# Comprehensive Treatment of Chronic Patients in Rural Areas

## H22 – City expo

# Consortium

**Seven partners** from **four European countries** and **three rural regions** with high levels of people over 65 and a common and urgent need for health and care innovation.

LINDESNES

KRISTIANSAND

GRIMSTAD

ARENDAL

STORUMAN

VILHELMINA

SPAIN – EXTREMADURA

NORWAY – AGDER

SWEDEN – VÄSTERBOTTEN

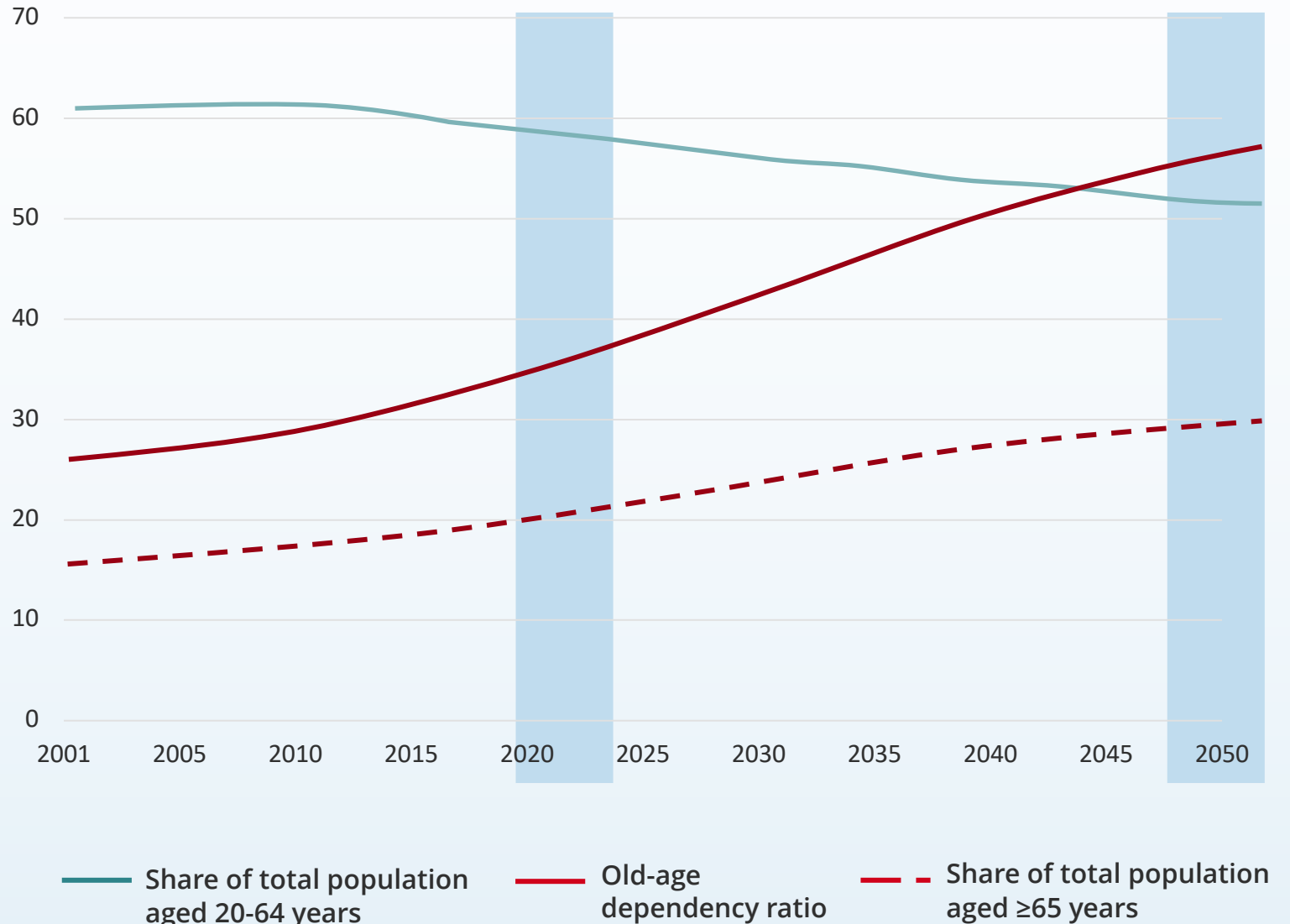VILLANUEVA DE LA VERA

JARANDILLA DE LA VERA

# CRANE - project introduction

# Problem

**The European population is ageing fast**

By 2050, **30%** of the population will be aged 65 years or older compared to **20%** in 2020

## Population structure indicators, EU-27, 2001-2050



Legend:
- Share of total population aged 20-64 years
- Old-age dependency ratio
- Share of total population aged ≥65 years

