	>		>		>		>		>		>		>		>		>		>		>		>		>		>		>
>		>		>		>		>		>		>		>		>		>		>		>		>		>		>	
~																	>												
>		>		>		>		>		>		>		>		>		>		>		>		>		>		>	
	>		>		>		>		>		>		>		>		≫		>		>		>		>		>		>
>		>		>		>		>		>		>		>		>		>		>		>		>		>		>	
	≯		>		>		>		≯		≽		>		>		≫		≯		>		>		≫		>		>
>		>		>		>		>		>		>		>		>		>		>		>		>		>		>	
	>		>		>		>		>		>		>		>		>		>		>		>		>		>		>
>		>		>		>		>		>		>		>		>		>		>		>		>		>		>	
	>		۶		۵		>		>		>		>		≻		>		>		۵		>		8		>		>
>		>		>		>		>		>		*		>		>		>		>		>		۶		>		>	
	3.		5				\$		3		1.16		-		\$		5		5				-		\$				*

CO-DESIGN FOR DIGITAL HEALTH: INSIGHTS FROM CREATING AN OPEN ACCESS COURSE, METHODS LIBRARY, AND PILOT SUPPORT SERVICE FOR THE KING'S HEALTH PARTNERS DIGITAL HEALTH HUB

DR LILI GOLMOHAMMADI, EMELIA DELANEY & LANA SAMUELS



Engineering and IIII III KING'S Physical Sciences Research Council IIIII PARTNERS

Who are we?







Dr Lili Golmohammadi Research Associate

Emelia Delaney Research Associate

Lana Samuels Patient and Public Involvement and Engagement member

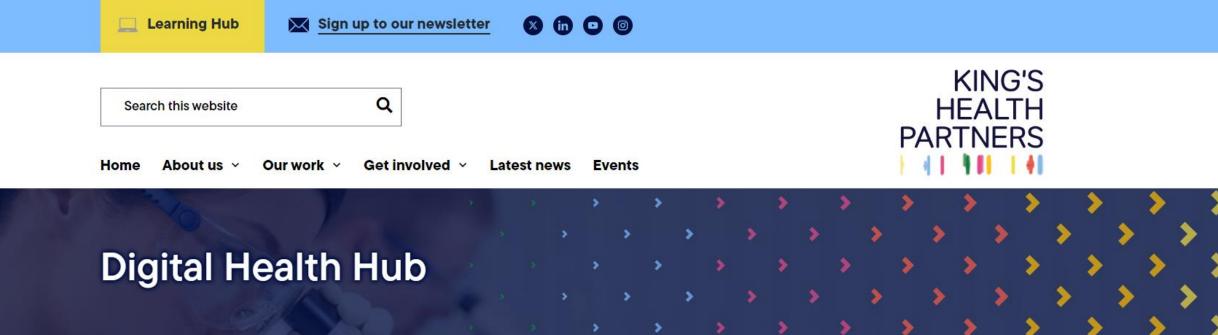


This session at a glance...

- Introduction to the King's Health Partners Digital Health Hub: who we are and what we do
- What is co-design and digital health?
- Our work so far...
- In discussion with one of our Patient and Public Involvement and Engagement (PPIE) members...
- Feedback and questions!



ING'S ING'S ING'N ING I HEALTH



You are here: Home > Our work > Digital health and data sciences > Digital Health Hub

The King's Health Partners Digital Health Hub is an accessible national multi-disciplinary resource made possible by investment from the Engineering and Physical Sciences Research Council (EPSRC).

The Hub supports training, co-creation, translation and the acceleration of digital health technologies.

The Digital Health Hub brings together expertise from across King's Health Partners, including representatives from NHS and social care, patients and the public and industry partners, to provide support, share knowledge, and create opportunities to promote UK digital health.



Co-design team

Patient and Public Advisory Group



Professor Glenn Robert Research Profile

Glenn Robert is Vice Dean (Research & Impact) and Head of Division, Methodologies at King's College London. His research in organisational studies and sociology focuses on healthcare innovation, quality improvement, and coproduction/co-design.



Professor Wei Liu

Wei Liu is a Professor of Design Engineering and Innovation, with extensive teaching. research and leadership experience across design, engineering and management. Wei is also Co-Editor of The Design Journal, the official journal of the European Academy of Design (EAD)



Dr Lili Golmohammadi

Lili Golmohammadi is a Research Associate in digital health co-design at King's College London. She has a multidisciplinary background in design, technology, and social research

Professor Louise Rose

Louise Rose, RN, PhD is a Professor of Critical Care Nursing and Research Division Head at King's College London, UK and an honorary Professor in Critical Care and the Lane Fox Respiratory Unit at St Thomas' Hospital in London. Her research aims to improve outcomes and experiences for mechanically ventilated patients from emergency to home care.



