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WHAT IF scheduling domiciliary care could be easier and better matched to the needs of people living with dementia?

Personalising Domiciliary Dementia Care via Co-Designed Computational Matching: A Study Protocol

PERSONALISING DOMICILIARY DEMENTIA CARE

Poyner, C., Grey, E., Breheny, K., Lourida, I., Soria, D. & Mikelyte, R.

WHAT is this project about?

The aim of this project is to improve dementia care in the home by designing a digital platform that:

- Matches the preferences of people living with dementia, their family/friend supporters and care workers
- Enables 'live', needs-informed rostering (the process of creating schedules for care workers and clients)

WHY is this project needed?

It is the desire of the majority of people living with dementia (PLwD) to remain living in their own homes. This desire is reflected in UK policy directives, stating that PLwD should be supported to remain living in their own homes (Department of Health, 2009).

Supporting a PLwD in their own home can be challenging for care partners. Family/friend carers have been shown to have high levels of care related of stress, depression, and anxiety (Lindeza et al, 2020).

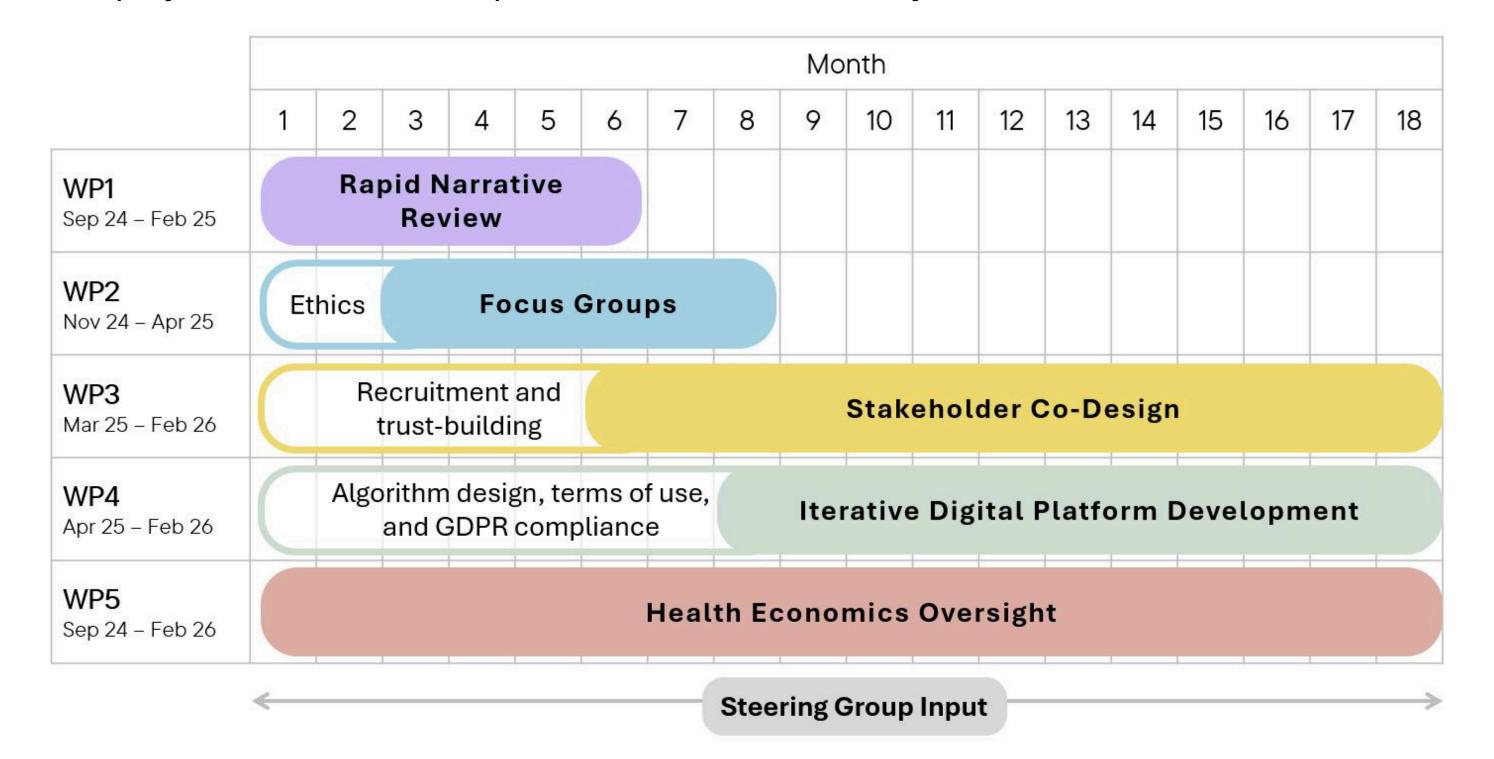
Providing care for people living with dementia at home can be challenging due to high levels of stress, burnout, and frequent staff changes among domiciliary care workers (Fleming & Taylor, 2007). Retention in the home care sector remains a challenge for employers, with average turnover rates of 32.6% (Low Pay Comission, 2012). Issues related to poor staff outcomes include: lone homecare workers, varied hours, complex work, poor integration across health and social care services, funding, and poor levels of pay (Skills for Care, 2014).

