### Tom Inns in tom@cofink.co.uk https://www.linkedin.com/in/tominns/



*'I am a design & systems facilitator & educator working with health & care professionals'* 



Principal Research Fellow (Part-Time) University of Strathclyde, Glasgow



Visiting Professor Heriot-Watt University, Edinburgh & Dubai

## **DESIGN & SYSTEMS THINKING**

### **Health & Care** Start-ups









Innovate

### **Health & Care QI** teams

Design Methods for Health & Care

One day course 236 33 ,00 ---vie.





South Eastern Health

and Social Care Trust

### Patient **Ecosystem** Mapping

### **Patient** cofink Ecosystem Mapping

Supporting system-shifting in health and care



### Research









⊗◎ FUTURE OBSERVATORY

## **DESIGN & SYSTEMS THINKING**

### Health & Care Start-ups

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Design Methods for Health & Care

#### One day course

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Patient Ecosystem Mapping

### Patient Ecosystem Mapping

Supporting system-shifting in health and care

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In the convention a quality improvement for book needs are relatively text includes near a zooming out? to explore these more holistic challenges. Patient Ecosystem Mapping off to see the system from above, from a service-user's perspective.

This summary explains what a Patient Ecosystem Map is, how it can be created and how it can be used to help a team deliver the system shift needed within contemporary health & care, examples of recent mapping projects are provided to illustrate how the approach can add value.



### Research





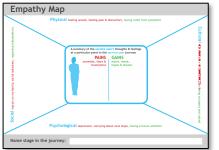




Arts and Humanities Research Council OBSERVATORY

## **DESIGN METHODS** For health & care QI teams







#### MAPPING SERVICE-USER JOURNEYS

Mapping service-user journeys

The healthcare team use the service-user journey template to map out the typical journey of their service-user using carefully selected clipart.

Once the service-user map is completed the team explores areas for improvement:

- Are all stages in the service-user journey reccesary? Could some be combined and delivered in another way?
- Are interactions between staff and service-users suitably personalised, yet consistent and of high quality?
- Are interactions and physical touchpoints communicating complex healthcare information clearly
- and in a timely way for service-users?
- Are the relationships and connections between different units and departments as effective & timely as they

Personas

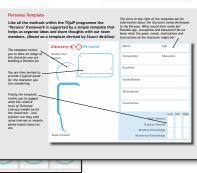
Building Personas of service-us

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- might be? Does your team's initia
- Does your team's initial assessme satisfaction reveal stages in the jo be improved?

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NHS<br/>TaysideJune 2019 – Date:TaysideDate:TaysideComparisonComparisonComparisonTaysideComparison<

## DESIGN METHODS For health & care QI teams

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The Southith Generatives Tealitic Medicine Cherl Medical Official for Scotland's Annual ort 2054 25.1 (2026), Available at tellpic.//wwwi7.goi.sind/

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FEATURE DESIGNING REALISTIC HEALTHCARE IMPROVEMENT

### Designing 'Realistic' Healthcare Improvement

E KNOW DESIGN HAS MUCH TO offer healthcare, from the development of state of the art hospitals, the creation of new medical products, to the design of patient-centered health services, but what if we want to bring design approaches right into the heart of healthcare practice? Obviously, we would not want to diarupt the skills and knowledge associated with the delivery of evidence-based medicine-but can we equip our medics, nurses, and allied health professionals with sufficient working knowledge of design principles so that they can use design to improve the way they practice? This paper reports on work underway in Scotland using design to influence the way the conventional improvement agenda for healthcare is being delivered.

Before describing how design approaches are being introduced and giving examples of how the design message is being manced to make adoption intuitive, it is useful to explore what is driving this change.

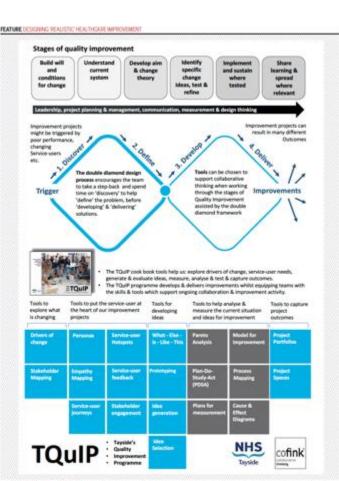
#### The Realistic Medicine agenda Although the UK's National Health Service (NHS)

has universal standards of delivery, in Scotland the control of the bealthcare budget and strategic direction are delegated to the Scottlah Government.

A Scottish Chief Medical Officer (CMOVis appointed to a non-molitical role in the Government's Civil Service and is tasked with setting the vision for improving the health of Scotland. In 2015 the CMO, Catherine Calderwood, published a groundbreaking national report called Realistic Medicine (The Scottish Government, 2014-15)." The report was framed as a challenge to her medical colleagues to name, reflect, and completely rethink their style, culture, and practice of healthcare.

The report was framed around six key challenges, visualized in the Realistic Medicine infographic (Figure 1). These challenged medical practitioners to improve patient care through the development of a more personalized approach, one in which the patient is placed at the center of a shared decision-making process. It challenged practitioners to reduce waste and unwarranted variation in practice while acknowledging and managing the inherent risks associated with care delivery. It called for more focus to be placed on outcomes that matter most to individual patients The report also championed innovation and idea generation from frontline staff to support organizational quality improvement. The Scottish CMO's vision was that, by 2025, everyone providing healthcare in Scotland would practice according to the approaches, behaviors and attitudes of Realistic Medicine.