Dr Siobhan O'Connor

Siobhan O'Connor is a Senior Lecturer at King's College London who researches how to codesign digital health technologies with patients to support self-management.



Emelia Delaney

Emelia Delaney is a Research Associate in digital health co-design at King's College London with experience in environmentally sustainable design, design processes, and design management.



Helping DHH projects establish consistent, meaningful patient and public involvement and engagement (PPIE)



II 💵 I 🕴 KING'S **I III PARTNERS**

What is co-design?

Co-design is the process of creating and/or developing a product or service in collaboration with *all* those involved in using and realising that product or service.





What co-design isn't...

- Already deciding what you think the issue or solution is
- Working with people on just one phase of the process (there is not a single 'co-design phase'!)
- Stopping people say "no" (vetoing) an idea





(| \| | | | | KING'S
||\| | | | | HEALTH
|| | | | PARTNERS

Co-designing a digital health technology

Defining 'digital health'

'Digital health' combines digital technologies with health and care. Examples include:



Smartphone apps &

online tools for treating or diagnosing conditions, preventing ill health, or promoting public health

Programmes to analyse data from medical devices (such as scanners, sensors, or monitors)

Implants

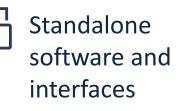




Artificial Intelligence (AI)









What should a codesign for digital health course, methods library, and support service look like?

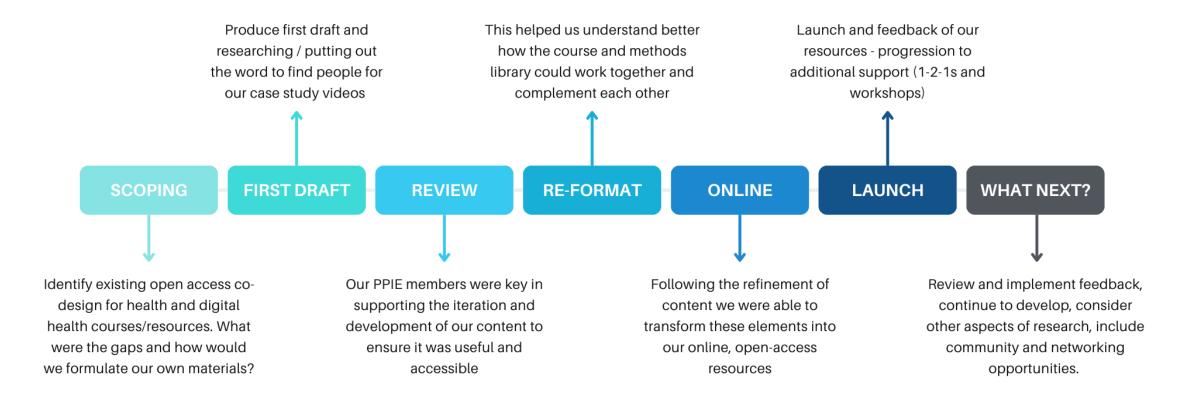


Image by MetsikGarden, on Pixabay



(|) || | +| KING'S
(||) || || || HEALTH
|| HEALTH
|| HEALTH

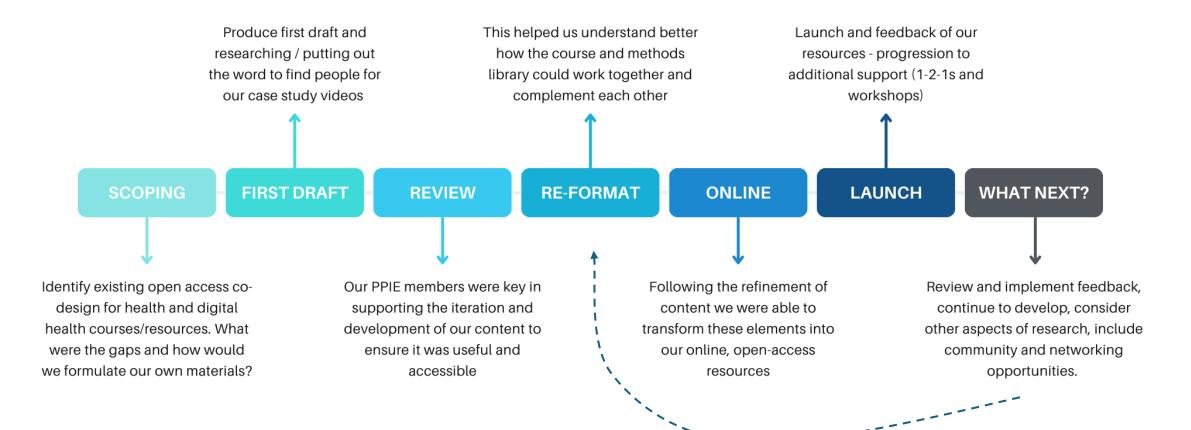
Our journey so far...