Domiciliary carers have been shown to have more job satisfaction and better outcomes when they have a sense of flexibility within their working lives, and a knowledge that their care was having a positive impact on the lives of PLwD (Donnellan et al, 2022).

Research shows that matching care worker skills and characteristics to the specific needs and preferences of people living with dementia and their families/friends can improve care (Dawson et al, 2015).

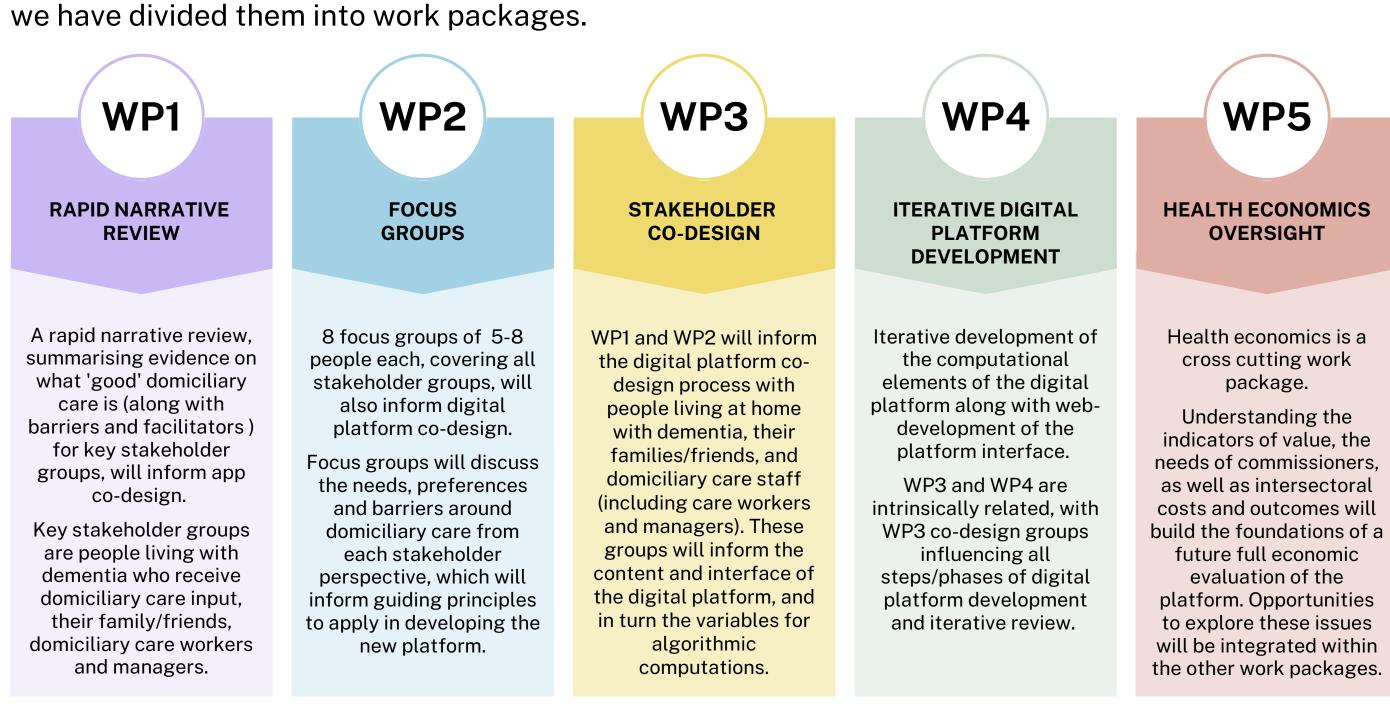
WHEN will we carry out the project?

The project has started in September 2024 and will carry on for 18 months.



HOW will we carry out the project?

There are a number of steps that we need to complete to develop a prototype of the digital platform;



WHO is working on the project?

The core team members are listed below. We will soon have research assistants and interns working on the project, as well as external software engineers. We will not be developing this new matching platform on our own. Co-design groups of people living with dementia, carers/supporters of people with dementia, frontline domiciliary care workers and domiciliary care managers will define what the platform does and what it looks like. We will also be supported by a project steering group, consisting of individuals from the above groups, as well as wider stakeholders.



Dr Chris Poyner



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Dr Katie Breheny Work Package 5 Lead ARC West, University of Bristol

WHAT will be the end result?

At the end of the project we will have a co-designed prototype of a new digital platform. We will then seek further funding to test the prototype out with domiciliary care agencies and research if/how the new platform benefits people living with dementia, their families/friends, and care workers.