Since its launch, the philosophy of Realistic Medicine has captured the imagination of many clinicians, nurses, allied health professionals, and patients. The six key Realistic Medicine themes have become a framework and nationally recognized starting point for Realistic Medicine champions to initiate new convenations, debate, intenffsciplinary practice, and healthcare research in Scotland. The reason why Realistic Medicine has resonated as well with clinicians, patients, and caregivers is simple; it challenges why we care and how we should care: it challenges society to completely withink the services we could provide as part of future-facing health and social care service: it challenges care culture, care mindsets, and the politics of care. Realistic Medicine asks that both clipicians and patients pause, reflect, DMI VOL 31 ISSUE 2 | DMLORG 13



16 DMI VOL.30, ISSUE 2.1 DMI.ORG

Internalis visualizing the six key challenges anoritated with the delivery of Realistic Michigan

# Design Methods for Health & Care

## One day course

Design methods have much to offer health & care professionals looking for new ways to innovate in the way they organise and deliver services. Taking a step back and identifying the right challenges, working collaboratively, thinking out of the box and most importantly putting patients, service-users and staff at the centre, are all aspects of improvement where design methods can add value. This one-day course, which can be customised to suit participant needs, builds skills through a series of practical sessions. A full set of course notes with examples and templates will help learners embed learning within their own projects.



## **Course Aims**

Build understanding of how design thinking can bring leverage to health & care improvements by:

- Enhancing creativity and innovation.
- Putting the service-user at the centre.
- Encouraging teams to take a step back.
- Bringing structure to thinking.
- Facilitating collaboration across silos.

Learn how to apply a range of design methods into improvement projects, with a focus on:

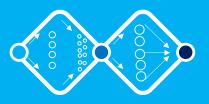
- Supporting project discussions in both face-to-face and online environments using design methods templates.
- Using design methods as part of a process of problem solving and solution development.

## Content

- How design thinking supports innovation.
- Principles of design methods.
- Identifying challenges & unmet needs in health and care.
- Capturing insights Trigger Maps
- 'How-Might-We' Statements
- Enhancing Brainstorming
- Using De Bonos's 6 thinking hats
- Exploring solutions: What-Else-Is-Like-This
- The user perspective Personas
- Understanding needs Empathy Maps
- Service-User Journey Maps
- How to enable your team through face-to-face & online facilitation

## **Facilitation**

Design methods training is facilitated by Professor Tom Inns. Tom studied at the University of Bristol & the Royal of College of Art and has a PhD exploring the impact of design thinking on organisational innovation capability. He is Director of cofink Ltd. and is a Visiting Professor at the University of Strathclyde. Tom has run Design Methods training for SEHSCT, Northern Ireland, NHS Tayside & NHS Lothian and Universitetssykehuset Nord-Norge.











### Contact

For more information contact Tom Inns at: email: tom@cofink.co.uk LinkedIn: www.linkedin.com/in/tominns/

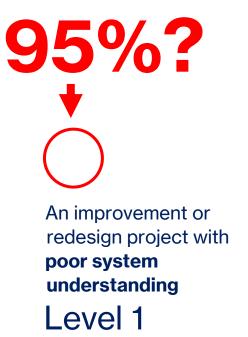
## **PATIENT ECOSYSTEM MAPPING** The importance of systems awareness

### **NOTES:**

Level 1 = How a majority of healthcare improvement is currently delivered
 Level 2 = Improvement activity that understands system consequences
 Level 3 = A high impact approach for cross-system improvement
 Level 4 = A speculative position which can help guide Level 3

### Based on concepts from

Mieke van der Biji-Brouwer [Medium 2023] Systemic Design Lab – TU Delft





An improvement or redesign project with system awareness Level 2



A prioritised portfolio of improvement activity delivering system shift Level 3



High-level speculation and modelling of system redesign Level 4

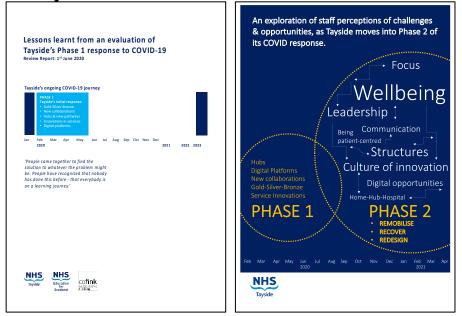
Increasing impact & collaboration

## PATIENT ECOSYSTEM MAPPING Background: lessons from COVID

March 2020 – August 2020

Lessons learnt in real-time whilst responding to COVID

- Empower your teams
- Work across silos
- Develop shared aims, innovate across the system



Shobhan Thakore, **NHS Tayside** Laura Allison, **NES** Tom Inns, **Cofink** 

'At the highest level we need to get a single view of the ecosystem to understand the status of risks, change drivers and innovations'



Tayside



## PATIENT ECOSYSTEM MAPPING UKRI research grant Transport Maps?



### November 2020 – April 2022

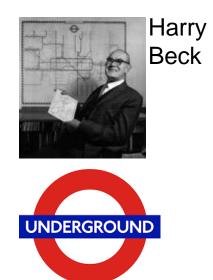


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### Individual Line





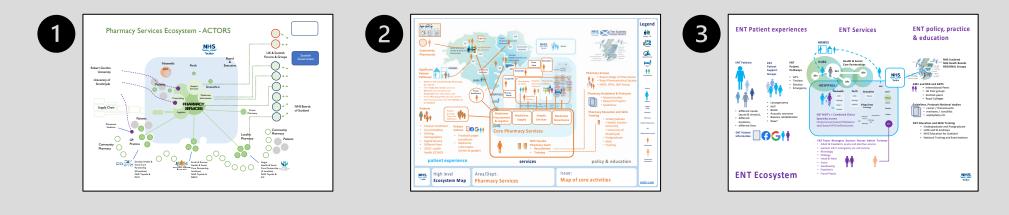
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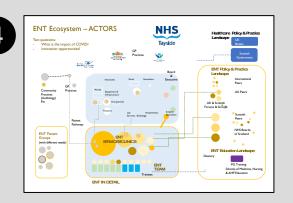
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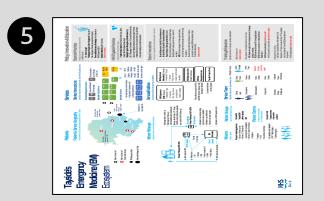
## PATIENT ECOSYSTEM MAPPING Development

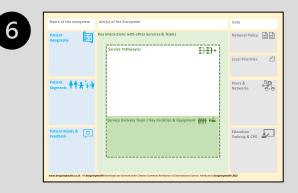
An iterative development process working with health & care teams

- ENT & Emergency Medicine (Tayside)
- Pharmacy Services (Tayside)
- Oncology Services (Tayside)
- Care Homes & NHS Services (Tayside)
- Viral & Non-Viral Pathways (Tayside)









## PATIENT ECOSYSTEM MAPPING Mapping Protocols

A high-level visual representation of a system of healthcare that shows.

