

BIOBANKS – NOT JUST FREEZERS

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2. Organisation of European Cancer Institutes, Biobanks and Molecular Pathobiology Working Group Chairperson



BIOBANK ARE BRIDGING RESEARCH AND PATIENT CARE

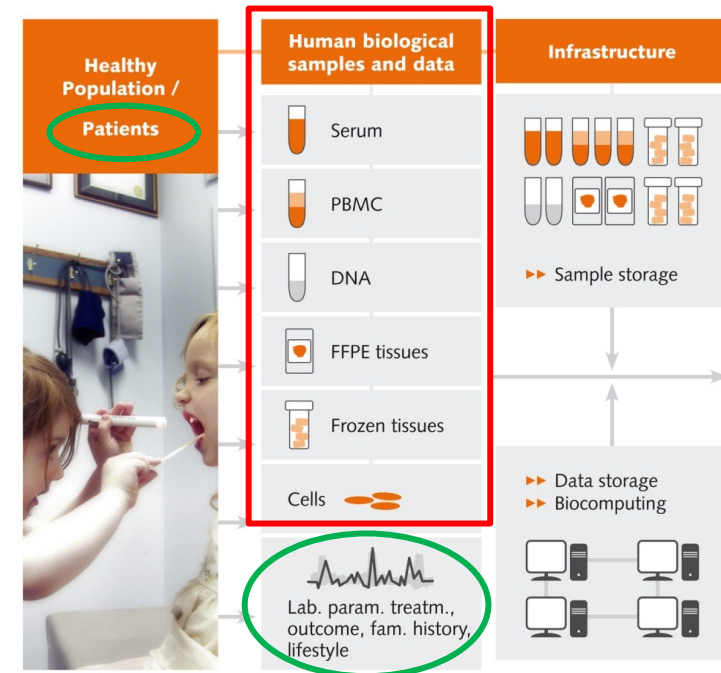


Research infrastructure

Platform for R&D

A bridge and shortcut from research to clinical care

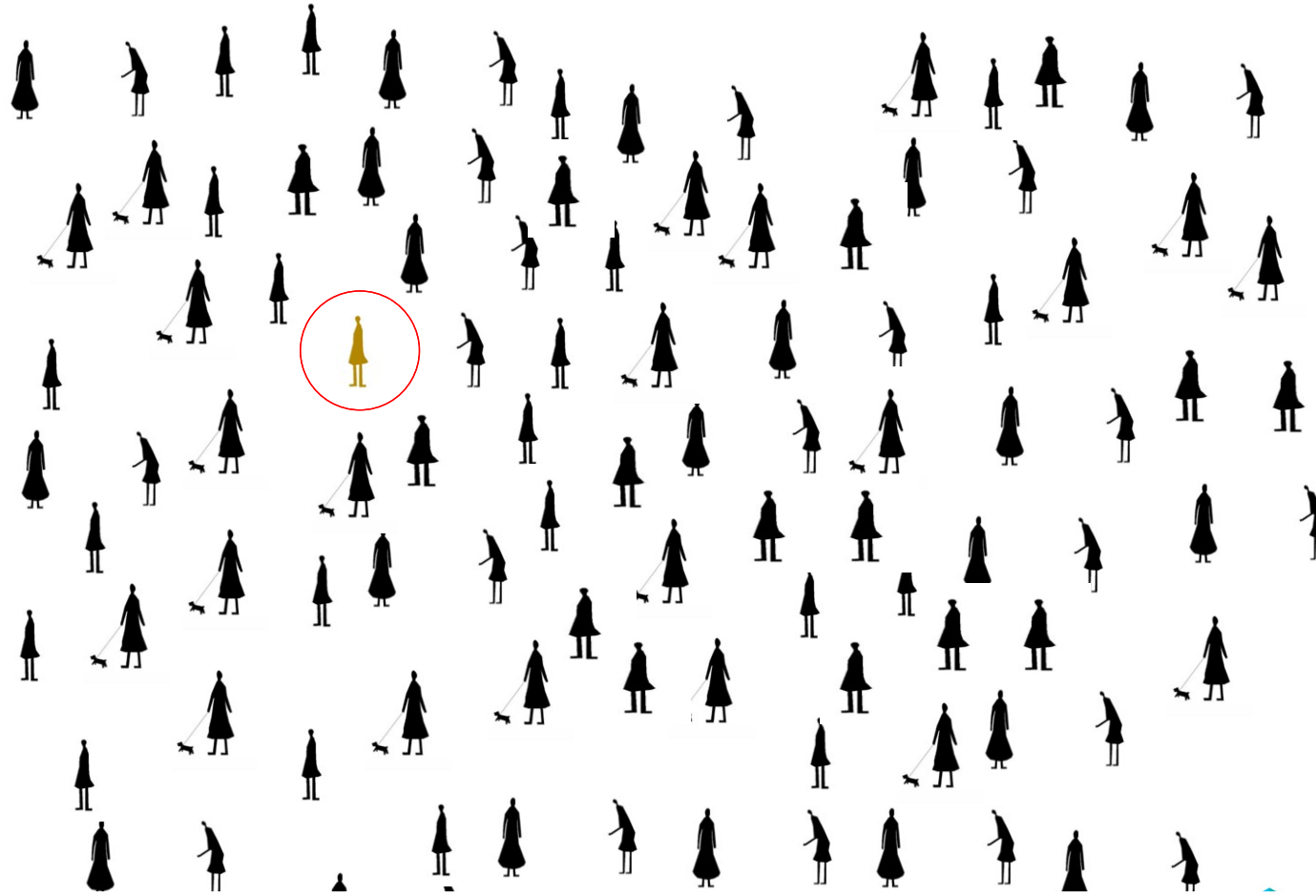
BIOLOGY



PHENOTYPE

Organisation of European Cancer Institutes - EEIG

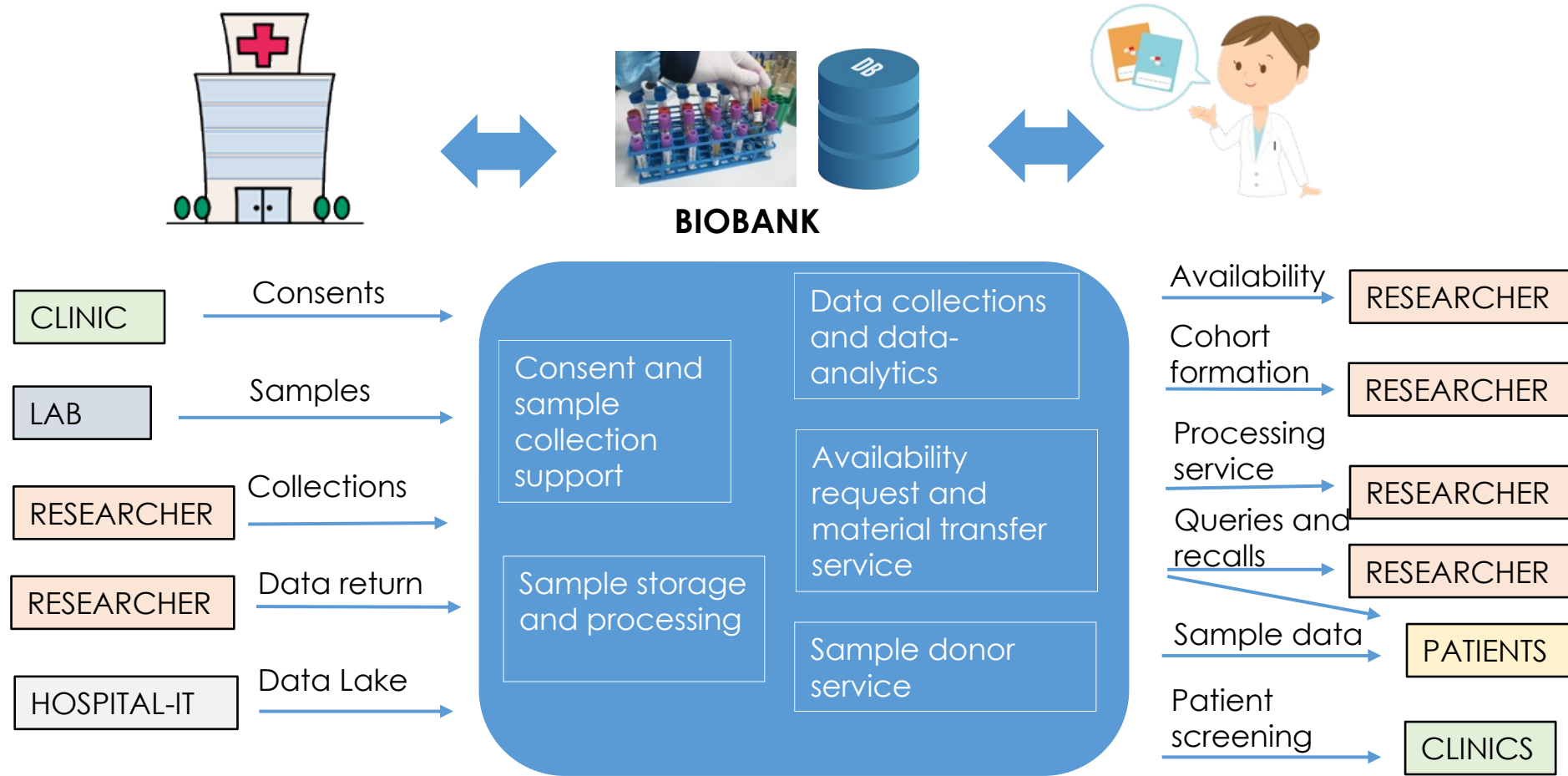




Large scale transition to precision medicine is not possible without professional biobank infrastructure organized within health care!



