

A large, stylized graphic on the left side of the slide. It consists of several overlapping, nested shapes that form a large arrow pointing to the right. The shapes are in various shades of blue, from light to dark. The text 'SAPHIRE Securing Adoption of Personalised Health in Regions' is overlaid on the dark blue central part of the graphic.

SAPHIRE  
Securing Adoption  
of Personalised  
Health in Regions

# SAPHIRE roadmap

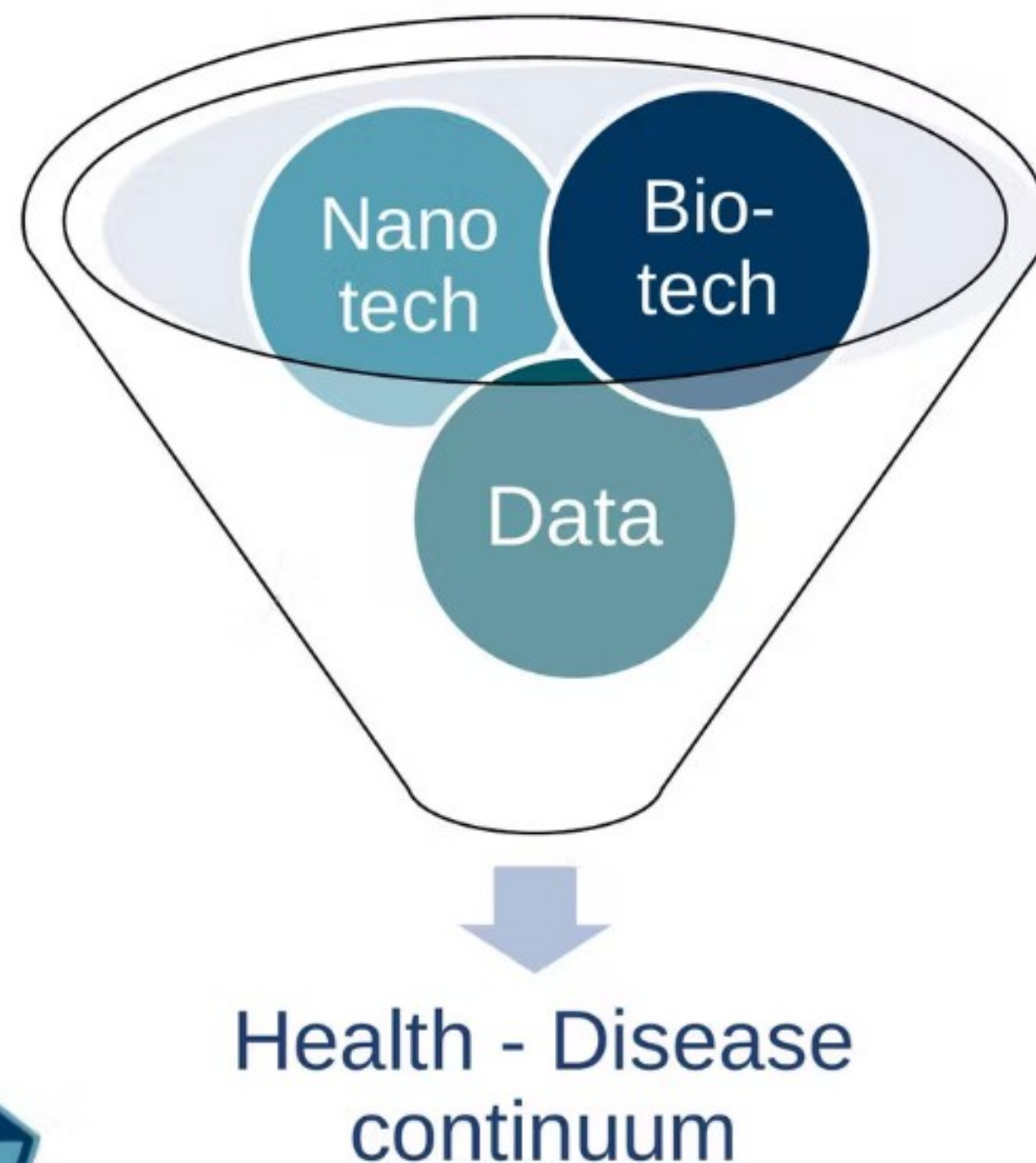
