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Medicines Optimisation Innovation Centre

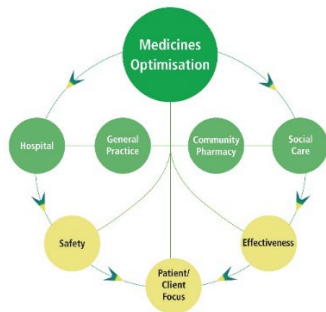


Smarter Medicines Better Outcomes

# Policy: Medicines Optimisation Quality Framework



## Northern Ireland Medicines Optimisation Quality Framework



March 2016

- Developed to improve patient outcomes from medicines and ensure effective use of healthcare resources.
- Person centred
- MOIC was established as part of this policy:
  - Research
  - Quality Improvement
  - Knowledge transfer
  - Innovation

<https://www.health-ni.gov.uk/publications/northern-ireland-medicines-optimisation-quality-framework>

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# MOIC Work Themes



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- › Focus needs of NI population
- › Accelerate adoption of innovation into practice to improve patient outcomes and experiences
- › Build culture of partnership and collaboration
- › Make meaningful contribution to NI economy

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# Who we are



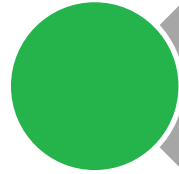
**Prof Mike Scott**  
Director



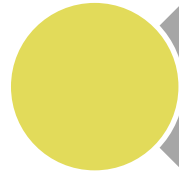
**Dr Glenda Fleming**  
Deputy Director



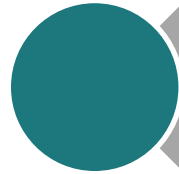
**Anita Hogg**  
Lead



Team of experts, including 7 Programme Managers trained to doctoral level



Clinical expertise throughout Northern Ireland



Communications and administrative support

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# What we do

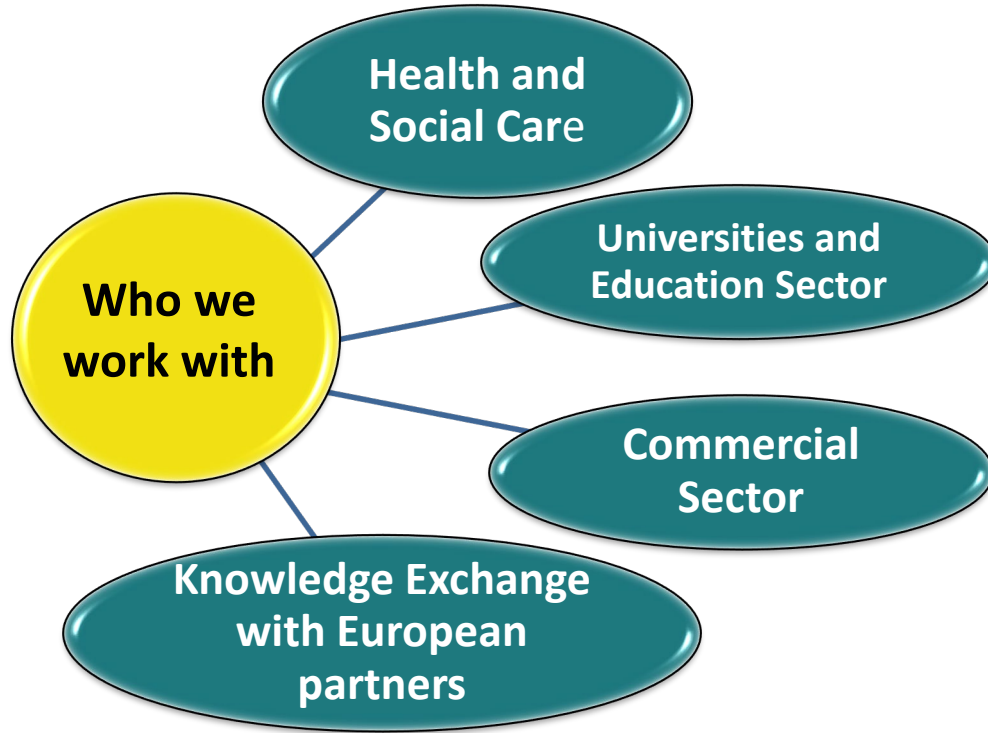
We develop solutions to improve medicines optimisation for Northern Ireland



We take an idea and turn it into reality

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# We engage and collaborate



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# How we have made a difference...



