

# **Enabling Clinical Design**and Innovation

Anne Horgan

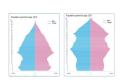
**General Manager Clinical Design and Innovation, HSE** 





# Irish Healthcare - Headline Challenges

Increasing, ageing, diverse population; emerging new marginalised groups



Population profiles across all ages - insight to inform planning of regionalised services



Service access-demand; wait times; medicines shortages; rising costs constraining ability to fund



Behavioural factors; socio-economic deprivation, inequity, self management



Bridging workforce gap – international demand; new evolving roles – shift left



Increasing non-communicable [chronic] disease burden and antimicrobial resistance



Clinical data/document standards; clinical systems and solutions





Innovative approaches - precision medicine [genetics, environment, lifestyles]

Using digitisation, data, AI to improve outcomes







# Clinical Design – proactive versus reactive

Where is Healthcare System now, from design perspective?

Risk getting stuck in cycle of dealing with emergencies

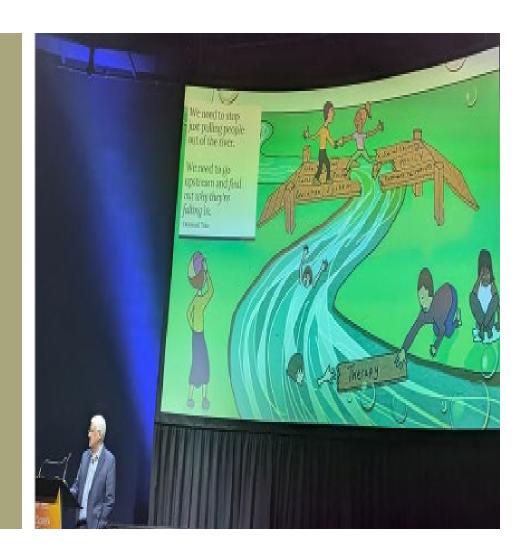
Downstream (reactive) mode rather than going Upstream to find root cause and fix what caused problems to occur (system thinking)

WHAT, WHY, WHEN, WHERE, HOW

Articulate problems in new way - create good health experiences

"Tackle the problem not the symptom"

Mr Malcolm Beattie, Former Head of NI Public Sector Innovation Lab





#### Execute service-processchange improvements

Foundations:

innovative concept to clinical design Engage & Support

Programmatic Approach

Situational Assessment

Execute proof of Realise & concept; Celebrate test of Results change Shared Monitor, Learning & Evaluate, Iterate **Collaboration** & Scale Up

Collaborate, share, expand



# HE Clinical Design and Innovation 2023 - A year in review

#### Clinical Design and Innovation 2023 – A year in review

Examples of our collaborative work to change and improve services



#### Designed clinical services

- Diabetes in pregnancy
- Cardiac rehabilitation
- People with mental disorder and substance use disorder

available at hse.ie/eng/about/who/cspd/ncps/



Supported people to live well in their communities In 2023:

GPs managed ~ 550,000 patients with chronic diseases

Community Specialist Teams saw

~ 100,000 older people

#### Improved access to care

A new child and adolescent eating disorder service was opened for Cork and Kerry.

"Work-Able Solutions" initiative began helping people with chronic pain stay employed or return to work.



Ensured the voice of service users is at the centre of everything we do

An older person's reference group was established to share what matters most to them.

Patient co-design of clinical services.





# Need to meet evolving challenges

To move to holistic system, design-driven and participatory approach, with focus on jointly optimising

- system performance (productivity, efficiency, effectiveness, patient safety)

#### **AND**

- wellbeing (health, safety, experience)

#### Complex Challenges require an Evidence-Based, Participatory, Design-led Approach

- incorporate research and data insights, based on best available evidence (Ulrich et al., 2008)\*
- aligns with shift towards patient-centred care models (Robert, 2015)\*
- ensures practical, effective, accessible and sustainable models of care, in real-world settings (Bate & Robert, 2006)\*



# **Ensure Clinical Design Effectiveness**

### Situational analysis

#### Methodology

- Document review
- Interviews
- Survey
- Literature review
- Co-design workshop

**Outputs** identified methodologies/training curriculum to support Clinical Design Teams, based on expressed needs

- SI and QI framework for planning and executing work
- Consistent approach to design thinking planning and implementation support
- Build MDT clinical design teams for the future, with right capacity and capability