BIOBANKS BRIDGING RESEARCH AND PATIENT CARE



BIOPANK-RELATED PILOT PROJECTS ARE CREATING HEALTH IMPACT

- Prevent
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data: bre
diseases,

HOW CAN WE INCREASE THE POTENTIAL AND IMPACT OF BIOBANKS IN PRECISION HEALTH CARE?

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Also: Automation & scalability remain an issue.



Biobank as a Platform for Precision Healthcare – How to Get There?



Healthcare Impact

Improved health and/or cost savings

Worried Well
Citizens

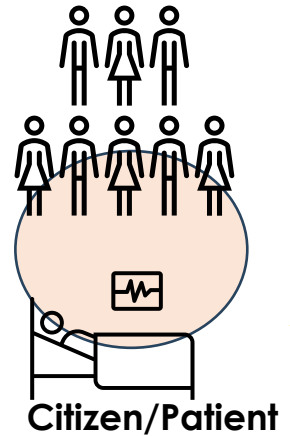
Engage-
ment
Portal

IMPACT

INNOVATION

BIOBANK

RESEARCH



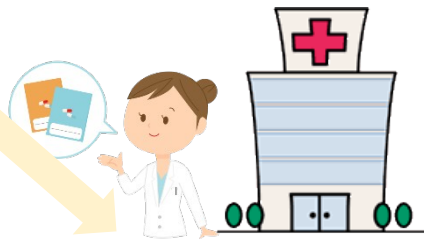
CONSENT
RECALL

Consent Platform

Biobank sample and data repository

- Samples and comprehensive data (consented individuals)
- Returned data from research
- MyData provided by the consented individual

Samples and RWD



Sample collection

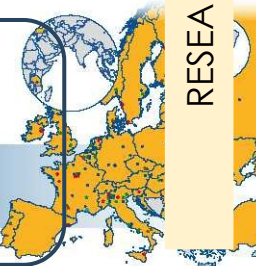
Samples and data



R&D&I project



New knowledge
Publications



HEALTH IMPACT THROUGH CITIZEN ENGAGEMENT

- ▶ Biobank portal developed by Estonian biobank (2024 -)
- ▶ Sharing results from biobank studies
- ▶ Collecting information from donors
- ▶ Motivate towards a healthier lifestyle
- ▶ Opportunity: Invitations to new studies (including clinical trials)

