

The International Consortium for Personalised Medicine

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Personalised Medicine – A definition

*Characterisation of individuals' phenotypes and genotypes (e.g. **molecular profiling, medical imaging, lifestyle data**) for tailoring the right **therapeutic** strategy for the right person at the right time, and/or to determine the **predisposition** to disease and/or to deliver timely and targeted **prevention**".*

According to: Horizon 2020 and
European Council Conclusions on personalised medicine for patients (2015/C 421/03)

Context for personalised medicine

- **Technology:** digital revolution in health; novel computational approaches; ability to analyse and to link large datasets; complete decoding of the human genome; rapid sequencing and analytical techniques
- **Different approach to healthcare:** the starting point should not be the disease but the patient, with his or her individual characteristics; drive towards prevention and early intervention
- **Sustainability of healthcare systems:** increased costs and complexity; drive for better use of resources
- **Societal expectations:** more informed and engaged patients; expectation of improved health related quality of life
- **Opportunities** – for patients, healthcare providers, payers, industry

Key milestones leading to ICPerMed

- 2010** Series of workshops organised by European Commission (with focus on 'omics' related research)
- 2011** Conference on European Perspectives in Personalised Medicine organised by European Commission
- 2011** Establishment of EuroBioforum (4 year project funded through FP7; platform for funders and performers in per medicine)
- 2013** Establishment of PerMed (CSA funded through FP7)
- 2015** Strategic Research and Innovation Agenda (SRIA) published by PerMed
- 2016** Personalised Medicine Conference organised jointly by European Commission and reps of member states (June)

~€2 billion for PM activities and projects through FP7 and H2020

Needed a mechanism to support....

- **Coordination:** coordinate efforts, avoid overlaps, & provide a forum to explore policy recommendations
- **Collaboration:** general support for collaboration in PM space
- **Creation of synergies:** collaboration between funders to create synergies and avoid overlaps

ICPerMed established November 2016

Aim: To coordinate and foster **research** to develop and evaluate personalised medicine approaches

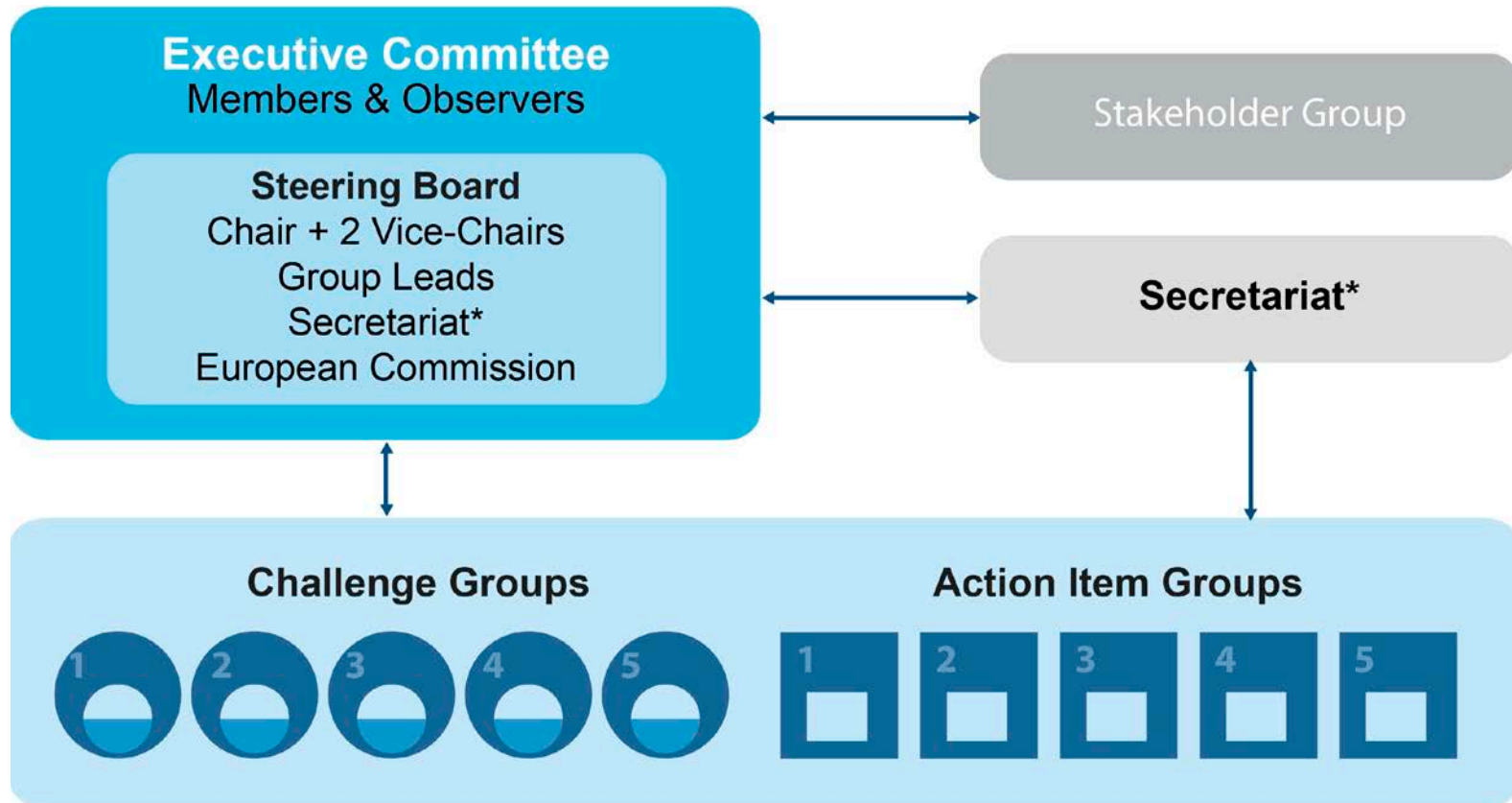
- More than 35 European and international partners
- Representing ministries, funding agencies and the European Commission
- International Consortium model
 - Identify common strategic goals
 - Align research funding
 - Aim to share results, data, standards and examples of best practice