Additionally, more than 30% of Europeans over 65 lives alone
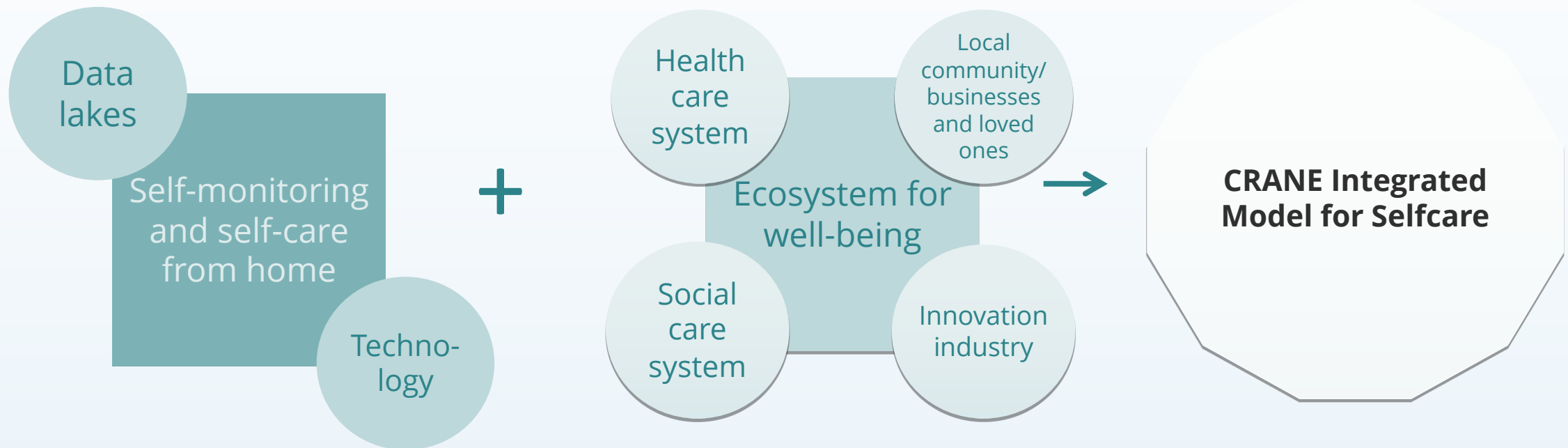
# Target patients



cardiovascular diseases
(CVDs)



chronic obstructive
pulmonary disease (COPD)



diabetes
(type 1 and 2)

# CRANE building blocks

CRANE
Building blocks

DATA GOVERNANCE

PEOPLE MATTER

GARDEN FOR CARE

TREND TECHNOLOGIES

VALUE-BASED MODEL

# How to do it

**DATA GOVERNANCE**
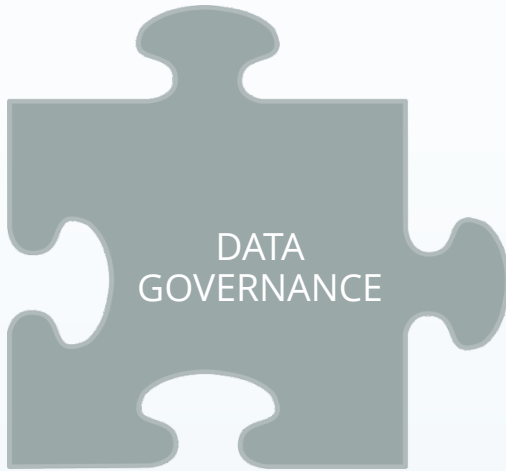
**1** Using public and specific data from patients to their own benefit

Public data

Patients data

→ Available for patients – My Health Enabler → Automated and secure anonymization and encryption → Automated Analysis (AI) → Personalized treatments