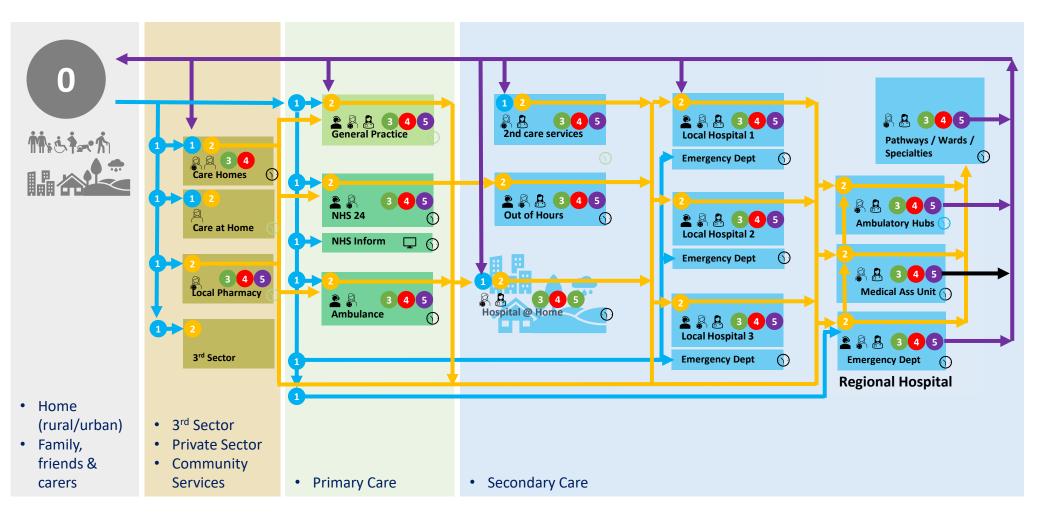
• Stages in the patient journey:



- Home Care Home General Practice Hospital etc
- Connections between health and care pathways experienced by patients



## PATIENT ECOSYSTEM MAPPING Baseline Map (Generic NHS)



## PATIENT ECOSYSTEM MAPPING **STEP 1:** Co-creating an ecosystem map

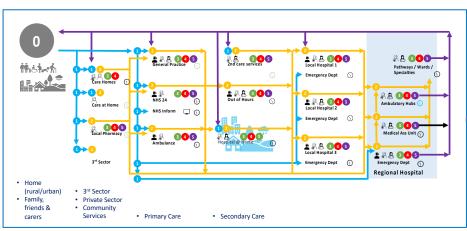
## **1. Define Scope**

Decide scope of the map by establishing:

- Geography: Region, trust/board, community or specific locality.
- Patient / User Groups: All patients / users or specific demographic or conditions.
- Pathways: All pathways or emergency-urgent-elective pathways, specialist pathways, inhours, out-of-hours etc.

### 2. Co-create Map

- Identify key ecosystem stakeholders.
- Decide how mapping is to be choreographed (face-to-face or online).
- Build the map iteratively, through collaborative workshops using icons and colour coded arrows.
- Mark-up using local pathway and service vocabulary & local data.



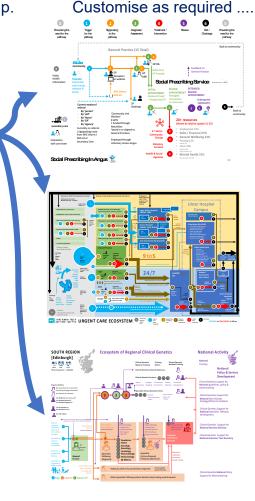


Face-to-Face MIRO



TEAMs supported by





## PATIENT ECOSYSTEM MAPPING STEP 2: Exploring challenges & needs

### **1. Invite service-users to talk through their own journeys**

Mark up:

- What was challenging
- What worked well
- Patient / serviceuser ideas for ecosystem improvement.



## PATIENT ECOSYSTEM MAPPING STEP 2: Exploring challenges & needs

## 2. Use iceberg-model to identify:

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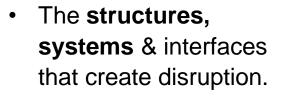
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- Observable day-today challenges.
- Trends (with data) that are having impact over tighte.

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The **mental models**, **mindsets** and policy decisions that influence behaviours.

**EVENTS** patients & staff experiences day-to-day.... **PATTERNS & TRENDS** Patient trends? Staffing trends? Clinical trends? **SYSTEMS & STRUCTURES** The way primary, secondary & social care? **MENTAL MODELS & MINDSETS** Patients, staff society **Increasing leverage** 

on the system But also increasingly difficult to influence!

## PATIENT ECOSYSTEM MAPPING STEP 3: Planning & delivering system-shift

Identify Multiple Improvement Projects Record as: How-might-we statements?

- Take an action (redesign, improve, reduce)
- For (Patients, staff, demographic group)
- Desired Outcome (to enhance equity etc)
  What are the selection criteria?
  What are weightings?



An improvement or redesign project with system awareness Level 2 A prioritised portfolio of improvement activity delivering system shift

Level 3

High-level speculation and modelling of system redesign Level 4

> What is primary aim? What are secondary aims?

If you had a blank sheet what would the system look like?