3 March 2022

# SAPHIRe

Securing the Adoption of Personalised Health in Regions

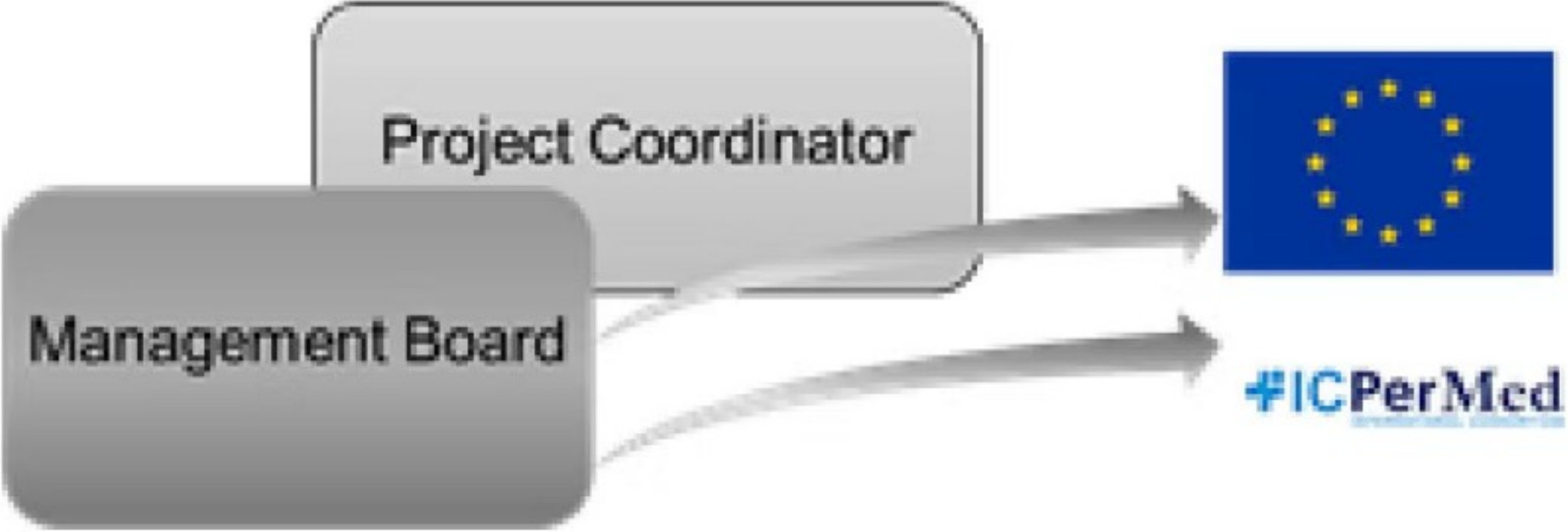
## Personalised health?

- Builds further on the concept of **personalised medicine**
- Towards **preventive** medicine – conserving health, increasing wellbeing





- Early, accurate diagnosis
- Increase healthy life years
- Sustainability of healthcare
- Boost development of new technologies, treatments & therapies