DATA
GOVERNANCE
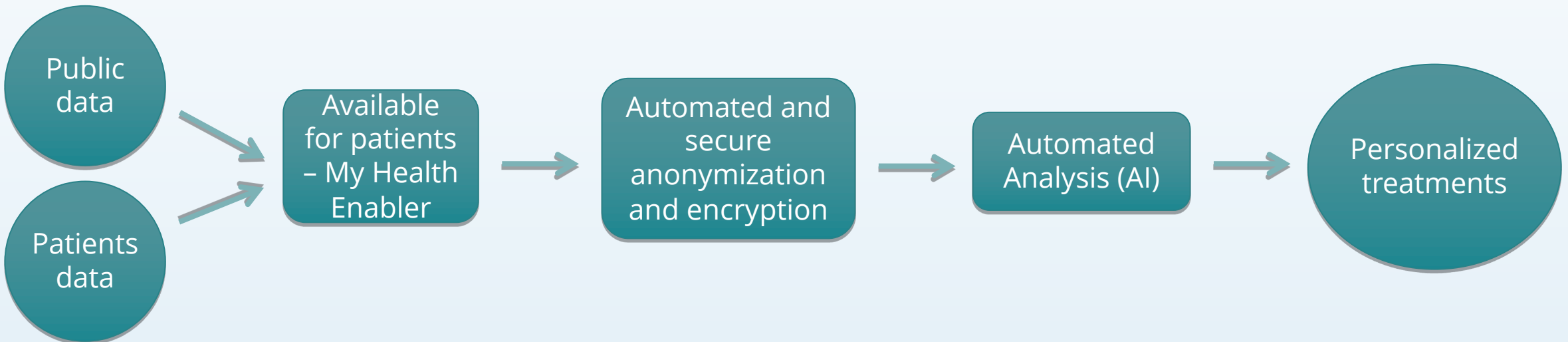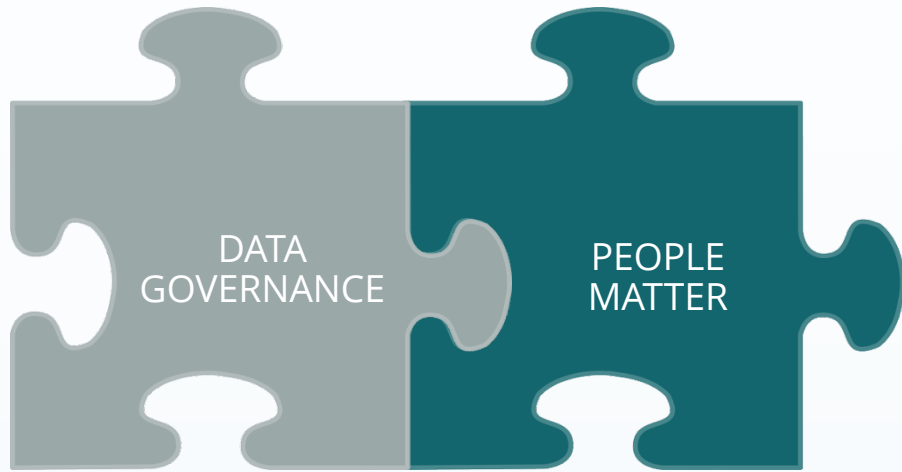
PEOPLE
MATTER

**2** People Matter, empowering patients to get in control of their own health through motivation e.g. individual profile/user

# What does People Matter mean in CRANE?

**Get to know the CRANE users**

- Secure compliance and adherence to CRANE model
- Contribute to improved health and well-being

**Trust and safety among CRANE users**

- Digital literacy: Training of professionals and the CRANE users to foster self-monitoring and self care ability
- Health literacy: Use and connect to trusted sources of information

**Segmentation of users**

To match with activities based on : bio data, health data input, motivation, current state of mind assesment, user's context (local offers, loved ones etc)

# What does People Matter mean in CRANE?

**Psychometry**
- identify/predict the behaviour and motivation of CRANE users
- Dynamic framework to capture changes in CRANE users' behaviour

What is health to you?

What does being well mean to you?

What is an healthy individual able to do?

**?**

How does an healthy individual life look like?

What constitutes a healthy life to you?

