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Horizon 2020
Work Programme
for Research & Innovation
2018-2020

SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption, CSA

eHealth, Well-being and Ageing UNIT
DG CONNECT

Conference on Innovation Procurement,
17-18 October 2017, Tallin Estonia

Jaakko Aarnio

Research and Innovation

SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption

Challenge

- Health and care **service providers and users increasingly** facing **complex decisions** when exploring and investing in new health and care solutions.

- need to **support cross-border cooperation**

- **balance innovation risks** with improved outcomes and related unmet needs

- need for implementing high quality **policies, strategies and practises in a concerted manner**

- for more confidence in addressing **key areas of interventions**

- need to facilitate an **appropriate dialogue** with the supply side and academic stakeholders

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SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption

Scope

- Create **favourable framework conditions** for cross-border Communities of Practice (CoP)

- **Assist the health & care research and innovation ecosystems in taking investment decisions** on future procurement of research and innovation and, eventually, on (large scale) deployment of eHealth systems and new care delivery models.

- **Improve the maturity of the new products** emerging from Europe's leading Health ICT SMEs

- **Support for management of risk and diverging expectations** in innovation chain

- **consumer health** interlinked with institutional health and care

- **findings in earlier co-ordination and support actions** for procurers as listed in WP

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SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption

Scope, cont...

Some definitions and taxonomy <u>in simplistic terms</u>:

Key Performance Areas (KPAs) – in health and care services

- **Value proposition** – quality of health and care (clinical evidence,TRL)
- **Operational excellence** – sustainability
- **Economic value** – savings and profit

Open Innovation 2 (OI2)

- Open **dialogue between multiple actor types (user, service provider, supplier and academia)**;
- **Optimising multiple KPAs in market consultation** and knowledge brokerage settings between the actor types
- **Managing expectations and risks** of highly theme and actor specific Key Performance Indicators (KPIs) under the three KPA categories

Collaborative innovation

- Same as OI2 but less actors may be involved

Collaborative research

- Mostly **focus on Value proposition category** (Proof-of-concept**)**
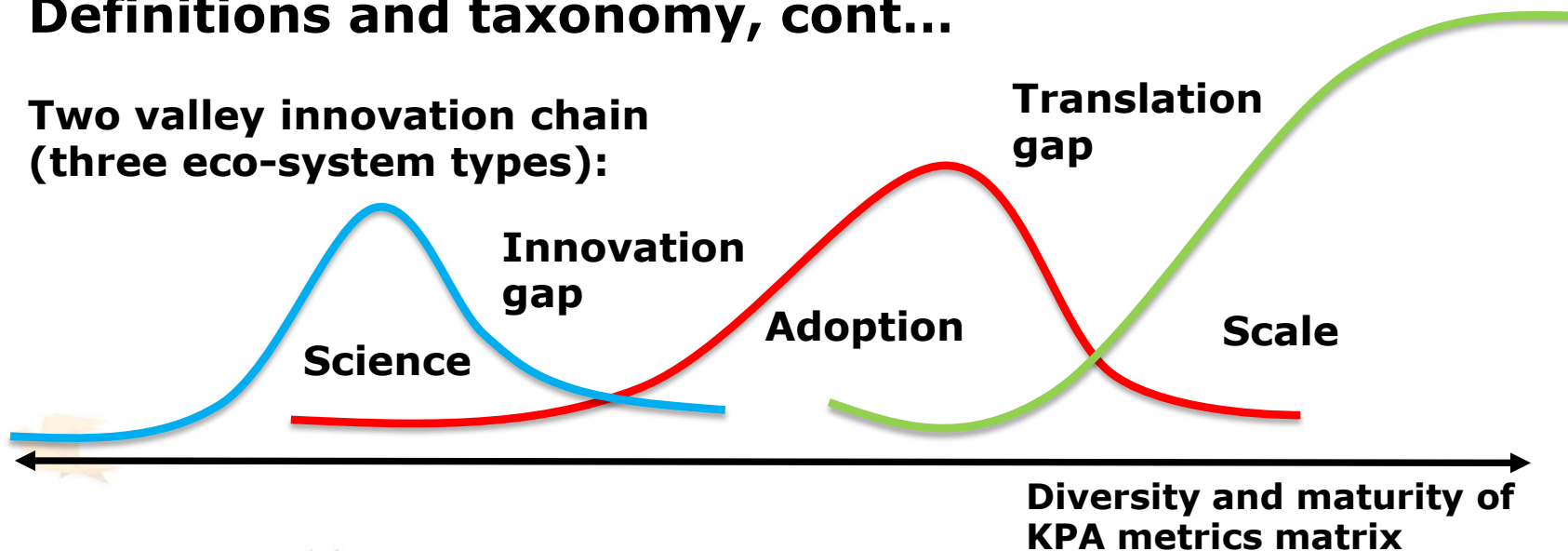- **One directional exploitation** model

Cont...

<u>Scope, cont...</u>

Definitions and taxonomy, cont...