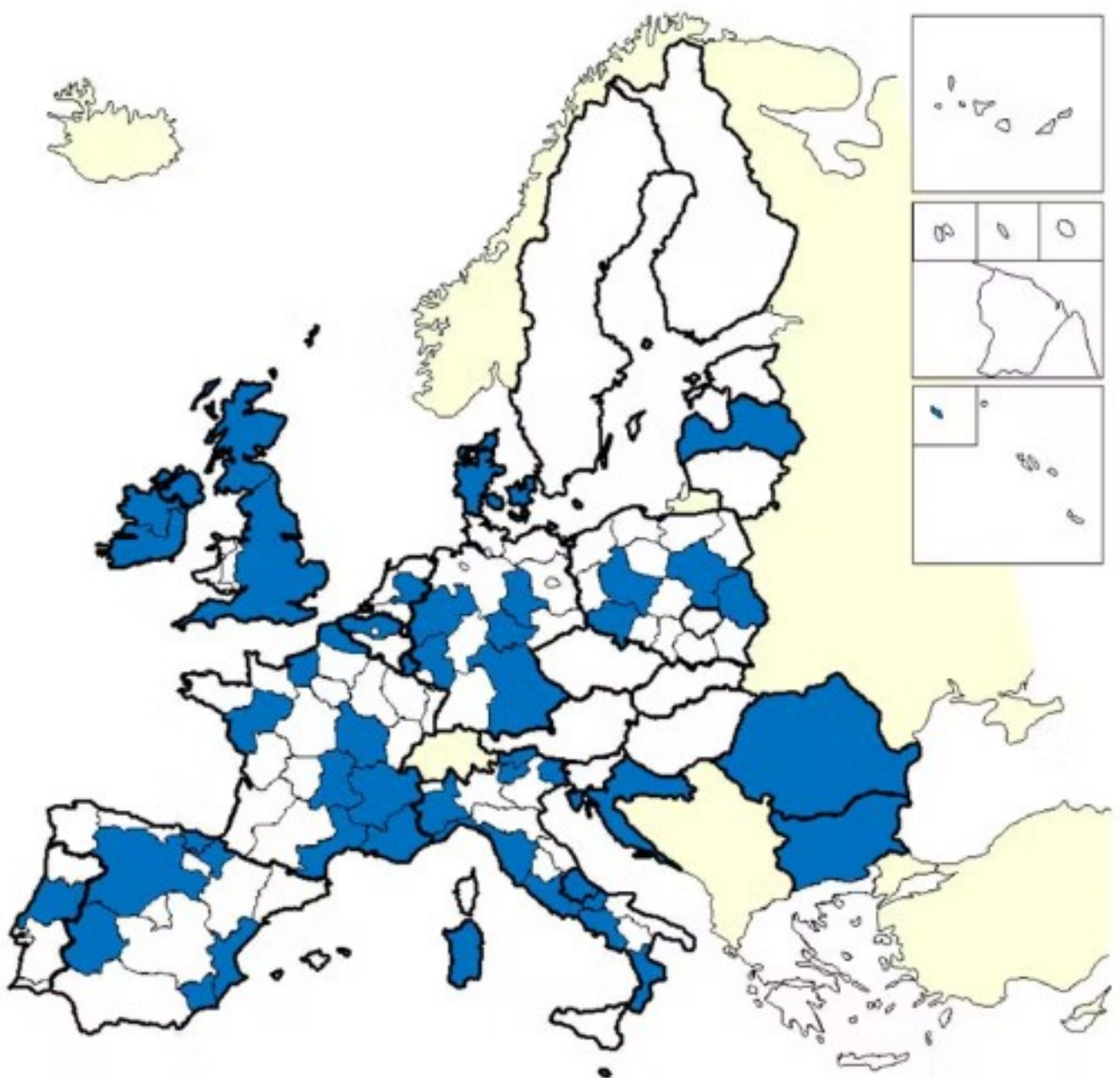
# SAPHIRE Partners



## Personalised Medicine in the RIS3 priorities

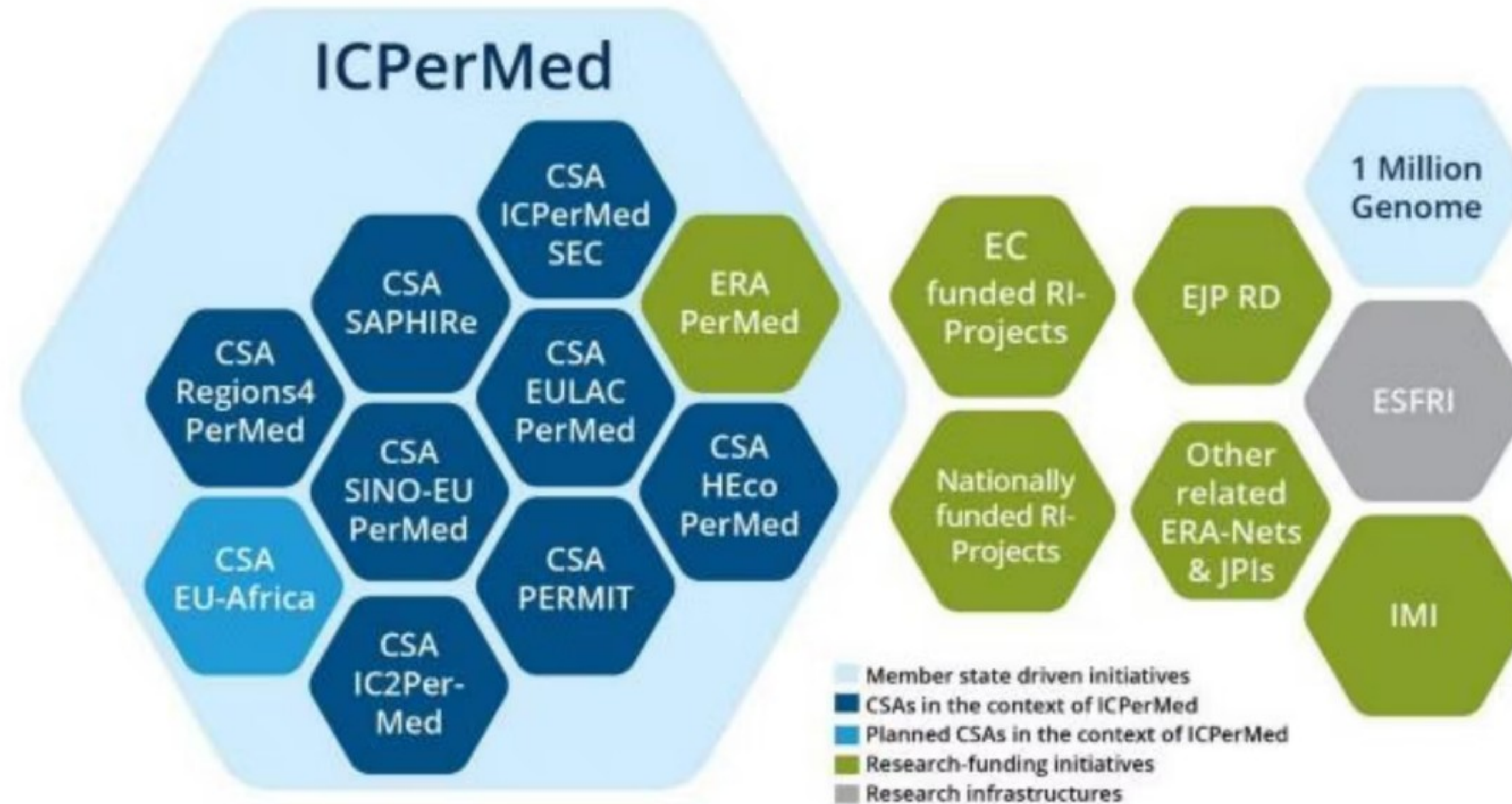
52 RIS3 out of the 136 analysed, explicitly prioritise **Personalised Medicine (38%)**

-  No Personalised Medicine priority in the RIS3
-  Personalised/stratified/precision Medicine priority in the RIS3



# International Consortium for Personalised medicine (ICPerMed)

- Europe and beyond
- Framework for cooperation



# SAPHIRE focus on regions

## Why regions?

- Hot spots/hubs for **innovation**
- **Transition domain** personalised medicine
  - driver for sustainable healthcare and innovative applications
  - regional R&I Smart Specialisation Strategies (RIS3)
- **Specific challenges:**
  - Different authority levels
  - Different innovation levels
  - Regions with special needs
    - Remote and sparsely populated