ICPerMed Vision Statement:

- Establish **Europe as a global leader** in personalised medicine research.
- Support the **personalised medicine science base** through a coordinated approach to **research**.
- Support research to investigate **the benefits** of personalised medicine to **citizens** and **healthcare systems**.
- Pave the way for personalised medicine approaches for **citizens**

Research as driver of personalised medicine

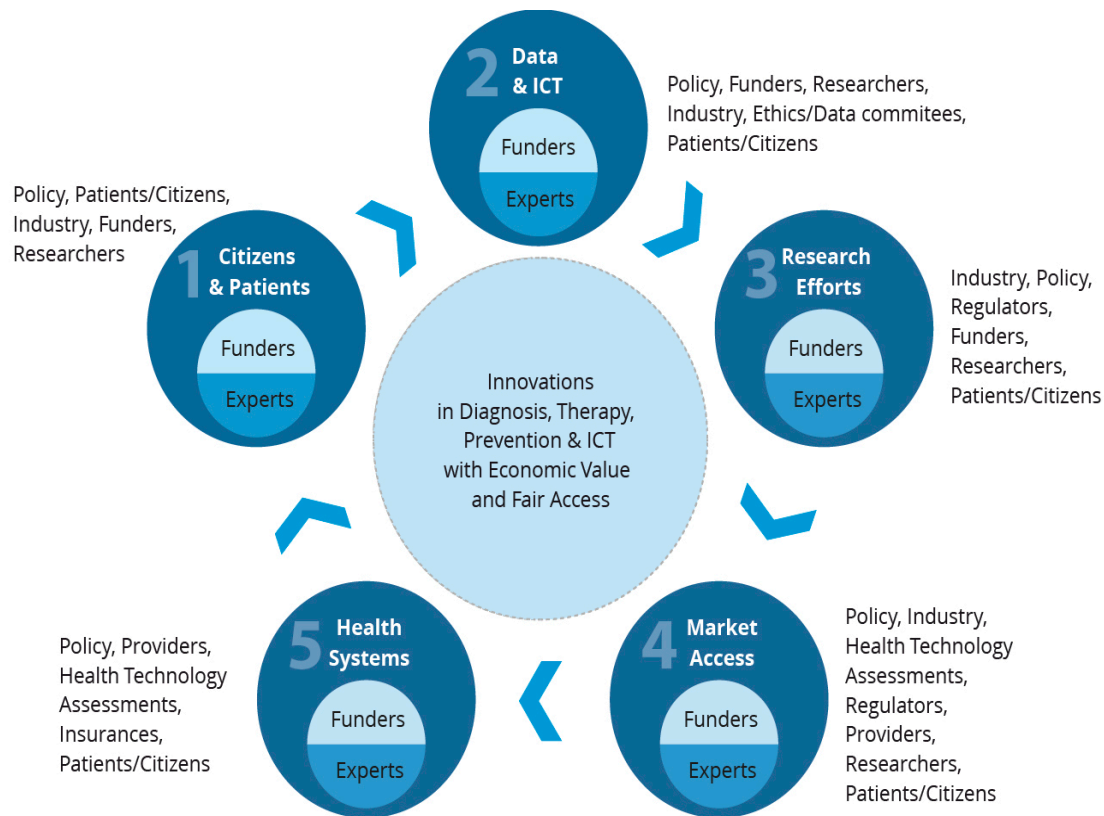
ICPerMed Governance



* The Secretariat is a Coordination and Support action funded by the European Union's Horizon 2020 research and innovation programme under grant agreement no. 731366.



