Improving the sharing of informal and actionable knowledge for better care

The Faculty of Clinical Informatics (FCI) is leading a **Knowledge Sharing workstream** within the Health Data Research UK (HDR UK) Better Care Programme.

The Better Care programme is about building and scaling data-driven learning healthcare systems (LHSs) across the UK and the **Knowledge Sharing workstream** aims to facilitate a sustainable process for communication and knowledge sharing across the Better Care community.

The workstream is part of the Better Care Catalyst Programme and is co-funded by HDR UK in partnership with the Health Foundation. The Better Care Catalyst Programme supports the development of health analytics and data science improvements that can be implemented across the health and care system to benefit patients, the workforce and the public.

The FCI is conducting this work in line with the aims of the UK Mobilising Computable Biomedical Knowledge (MCBK) working group.

Workstream aims
The overall aim of the workstream is to facilitate a sustainable process for communication and knowledge sharing across the Better Care community.

Background
HDR UK's Better Care programme aims to improve people's lives by equipping clinicians and patients in the UK with the best possible data-based information to make decisions about their care, following the LHS model.

The programme's vision is that by 2030, patients across the UK will benefit from healthcare decisions informed by LHSs with large scale data and advanced analytics to identify what will work best for them.
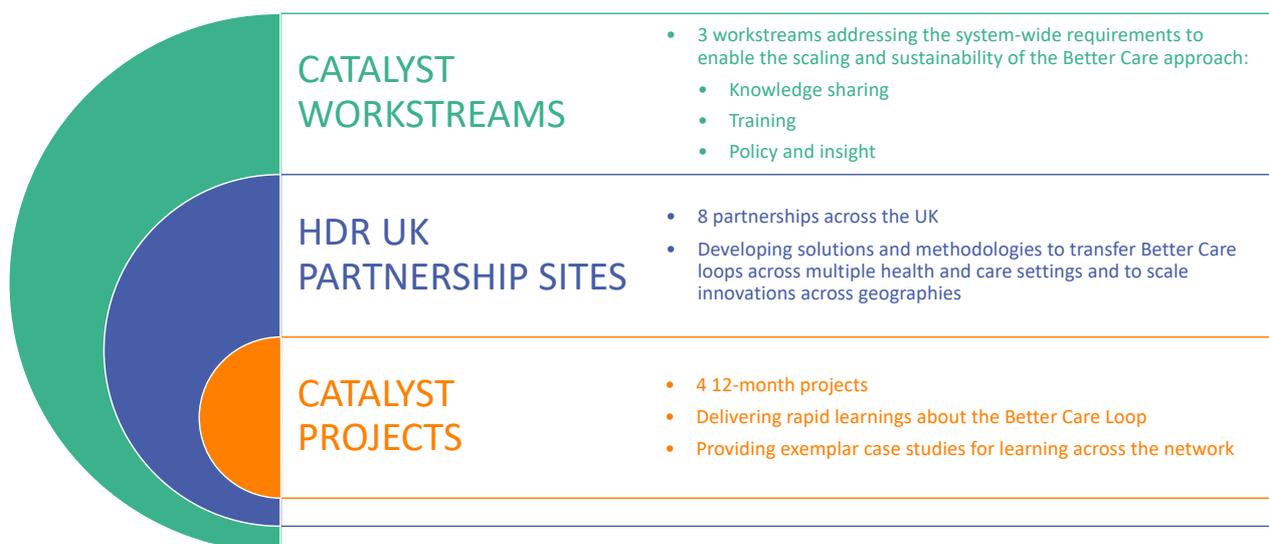
The Better Care Catalyst Programme aims to:
- support research
- stimulate exemplar projects
- undertake engagement activities
- work with others to equip clinicians and patients with the insight and knowledge needed to improve care and achieve better outcomes for patients, the wider public, and the health and care system

This includes four 12-month Catalyst projects that launched in May 2020 that will deliver rapid learnings that integrate clinical practice, large scale data and advanced analytics in continuous improvement cycles.

The Catalyst Programme also includes workstreams designed to support the broader Better Care network, providing tools and skills to allow effective implementation of Better Care projects and dissemination of outputs. The FCI is leading the Knowledge Sharing workstream to improve knowledge sharing amongst the different communities and disciplines involved in developing and implementing LHSs in the UK.

See below for a summary of the Better Care Programme structure:

Ongoing activities: An integrated Better Care Programme

CATALYST WORKSTREAMS	• 3 workstreams addressing the system-wide requirements to enable the scaling and sustainability of the Better Care approach: • Knowledge sharing • Training • Policy and insight
HDR UK PARTNERSHIP SITES	• 8 partnerships across the UK • Developing solutions and methodologies to transfer Better Care loops across multiple health and care settings and to scale innovations across geographies
CATALYST PROJECTS	• 4 12-month projects • Delivering rapid learnings about the Better Care Loop • Providing exemplar case studies for learning across the network

Workstream approach

Understanding user knowledge and learning needs

Members of the Better Care community will be asked to complete an online survey to identify the types of knowledge members currently share and would like to share more, methods of sharing, and how they could be supported to promote further knowledge sharing for the benefit of patients.