An improvement or redesign project with **poor system understanding** 

Level 1

## PATIENT ECOSYSTEM MAPPING **STEP 3:** Planning & delivering system-shift

- Models of Collective Impact
- Establish & resource a 'back-bone' team to deliver change across the system

### Collective Impact

LARGE-SCALE SOCIAL CHANGE REQUIRES 300 leaders of local organizations agreed to participate, includ-BROAD CROSS-SECTOR COORDINATION. YET THE SOCIAL SECTOR REMAINS FOCUSED ON THE ISOLATED INTERVENTION OF INDIVIDUAL ORGANIZATIONS. By JOHN KANIA & MARK KRAMER

ing the heads of influential private and corporate foundations, city government officials, school district representatives, the presidents of eight universities and constrainty colleges, and the executive directors of hundreds of education-related nonprofit and advocacy groups. These leaders realized that fixing one point on the educational

continuum-such as better after-school programs-wouldn't Illustration by Martin Jarrie make much difference unless all parts of the continuum improved at the same time. No

he scale and complexity of the U.S. public education system has thwarted attempted reforms for decades. Major funders, such as the Annenberg Foundation, Ford Foundation, and Pew Charicable Trusts have abandoned many of their efforts in frustration after acknowledging their lack of progress. Once the global leader-after World War II the United States had the highest high school graduation rate in the world-the country now ranks s8th among the top

14 industrialized nations, with more than 1 million secondary school students dropping out every year. The heroic efforts of countless teachers, administrators, and nonprofits, together with billions of dollars in charitable contributions, may have led to important improvements in individual schools and classrooms,

yet system-wide progress has seemed virtually unobtainable. Against these dounting odds, a remarkable exception seems to be emerging in Cincinnati. Strive, a nonprofit subsidiary in the same way. Participating organizations are grouped of KnowledgeWorks, has brought together local leaders to tackle the student achievement crisis and improve education throughout greater Cincinnati and northern Kentucky. Inthe four years since the group was launched, Strive partners have improved student success in donens of key areas across three large public school districts. Despite the recession and budget cuts, 34 of the 53 success indicators that Strive tracks have shown positive trends, including high school graduation rates, fourth-grade reading and math scores, and the number of preschool children prepared for kindergarten.

Why has Strive made progress when so many other efforts have failed? It is because a core group of community leaders decided to abandon their individual agendas in favor of a collective approach to improving student achievement. More than

single organization, however innovative or powerful, could accomplish this alone. Instead, their ambitious mission became to-coordinate improvements at every stage of a young person's life, from "cradle to career." Strive didn't try to create

a new educational program or attempt to convince donors to spend more money. Instead,

through a carefully structured process, Strive focused the entire educational community on a single set of goals, measured into 15 different Student Success Networks (SSNs) by type of activity, such as early childhood education or tutoring. Each SSN has been meeting with coaches and facilitators for two hours every two weeks for the past three years, developing shared performance indicators, discussing their progress, and most important, learning from each other and aligning. their efforts to support each other

Strive, both the organization and the process it helps faagenda for solving a specific social problem. Collaboration is nothing new. The social sector is filled with examples of partnerships, networks, and other types of joint efforts. But collective impact initiatives are distinctly different. Unlike most

## Characteristics of successful 'backbone' change support teams:

- **Visionary:** Ensure aim(s) shared by all projects
- Results orientated: Ensure measures of progress shared by all projects.
- Facilitate collaboration Build relationships across silos.
- They celebrate success: Externalise & share
- Charismatic They are optimistic & energise
- **Politically adept: They d**raw down resources
- **Humble:** They let projects in the system take the limelight



An in-depth review of what it takes to be a backbone organization, and how to evaluate and support its work

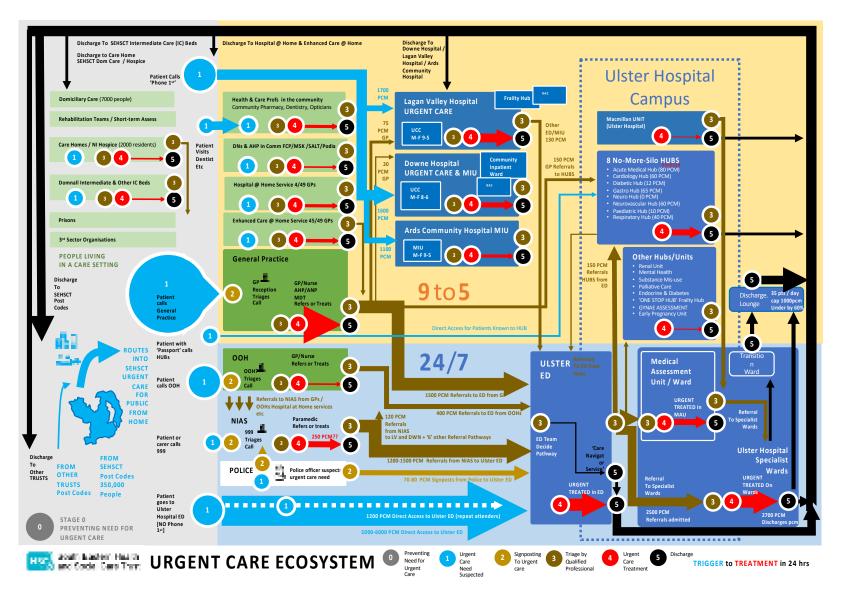
https://ssir.org/articles/entry/underst anding the value of backbone orga nizations in collective impact 2

36. Tradition being methods with the datase left

cilitate, is an example of collective impact, the commitment of a group of important actors from different sectors to a common-

