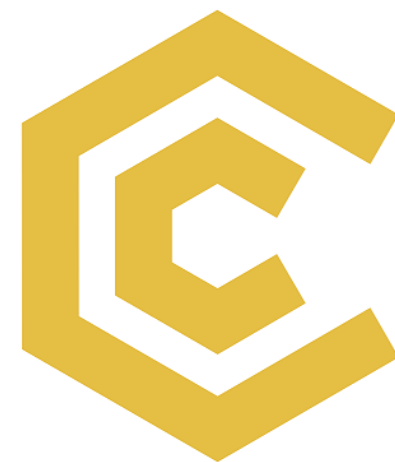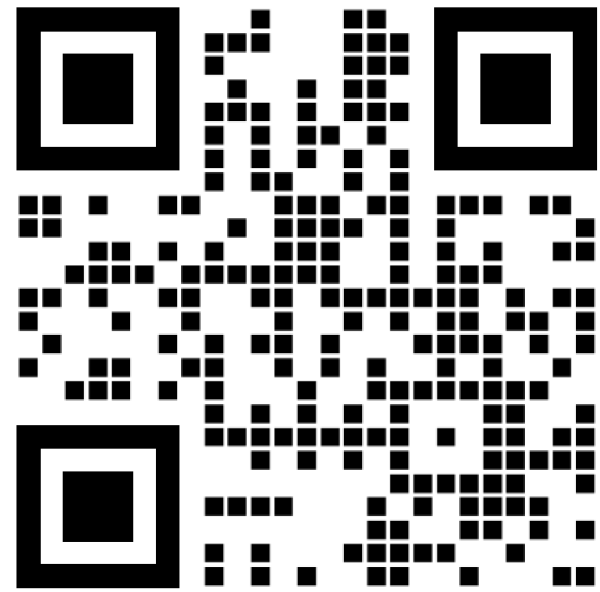# CELTIC-NEXT
Pitch of
the Project Proposal

18th April 2024, London

BEACON: Network-Assisted Highly Interactive Spatial Computing Technology for Healthcare
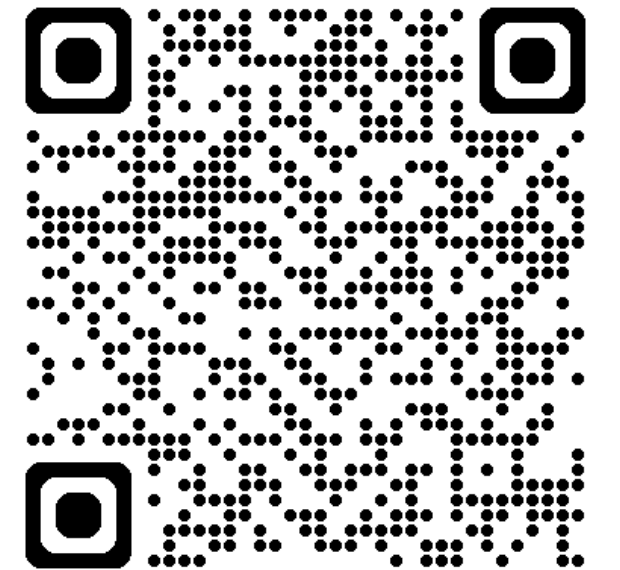
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CaringOS®
Care with Humanity

Dr Erica Yang, Head of Research, Chilton Computing Ltd, UK
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Teaser

Purpose: *Making spatial computing work for highly interactive digital healthcare applications*

Main benefit: *allowing interactive and real-time responses that are capable to support complex care needs for people with long-term health conditions remotely*

What makes the added value? – (ultimately) *it is about demonstrating the feasibility of spatial computing for supporting complex collaborations betweeen carers, patients, remote healthcare professionals, through* **leveraging**

1. **Advanced network assistance, such as on-demand high-throughput streaming, and**
2. **Its integration with AI and AR technologies in the real-world context**

Why should I participate in the project? *– part of a pioneering team developing nex foundation for real-world digital healthcare applications*

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Organisation Profile

1. **Staff track record** (UK and international)
   - **Coordinator** of an ongoing CELTIC-Next project (€4.6 million)
   - **Experts** in what we do! Highly experienced in collaborative R&D projects: key roles in **numerous European and national projects**
   - **Deep tech expertise** across domains, AI & technology, next-gen networks
   - Extensive long careers with **Oxford University, UK National Lab …**
2. **Expert project management** – supported by professional project managers, with proven ability to deliver large-scale collaborative R&D
3. **Great healthcare ecosystem** – you will be working with a strong network of UK and European HealthTech partners
4. **Emphasis on commercialisation** – with a clear value proposit… eHealth stakeholders
5. **A great company** to work with!

