



WP6: Genomics in Cancer Control and Care

Marc Van den Bulcke - Cancer Centre - Sciensano



Co-funded by
the Health Programme
of the European Union

WP6 Genomics and Cancer

Scope: Develop practical guidance for Member States on:

- 1) organizing the **societal debate** on ethical, legal and privacy issues on the use of genome information in healthcare
- 2) installing stratified screening by **genetic testing** of high-risk cancer patients
- 3) implementing **precision genomics** in medical care
- 4) how to deal with '**Direct to Consumer**' testing
- 5) education and training on genomics of health professionals, policy makers and the citizens

- **Task 6.1: Applying genome information in health care: a paradigm shift in healthcare**

Task Leader: Sciensano, Participating Partners: ISS, ISS (MoH)

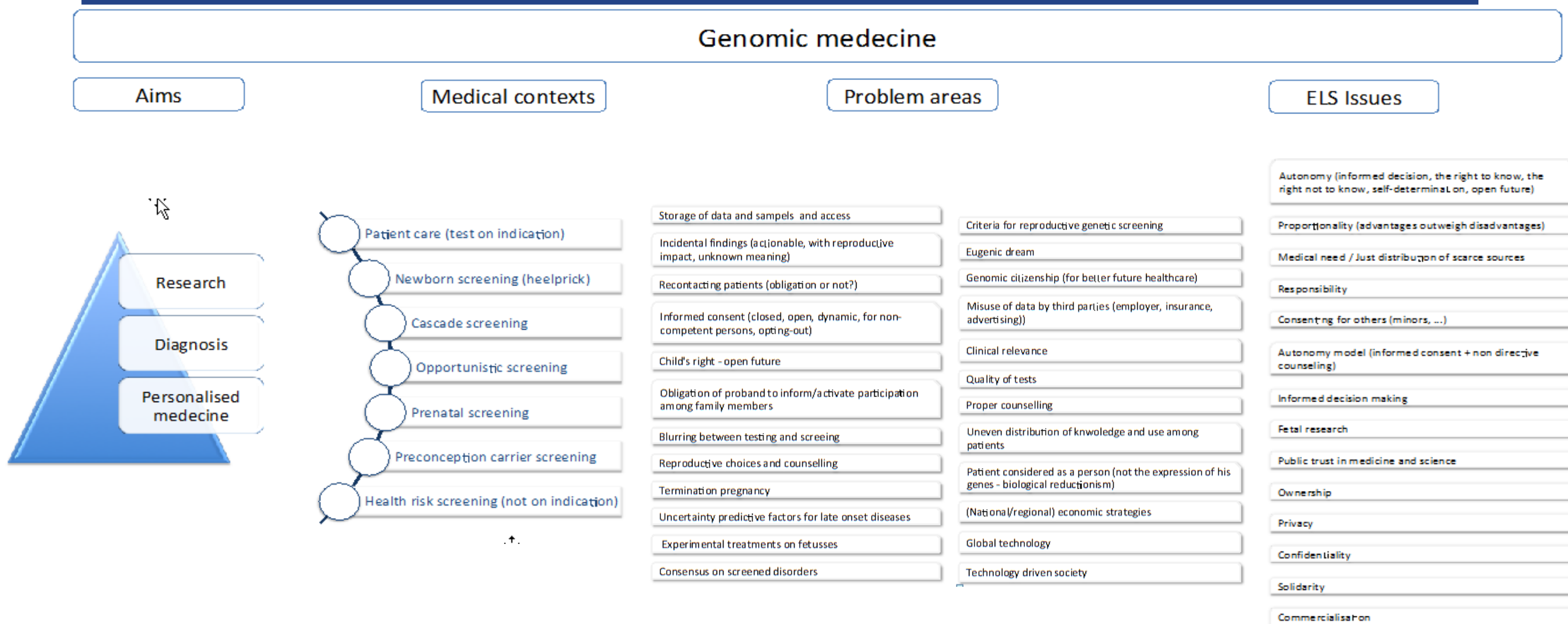
- **Task 6.2: Concept for the implementation of risk-adjusted prevention: the breast cancer case**