BY SHILOH TURNER, KATHY MERCHANT, JOHN KANIA AND ELLEN MARTIN

## PATIENT ECOSYSTEM MAPPING Urgent & Unscheduled Care: SEHSCT



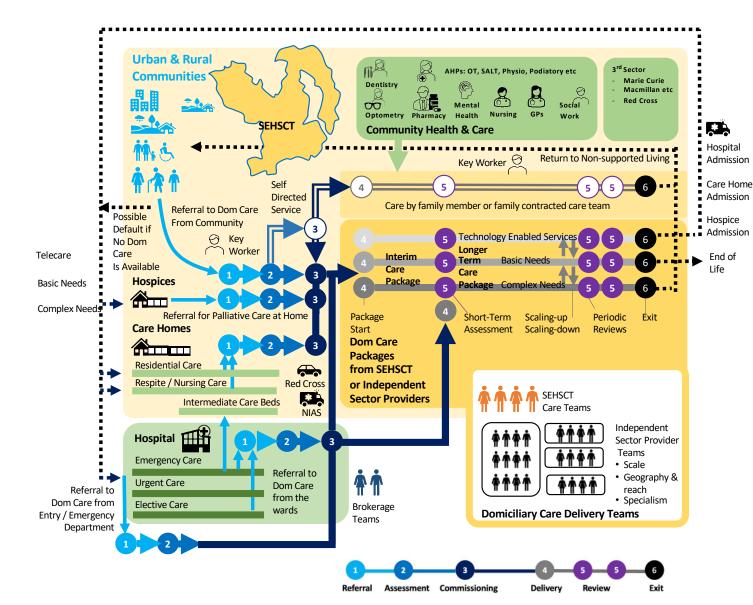








## PATIENT ECOSYSTEM MAPPING Domiciliary Care: SEHSCT



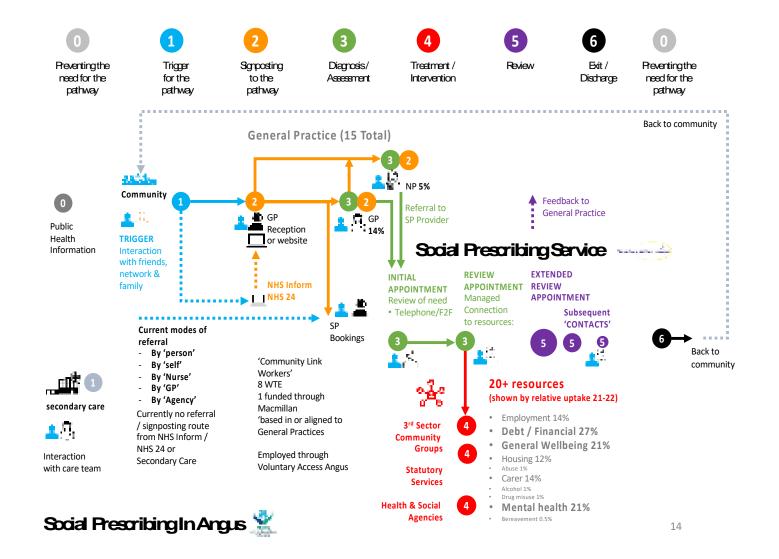








## PATIENT ECOSYSTEM MAPPING Social Prescribing: Angus HSCP

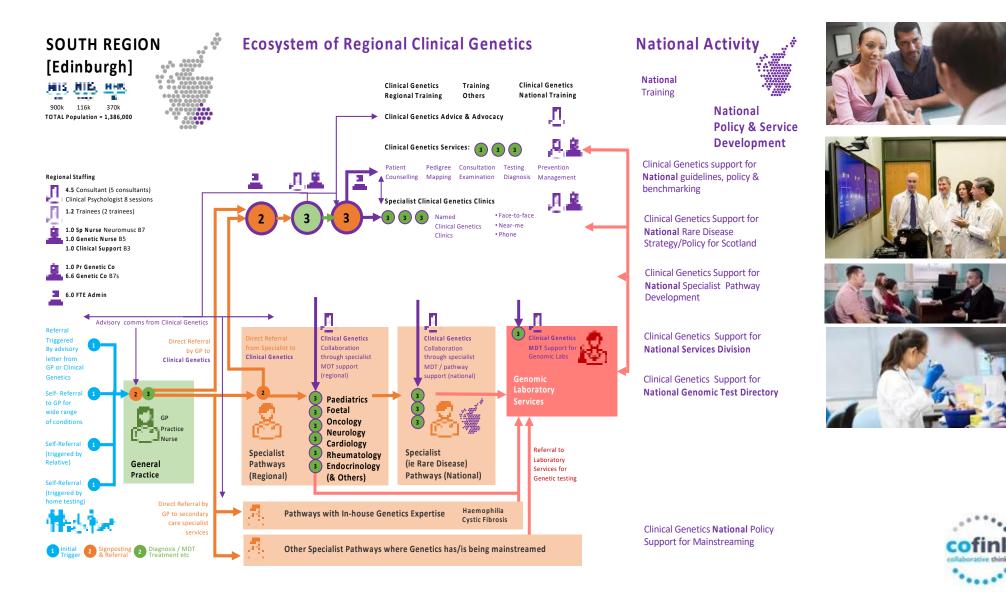








## PATIENT ECOSYSTEM MAPPING Scottish Clinical Genetics Services



## SEHSCT Domiciliary Care Challenges

Through the online workshops held in Nov 2022 and the face-to-face workshop on 6<sup>th</sup> Dec 2022 a wide range of current challenges were identified

#### Trust Boundaries

Challenges at the boundaries when discharging into NE and Belfast Dom Care systems. Variance in policies.

#### Self-Directed Support

- Taken as a direct payment (cash)
- A managed budget (held by 3<sup>rd</sup> party)
- Trust brokered service

Lots of questions about whether these pathways are clear to service-users and professional teams?

#### **Public Expectations**

Challenge of managing what is reasonable? Is this defined? Do public have realistic expectation? Public often not ready to have Dom Care conversations, better awareness is needed

#### Referrals into domiciliary care from the community

Perception that care packages from the Telecare community are not prioritized due to hospital discharge pressures. What is the Basic Needs real data on this? Could better access reduce Complex Needs hospital admissions?

