# Gravitate-Health

**Empowering and Equipping Europeans with Health Information for Active, Personal Health Management and Adherence to Treatment**

## Vision, objectives and progress

**Anne Moen, Professor, University of Oslo, Coordinator Gravitate-Health**

**www.gravitatehealth.eu**

# Gravitate-Health Hackathon#1 hybrid event from Athens, Greece



**Follow progress on the HACKATHON website**: https://hackathon1.gravitatehealth.eu

# GRAVITATE HEALTH Public-Private Partnership

**41 partners in Europe & USA**

**60 months**
11/20 – 10/25

**19.4 M €**

**European start Global Outreach**

## ACADEMIA / RESEARCH INSTITUTES

Universitetet i Oslo (UiO) (Coordinator)
Karolinska Institute (KI)
Universidad Politécnica de Madrid (UPM)
Empirica (empirica)
Norwegian Center for eHealth research (NSE)
The European Institute for Innovation through Health Data (i-HD)
Università Cattolica del Sacro Cuore (UCSC)
University of Copenhagen (UCPH)
Trinity College Dublin (Trinity)
University College Dublin (UCD)

## REGULATORS & PRODUCT INFORMATION PROVIDERS

Norwegian Medicines Agency (NoMA)
Spanish Drug Agency (AEMPS)
Dutch Medicines Evaluation Board (CBG)

## STANDARDISATION & OTHER STAKEHOLDERS

HL7 Europe
PredictBy* (PBY)

## PATIENT ORGANISATIONS & CONSUMER GROUPS
Forum Européen des Patients (EPF)

## DISSEMINATION & COMMUNICATION
European Connected Health Alliance (ECHA)
HIMSS Europe
MINDVIEW* (MW)
The Synergist*

## HEALTH CARE PROVIDERS & PAYERS

Akershus University Hospital (AHUS)
Shared Services of Ministry of Health (SPMS)
Servicio Madrileño de Salud (SERMAS)
Beth-Israel Deaconess Medical Center (BIDMC)
Karolinska Institute (KI)
Oslo University Hospital (OUS)

## DIGITAL TECHNICAL EXPERTISE

Datawizard* (DW)
GuardTime*
Norsk e-Helse* (NeH)
Trifork

## EFPIA & IMI2 Associated PARTNERS

Pfizer (Project Lead)
AstraZeneca (AZ)
Bayer
Grünenthal (GRT)
EliLilly
Medidata
Viatris
Novartis
Roche
UCB Biopharma (UCB)
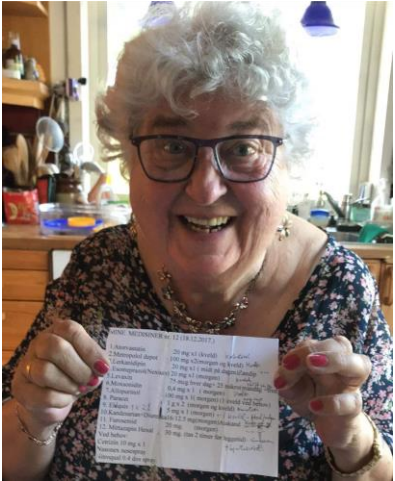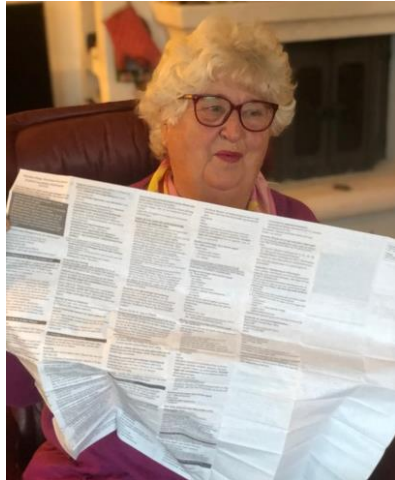Janssen
Datapharm

*SME (small and medium sized enterprises)