## We asked:

# To what extent are data sources used as inputs into design process?

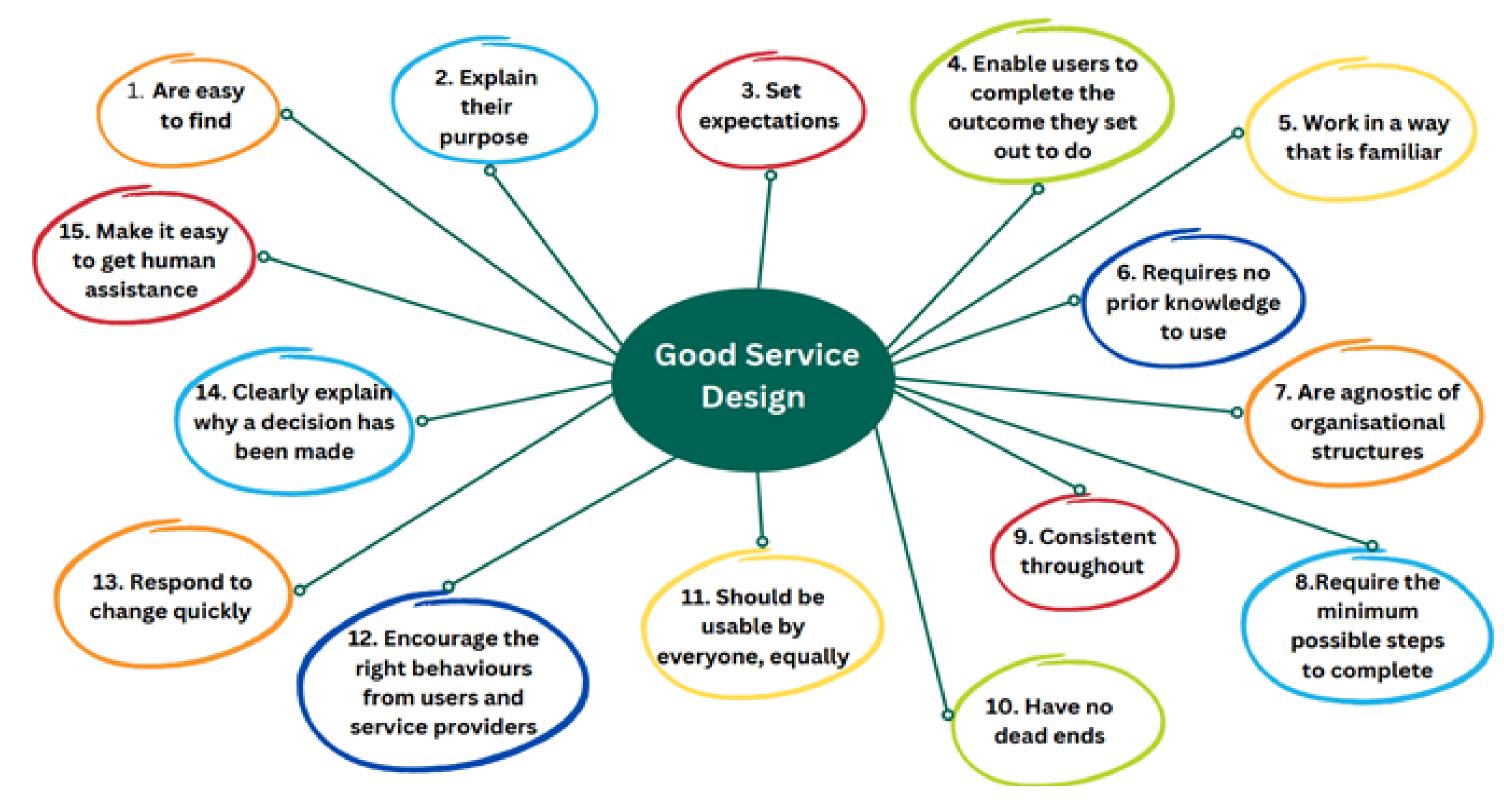
- Frontline Staff Engagement
- Patient/Public Engagement
- Clinical/Healthcare Audits
- Patient Safety Data
- Patient Outcome Data
- Clinical Effectiveness Data
- System Efficiency Data
- Clinical Literature Search
- Healthcare Design Literature Search
- Population Health Data
- National Agreed Policies/ Strategies

#### To what extent are design conceptsframeworks-methodologies used?

- Design Thinking / Double Diamond
- Co-Design / Participatory Design
- Sociotechnical Systems
- The CUBE
- User-Centred Design
- Lean Six Sigma
- As-Is & To-Be Process Modelling



