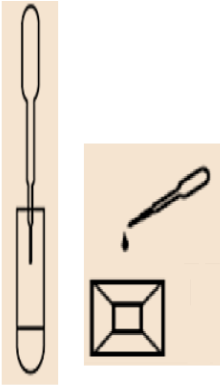
Orla PROTEIN TECHNOLOGIES

BIOMEDICAL CATALYST FUNDING

Nasal Swab

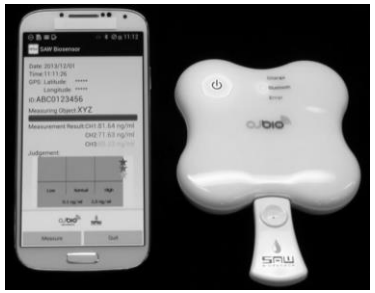


Swab into Sol. 1 and turn for 30 secs & remove



drop from Sol. 1 bottle onto chip using dropper

5 mins to result



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PRODUCT DEVELOPMENT

FUTURE DEVELOPMENTS

ojbio
MOBILE DIAGNOSTICS

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