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# 1. Focus on needs of NI population

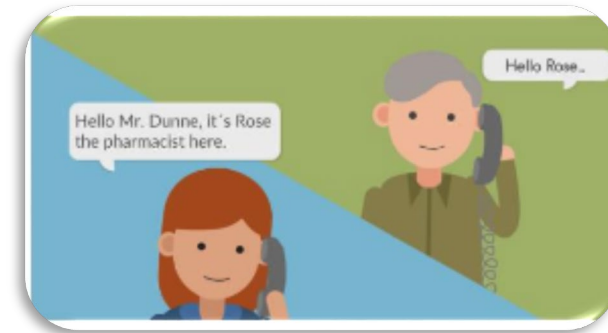
High Level patient satisfaction

15.2% reduction in 90 day readmission rates

Positive health economic benefit, with return in investment at £51 per £1 spent at 50 days

9.9% reduction in 30 day readmission rates

## Post Discharge follow up





# Medicines Optimisation in Older People (MOOP)

Consultant Care of the  
Elderly Pharmacist Network



15 specialist elderly care  
pharmacists

## Nursing Homes

Improved MAI

2.7 interventions made per  
patient

Reduced ED attendances

ROI £2.39-3

## Intermediate Care

Improved MAI

1122 interventions in 453 patients

42.9% patients phoned post discharge  
required one or more interventions

ROI £2.35-4

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## Other HSC examples.....

Cardiovascular  
pharmacy  
services

Evaluation of use of  
CRP testing in  
Primary care

Regional new  
models of  
prescribing

Role of Consultant  
Respiratory  
Pharmacist

Treatment of  
uncomplicated UTI in  
community  
pharmacy



## 2. Accelerate adoption of innovation into practice



### Tagging and Tracking

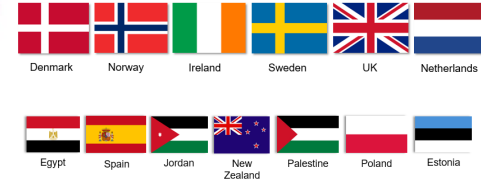
Tagging and tracking system in a hospital Trust



### rDOT technology in respiratory disease

Working with a University spin out company to improve medicines adherence in respiratory diseases (e.g. asthma)

# 3. Build a culture of partnership & collaboration



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Medicine Collaboration Innovation Centre

SMARTER MEDICINES BETTER OUTCOMES

Working towards better patient outcomes  
by initiating, developing and sharing  
practice with regards to medicines use

RESEARCH

INNOVATION

IMPLEMENTATION

TRANSFER



# European recognition



Polish Society of Clinical  
Pharmacy



Estonian Society of Hospital  
Pharmacists (ESH)



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# Other collaborations....



**abpi**  
Bringing medicines to *life*  
Association of British Pharmaceutical  
Industries (ABPI)



**in4aha**  
EMPOWERING INNOVATION



CLUSTER  
SAÚDE DE  
GALICIA



**HSE Digital  
Transformation**



**Hi** Health  
Innovation  
Hub Ireland



COMMONWEALTH  
**PHARMACISTS**  
ASSOCIATION



Institute for  
Healthcare  
Improvement

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# European Connected Health Alliance



*The Global Connector in Healthcare*  
*We bring people, organisations, needs and solutions*  
*together*

**Medicines Optimization thematic  
ecosystem group**

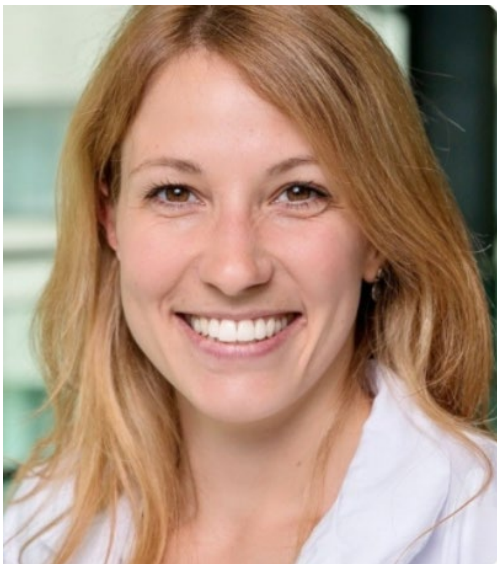


[www.echalliance.com](http://www.echalliance.com) / [info@echalliance.com](mailto:info@echalliance.com)