# Principles of Good Service Design (Downe, 2020)\*



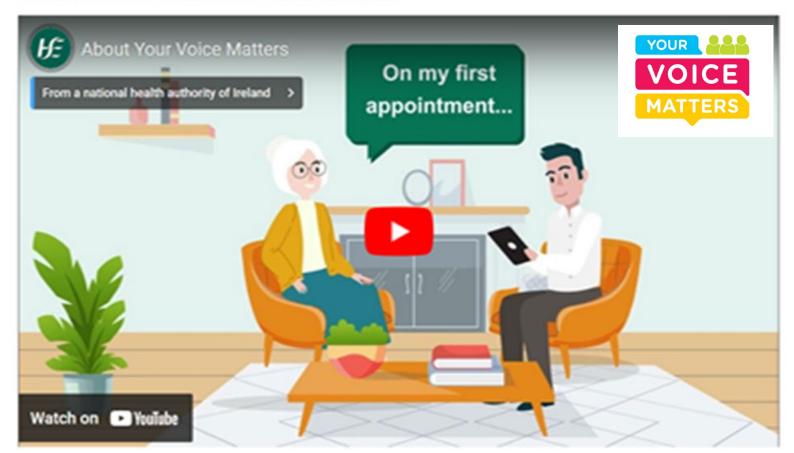


## **Patient Co-Participation**

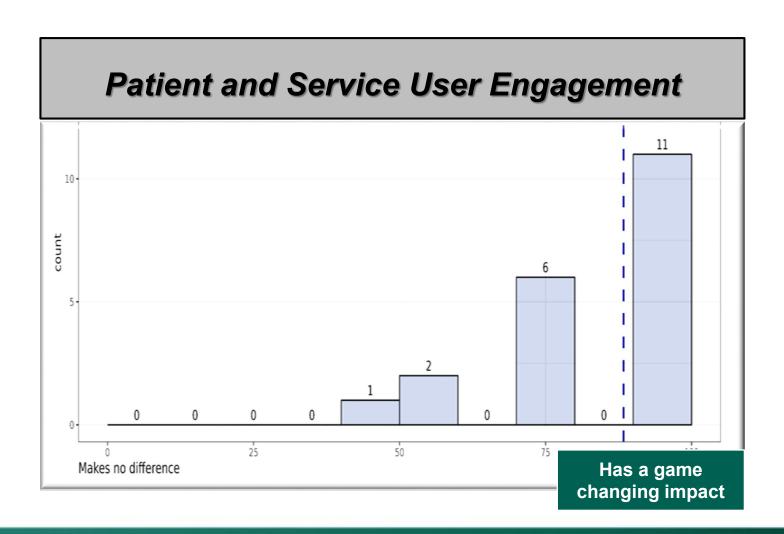
Fundamental cornerstone of healthcare

While clinical effectiveness and safety important, experience of care matters just as much

#### Watch a video about Your Voice Matters



https://www.hse.ie/eng/about/who/cspd/patient-narrative/participant-information/





# Clinical Design and Innovation – Future Model

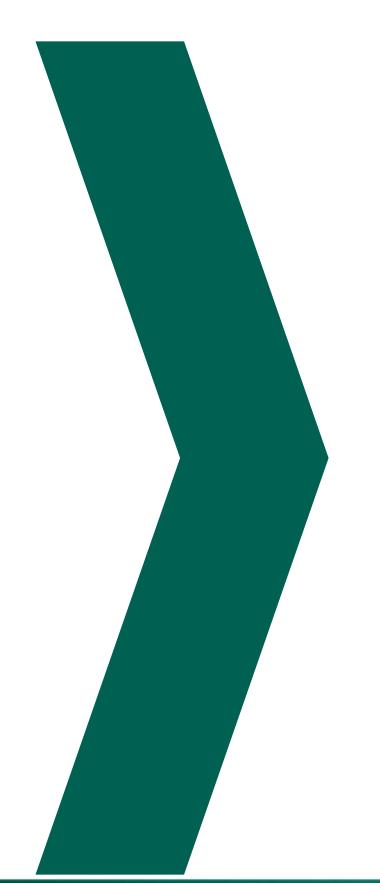
#### Identify, design innovative solutions for optimum care delivery

Design and pilot value-conscious models of care that improve outcomes Standardise quality care informed by patient-centric data Identify and deliver value - improve efficiency, effectiveness, sustainable patient care

- → Value-based
- → Evidence-informed
- → Data-driven
- → Person-centred; population-based
- → Find, design, test and support implementation
- → Demonstrate integration across service domains



# Our journey ahead



#### **Path Ahead**



Support Health Region operational entities via national clinical designs



Patient and Service User Partnership Council Better for patients, better for services



Directory of 'pipeline innovative designs' – scan potential for testing, evaluating and spread



Innovate with empathy - take on pressing challenges, focus on unmet need via population based planning



Digital and data enablement; health information dashboards HSPA Outcomes Framework



# Reflections: incremental steps in right direction



