



UNIVERSITY OF
LEICESTER



**University Hospitals
of Leicester**
NHS Trust

Codex4SMEs Introduction

Dr Carl Edwards

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European Union | European Regional Development Fund

Leicester Precision Medicine Institute



Research
excellence

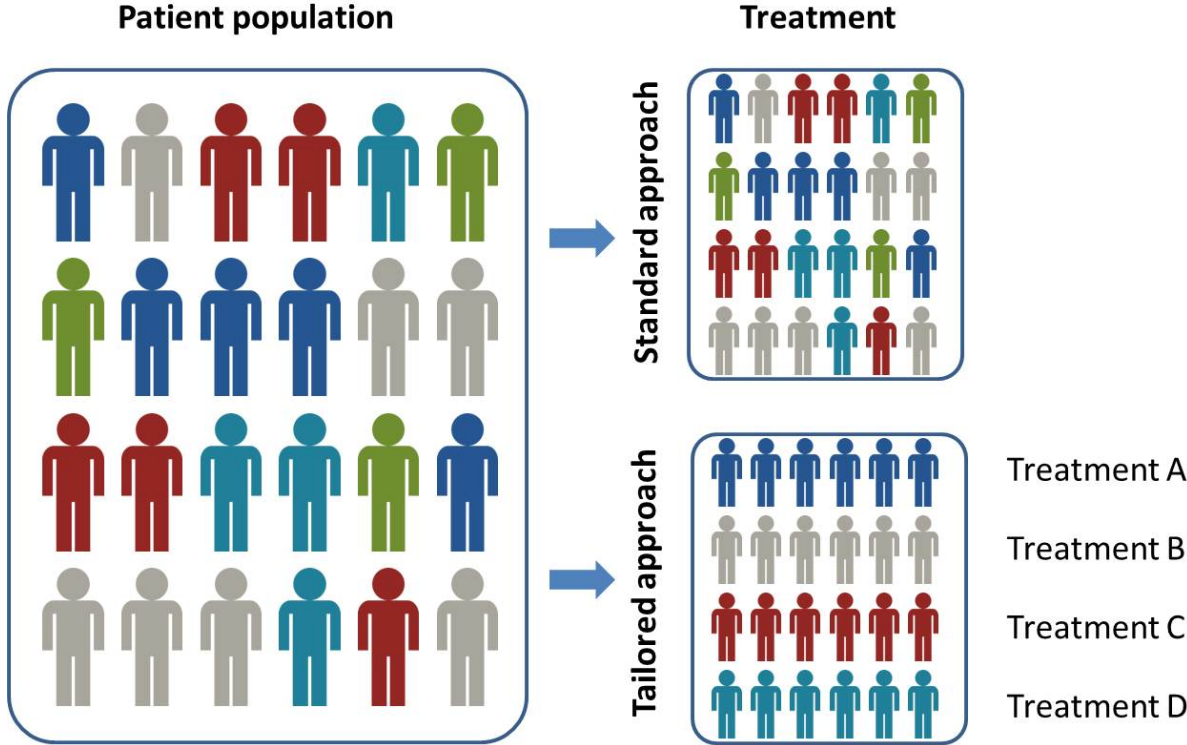
Hospital
Trust

Industry
collaboration

Population

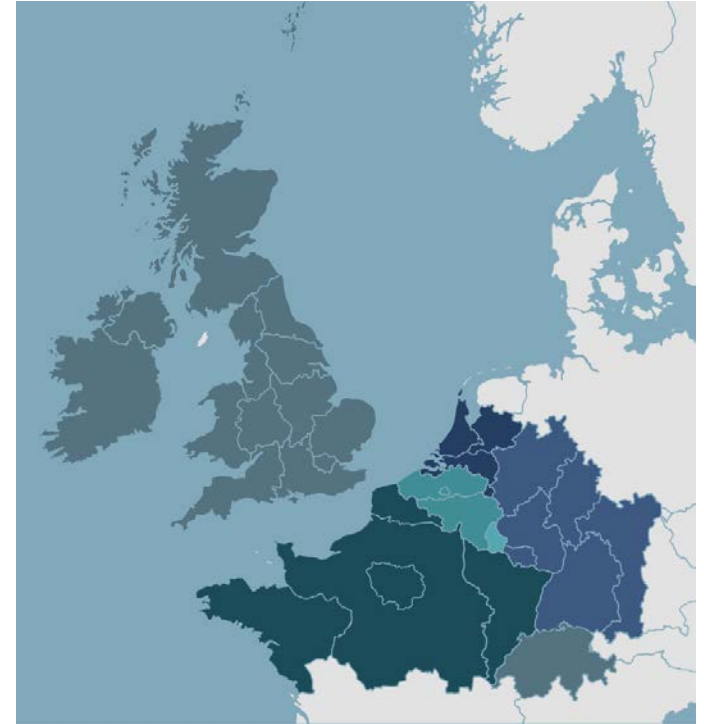


Precision Medicine Paradigm



Interreg North West Europe

“The Interreg North-West Europe Programme fosters transnational cooperation to make Northwestern Europe a key economic player and an attractive place to work and live, with high levels of innovation, sustainability and cohesion. Here you can find information about our funding opportunities and the positive changes our projects have brought to the territory and its people.”