Two valley innovation chain (three eco-system types):

Innovation gap

Translation gap

Science

Adoption

Scale

Diversity and maturity of KPA metrics matrix

Collaborative Innovation and OI2 principles

Basic science solid and proven

Collaborative research

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SC1-HCC-04-2018 cont…

Scope, cont…

Parallel activities building up on the competences and capacities of the network

(1) Framework for thematic Communities of Practice in digital health and care services: <u>user driven</u> cross-sectoral growth strategy; integrating data strategy; linking research institutions and university hospitals; education; building upon national initiatives; repositories of methodologies

Development of Key Areas of Interventions

(3) Prepare at least one cross border PCP

(2) Tailored assistance to support sustainable adoption

PCP

PPI

Other?

Innovation support in H2020

Open

Open/ closed

Market consultation

Knowledge management

Submission of proposal

Collaborative innovation and OI2

Diversity and maturity of KPA metrics matrix

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SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption

Expected Impact

- **Concerted approach** and solutions **to the challenges faced by the health and care ecosystems as perceived by service providers and users** in EU

- **Well addressed unmet needs, reduced fragmentation**

- **Evidences of support** and collaboration with consortia developing unmet needs for innovation procurement and **implementation aspects beyond the innovation procurement** procedures

- **Concrete preparation of a cross-border PCP** for at least one shared common procurement need

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SC1-HCC-04-2018 Digital health and care services – support for strategy and (early) adoption

Deadline, Budgets, Thresholds

- Submission Deadline : <mark>24 Apr 2018</mark> at 17:00:00 (Brussels local time, <mark>check from final version of WP</mark>)

- Total Call Budgets:

    - CSA

    - 3 million € (EC contribution: maximum **100% of the total eligible costs**)

- Cumulative threshold: 10 (3/3/3)

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SC1-DTH-10-2019-2020 Digital health and care services (PCP)

eHealth, Well-being and Ageing UNIT DG CONNECT

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Jaakko Aarnio

Research and Innovation

SC1-DTH-10-2019 Digital health and care services (PCP)

Challenge

- **pressure on governments** to provide **cost-effective health and care systems** by improving utilisation of **healthcare and health outcomes**

- **network, lead and facilitate health systems research,** innovation and digitisation in view of **addressing key areas of interventions in health and care services** including health promotion and disease prevention.

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SC1-DTH-10-2019 Digital health and care services (PCP)

Scope

- Support the health and care **service provider to procure industrial R&D services**

- Testing and implementation of digital services and communication concepts that can facilitate **the transition to integrated care models across health and social services**

- **Key areas** that could be addressed: **patient empowerment, self-management, patient safety, patient involvement, chronic disease management, diagnosing, hospital and home care logistics, skills and independent living**

- Country-specific cross-institutional set-ups

- Includes decentralised procurement environments and collaboration across institutions

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SC1-DTH-10-2019 Digital health and care services (PCP)

Scope, cont...

- **Driven by clearly identified user needs**

- Demonstrate strong commitment of **end-users**

- As applicable contribute to the use of **interoperable** solutions

- Compliance with **ethical** standards and **privacy** protection

- Include robust time-lines, a well-structured work-plan, **compliance with procedures**

- Implications for **training**

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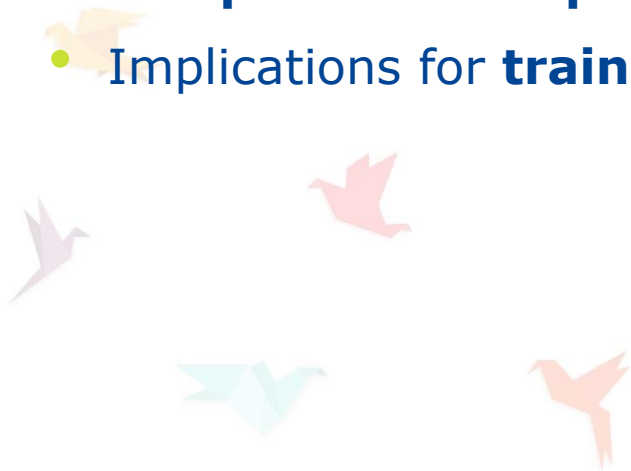
SC1-DTH-10-2019 Digital health and care services (PCP)

Expected Impact

- **Evidences in Key Performance Areas** i.e., quality in health and care, sustainability of the delivery system and economic value

- Improved **user and market engagement**

- **Strengthened procurement community**

- **Evidence of benefits of disruptive technologies**

- Increased opportunities for solution uptake across **wider international procurement markets by aiming at interoperable solutions**

- Evidence of a healthy innovation ecosystem

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SC1-DTH-10-2019 Digital health and care services (PCP)

Deadline, Budgets, Thresholds

- Submission **Deadline: 14 Nov 2018** at 17:00 (Brussels local time, double check from final version)*

- Total Call Budgets:

  - 22 million € (EC contribution: maximum **90% of the total eligible costs**)

  - proposals requesting a contribution from the EU of around **€5-6M would allow this specific challenge to be addressed appropriately**. Nonetheless, this does not preclude submission and selection of proposals **requesting other amounts**.