#### **Communication Challenges**

Challenge of Independent Care Providers not have very detailed information on service-user needs at point of taking on a care package

#### Challenge of Care Home Provider Continuity

Arises when service-user goes to hospital, care home or hospice and is then discharged, previous care provider cannot be guaranteed

#### **Constant Challenge of** 'medically fit but need Dom Care' patients on wards

'Over-prescription' of care packages Hospital-based discharge teams tend to 'over-prescribe' to mitigate anticipated risks that might not be relevant

Political Vacuum Care Staff Recruitment Not having a government in place that can Care Staff Recruitment Challenges particularly in very rural areas 'The Peninsula' action additional funding, change policies Lack of interaction with other community teams etc. This came up as a key issue impacting Opportunities for better 'holistic' care being long term planning missed due to lack of communication between teams Urba & Rural 112Q Â AHPs: OT, SALT, Physio, Podiatory etc 3<sup>rd</sup> Sector Commu Marie Curie Dentistry Macmillan etc 8 B Pharmacy **Red Cross** οð Mental Social GPs Nursing Optometry Health Worl SEHSCI **Community Health & Care** Hospital Return to Non-supported Living Admission Key Worker Care Home Self Admission Directed Care by family member or family contracted care . . . . . Referral to Dom Care Service Possible Hospice From Community Default if Admission 5 Technology Enabled Services 0 Key No Dom Worker Longer Care Interim End of Term Basic Needs Is Available Life Care Care Hospices Package Package Complex Needs Referral for Palliative Care at Home Package Scaling-up Exit Short-Term Periodic Care Homes Start Assessment Scaling-down Reviews Dom Care Packages **Residential Care** from SEHSCT Respite / Nursing Care Red Cross or Independent SEHSCT **Sector Providers** Intermediate Care Beds Care Teams NIAS Independent Hospital Sector Provider Teams Emergency Care Scale Referral to Geography & **~**7 Urgent Care Dom Care Referral to reach from the Specialism Dom Care from Elective Care Brokerage wards Domiciliary Care Delivery Teams Entry / Emergency Teams Department Referral Assessment Commissioning Delivery Review Fxit

#### procurement of services seems to have been taken away from key workers

Continuity of key worker can be challenging - creates communication issues

Clarification of key worker role

4-5 years ago the role of the key

fragmented - involvement in the

worker was emphasized - now it is

#### Limited Feedback Routes

Very limited feedback routes for service-users – either a complaints process (which some find intimidating -will I lose my care package?) Or online 'Care Opinion' service (has only been operating since 2020).

#### Challenge in variance in care package delivery – are all reviews done systematically? Etc? Are Care Packages being reduced when they should be?

Clarification of 'what is care' and 'what is support'

Variation in pay and conditions between staff working in different teams

No system wide approach to training, career development and improvement across all teams working within the system

#### **Transport Scheduling**

**Direct Payment Route from Hospital** 

Payment Route is available to service-

users being discharged from hospital

Lack of clarity as to whether Direct

Challenge of scheduling transport back to home, family / care teams not always given a clear discharge time

#### Vocabulary & Terminology

Why do we call it domiciliary Care? Should we call it 'care at home' the public would understand this better. Should Periodic Review be called 'Assessments', would this make things more transparent?

## **Opportunities for Domiciliary Care Improvement**

Through the online workshops held in Nov 2022 and the face-to-face workshop on 7th Dec 2022 a wide range of possible improvement projects were identified



There is a n opportunity to establish a 'Service-User Panel'. People with lived experience of using the system who could contribute to the co-design of future care system - all improvement projects would benefit from user feedback.



Service-User guide It would be very useful to have a clear

regularly updated user guide (printed and online). 'This is how the system works' (from a service-user perspectives)

- Stages in your care journey
- Choices that are available to you
- How you will be assessed
- How you can give feedback

**Domiciliary Care** System

Health & Care

Professional guide A similar regularly updated guide (probably online) could be developed for health and care professionals

Scale new Digital Service Tools and Approaches

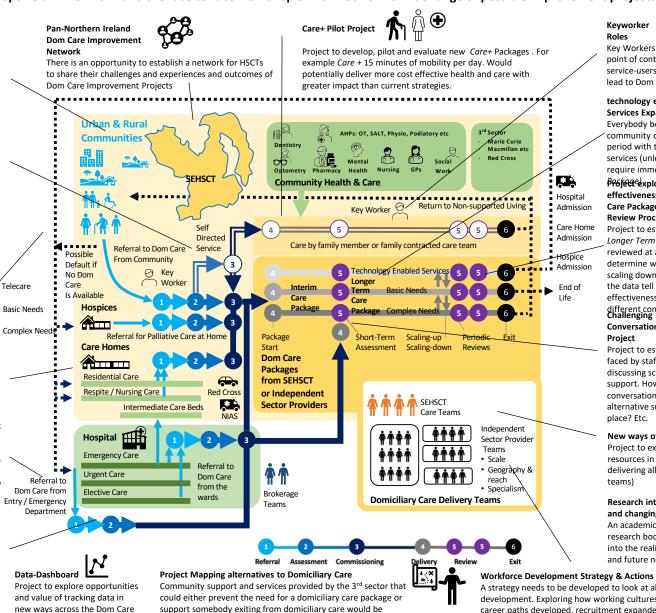
The SEHSCT Dom Care teams are now all supported with digital tools to track Dom Care package delivery. These approaches and similar approaches within the independent sector need to be aligned with suitable interfaces and data sharing to allow the ecosystem to be monitored effectively.