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# PhDs



## Austria

- AMS group - impact
- Clinical pharmacy
- Ulster University

## Estonia

- Medicine use reviews
- Primary care
- Eastern Europe & Iran

## Norway

- MO at transitions in care

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# Tanzania

- Project proposal to implement and evaluate pharmacist medicine reviews in OP setting
- Bugando Teaching hospital
- Interest from Tanzania Pharmaceutical Council/Society
- Antimicrobial stewardship opportunities
- Commonwealth Pharmacists' Association
- Northumbria Trust Bright Charity

# European Funding Success....



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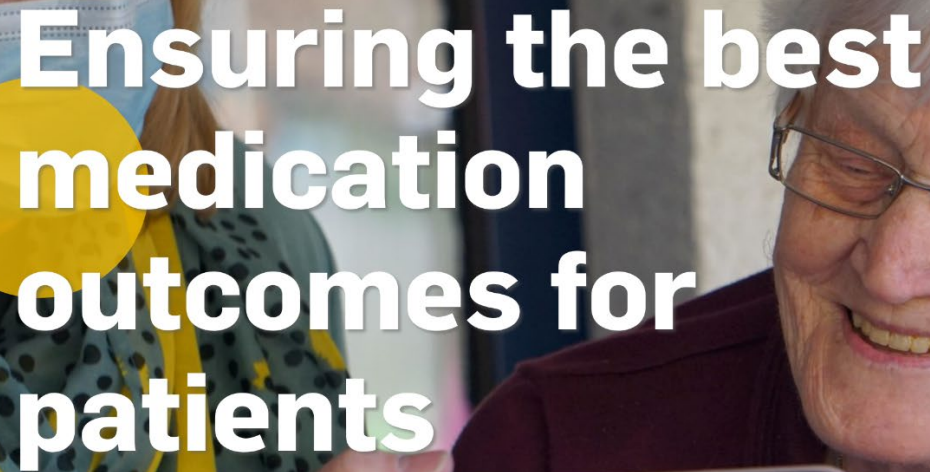
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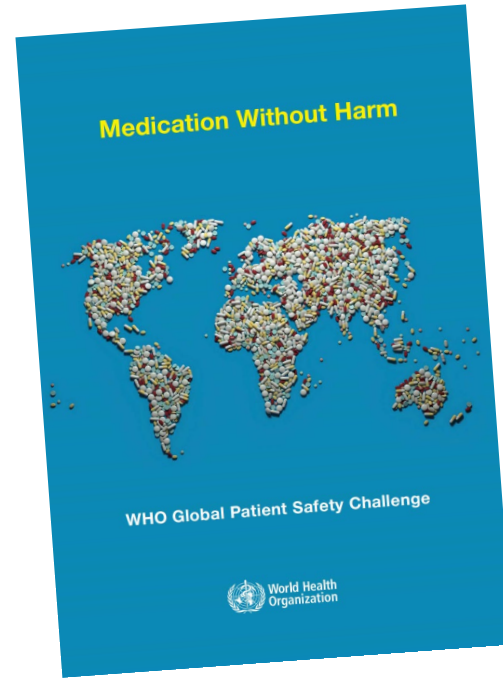
The Smart & Healthy Ageing through People Engaging in Supportive Systems (SHAPES) Innovation Action intends to build, pilot and deploy a large-scale, EU-standardised open platform. The integration of a broad range of technological, organisational, clinical, educational and societal solutions seeks to facilitate long-term healthy and active ageing and the maintenance of a high-quality standard of life. Mediated by technology, in-home and local community environments interact with health and care (H&C) networks contributing to the reduction of H&C costs, hospitalisations and institutional care.



# Ensuring the best medication outcomes for patients

iSIMPATHy, (implementing Stimulating Innovation in the Management of Polypharmacy and Adherence Through the Years), a three year EU funded project in Northern Ireland, Scotland and the Republic of Ireland. The project aims to ensure the best and most sustainable use of medicines for patients by training pharmacists and other medical professionals to deliver medicine reviews and embedding a shared approach to managing multiple medicines.

# Contribute to National & International priorities



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## 4. Meaningful contribution to the NI economy

- Three joint working projects with Pharma and Trusts: cardiology, virtual clinics and risk stratification re HF
- Diagnostic project in cancer pathway ready to proceed
- Working with Data Value Hub, Armagh Banbridge Craigavon Council
- New prototype non-touch thermometer being tested in the innovation lab at Antrim



# Going forward – Opportunities.....

**Funding bids  
and further  
connections**

**Multiple long  
terms conditions  
-ageing**

**Patient  
centred care –  
data analytics,  
genomics**

**New technology  
-living labs**

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