DATA GOVERNANCE

PEOPLE MATTER

GARDEN FOR CARE
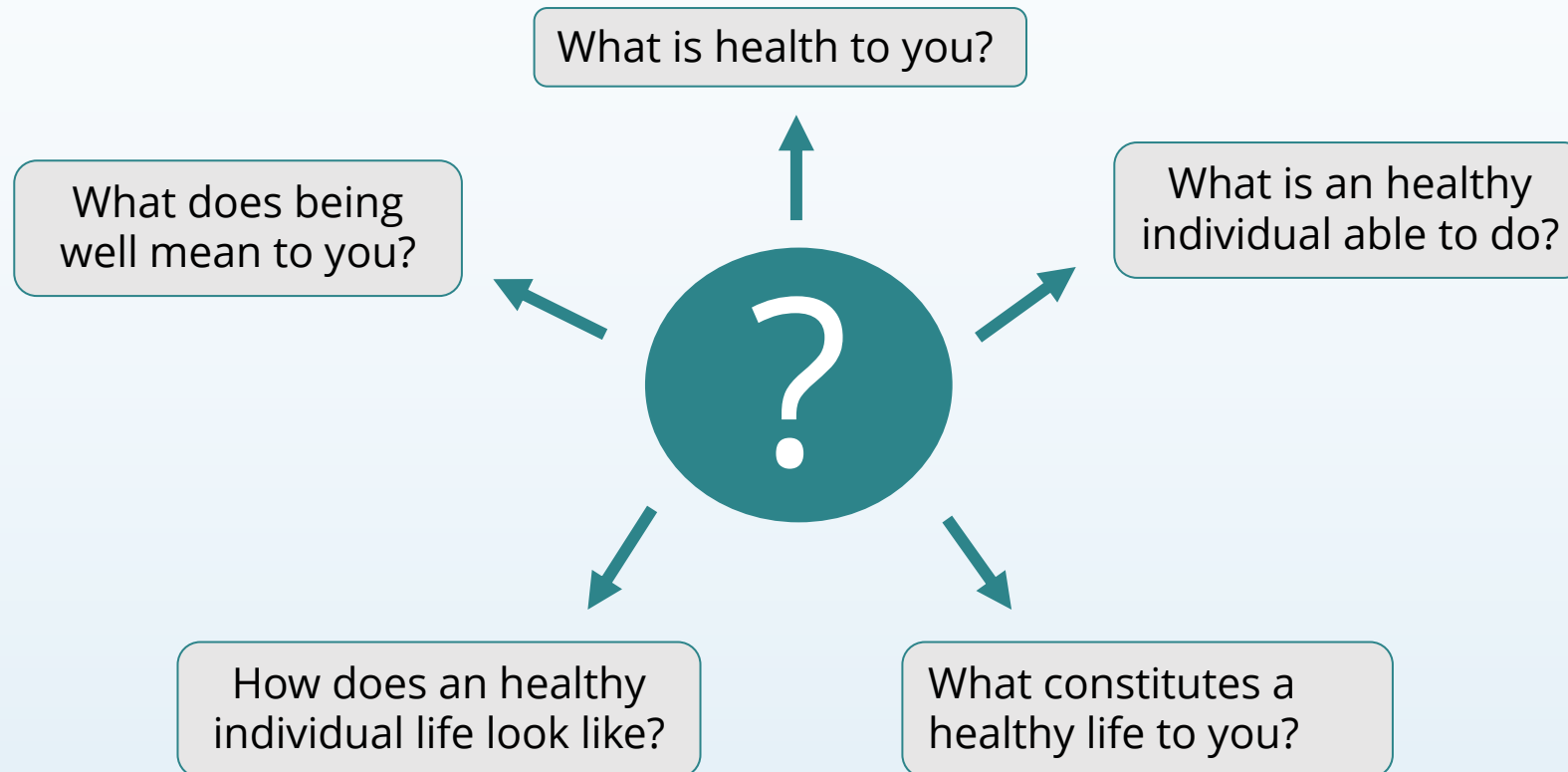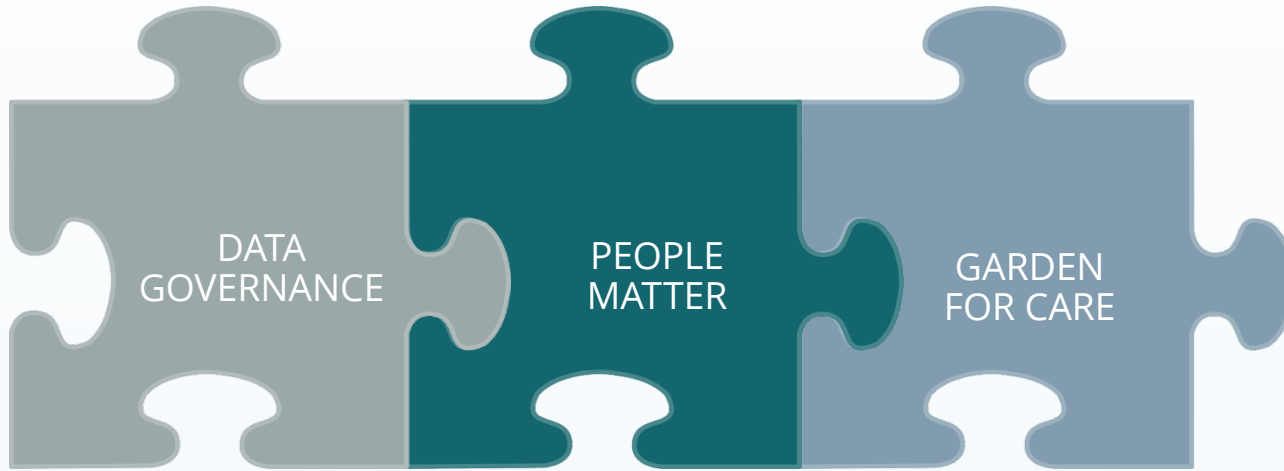
**3** Supporting patients health and care through their garden of care – having social relationships and people around

Hospital

Hospital

Pharmacy

Community Support

Patient

Physician Office

Hospital

EMS

Palliative Care

# The foundation of CRANE

GDPR and EU Data Governance Act open up for citizen to access data relevant to them.