#### Assessment Criteria used in Hospital ΣΞ environment

Anecdotal evidence suggests hospitalbased teams are 'over-prescribing' Dom Care requirements. The extent and possible mitigations of this practice could be assessed.

new ways across the Dom Care

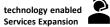
Ecosystem



mapped and clear guidelines for signposting would be published

#### Kevworker Roles

Key Workers play an important role as a point of contact for Domiciliary Care service-users. A review of the role could lead to Dom Care service improvements



Everybody being referred from the community could be given a trial period with technology enabled services (unless their care needs require require immediate Interim Care

ĽΞ

Profeeteexploring effectiveness of Care Package



Project to establish whether all I Longer Term Care Packages are being reviewed at a fixed point to determine whether scaling up or scaling down is required. What does the data tell us about the effectiveness of this process in



Project to establish the challenges faced by staff and service-users in discussing scaling-down of Dom Care support. How should these conversations be reframed? What alternative support could be put in place? Etc.

New ways of Deploying Resources Project to explore impact of using resources in new ways (for example delivering all Interim Care via SEHSCT teams)

Research into the lived experience and changing needs to service-users An academic study (funded through research bodies). Building insights into the realities of Domiciliary Care and future needs.

A strategy needs to be developed to look at all aspects of workforce development. Exploring how working cultures can be improved. career paths developed, recruitment expanded. The true contribution and value added by domiciliary care staff needs articulating.



### Supporting system-shifting in health and care

The majority of innovation in health & care is based on guality improvement methods developed in other sectors like manufacturing. These methods can deliver significant impact, but often they focus on 'drilling down' into a system, optimising individual pathways or specific elements within a service. Many of the emerging challenges in health & care, however, require us to see the bigger picture, to shift the emphasis to prevention, improve the interfaces between patients & serviceusers and professionals and be more mindful of the population's rapidly changing needs.

In the conventional quality improvement tool-box there are relatively few methods that support 'zooming out' to explore these more holistic challenges. Patient Ecosystem Mapping offers a way to see the system from above, from a service-user's perspective.

This summary explains what a Patient Ecosystem Map is, how it can be created and how it can be used to help a team deliver the system-shift needed within contemporary health & care, examples of recent mapping projects are provided to illustrate how the approach can add value.



## **Project Examples**

#### **Urgent & Unscheduled Care**

South East Health & Social Care Trust,

A detailed Patient Ecosystem Map for Urgent & Unscheduled care was built up through five 90-minute online workshops with over 60 participants. Available data was used to mark-up relative patient flow rates through the Ecosystem (indicated by arrow width). During a one-day face-to-face workshop patient journeys were mapped, challenges were explored and a portfolio of improvement projects across the system were identified & prioritised.



**Commissioned Services** NHS Tayside & Angus HSCP Care Trust

Detailed Patient Ecosystem Maps were built for a range of newly commissioned services established to alleviate pressure on General Practice, (in response to revisions to the 2018) GMS Contract), these included Social Prescribing, Pharmacotherapy, CTAC and First Contact Physiotherapy. The maps have been used to inform potential improvement projects and more effective ways of monitoring service performance.

#### Scottish Clinical Genetics Service All NHS Scotland Regional Boards.

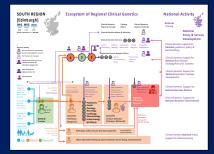
Through a series of online and face-to-face workshops Patient Ecosystem Maps have been built for Scotland's 4 regional Clinical Genetics Services (West, North, South & East). The maps have enabled the teams to communicate the role of Clinical Genetics to other stakeholders at a regional and national level. Variance in regional delivery strategies has been mapped - information that is helping in the development of National Service Specifications.

### Contact

If you would like more information about Patient Ecosystem Mapping contact Professor Tom Inns. email: tom@cofink.co.uk LinkedIn: www.linkedin.com/in/tominns/ website: www.cofink.co.uk

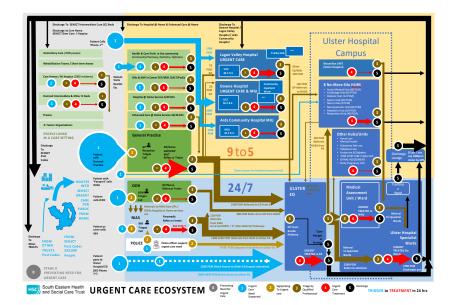
Tom regularly runs workshops introducing healthcare professionals to Patient Ecosystem Mapping. He also facilitates projects directly with Health Boards and Trusts using the Patient Ecosystem Mapping approach to plan future developments. Tom has worked with SEHSCT. Northern Ireland, NHS Education for Scotland, NHS Tayside, NHS Borders, NHS Lothian, NHS Lanarkshire, NHS Highlands and Universitetssykehuset Nord-Norge.





Patient Ecosystem Mapping (PEM) Tom Inns 24th DMI: Academic Design Management Conference TU Delft, Netherlands, 6-7 August 2024





### Patient Ecosystem Mapping (PEM): Supporting system-shifting in health & care.

Tom Inns COFINK LTD (tom@cofink.co.uk) DMEM, University of Strathclyde (tom.inns@strath.ac.uk)

**1. Define Map** 

What is the Geography of

Scope

the Ecosystem?

Who are the Patient

Groups in the Ecosystem?

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#### **1. Define Map Scope**

Decide scope of the map by establishing:

- Geography: Region, trust/board, community or specific
- Patient / User Groups: All patients / users or specific demographic
- Pathways: All pathways or emergency-urgent-elective,,

### 2. Map the Ecosystem

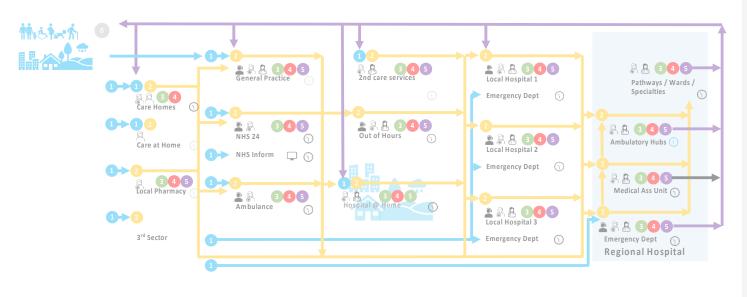
- Identify key ecosystem stakeholders.
- Decide how mapping is to be choreographed
- (face-to-face or online). collaborative workshops using icons and colour coded arrows.
- Mark-up using local pathway and service vocabulary & local data.