The survey will be followed by **video interviews** with selected project staff. Interviews will explore challenges which staff face developing and implementing the Better Care approach and how staff currently tackle these; as well as exploring alternative problem-solving scenarios.
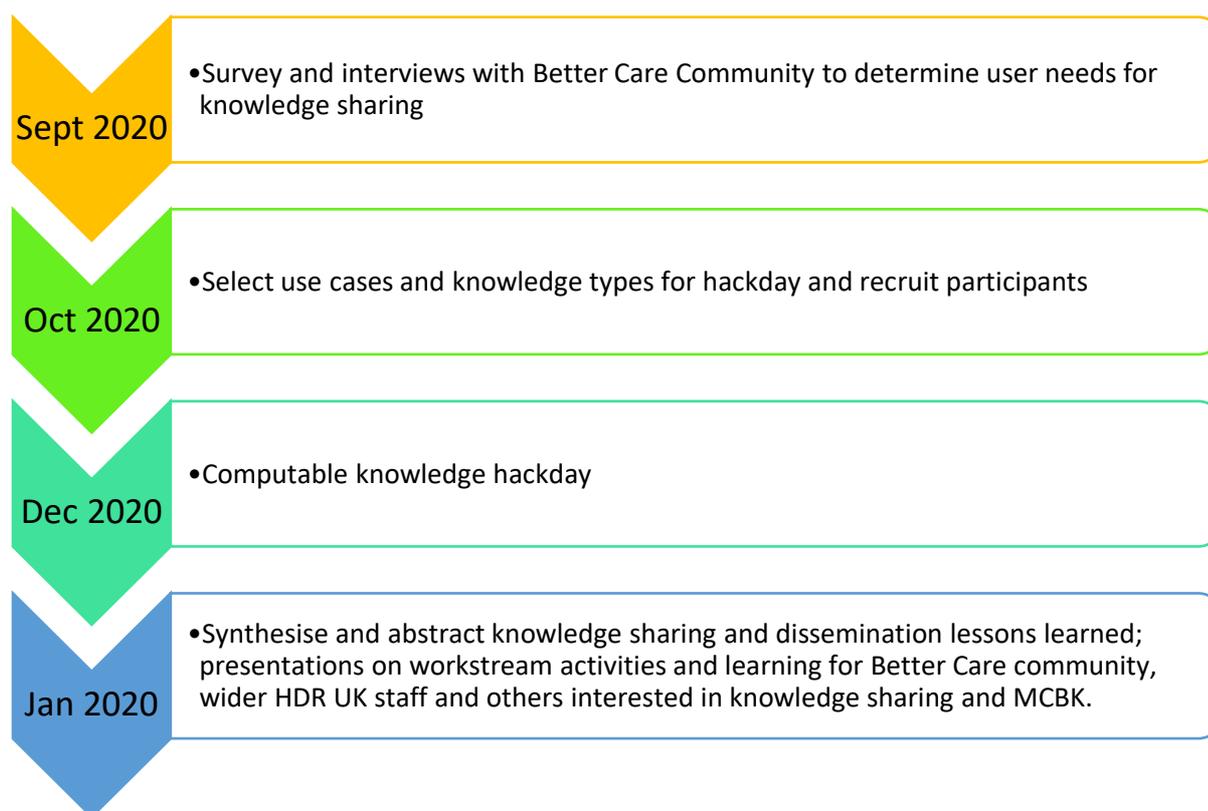
Results of the survey and interviews will lead to recommendations of how the Better Care community can improve its knowledge sharing for the benefit of patients, the workforce and the public.

Mapping the clinical knowledge to be captured from Better Care

We will identify potential computable knowledge objects within Better Care projects that could be linked with the HDR UK Data Research Innovation Gateway and relevant taxonomies including any already in use.

A virtual computable knowledge **hackday** will be convened, bringing together developers of computable knowledge objects from across the Better Care programme and broader organisations such as NICE and commercial suppliers. Participants will work in groups to make prototype software to help with clinical decisions. Some groups will work on taking knowledge from a digital library and running it on patient or population data. Other groups will work on making knowledge objects for the library, based on research findings or published guidance. The aims of the hackday are to raise awareness of the need for computable knowledge to achieve large-scale LHSs and to explore the value of a collaborative UK community of computable knowledge designers and implementers who can work in a commercially neutral space.

Timeline

Sept 2020
- Survey and interviews with Better Care Community to determine user needs for knowledge sharing

Oct 2020
- Select use cases and knowledge types for hackday and recruit participants

Dec 2020
- Computable knowledge hackday

Jan 2020
- Synthesise and abstract knowledge sharing and dissemination lessons learned; presentations on workstream activities and learning for Better Care community, wider HDR UK staff and others interested in knowledge sharing and MCBK.

Project Team

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