## CRANE HOLISTIC APPROACH
Aggregate different health data sources to create new insights

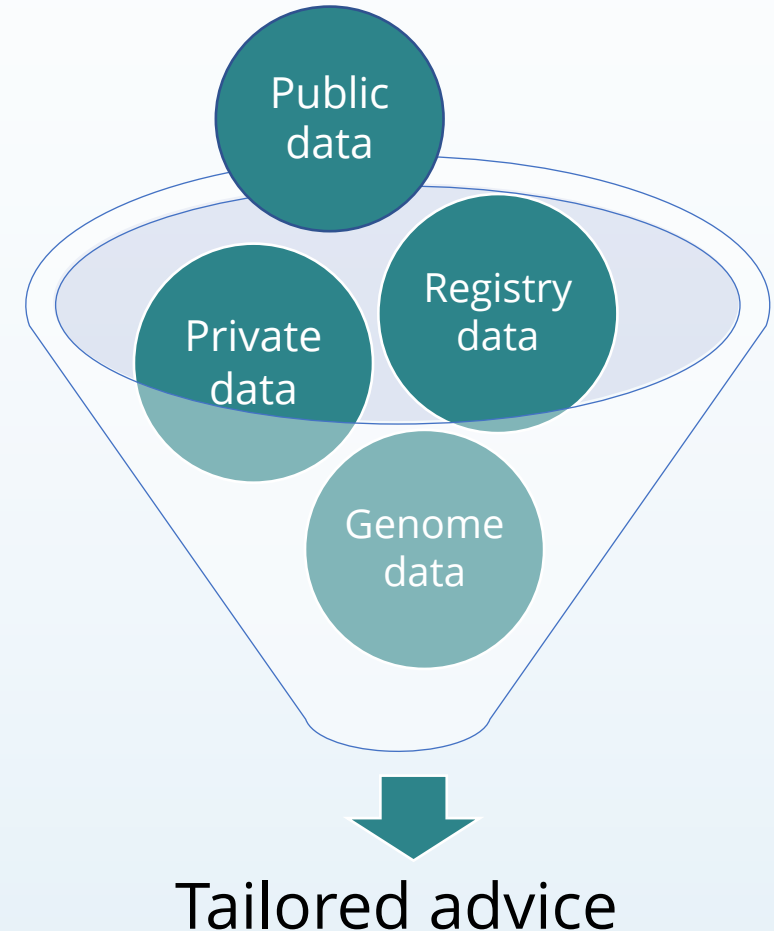Access to citizens health data from multiple sources

**+**

Consider wider data set as health data in future

**+**

Get to know citizen's motivation and behaviour.

↓

Personalised treatment and tailored advise for improved health and well-being.

Public data

Registry data

Private data

Genome data

**Tailored advice**

# What is CRANE Garden for Care

**Accessible healthcare**

Healthcare from home for all

**Power**

Data generated on a citizen belong to the citizen

**Match insights with actions**

Organisation service-local business
Virtual services-innovation industries
Healthcare-social care

**Compliance and adherence**

Known CRANE user's motivation and behaviour
Involve loved ones and social networking

**More than automation**

Different contact opportunities: chat boot, telemedicine, healthcare, social care ...

