

# Working with the Life Sciences Industry

## Creating Medical Technologies meeting NHS Needs

### Maximising the Potential in the North West

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# Common types of med tech products

## Devices used in the diagnosis or treatment of disease, or monitoring of patients, such as:

- Anaesthetic machine
- Blood glucose measuring devices
- Chiropody and podiatry equipment
- CT scanner
- Dental instruments, equipment and materials
- Dressings
- Endoscopes
- Examination gloves
- Intravenous (IV) administration sets and pumps
- Nebulisers
- Ophthalmic equipment
- Pacemakers
- Peak flow meters
- Surgical instruments
- Suction equipment
- Syringes and needles
- Ultrasound dopplers
- Urinary catheters

## Devices used in life support, such as:

- Defibrillators
- Patient monitors
- Pulse oximeters
- Ventilators

## In vitro diagnostic medical devices and their accessories, such as:

- Blood glucose measuring devices
- Cholesterol test kits
- Pregnancy test kits
- Urine test strips

## Devices used in care, such as:

- Adjustable beds
- Lifting poles
- Patient hoists and other transfer equipment
- Pressure relief equipment
- Stoma care equipment

## Equipment used by people with disabilities, such as:

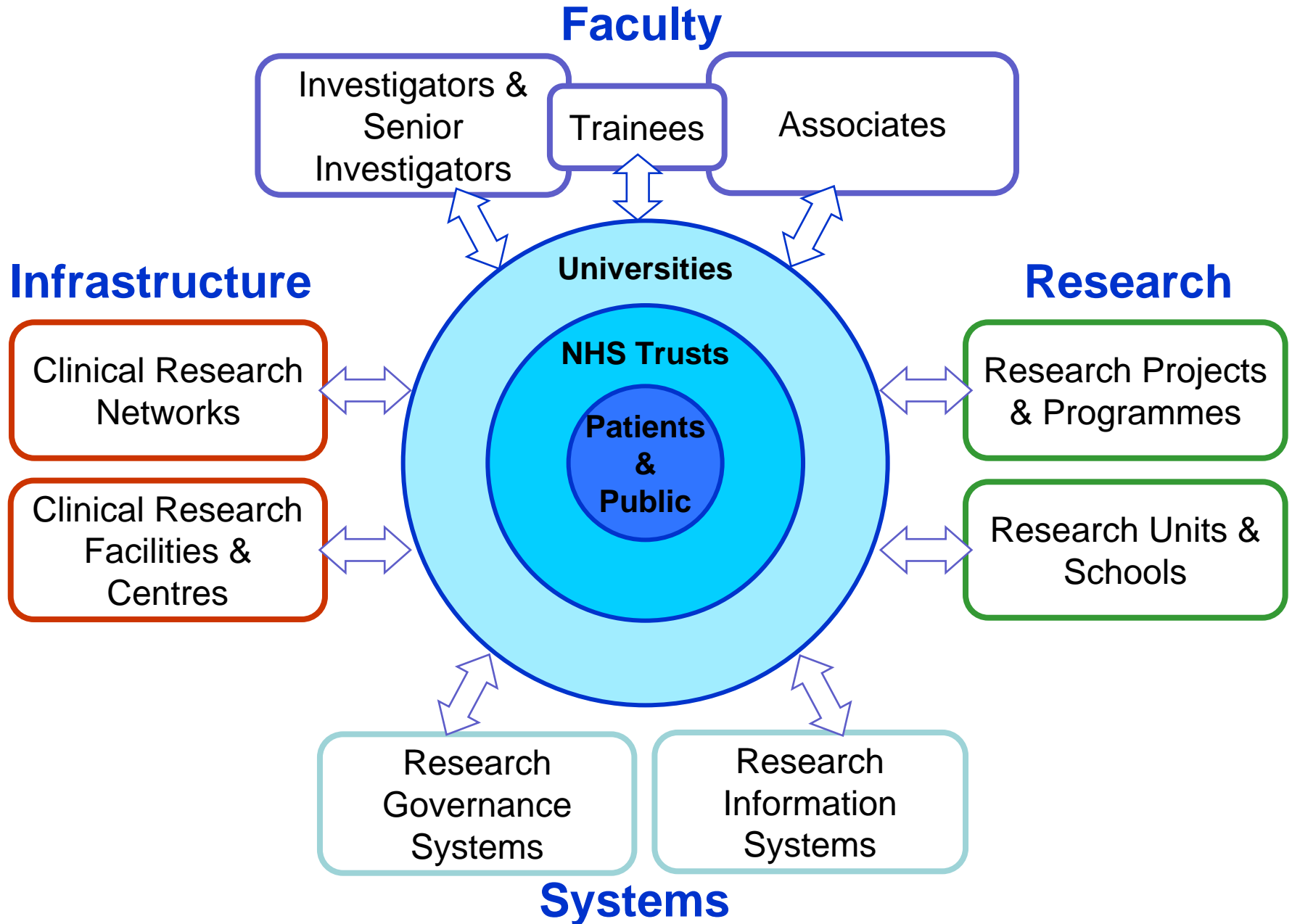
- Bathing equipment
- Commodes
- Communication aids
- External prostheses and orthoses
- Hearing aids
- Incontinence aids
- Prescribable footwear
- Standing frames
- Telecare (environmental controls and alarms)
- Urine drainage systems
- Walking aids
- Wheelchairs and special support seating