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# GRAVITATE HEALTH in a nutshell
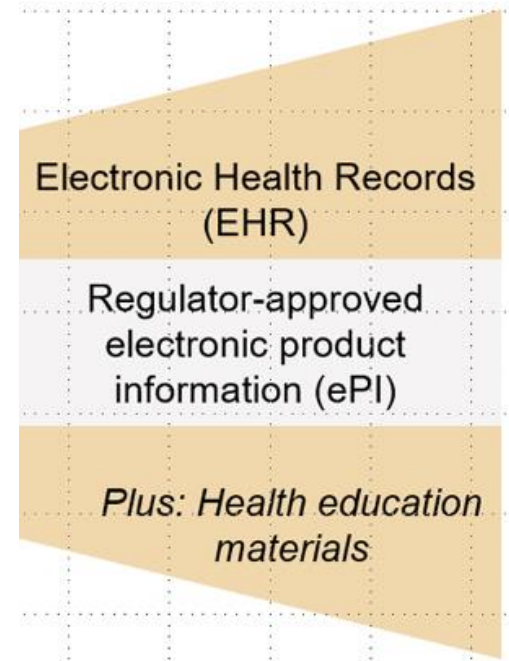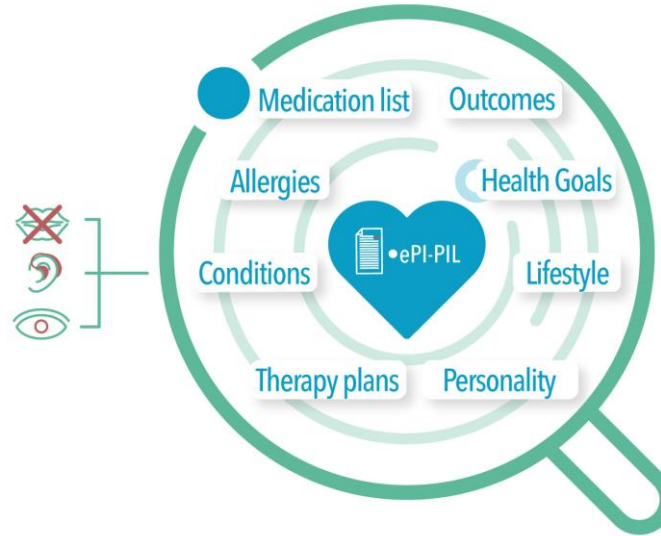## An integrated digital health information project

### "Maria and her medicines"


Picture: Line H. Linstad, NSE


Picture: Hanne Bjertnes, UiO



Medication list
Outcomes
Allergies
Health Goals
Conditions
ePI-PIL
Lifestyle
Therapy plans
Personality



Electronic Health Records (EHR)

Regulator-approved electronic product information (ePI)

Plus: Health education materials

## *Overall Research Question*

*How can we apply an open access digital platform with trusted Digital health Information to transform the way patients access and understand health information, and apply this in personal health for adherence to treatment, risk minimization and quality of life ?*

## *Key deliverables*

- Federated open source platform with G-lens services
- White Paper on strategies for future use of ePI
- Pilot studies evaluation
- Sustainable impacts

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# Illustrating work in GRAVITATE HEALTH



Defining the G-lens design methodology - personas

User experience – information services

User advisory group and healthcare ecosystems – 'patient voice' and capacity building. Active external engagement, connections and presence.

VULCAN

Accessing cross-border product information (preferred EU language)*

Capable.healthcare prototype

EMA's ePI test server

VULCAN

Example of basic G-lens focusing of product information*

Capable.healthcare prototype

ePI from Felleskatalogen

Applied G-lens criteria: Demographics, conditions, allergy and intolerance

Pregnancy related - suppressed

Lactose Intolerance related - highlighted

* *A global HL7 FHIR standard for ePI is in development based on this work. See* [here.](#)

# GRAVITATE HEALTH - FOSPS with G-lens services, MVP2

- **Medication List**

  list of user's medications as prescribed by the doctor

- **International Patient Summary (IPS)**

  read out / consultation of user IPS and IPS definitions

  (it has been decided that the user will not be able to edit the fields of the IPS)