Personal experience:
Expert evaluator for the EC Horizon2020
Expert speaker for UKRI Brussels
Expert panel member for UKRI
Expert group member, UK automotive council
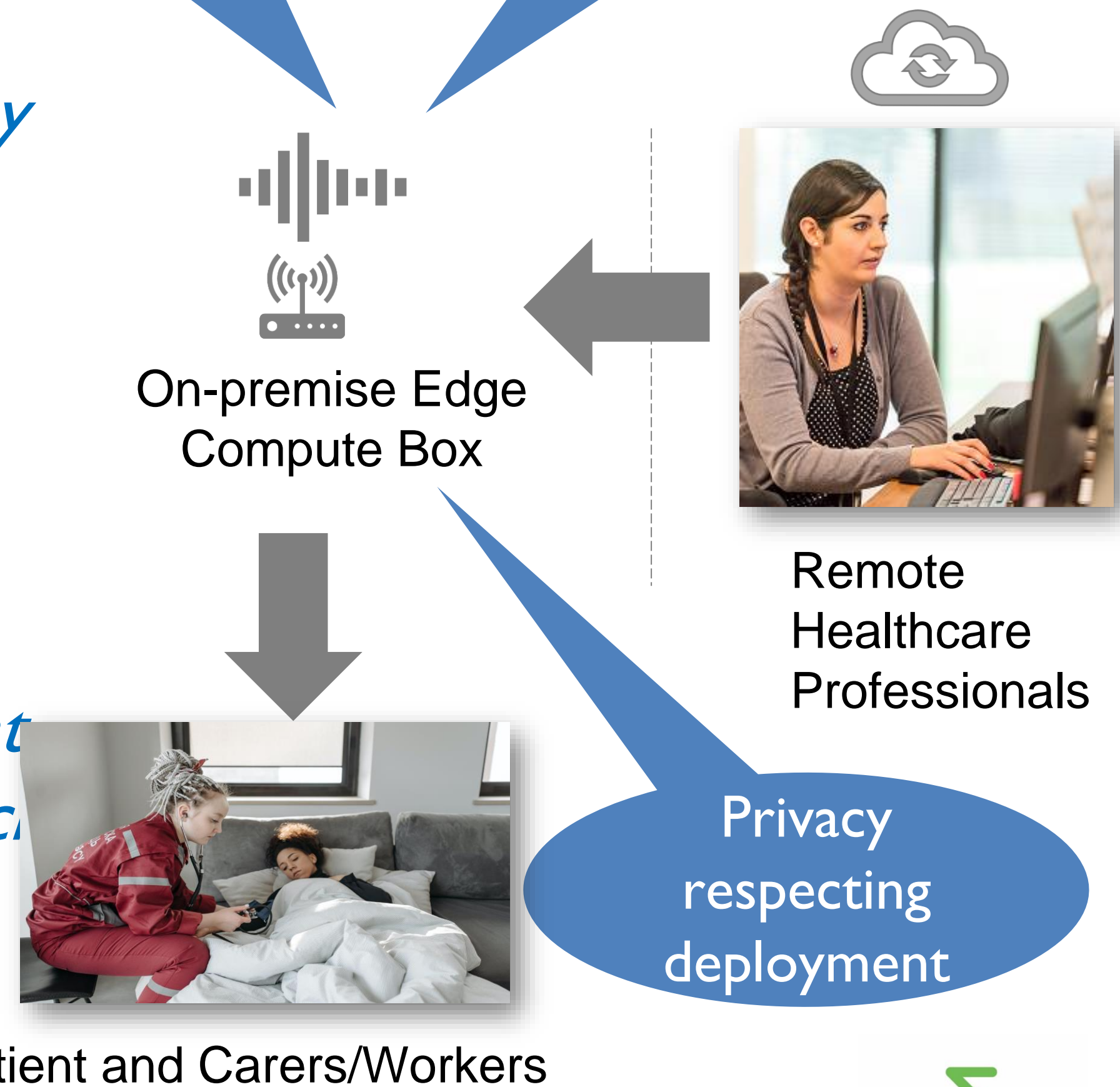
Proposal Introduction

Motivation: *the current remote healthcare support is basic, limited primarily to remote video consultation. Many patients struggle to contextualise what needs to be done on a day-to-day basis, resulting in, unfortunately, avoidable, hospital admissions. Changing this demands technology breakthroughs brought by spatial computing.*

Vision: *every carer and patient can enjoy personalised and quality healthcare support anywhere in the world, powered by network-assisted AI-powered spatial computing technology, that can provide real-time, meaningful, and ease-to-interpret feedback critical to the health management of a patient, regardless of where they are.*

on-screen, goggles - real time and interactive visual and voice guidance
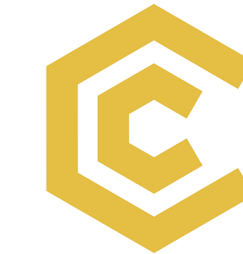
Real-time joint-up medical information delivery

On-premise Edge Compute Box

Remote Healthcare Professionals

Privacy respecting deployment

Patient and Carers/Workers

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Proposal Introduction

Expected outputs/outcomes:

- **WP1 – requirement and architecture:** *network-assisted content-aware spatial computing architecture*
- **WP2 & WP3 - Technology stacks:** *network APIs and spatial computing tech development*
- **WP4 – PoC demonstrators:** *A range of validated digital health PoC demonstrators, typically one per nation, and one international joint-up application for cross-border use case*
- **WP5 – CDE:** *A CDE framework to maximising the impact, commercially, technologically, and partnerships*
- **WP6 – Project management:** *aiming for a successful delivery nationally and internationally*

Impacts (post-project)

- *Contributions to spatial computing related global standards/initiatives*
- *Commercial European/Global value chain partnerships, including eHealth, AI and AR community*

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Partners

Existing consortium, involved countries: *UK, Turkey*
Expertise, profiles and types of partners we are looking for:

① **Hospitals, clinics and care providers** who have existing capability to trial the PoC tech, developing clinical/medical relevant use cases and requirements and contributing to evaluation

② **AI + AR application developers** in digital health with existing commercial tractions in remote healthcare monitoring

③ **IoT developers and digital health app developers** with innovative tech for remote patient and health monitoring applications

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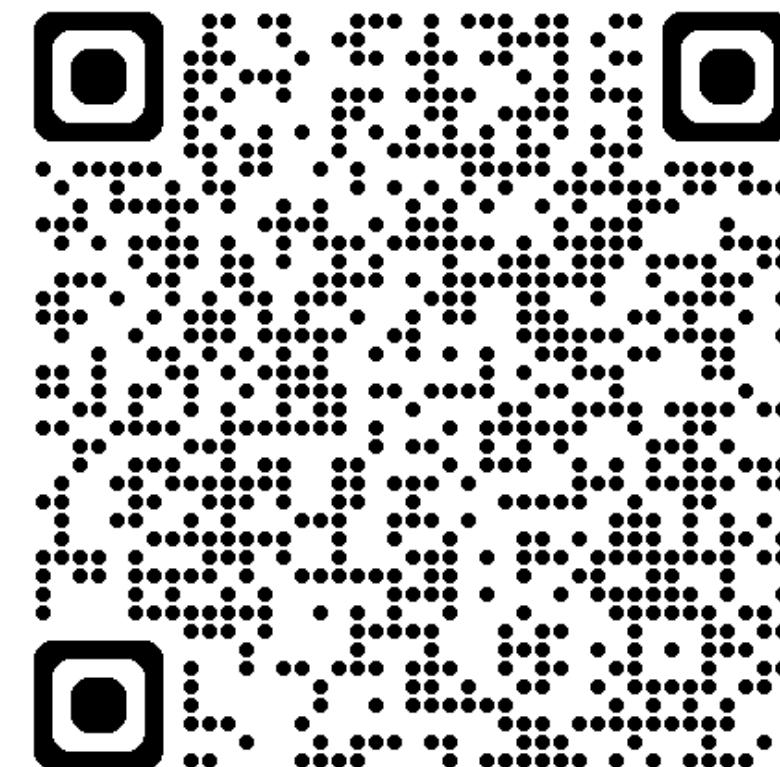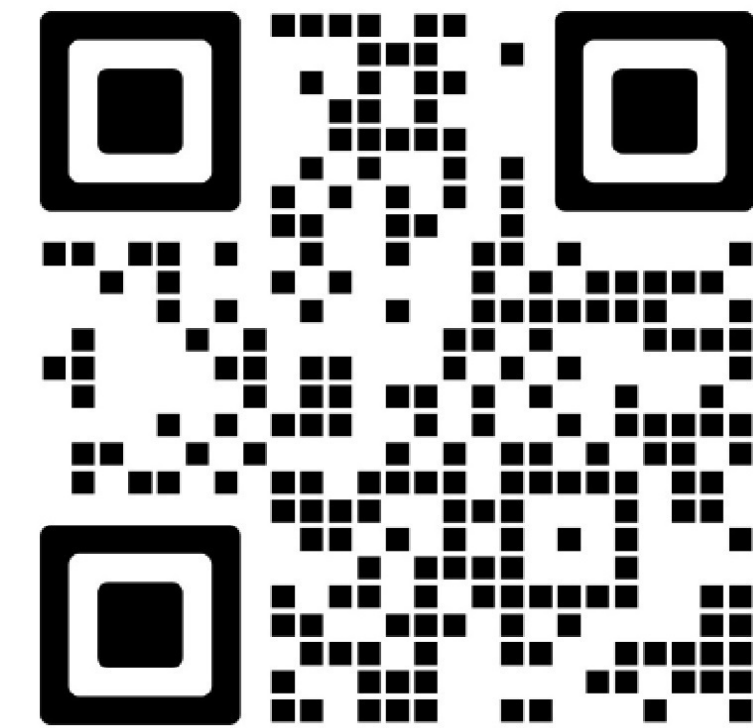6

Contact me!

For more information and an expression of interest

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Quarry Rd,
Oxford OX3 8SB,
UK

Presentation available at:

Erica Yang
Chilton Computing | AI for Digital Twins

Join the Consortium Building Session Monday 23rd at 10 CET

[Join meeting](#)

Join by meeting number
Meeting number (access code): 2744 998 1092
Meeting password: Jv37DkFpv4Y