DATA GOVERNANCE

PEOPLE MATTER

GARDEN FOR CARE

TREND TECHNOLOGIES
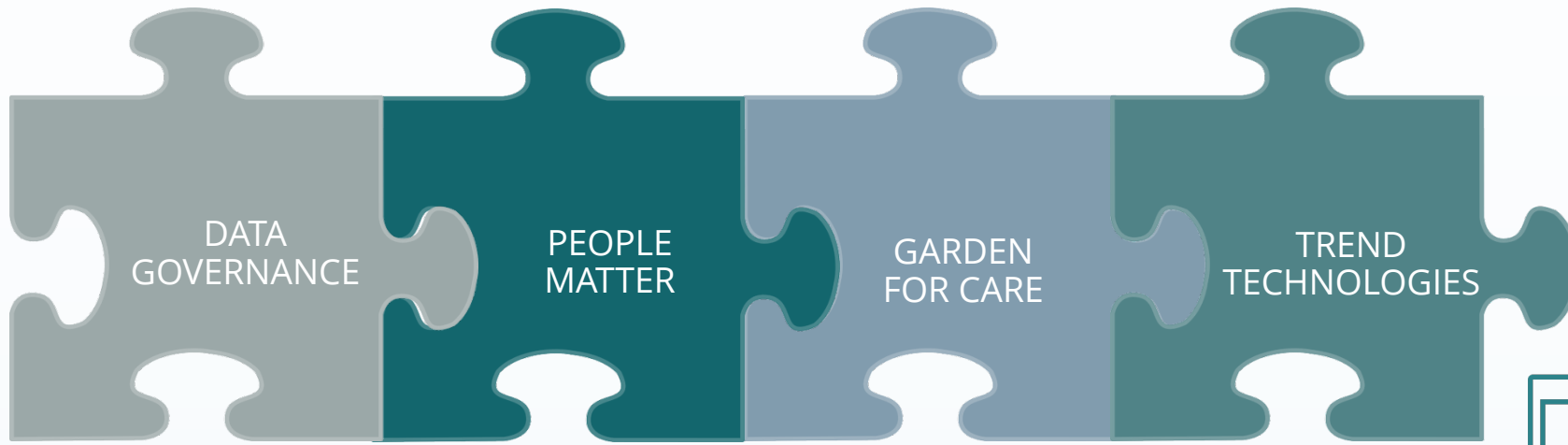
**4** Applying the latest technology ensuring interoperability and long term durability
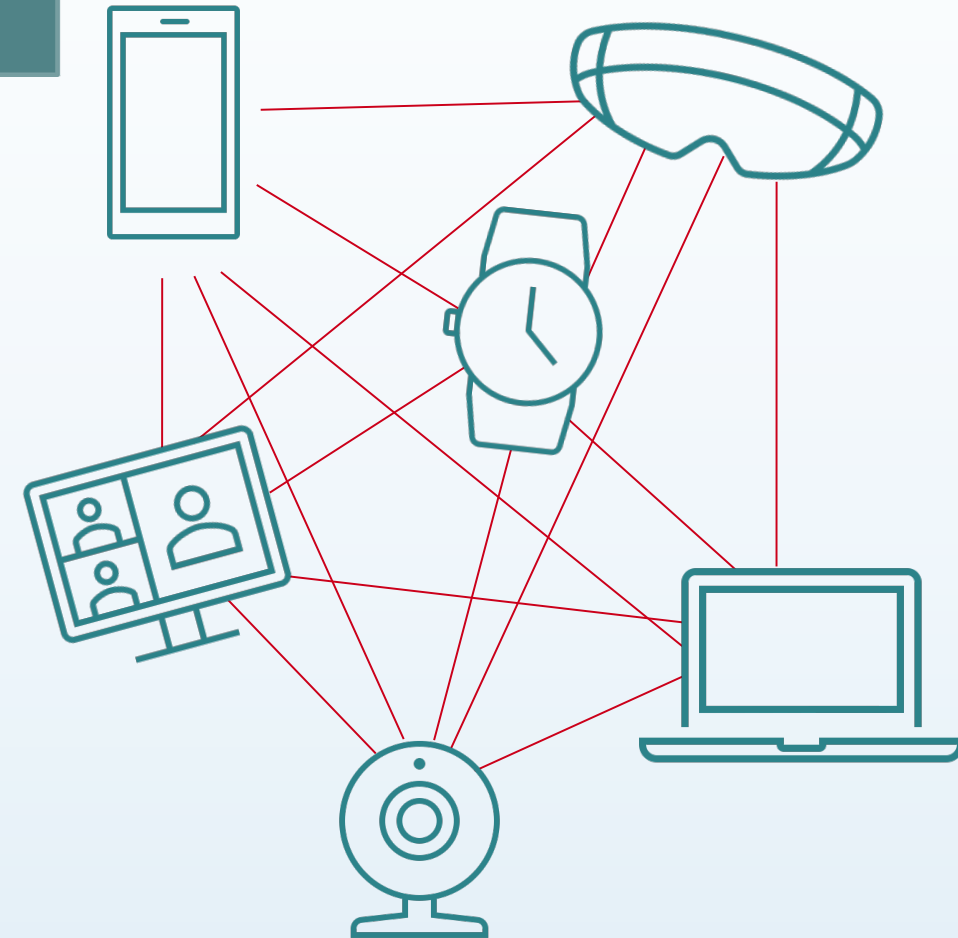
**5** Through a value-based model provide relevant indicators and KPI to measure and help the innovators to deliver a product that the health service and citizens wants. Services that are cost and clinical efficient.