<http://www.nweurope.eu/>

CODEX4SMEs Overview ([website](#))



- Codex4SMEs project plans to improve healthcare by enhanced adoption of Personalised Medicine in North West Europe and beyond.
- Companion diagnostics are a basic tool for optimum application of Personalised Medicine.
- Currently only few therapies are accompanied by Companion Diagnostic tests.
- North West Europe is not competitive with the USA in the implementation of Companion Diagnostics.

CODEX4SMEs Partners

- University of Leicester; Medilink East Midlands, UK
- BOM Holding BV, NL <http://www.bom.nl/>
- WestBIC, IE <http://www.westbic.ie/>
- InnovationQuarter (and subpartner), NL <https://www.innovationquarter.nl/>
- MEDICEN PARIS REGION, FR <http://www.medicen.org/>
- Integrated BioBank of Luxembourg, LU <http://www.ibbl.lu/>
- Biobank Graz at the Medical University of Graz, AT <http://www.medunigraz.at/>
- CÚRAM Centre for Research in Medical Devices, IE <http://www.curamdevices.ie/>

CODEX4SMEs

Current situation
one solution for all



Incubation



- Gap analysis
- Community building
- Information events
- Encouraging R&D collaborations

Acceleration



- Knowledge transfer and sample access
- Biomarker screening and validation service
- Connecting problem owners (pharma & clinics) to solution providers (SMEs)
- Clinical trial support

Growth



- Roadshow to venture capital and large pharma companies
- Business model and expert access service
- Guidance for regulatory and reimbursement issues

Codex4SMEs Solution
personalised medicine



Knowledge Sharing



CODEX4SMEs Support

- Sample access service
- Biomarker validation service
- Knowledge transfer regarding biomarkers/biobanking
- Networks/ecosystems from eleven partners in seven countries
- Transnational roadshows with venture capitalists and large pharma companies
- Expert advice regarding business model, business growth and upscaling
- Tailored support services to the SME's current stage of development.

CODEX4SMEs Gap Analysis

- Survey of SMEs developing diagnostics
- On-Line survey collated across North West Europe
- Provides the priority areas for support – Get Involved

<https://www.surveymonkey.com/r/H6J37D3>

LPMI Priority Areas



- Respiratory
- Cardiovascular
- Diabetes/Lifestyle and Exercise
- Oncology
- Ethnic Health Research
- Multimorbidity
- Microbial disease, including TB
- Acute Care & Emergency Medicine
 - Med Tech platform
 - NIHR Clinical Research Facility
- Renal disease

BRC

ECMC

CTUs

EMBER

inter-disciplinary research, cross-cutting expertise and technology

Genomics & Phenomics

Epidemiology, Analytics, Informatics

Drug and diagnostic discovery

Health care systems

LPMI – Large Cohort Studies



EXCEED
(10,000)

COPD
Asthma

Testbeds:
pharmacogenetics

UK Biobank

GenVasc
(23,000)

Coronary
disease

Clinical Trials
Unit

Genomics
England

GRAPHIC
(2,200)

Renal
disease

NIHR Clinical
Research Facility

International
genomics
consortia

LPMI Team



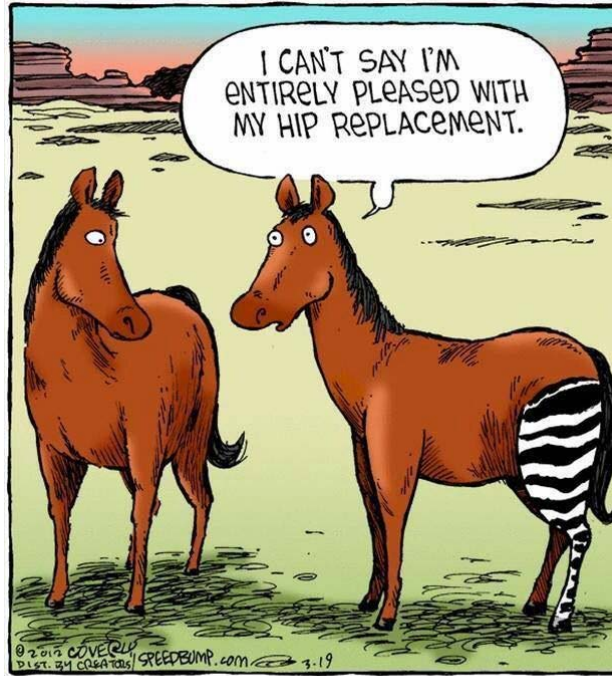
- Interreg Project Manager – Primary Contact for CODEX4SMEs
 - Carl Edwards, Commercial Manager ce133@leicester.ac.uk



- Martin Tobin, Chair
- Jacqui Shaw, Director
- Mike Sullivan, Commercial Director
- Ruth Barber, Operations Manager
- Riddhi Shukla, Business Development Manager



One size doesn't fit all...



Thank you for your attention