Funding in Health + Care
Stratified Medicine Innovation Platform
Alasdair Gaw, Sophie Dale-Black Loic Lhuillier, Chris Rowe, Penny Wilson
Stratified Medicine Innovation Platform

• Launched October 2010

• Accelerate Development and Uptake of Stratified Medicine
  – Improve Patient Outcomes
  – Provide Cost Benefit to the NHS and The Healthcare Industry
  – Deliver wider UK economic benefit

• Original Partners
  – Department of Health, Scottish Government Health Directorate
  – NICE, Medical Research Council, Technology Strategy Board
  – Arthritis Research UK, Cancer Research UK

• Consultation and Advice
  – MHRA, NIHR

• The combined 5 year Investment amounts to £200 Million

Aligning investment to establish Stratified Medicine for improved patient outcomes
Sustainable products and services

Clinical need

Fundamental Science
SMIP UK Roadmap Key Themes

- Incentivising adoption
- Increasing awareness
- Patient recruitment – consents and ethics
- Clinical trials
- Data – collection, management and use
- Regulation and standards
- Intellectual property
- Bio-banks and biomarkers
- Increasing the impact of R&D investment

https://ktn.innovateuk.org/web/stratified-medicines-innovation-platform
Potential partners across Diagnostic test commercialisation pathway

**Biomarker discovery**
- Farr Institute
- CPRD care, data
- Electronic Health Research Centres
- Connected Digital Economy Catapult

**Proof of principle**
- NOCRI Diagnostic Evidence Cooperatives
- Stratified Medicines Scotland Innovation Centre
- Clinical Research Networks
- Contract research organisations
- NIHR imaging centres
- Imanova
- Royal Colleges of Medicine
- High-value Manufacturing Catapult

**Lab validation**
- Cell Therapy Catapult
- Medical Research Council
- Genomics England
- Research charities
- University Tech Transfer Offices

**Clinical validation**
- NOCRI Diagnostic Evidence Cooperatives
- Stratified Medicines Scotland Innovation Centre
- Clinical Research Networks
- Contract research organisations
- NIHR imaging centres
- Imanova
- Royal Colleges of Medicine
- High-value Manufacturing Catapult

**Clinical utility**
- NICE
- MHRA
- EMEA
- FDA

**Market approval**
- NHS Innovation Monitor
- Academic Health Science Networks (AHSNs)
- Regional/ local NHS organisations

**Market uptake**
- UK Biobank, Charity Biobanks
- Health economic companies
- Product engineering companies
- Biomarker validation companies
- Precision Medicine Catapult
Planning ahead to reduce time to commercialisation

- Market uptake
- Market approval
- Clinical utility
- Clinical validation
- Lab validation
- Proof of principle
- Biomarker discovery

Who Pays?
Who Uses it?
What is the evidence required?

Why?
Where?

What?

Who?

Whats the value?

NICE
Scientific advice Programme: DAP MTEP

MHRA

AHSN
NHS Innovations

Diagnostic evidence Cooperatives

Precision Medicine Catapult
Stratified Medicine Innovation Platform  Round 6

Stratified Medicine: Working with the UK Infrastructure

SBRI: 2 phase competition:  £10m

• Addressing the leading healthcare challenges of the UK.
• Aim to provide exemplars of working across UK landscape to reduce time to adoption
• Linking companies with NIHR DECS, MRC Path Nodes, AHSN, Devolved government structures
• Drive adoption by early involvement of partners and Proof of utility
  — Provision of economic models for NICE that support Stratified Medicine
Potential partners across Diagnostic test commercialisation pathway

Biomarker discovery → Proof of principle → Lab validation → Clinical validation → Clinical utility → Market approval → Market uptake

Diagnostics company

- Farr Institute CPRD
- DECS (NIHR)
- UK Biobank, Charity Biobanks, Biomarker Research units, MRC NIHR etc, Genomics England
- Catapults High-value Manufacturing
- AHSN Innovation leaders
- NICE MHRA
- Catapults Precision Medicine Catapult
Stratified Medicine Innovation Platform  Round 6

Stratified Medicine: Connecting the UK Infrastructure

SBRI: 2 phase competition: £10m

- Phase 1
  - Up to 9 months duration:
  - Objective to provide health economic assessment of product and any early work to demonstrate feasibility of product/service technology
    - Amount available up to £150,000 per project  Aim to provide exemplars of working across UK landscape to reduce time to adoption
    - At 9 months  a report of the results and proposed value must be submitted
  - Successful applicants may then apply for Phase 2 funding
- Provisional dates

<table>
<thead>
<tr>
<th>Competition opens</th>
<th>7 September 2015</th>
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<tbody>
<tr>
<td>Briefing event</td>
<td>15 September 2015</td>
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<tr>
<td>Registration deadline</td>
<td>28 October 2015 noon</td>
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<tr>
<td>Deadline for applications</td>
<td>4 November 2015 noon</td>
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<tr>
<td>Contracts awarded</td>
<td>08 January 2016</td>
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</tbody>
</table>
Stratified Medicine Innovation Platform  Round 6
Stratified Medicine: Connecting the UK Infrastructure
SBRI: 2 phase competition:  £10m

• Phase 2 of the competition: £8 million
  – For projects up to 3 years duration:
  – Opens September 2016
  – Successful applicants from Phase 1 only
  – Applicants will submit a full development plan up to commercialisation
  – After submission applicants will pitch to a board of assessors
  – Expectation of up to 4 projects being funded.
Stratified Medicine Innovation Platform  Round 6
Stratified Medicine: Connecting the UK Infrastructure
SBRI: 2 phase competition: £10m

• Partnering Workshops
  – 4 workshops across the UK
  – Representatives of each nations organisations will be present
  – Workshops dates are:
    • Scotland: 22nd June, DoubleTree Hilton Edinburgh
    • Northern Ireland: 24th June, Titanic, Belfast
    • England: 30th June, ETC Farringdon London
    • Wales: 2nd July Life Sciences Hub Cardiff
For more information...

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Innovate UK Web Page:  www.innovateuk.org

WORKSHOP REGISTRATION LINKS
https://www.eventbrite.co.uk/e/stratified-medicines-diagnostic-biomarker-approaches-opportunities-edinburgh-tickets-17041945919
https://www.eventbrite.co.uk/e/stratified-medicines-diagnostic-biomarker-approaches-opportunities-belfast-tickets-17042016129
https://www.eventbrite.co.uk/e/stratified-medicines-diagnostic-biomarker-approaches-opportunities-cardiff-tickets-17042054243
https://www.eventbrite.co.uk/e/stratified-medicines-diagnostic-biomarker-approaches-opportunities-london-tickets-17042004093
Knowledge Transfer Partnership
Modelling for Stratified Medicine
£1m, project length 6 months to 3 yrs

• Proposals that bring forward new modelling systems that:
  • Integrate healthcare and science data to predict the likelihood
    — of a product demonstrating the intended effect in a clinical setting
    — of demonstrating clinical utility.
    • This will include systems biology and bioinformatics applications
  • Provide innovative multi-parameter algorithms that enhance the
    predictive strength of a diagnostic to allow regulatory acceptance
    and commercialisation
  • Provide innovative Health economic models for products that will
    allow new clinical care pathways to be established