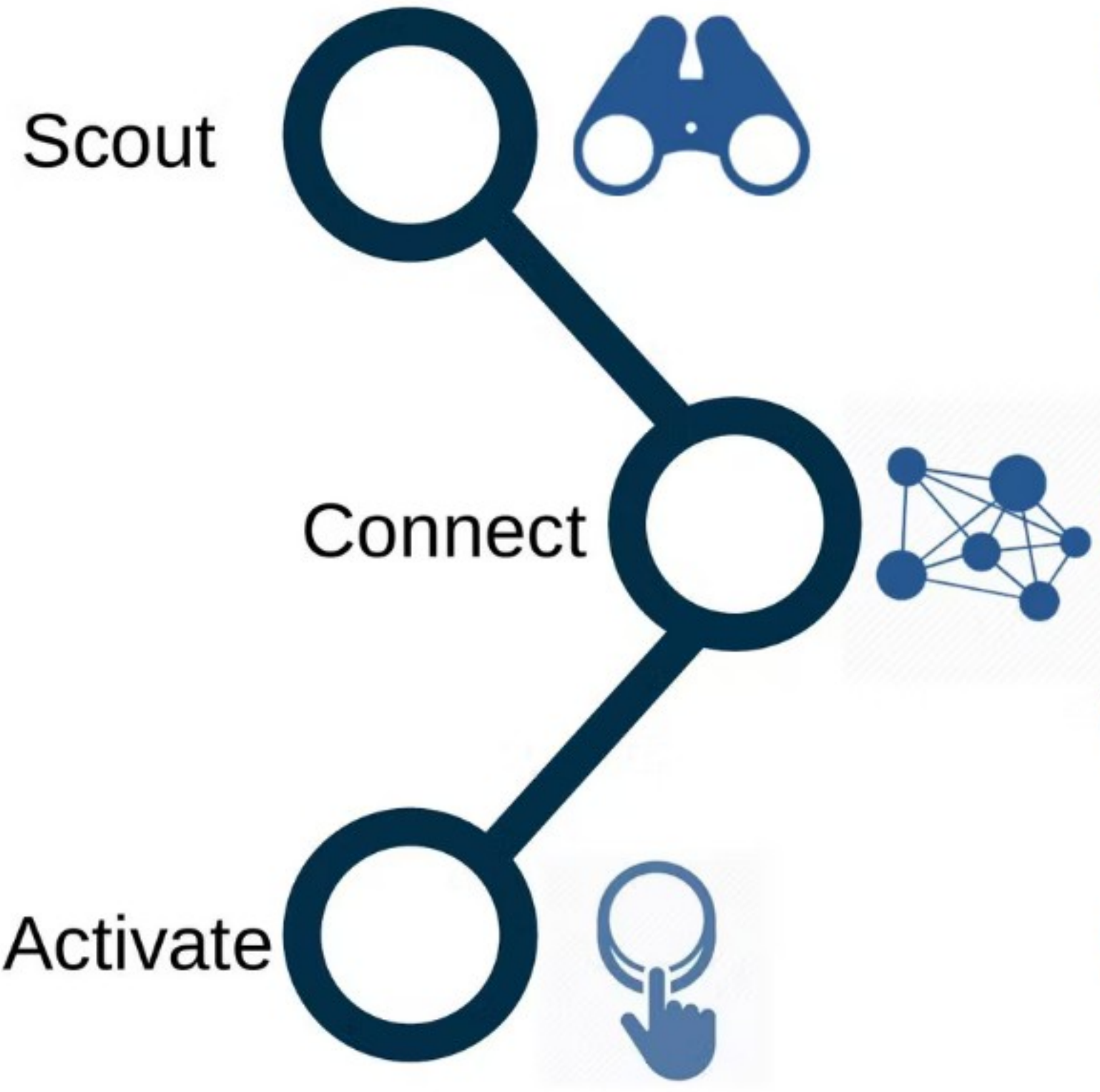
### Quadruple helix:

- Policy makers
- Academia, research institutions
- Industry, hospitals etc.
- Citizens, patients



# SAPHIRe strategy

## Operations



## Output



# SAPHIRE Roadmap

- A strategic plan to guide progress toward a goal – development and implementation of personalised medicine in regions
  - For regional policy makers, but also stakeholders
  - To learn from best practices
  - To extract recommendations and priorities
  - To be modular by design





# SAPHIRE Roadmap - outline

- Introduction
- Policy framework
  - Policy supporting the development of a solid R&I ecosystem
  - Policy supporting the sustainability of healthcare ecosystems embracing PM
    - Regulatory framework
    - ELSI framework
  - Integration of policy levels
- Co-creation and accelerating innovation
- Skills and competences
- Partners in pan-European efforts
  - Interregional partnering
  - Pan-European partnering
- Investment and financing
- Recommendations



# SAPHIRE Roadmap - more details (1/2)

- Policy framework
  - Policy supporting the development of a solid R&I ecosystem
    - Basic research – translational research – tech transfer – market access
    - Clusters, Infrastructure
  - Policy supporting the sustainability of healthcare ecosystems embracing PM
    - Regulatory framework, uptake of technology involving innovations (biomarkers, apps, wearables, ...)
    - ELSI framework (GDPR, use of data)
    - Prevention
  - Integration of policy levels



# SAPHIRE Roadmap - more details (2/2)

- Co-creation and accelerating innovation
  - Quadruple helix
  - Bio-incubators, accelerators, living labs
- Skills and competences
  - Education and training (big data, -omics, nanotech, ...)
  - Health literacy and digital skills: empowered and informed population
- Partners in pan-European efforts
  - Smart research and innovation specialisation strategies (RIS3)
  - Cohesion policy, European Regional Development Fund (ERDF)
  - Interregional partnering
    - Interreg, ERA Hubs, Smart specialisation partnerships, Vanguard Initiative
  - Pan-European partnering
    - ICPeMed, EP PerMed
    - ESFRI, Elixir
- Investment and financing
  - Public/private funding mix



# SAPHIRe Roadmap – guided discussion

- Help with outstanding issues in the development of the roadmap
- Questions in mentimeter
- Active participation of audience
  - No right or wrong answers, looking for your opinion



**Focus on inclusiveness: how can we ensure access to personalised health for all, i.e. in all EU regions? Can VI Smart Health accelerate this inclusion?**



# What are the most important and urgent needs in regions to develop and/ or implement personalised health? Cfr access to

0

Data and digital technology

0

Converging technologies, i.e. biotech, nanotech, engineering, omics technologies

0

New skills, dedicated education and training

0

Health technology assessment

0

Preventive health



**What are needs to be able to attract public financing? And to attract private financing? What is most important?**



# Can the European Structural Funds be used to develop and implement personalised health for regions? How?





# How to include the general public in the debate on personalised medicine?



**What are the essential components of a regional roadmap for the development and implementation of personalised health?**



# Roadmap recommendations: do you agree with these recommendations?

Are they feasible? How can Europe contribute to this?

# Recommendation 1

All stakeholders should be consulted in a transparent process from the start. Such a stakeholder consultation should also form the basis of a regional SWOT analysis (an analytical tool to identify strengths, weaknesses, opportunities, and threats), together with existing and commissioned studies and input from stakeholders and experts

# Recommendation 2

A region should set up and support a health ecosystem to ensure cooperation within healthcare by committing public investments for infrastructure, research, innovation as well as the healthcare system.

# Recommendation 3

The actions that regions can take depend on the authority they have on the healthcare system and/or on R&I policy, and/or on supporting policies required including justice and education.

It is fundamental to align the policy levels to establish the right supporting conditions for PM to deliver upon its promises.



# Recommendation 4

It is important to ensure cross border R&I and healthcare. It encompasses specific issues with respect to EU-wide access to the electronic health records. This should ensure access to the most advanced therapies and interventions for all citizens in Europe, regardless of the absorption capacity or whether the region is remote and sparsely populated.