- **Search within e-leaflet**

  user can search for words or phrases within the leaflet

- **Focused e-leaflet**

  user can select one or more lens(es) and read the highlighted content

- **Search within e-leaflet**

  user can search for words or phrases within the leaflet

- **Settings – accessibility**

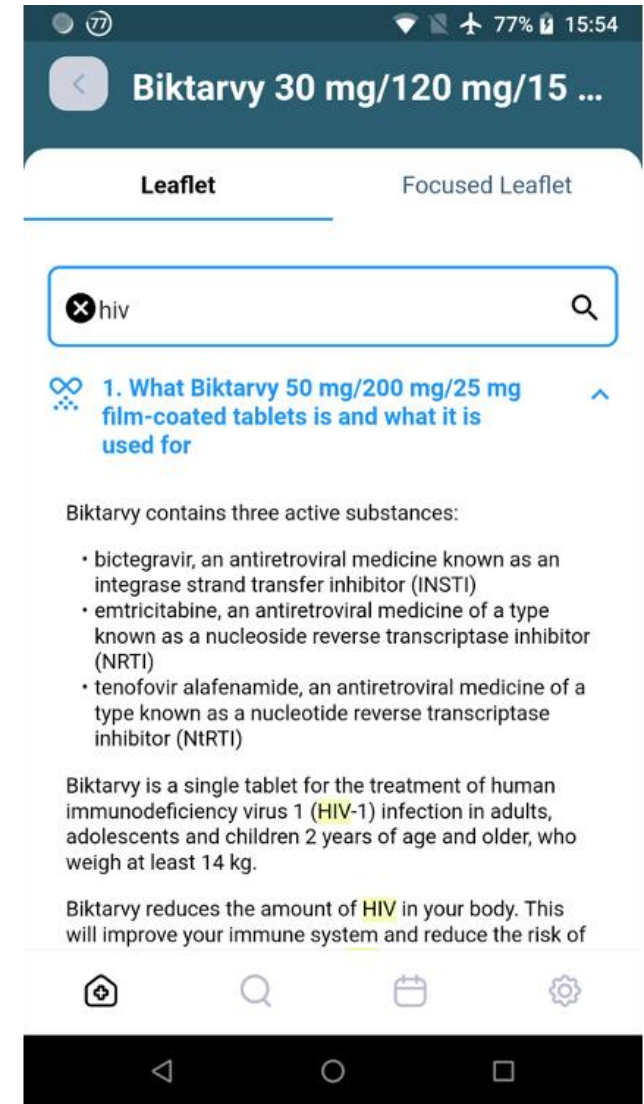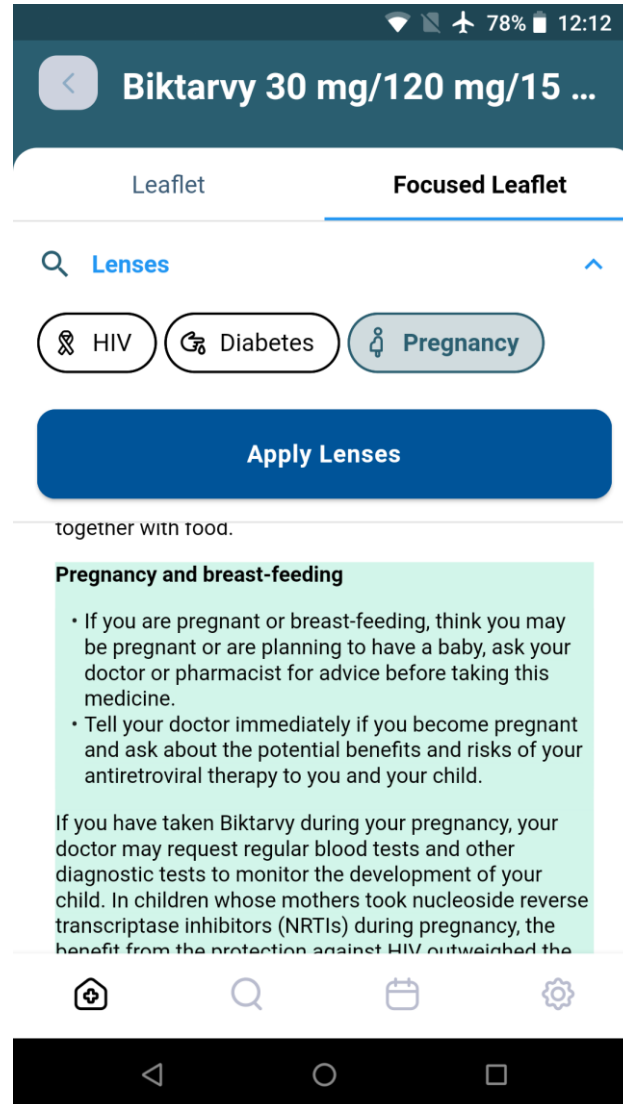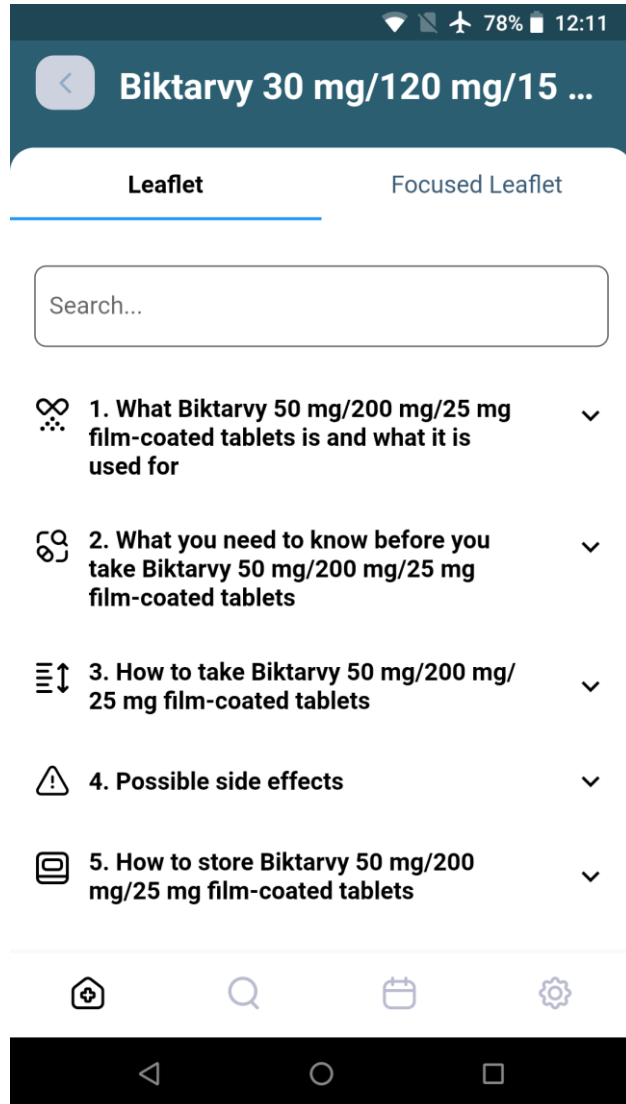  user can change language, set dark mode and change the font size of the texts in the application