ICPerMed Challenge Groups – Spanning the Healthcare Chain



1. Citizens and Patients
2. Data & ICT
3. Research Efforts
4. Market Access
5. Health Systems

What has ICPerMed achieved so far.....



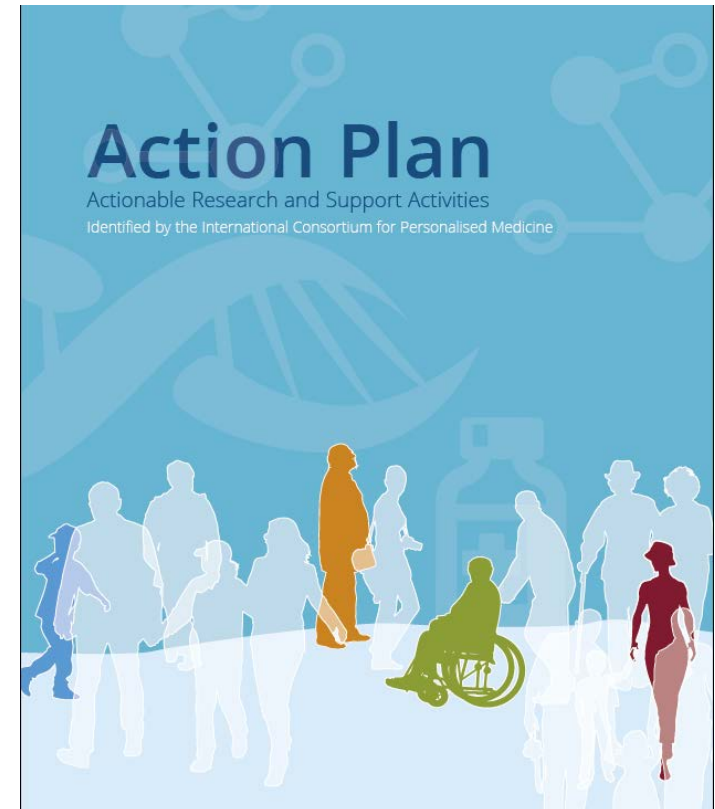
(1) Development of the ICPerMed Action Plan



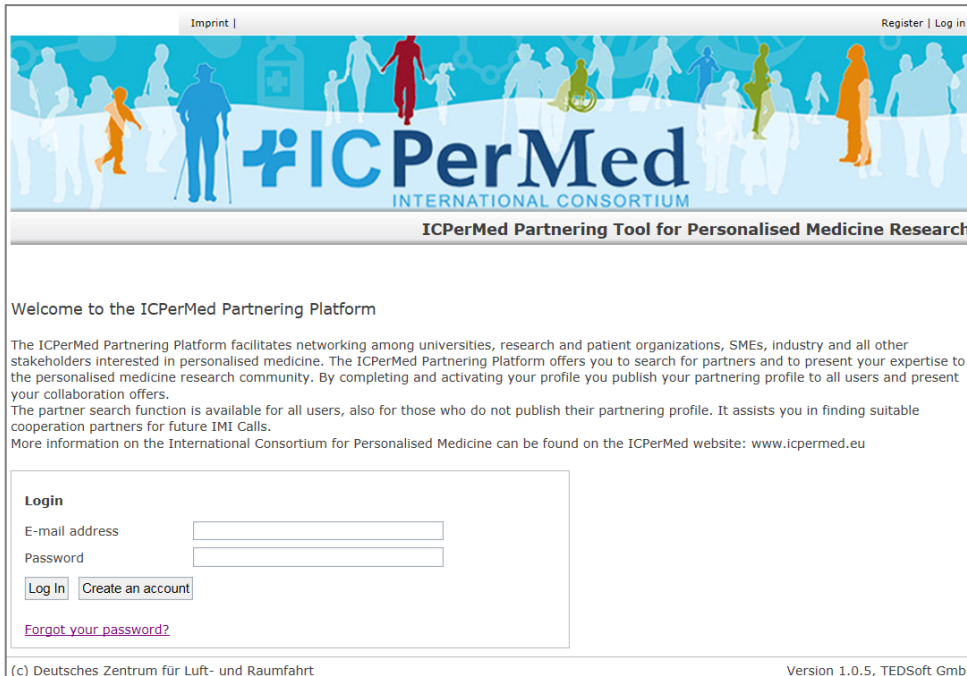
- Published in March 2017
- Identifies actionable research and support activities
- Used to inform the strategy of research funders at national and European level (e.g. ERA PerMed)