# CRANE service solution

# Interplay between CRANE building blocks

**Conducted Action**

## People Matter

- **Individual user** (Motivation and behaviour)
- **Bio Data context** (geo, life, work, believes, values, opinions etc..)
- **Health Data** (Own, Public, Privat monitored)
- **Other information**

## Garden for Care

- **Public Service**
- **Private Service**

**Insights and proposed actions**

**Insight generator**
- **Predictions & proposal**
- **Best practices/fit**
- **What others do**

**MyHealthEnabler**

**MyHealthEnabler - Health data, subscribed services and consent window**

**Conducted Action**

**People Matter**
- **Individual User**
- **Bio Data context**
- **Health Data**
- **Other information**

**Garden for Care**
- **Public Service**
- **Private Service**

Actors
- Citizen
- Public register holders
- Self-monitoring technology providers
- Public health (data) providers
- Other health (data) providers

Actors
- Public service providers
- Private service providers
- Self-monitoring technology providers
- Public health data providers

**Insights and proposed actions**

**Insight generator**
- **Predictions & proposal**
- **Best practices/fit**
- **What others do**

Actors
- Data set providers
- AI/ML developers

**MyHealthEnabler**

**MyHealthEnabler - Health data consent wallet**

- **Data management plan**
- **GDPR**
- **EU data governance act**

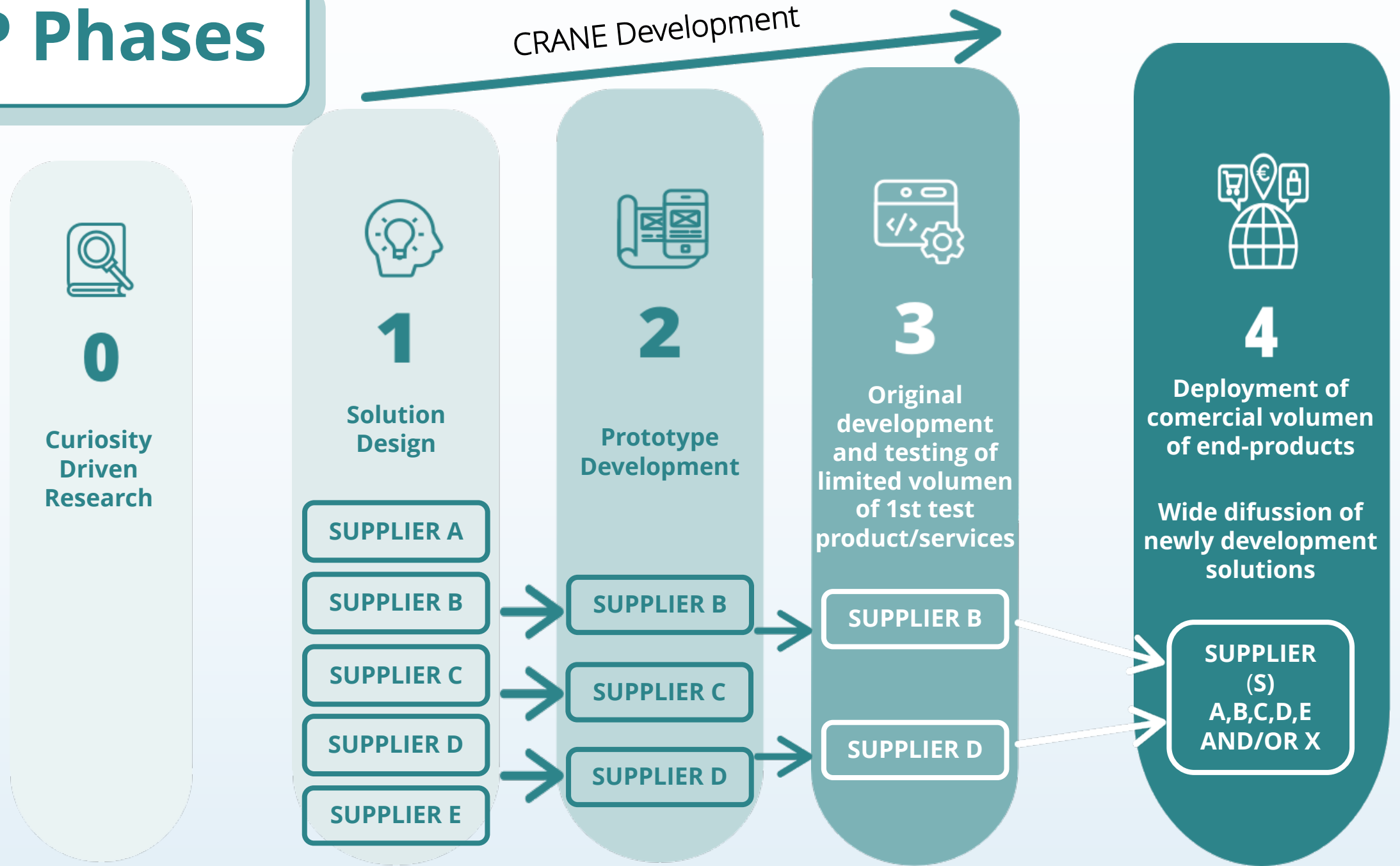Trend Technologies – Secure data privacy, enabling safe and protective data access