Approch Assumptions

Success criteria

Resources used

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# GRAVITATE HEALTH - FOSPS with G-lens services, MVP2

# G-lens® development → optimising benefits in patient journey

**Clinical Decision Making**

**Starting point: POST Prescription**

**Medication List**
prescription (POM) and "over the counter" (OTC)

**FAIR,**
equitable access
explainable for all
accountable
safe, trusted

**G-lens®** focusing

| ePI | aRMM supplement | Product use "experience, advice" | User info IPS def. | User context | Plus HEM: Trustworth' health information |

**ePI(s)** (full or focused) → higher adherence, optimize benefit

**Library of G-lens®**



**Transparency Accountability**

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# GRAVITATE HEALTH → Access – Adherence – Safety

## Multi-lingual focused information
### ePrescription – (e)Dispensation



## ePI
### medicinal product info

| | |
|---|---|
| 1 | List |
| 2 | Bundle |
| 3 | Composition |
| 4 | Binary |
| 5 | Organization |
| 6 | RegulatedAuthorization |
| 7 | MedicinalProductDefinition |
| 8 | PackagedProductDefinition |
| 9 | AdministrableProductDefinition |
| 10 | ManufacturedItemDefinition |
| 11 | Ingredient |
| 12 | ClinicalUseDefinition |
| 13 | Substance |