  - Proposals of this topic should follow the specific requirements for pre-commercial procurement (PCP) supported by Horizon 2020 grants as set out in Annex E of the WP

  - Cumulative threshold: 10 (3/3/3)

* Note! Deadline 2018 albeit allocated from 2019 budget.

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SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society

Challenge

- An ageing population is **increasing demand-side pressures** on public health and social care providers across Europe.

- Pressures **undermine the long-term sustainability** of existing models for delivering care services to the ageing population.

- Digital solutions which have been tested and have demonstrated success in smaller scale settings… BUT… **large-scale deployment** across EU borders remains limited

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SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society

Scope

- Contribute to:

  - the **Digital Single Market Strategy** *priorities on digital transformation of health and care (notably to the priority on user-centred integrated care),*

  - the **Scaling-Up Strategy of the European Innovation Partnership on Active and Healthy Ageing** *(EIP on AHA) on user-centred integrated care*

- Target **large-scale deployment of integrated digital health and social care solutions** across different regions in Europe.

- **Specify, purchase and deploy ICT based** <u>**solutions**</u> (made up of services and ICT products to enable the provision of services) for active and healthy ageing

- Through a **common supply and demand side dialogue**, which can deliver sustainable, new or improved health and social care services promoting patient feedback in which public procurement approaches for innovative solutions lead to improved outcomes.

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SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society

Scope, cont...

- Be driven by *clearly identified procurement needs* of the participating organisations and building on a deep understanding of the needs of the ageing population, as well as the needs of the relevant health and care providers;

- Support *sustainable deployment of new or improved person-centred and outcome-based services* promoting patient feedback by providers involved in the procurement of solutions for digital health and care providers;

- Specify measures that will ensure the *sustainability of solutions beyond the lifespan of the proposed project*

- Engage *public (and eventually private) procurers* from each country participating (at national, regional or local level) that have responsibilities and budget control in the relevant area of care or supply of services;

- Be based on a *complete set of common specifications for end to end services*;

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Scope, cont…

- Demonstrate that the **implementation phase will reach "large scale"** (i.e. sufficient scale to achieve statistical significance) through region-wide deployment across multiple regions of Europe;

- Contribute to the **use of interoperable solutions based on open platforms** and take into account existing best practices and standardisation initiatives;

- Provide **robust safeguards to ensure compliance with ethical standards and privacy protections** and take account of the gender dimension;

- Contribute with good outcome-based practices that are impact measured according to the **MAFEIP methodology** and can be made available for replication across other regions through the EIP on AHA innovative practices repository.

- Contribute to the **development of national strategies** to stimulate the procurement of digital innovation for health and care services based on the outcomes achieved at national level.

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Expected Impact

- **Growing awareness and successful use of public procurement** to boost ICT innovation applied to integrated care and active and healthy ageing, implemented across the whole chain of care ultimately benefiting the growing ageing population across Europe;

- **Contribution with data and experiences to regulatory and legislative process** development addressing potential barriers to procurement of innovative solutions for active and healthy ageing;

- Contribution of an **open and comprehensive socio-economic evidence base for ICT investments** in the field that can support the development of sustainable business models (e.g. cost-benefit analysis, increased efficiency of health and care systems, impact assessments, return on investments, quality of life improvements for users, ethics, safety gain and user satisfaction);

- Support initiatives on **interoperability and standardisation** that can contribute to defragmentation of the market for ICT based active and healthy ageing solutions;

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Expected Impact

- Creation of economic boundary conditions that can support **long-term sustainability of health and care systems and emergence of new business models** to develop ICT innovation for active and healthy ageing in Europe;

- Support forward-looking, **concerted public-sector investment strategies** that benefit from joint approaches across different regions;

- Create **new opportunities for market uptake** and economies of scale for the supply side for ICT based solutions and services for active and healthy ageing in a Digital Single Market for Europe.

- Contribute to **inform policy measures** that foster the take-up of ICT solutions for active and healthy ageing.

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SC1-DTH-05-2019: Large scale implementation of digital innovation for health and care in an ageing society

Deadline, Budgets, Thresholds

- Submission Deadline: 24 Apr 2019 at 17:00:00 (Brussels local time, double check from final version)

- Total Call Budgets:

- Proposals requesting a contribution from the EU of **between EUR 2 and 5 million** would allow this specific challenge to be addressed appropriately through PPI. This does not preclude submission and selection of proposals requesting other amounts.

- Proposals of this topic should follow the specific requirements for innovation procurement PPI supported by Horizon 2020 grants as set out in Annex E of the WP.

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SC1 - other topics related to adoption and scale in Digital health and care 2018-2020

Other topics related to Adoption and Scale

- SC1-DTH-11-2019: Large Scale pilots of personalised & outcome based integrated care (Innovation Action)

- DT-TDS-01-2019: Smart and healthy living at home (Focus Area Pilot)

- SC1-HCC-05-2018: Support to a Digital Health and Care Innovation initiative in the context of Digital Single Market strategy (Co-ordination and support Action)

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Thank you!

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