Data Governance – Framework of how CRANE get and use data and what to do with it

Value Base – Provide the baseline reference and the results of improvements

- **Privacy and anonymization**
- **Blockchain, multiparty computation**

**Indicators**
- **Societal, healthcare and care, individual level**
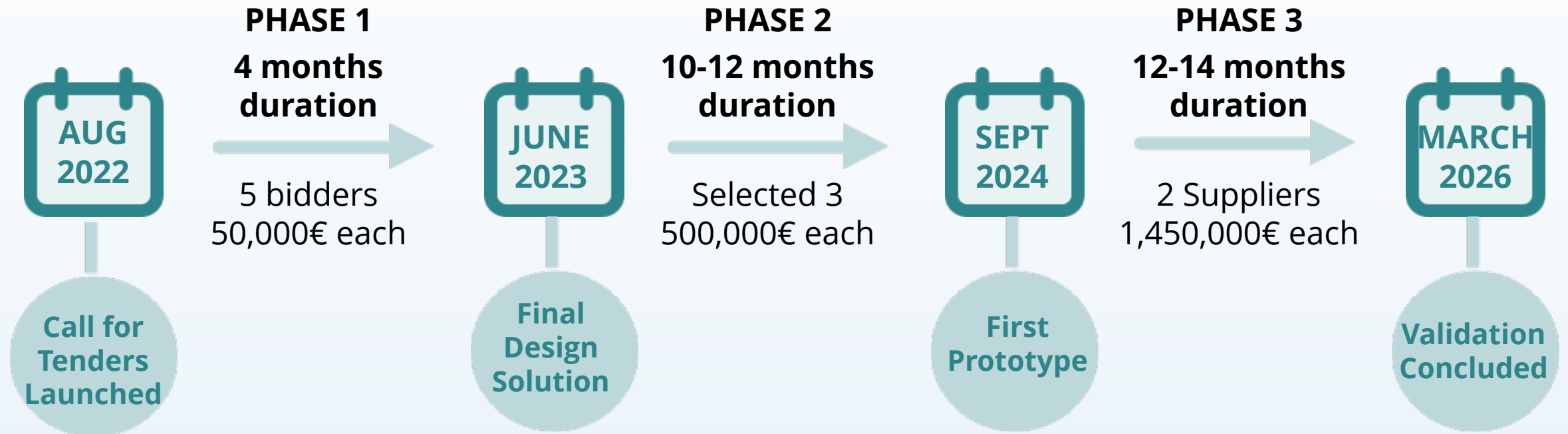
# Preparation of bids for CRANE

# CRANE PCP

**Comprehensive Treatment of Chronic Patients in Rural Areas**

**AUG 2022**

**PHASE 1**
**4 months duration**

5 bidders
50,000€ each

**Call for Tenders Launched**

**JUNE 2023**

**PHASE 2**
**10-12 months duration**

Selected 3
500,000€ each

**Final Design Solution**

**SEPT 2024**

**PHASE 3**
**12-14 months duration**

2 Suppliers
1,450,000€ each

**First Prototype**

**MARCH 2026**

**Validation Concluded**

# OMC Questionnaire

https://crane-pcp.eu/questionnaire/

## Goals

Gather market insights

Align the tender documents with potential solutions

### SECTION 2. CRANE's Scope

CRANE is focused on the development of an open interoperable platform which allows the extensive use of public and p[...] of chronic conditions (cardiovascular diseases (CVDs), diabetes (type 1 and 2) and chronic obstructive pulmonary diseas[...]

Please refer to our additional Scope and Uses Cases documents available at CRANE's website for additional informatio[...]

#### 2.1 General questions

* 2.1.1 Is CRANE scope clear?
   ○ Yes
   ○ No

   Please provide any additional comment

* 2.1.2 Do you think CRANE's objectives are feasible? And its targeted pathologies and results?
   ○ Yes
   ○ No
   ○ I do not know

   Please provide any additional comment

* 2.1.3 What are in your opinion the main challenges for the deployment of CRANE?

* 2.1.4 Do you have, fully or partially, any solution or experience to address the proposed challenges?
   ○ Yes
   ○ No
   ○ Partially

   Please provide any additional comment

# Matchmaking tool

## https://crane-pcp.eu/matchmaking/

### Matchmaking Form

To be listed on the matchmaking platform, please fill in this form.

Contact person (Full name)

Job Title

Email Address

Company name

Website

Enhance your success chances building a strong consortium

Let us help you to find the ideal partners to participate in CRANE PCP

# Bilateral Meetings

**OPENING TODAY!!!**

**First come, first served**

**45 min allocation discussion with us on any of the potential following dates:**
**   - 18th, 25th of May;**
**   -  1st, 15th of June.**

REQUESTS THROUGH OUR WEBSITE

**Working together to improve patients with chronic conditions wellbeing!**

**FIND US** on our website http://crane-pcp.eu/ and stay tuned following our Twitter @crane_pcp