#### 3. Engage with patients

- Invite patients / service-users to talk through their own journeys.
- Mark up what was challenging, what worked well and patient / service-user ideas for



2. Map your Annotate the model below to mark-up how YOUR patient pathways connect (use local vocabulary & terminology) **Patient Ecosystem** 



Ä SHHET

### 3. Profile a Patient

Ecosystem?

Name: Age: Situation:

Walk the patient through the Ecosystem Map. Mark-up what was challenging, what worked well and patient ideas for Ecosystem improvement.

#### 4. Identify Drivers

- Observable day-to-day challenges. Trends (with data) that are having impact over
  - create disruption.

### 5. Plan System-Shift

- Model a preferable 2030 Patient
- Define a 'system shifting' portfolio of
- each as a 'How-Might-We' statement.
- Develop criteria for evaluation & develop a prioritised plan.

### 6. Deliver System-Shift

Establish & resource a 'back-bone' team to deliver change across the system through:

- Pooling of expertise. Celebration of successes
- Being politically adept.



### 4. Challenges and Drivers in your Ecosystem

### 5. System-Shift ideas for your Ecosystem

'How-Might-We' Projects that will overcome day-to-day challenges: What are the day-to-day challenges? 'How-Might-We' Projects that will respond to the challenges of current & future trends: What are the trends? What is going up? What is going down? How quickly? What are the structures, systems & interfaces that create disruption? 'How-Might-We' Projects that will overcome challenges of systems and structures: What are the mental models, mindsets and policy decisions that influence behaviours? 'How-Might-We' Projects that will influence mental models and mindsets:



### 6. Delivering System-Shift

What are the high-level aims of your 'System-Shift'?

Who would be in your 'System-Shift Back-Bone' team?

Which Projects would you prioritise?

### Tom Inns in tom@cofink.co.uk https://www.linkedin.com/in/tominns/



*'I am a design & systems facilitator & educator working with health & care professionals'* 



Principal Research Fellow (Part-Time) University of Strathclyde, Glasgow

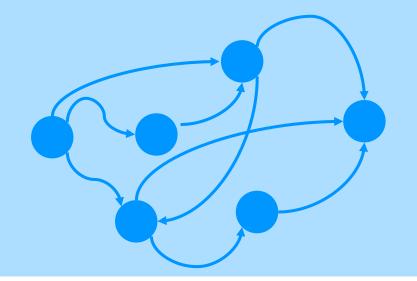


Visiting Professor Heriot-Watt University, Edinburgh & Dubai

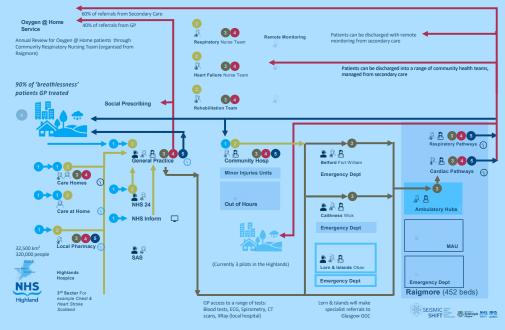
## Systems Engineering Modelling MLTC Pathways (Breathlessness)

### Atlas of modelling approaches

- Causal loop models
- 'Stock & flow' models
- Hard systems modelling
- Soft systems modelling



2. NHS Highlands - Patient Pathways - 'elective' referral to secondary care specialists from General Practice





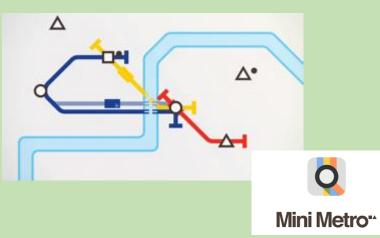




National Institute for Health Research

## Design Tools to support modelling/training Developing understanding through gaming







The challenge: NHS Urgent Care ENSURING: right care, right time, right place **Whilst:** 

1. Reducing resource consumption

2. Building climate resilience

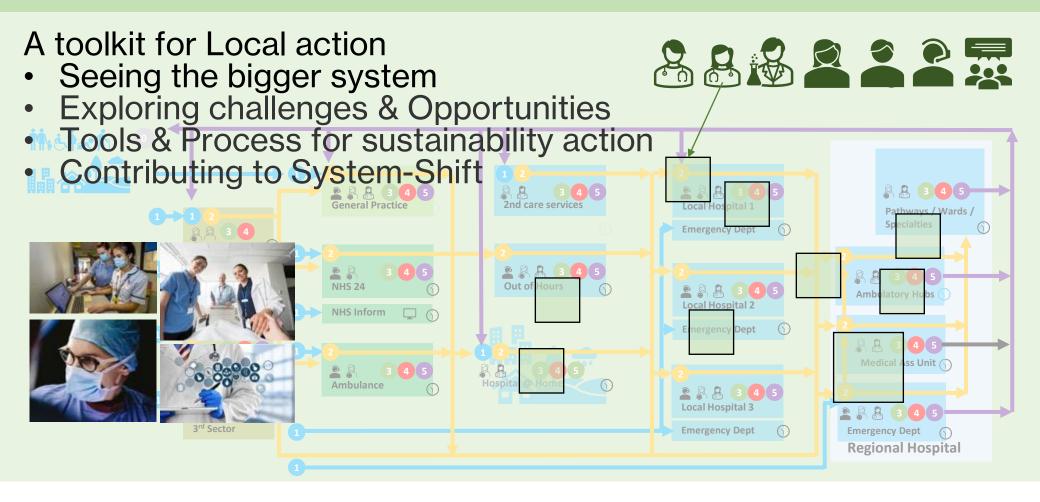






Ø FUTURE OBSERVATORY

## Design Tools to support local action How do you help a 'QI team' go green



# DesignHOPES

Wertay University





Arts and Humanities Research Council (