(1) | | | | KING'S

Our journey so far...





(1) III III KING'S



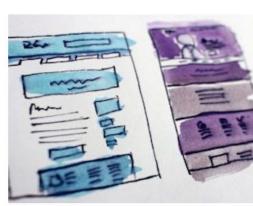
Sign in

Co-design for Digital Health course

Course Overview The 'how to' of co-designing digital health innovations

1 Written by experts

- Introductory
- Open Access
- (100% online (Asynchronous)
- Multiple choice quiz
- 曲 Approx. 3 hours to complete
- Ë Completion certificate



Foundations of Co-Design

What is this section about?

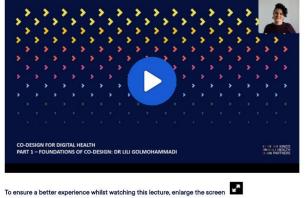
In this session we explore what co-design is, as well as what it is not - and why we should use codesign. We also explore some of the potential challenges and 'tragedies' of co-design, and hear advice for addressing some of these through our case studies.



About this course

Co-design, the process of creating and developing a product or service in collaboration with all those involved in its use - can be a hi way to improve digital health and care, as well as business outcomes.

This 6-part online course offers an introduction to the foundations of co-design, how to get a digital health project started, and the fo 'Double Diamond' - a design framework which will help you structure your co-design process. You will be introduced to a range of coand tools to help you first 'discover' and 'define' a healthcare issue or opportunity that needs addressing, and then 'develop' and 'defin health solution. Case studies featured throughout the course highlight challenges, offer advice, and showcase co-design methods an





This video has an option of enabling and disabling captions

View Section 1 slides



Online Course



Ď

Engineering and Physical Sciences Research Council



Our resources...

Methods Library

Persona Profiles

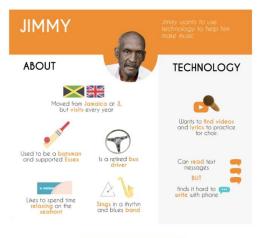
What's involved?

Creating character sketches of (different types of) the people using a product or service, the personas you create will ideally be informed by your earlier research, for example, they may be composites of end users who you have interacted with previously, such as patients or healthcare professionals. Consider factors such as age, gender, education, accessibility criteria, diverse needs, interests, and habits to build a well-rounded persona profile.

Why use this?

Persona Profiles can be a great method to imagine and remind yourself of your intended end user. When you and your participants start to develop your digital health product or service, you can then refer to your persona profiles to ensure your end user remains central to your development process – for example at key decision points you can ask yourself questions about what your persona might do or think in each situation.







What's involved?

A visual representation of a service user's journey through a product / service over time, showing all the different interactions they have.



Why use this?

It allows you to see what parts of the product / service works for service users ('magic moments') and what parts might need improving ('pain points').

How is this done?

- Identify all the key points you know about your user(s). What is it that motivates them? What do they
 want to achieve and why?
- · Identify the key elements of a process / product / service / experience / system.
- Map their journey from the start to end. Consider all the touch points, including those 'front' and 'back' stages.
- · Understand the links between all the different elements over time.
- Identify issues and needs in a service or areas where new things can be added.
- Once you have completed this, cluster which aspects you think are essential and group them into
 key themes and insights.







(|) | | | KING'S || | | | | | | HEALTH | | | | | PARTNERS

Our resources...

Case Study Videos

Case study: Identifying issues and opportunities



Isabel Van De Keere Healthcare Technology Entrepreneur & Consultant

> KING'S HEALTH PARTNERS

Case study: co-creating personas to support a create writing app for people with aphasia



Dr Timothy Neate Lecturer in Computer Science, King's College London

Participatory analysis from a PPI perspective



Lana Samuels

PPI member & service user researcher King's College London

HEALTH





I IN IF KING'S I I I I I HEALTH I I PARTNERS

Our support service...

Workshops and 1-2-1s













Workshops







HEALTH

Our workshops...

Planning and Facilitating Design Workshops









HING'S HEALTH

Our workshops...

3D Prototyping













In conversation with one of our Patient and Public Involvement and Engagement members...



(I III III III KING'S
IIIII IIII IIII IIIII HEALTH
IIIIII PARTNERS

Feedback & Questions?