nature

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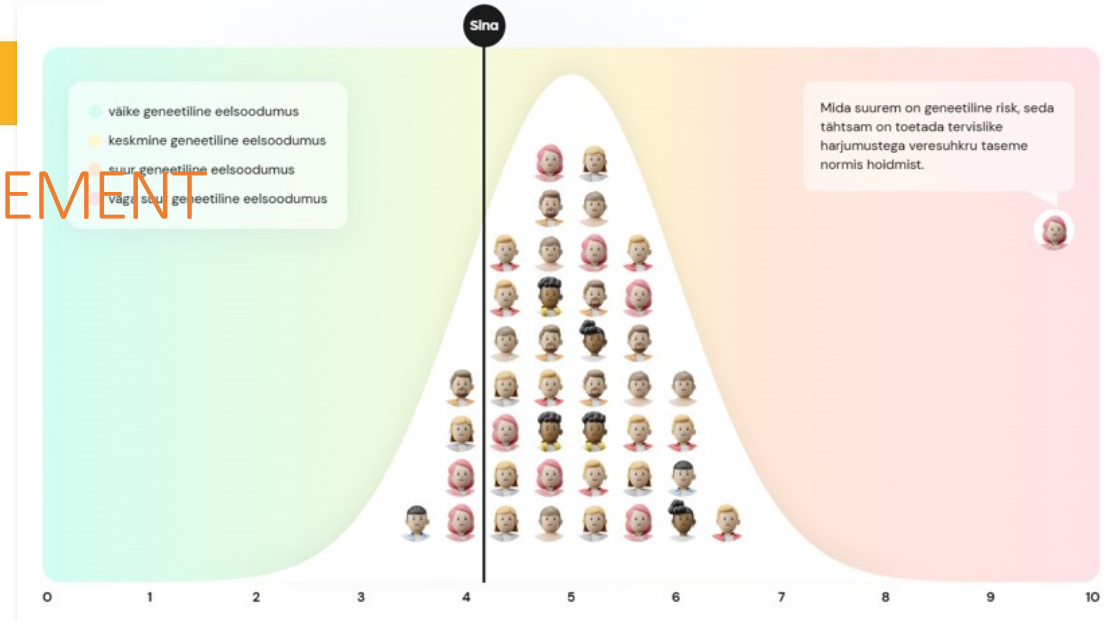
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The Estonian Biobank's journey from biobanking to personalized medicine

[Lili Milani](#) [✉](#), [Maris Alver](#), [Sven Laur](#), [Sulev Reisberg](#), [Toomas Haller](#), [Oliver Aasmets](#), [Erik Abner](#), [Helene Alavere](#), [Annely Allik](#), [Tarmo Annilo](#), [Krista Fischer](#), [Robin Hofmeister](#), [Georgi Hudjashov](#), [Maarja Jõeloo](#), [Mart Kals](#), [Liis Karo-Astover](#), [Silva Kasela](#), [Anastassia Kolde](#), [Kristi Krebs](#), [Kertu Liis Krigul](#), [Jaanika Kronberg](#), [Karoliina Kruusmaa](#), [Viktorija Kukuškina](#), [Kadri Kõiv](#), ... [Andres Metspalu](#) [✉](#)

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Healthcare Impact

Improved health and/or cost savings

Worried Well
Citizens

Engage-
ment
Portal

Novel treatments/medicine

Clinical trials

National
clinical trials
unit

Preventive/precision
care paths based
on returned data
from research

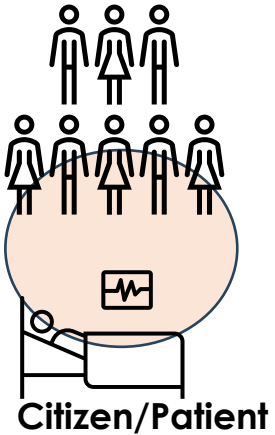
Smart cohort formation

Consent Platform for Preventive Healthcare

Biobank sample and
data repository

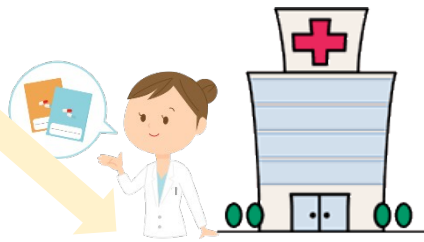
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- Returned data from research
- MyData provided by the consented individual

CONSENT
RECALL



Samples and RWD

Samples and data



Sample collection

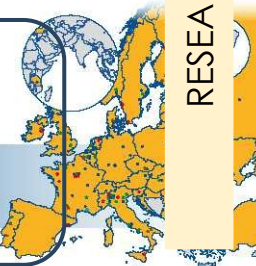


R&D&I project



Academic Research
organization
CRO/Pharma/Diagn.