## Cross-border mobility
### - trust and safety -



**IMPROVING ACCESS UNDERSTANDING**
*Language – Focusing Content*
Risk Minimization – Patient Safety

**INTERNATIONAL STANDARDS**
**FHIR** Interoperability
**IDMP** identify product

Deploy
Demonstrate
**SUSTAINABILITY**
**EXPLOIT – INNOVATE**

# S.M.A.R.T. Information
→ FAIR access – equitable information – trusted knowledge



**S**afe, Suitable, Sustainable

**M**eaningful, Motivating

**A**vailable, Accountable, Accessible

**R**elevant, Reliable, Resilient

**T**ransparent, Team effort

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# Gravitate-Health ePI Technology Community

## Accelerating the Vision

Develop a path to achieve critical mass (i.e., 80% of ePIs converted to FHIR) within two years.
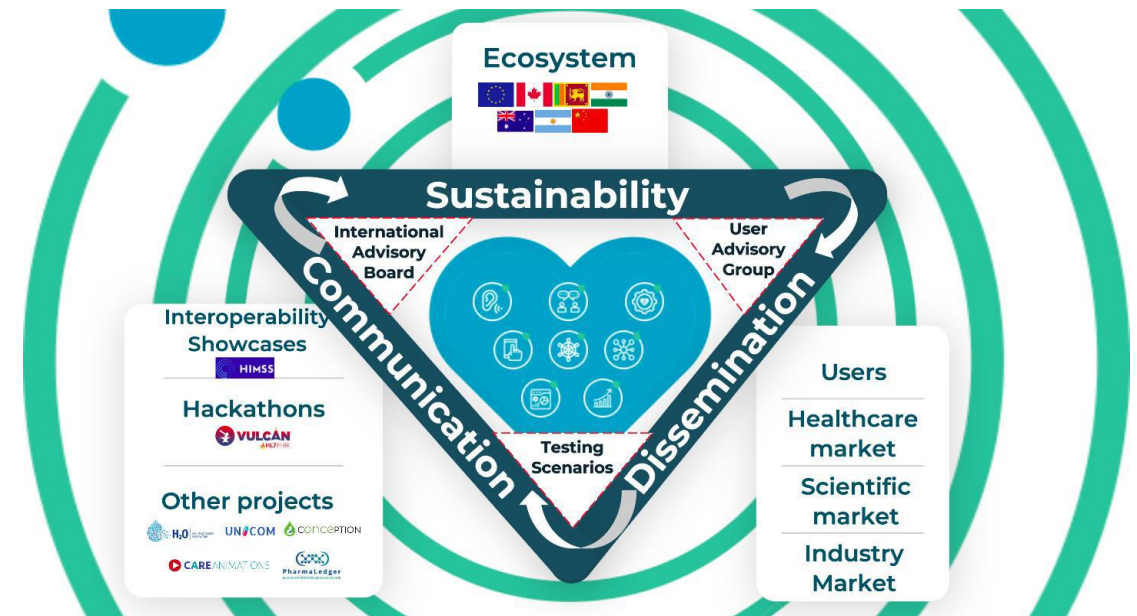
### Diverse attendance
- Structured Content Authoring (SCA) Providers
- Regulatory Information Management (RIM) Providers
- Software developers
- Medicinal Product Information Compendia
- Health Authorities

### Topics
- ePI vision / FHIR
- Perspectives; Health Authority, Industry, Compendia
- EMA ePI Tool
- How SCA can support Product Information vision (vendor demos)
- Focusing

## Key strategic partner for Triangle

- ❑ Disseminating the vision
- ❑ Creating ePI
- ❑ Developing the marketplace

# Gravitate-Health ePI Technology Community  - join us !

Accelerating t[...]Triangle

Develop a pa[...]
80% of ePIs [...]
years.

Diverse atten[...]
- ❑ Structured Co[...]
- ❑ Regulatory Inf[...]
- ❑ Software deve[...]
- ❑ Medicinal Proc[...]
- ❑ Health Authori[...]

Topics
- ❑ ePI vision / FHI[...]
- ❑ Perspectives; H[...]
- ❑ EMA ePI Tool
- ❑ How SCA can s[...] demos)
- ❑ Focusing

**JOIN THE COMMUNITY VIA 'CONTACT US': Contact - Gravitate Health**

# Gravitate Health

# Thank You

contact@gravitatehealth.eu
www.gravitatehealth.eu
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