## Devices supplied by pharmacists

- Condoms
- Contact lens care products
- Chlamydia test kits
- Cholesterol test kits
- Pregnancy test kits
- Sphygmomanometers
- Thermometers
- Stoma equipment
- Urine test strips

# Challenges posed by innovative med tech products

- IT enables individual products to become components of systems
- Enable patient management shift to Primary Care and Community
- Preventative or predictive
- Broader “societal” technologies applied into healthcare



- **Invention for Innovation**
  - Future Product Development streams 1-3
  - SBRI
- **Research for Patient Benefit**
  - Response-mode projects
- **Evaluations & Trials**
  - HTA commissioned projects
  - HTA commissioned systematic reviews
  - Response-mode trials
- **Service Delivery & Organisation**
  - Commissioned & responsive projects

## Research

Research Projects  
& Programmes

## Infrastructure

### Clinical Research Networks

- *8 med tech clinical research studies adopted by the Network; discussions with more companies*
- *NIHR CRN Working with Industry National Event 04/06/09*
- *ABHI/NIHR/KTN/BIS Med Tech Industry Stakeholder Event 12/10/09*
- *NIHR Med Dev Clin Res WG*
- *NIHR Med Tech Process Testing WG*

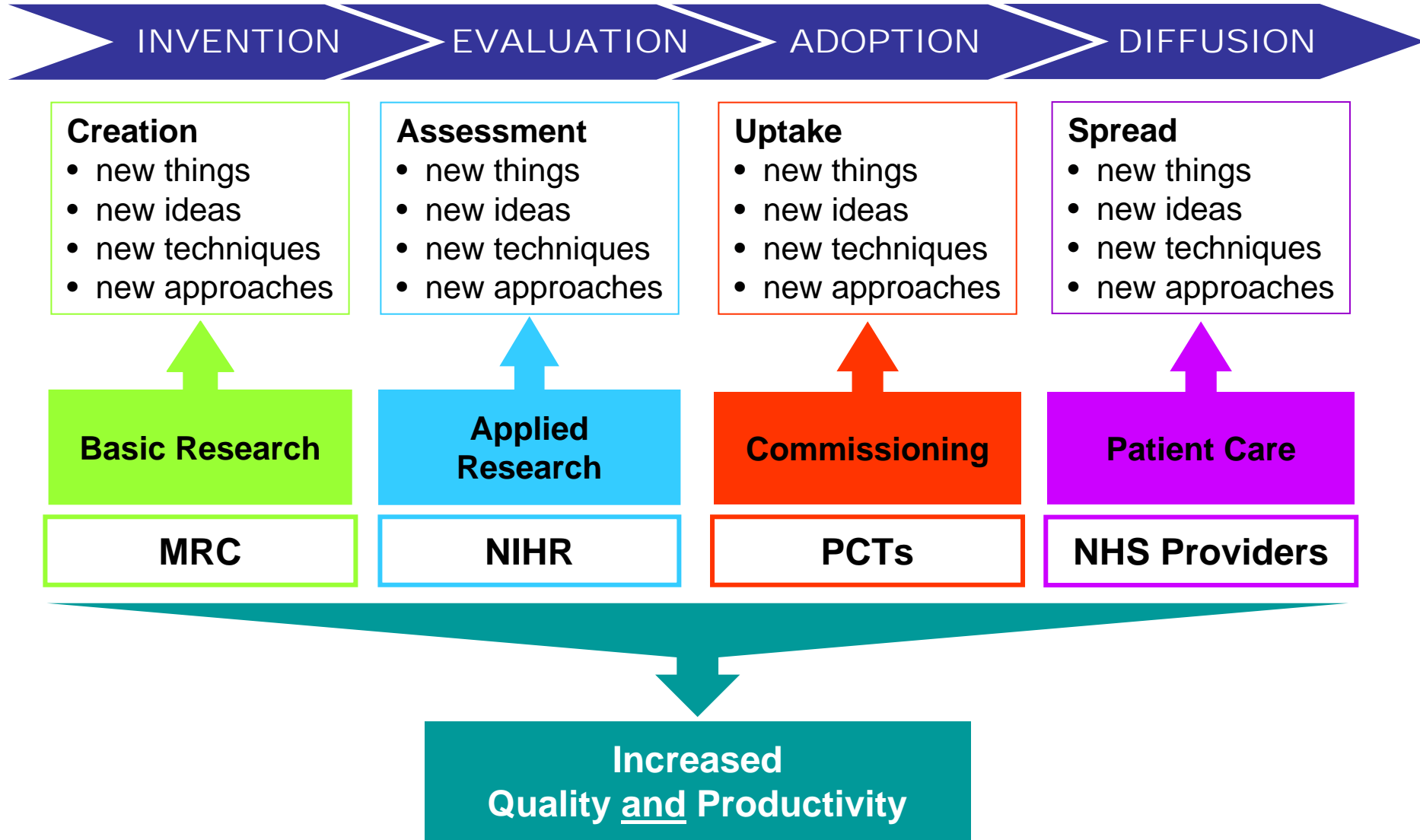
- **Integrated Research Application System (IRAS)**
- **NIHR Coordinated system** for gaining NHS permission
- **National Research Ethics Service**
- **Research Passports**
- **Model Clinical Investigation Agreements**
- **Costing Template**
- Research governance and management as an integral part of the NIHR **Clinical Research Network**