Action Plan Structure & Implementation

- **Structure**
 - (A) Research actions
 - (B) Policy / support actions
- **Implemented through five Action Groups**
 - 1) Data and ICT – enabling technology
 - 2) Data and ICT – improving healthcare
 - 3) Translational research
 - 4) Health economics, regulation, market access
 - 5) People and society



(2) Partnering Tool



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ICPerMed
INTERNATIONAL CONSORTIUM

ICPerMed Partnering Tool for Personalised Medicine Research

Welcome to the ICPerMed Partnering Platform

The ICPerMed Partnering Platform facilitates networking among universities, research and patient organizations, SMEs, industry and all other stakeholders interested in personalised medicine. The ICPerMed Partnering Platform offers you to search for partners and to present your expertise to the personalised medicine research community. By completing and activating your profile you publish your partnering profile to all users and present your collaboration offers.

The partner search function is available for all users, also for those who do not publish their partnering profile. It assists you in finding suitable cooperation partners for future IMI Calls.

More information on the International Consortium for Personalised Medicine can be found on the ICPerMed website: www.icpermed.eu

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- Platform for research organisations and individuals to find potential cooperation partners
- E.g. used by ERA PerMed and Flagship Canada/EU call
- ~ 250 entries so far

(3) Survey and Database




Welcome to the ICPerMed mapping database - funding for research in Personalised Medicine

The ICPerMed database gives an overview on the actions in the field of Personalised Medicine (PM) performed in the ICPerMed member states and may assist you in finding suitable funding opportunities and information about potential funders in your respective country and/or region.

Via the ICPerMed database, ICPerMed members (e.g. funding agencies and ministries) provide available information about their national/regional funding activities in PM. The different national/regional funding schemes and general funding information are described. The database allows the user to search for programmes susceptible to finance research projects in the field of PM. This includes not only programmes that are ongoing but also those that are already completed as well as others that will start in the near future.

The ICPerMed database is open to the public after simple registration.

The ICPerMed database reflects the progress of the ICPerMed consortium towards the objectives and implementation of the ICPerMed Action Plan. More information on the International Consortium for Personalised Medicine (ICPerMed) can be found on the ICPerMed website: www.icpermed.eu.

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- Mapping Activity: ongoing funding programmes in Personalised Medicine
- Survey sent to all ICPerMed members
- Results are available in the ICPerMed mapping database
- Open to the public after simple registration

(4) ICPerMed Statements

ICPerMed members may agree position / issue joint statement on important issues in Personalised Medicine

e.g. First statement issued in May 2018 on the 'One Million Genomes Declaration'

<https://www.icpermed.eu/en/statement-concerning-the-1-million-genomes-declaration.php>

(5) ICPerMed State-of-the-Art Report



- Available on ICPerMed Website
- First year: Mainly report on ICPerMed Activities
- Future reports: More general overview over the field of Personalised Medicine

(6) ICPerMed 'Recognition of Best Practice'

- Recognition and celebration of best practice in personalised medicine
- 1st best practice award in 2018 (to be announced..)
- Launch of call for 2019 nominees (21st November)

(7) ICPerMed Events

- **1st ICPerMed Workshop 2017:**
 Innovative concepts on data generation and use for personalised medicine research (Milan, June 26-27, 2017)
- **1st ICPerMed Conference 2018:**
 Personalised Medicine in Action (Berlin, November 20-21, 2018)
- **2nd ICPerMed Workshop 2019:**
 Personalised medicine for all citizens and patients within sustainable health systems (Madrid, Oct / Nov 2019)
- **2nd ICPerMed Conference 2020**



Coming up in 2019.....

- Launch of call for 2019 recognition award
- Publication of IC PerMed Vision statement (Spring 2019)
 - *Supported by survey of 70 experts across Europe
- 2nd Workshop: personalised medicine in the context of sustainable health systems (Oct/Nov)
- Collaboration with relevant initiatives
- Continue to implement Action Plan

ICPerMed Conference 2018: Personalised Medicine in Action

Best practice examples in personalised medicine selected by IC PerMed members following nominations and vote

- Research and implementation
 - Successful examples of personalised medicine research being translated into added value for the patient
- Policy making
 - Best practice examples of personalised medicine research relevant to policy and impact
- Keynote talks on different aspects of personalised medicine - broader perspective

More information about ICPerMed

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www.icpermed.eu