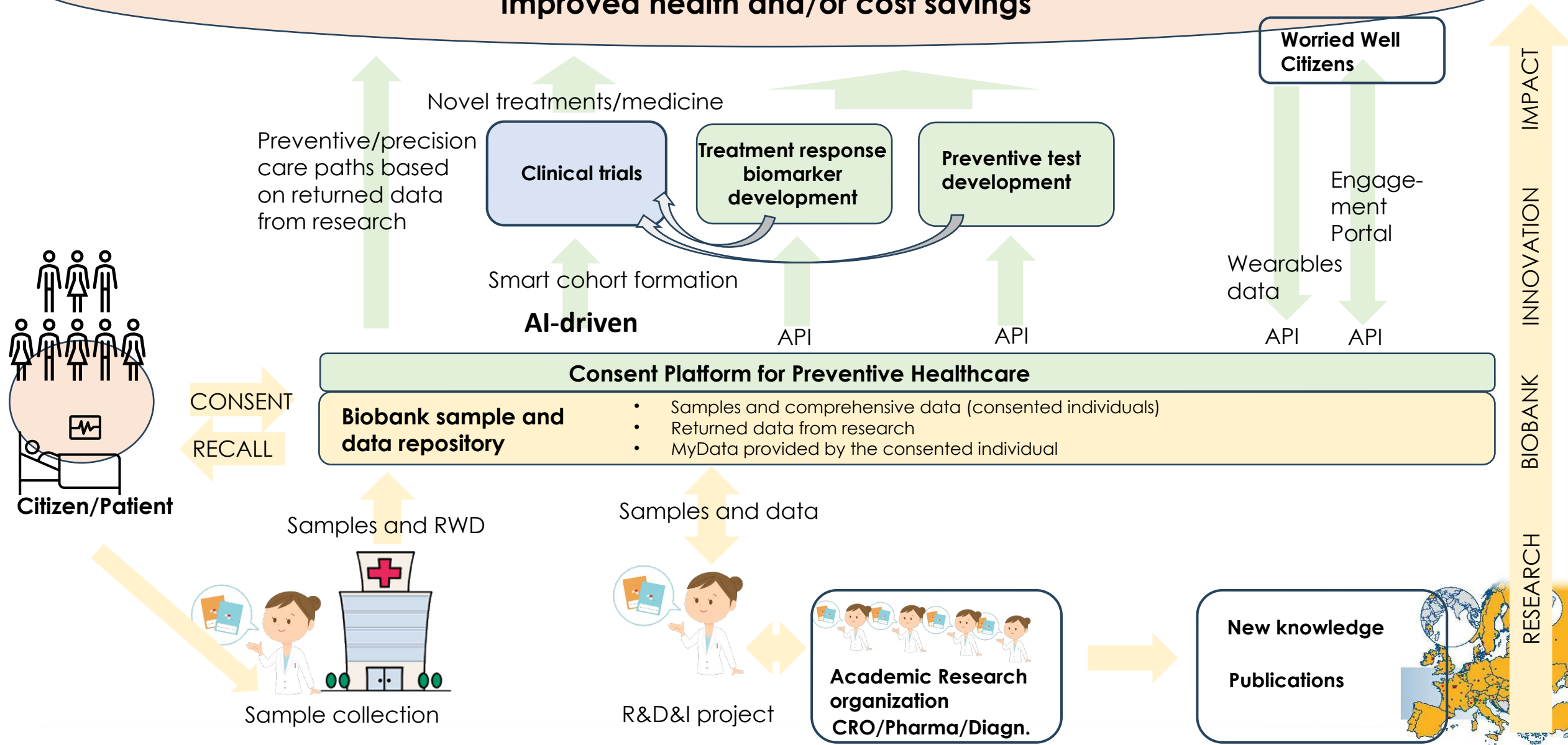
New knowledge
Publications



IMPACT
INNOVATION
BIOBANK
RESEARCH

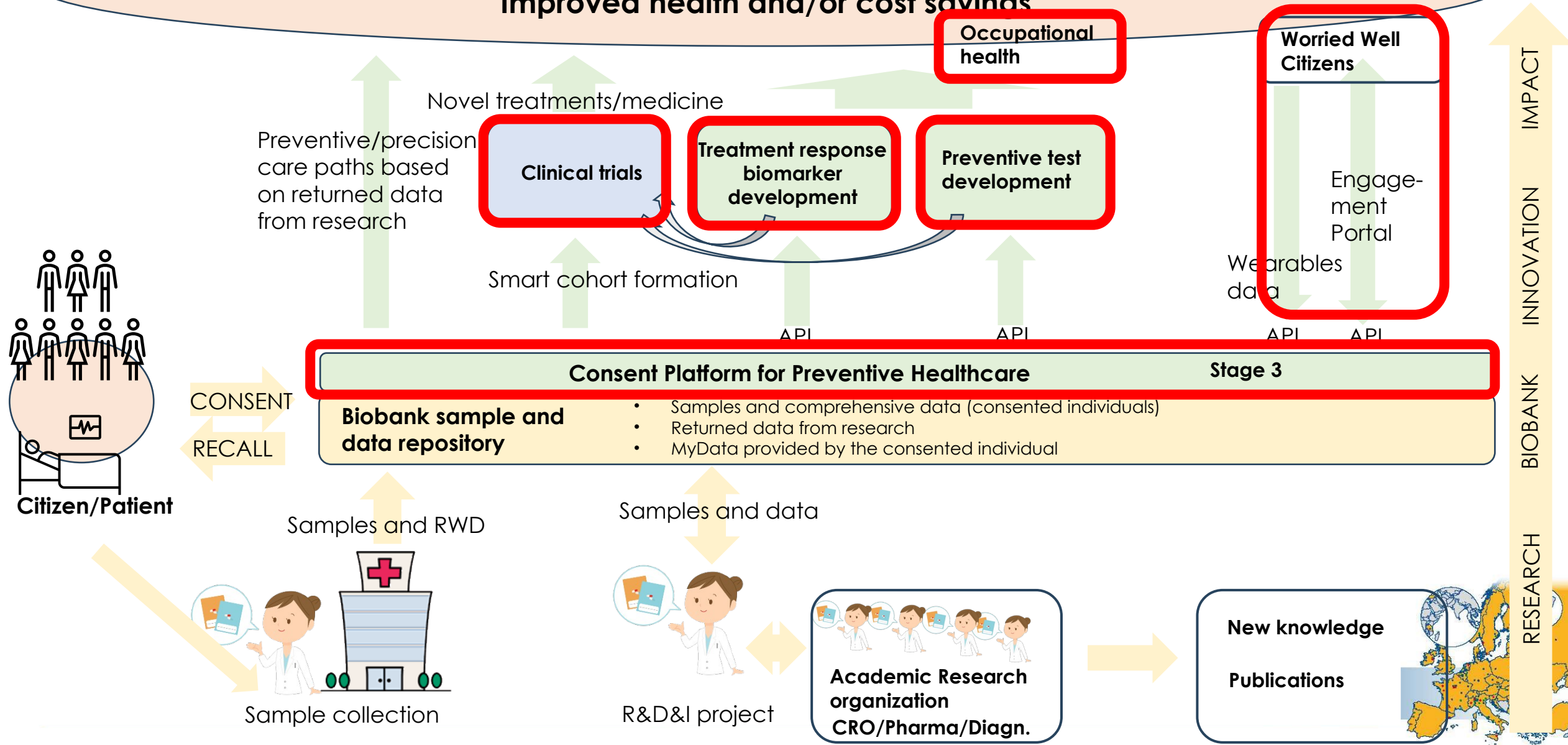
Healthcare Impact

Improved health and/or cost savings



Healthcare Impact

Improved health and/or cost savings



**EHDS
COMPLIANT
FEDERATED
ACCESS TO ALL
PARTICIPATING
CENTRES**

Organisation of





Thank You

Eero Punkka
Otto Manninen
Minja Pehrsson
Heli Salminen
Olli Carpén

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