Research  
Governance  
Systems

Research  
Information  
Systems

**Systems**

# The Innovation Pathway



**INVENTION**   **EVALUATION**   **ADOPTION**   **DIFFUSION**

*National Institute for Health Research*

**MRC** Basic Research

Development Pathway Funding

Efficacy & Mechanism Evaluation

Invention for Innovation

Biomedical Research Centres

Biomedical Research Units

Patient Safety and Quality Research Centres

Research for Innovation, Speculation & Creativity

Research for Patient Benefit

Health Services Research

Programme Grants for Applied Research

Public Health Research

Service Delivery & Organisation

Health Technology Assessment

Collabs for Ldrshp in Appl Hlth Res and Care

Ctr for Reviews & Dissemination, Cochrane, TARs

**NHS Purchasing & Supplies Agency** Centre for Evidence-based Purchasing

**National Institute for Health & Clinical Excellence** Guidance on Health & Healthcare

**NHS Evidence** Access to Evidence

**NHS Institute for Innovation & Improvement** Support for the NHS

**Strategic Health Authorities** Duty of Innovation

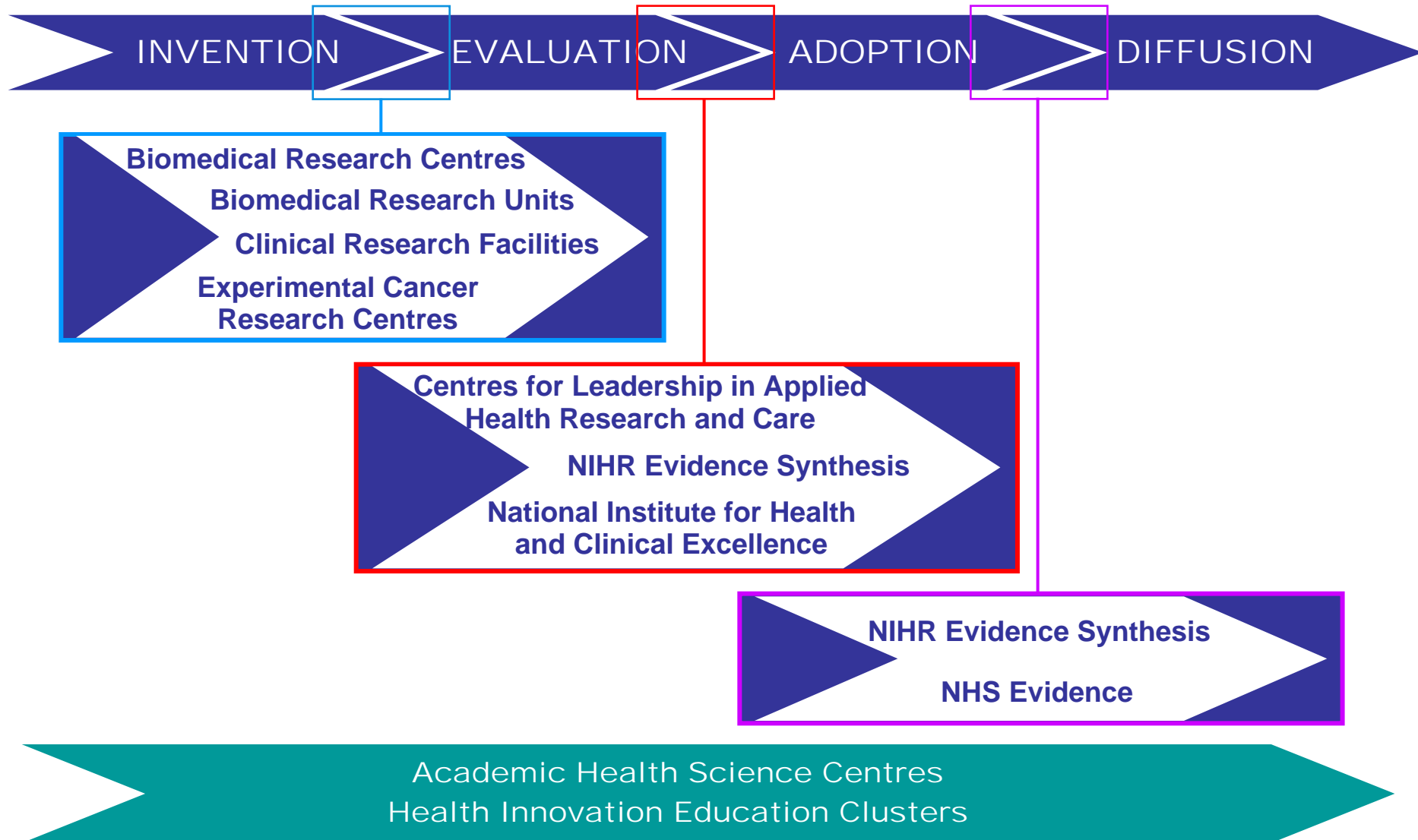
**Primary Care Trusts** Healthcare Commissioning

**NHS Providers** Patient Care

**National Institute for Health Research**

This pathway covers the full range of interventions - pharmaceuticals, biologicals, biotechnologies, procedures, therapies and practices - for the full range of health and health care delivery - prevention, detection, diagnosis, prognosis, treatment, care.

# National and local approaches to speed up translation



# Med Tech National Policy Environment