Task Leader: ISS, Participating Partners: Sciensano, BMG, INCa, ICO, NIJZ (IOL), BcSAS, 7HRC

- **Task 6.3: Requirements and prerequisites for implementation of 'omics' in routine molecular diagnosis in oncology**

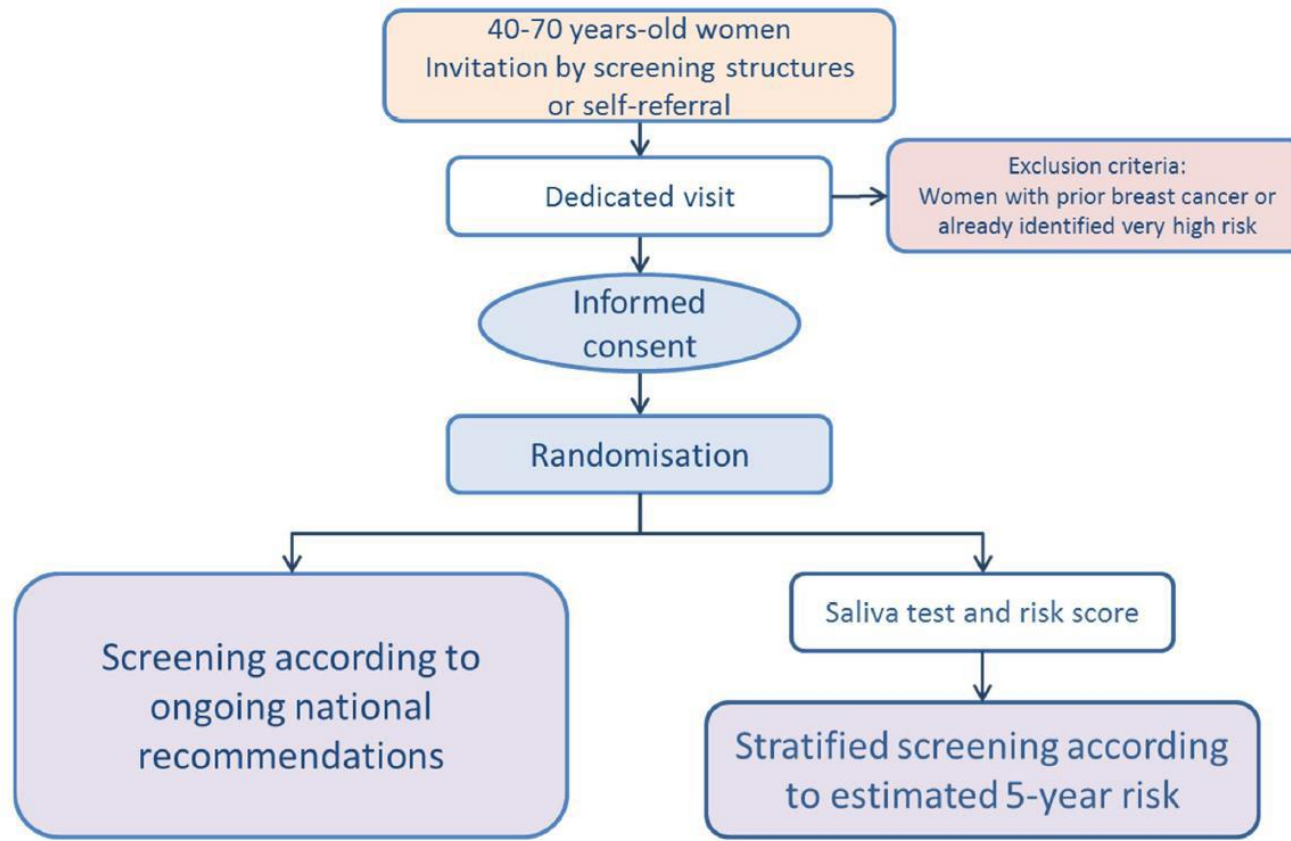
Task Leader: Sciensano, Participating Partner: ICO, IPHS (IORS), IPHS (OIV), IPHS (MFUB), MFH

TASK 6.1: APPLYING GENOME INFORMATION IN HEALTH CARE: A PARADIGM SHIFT IN HEALTHCARE

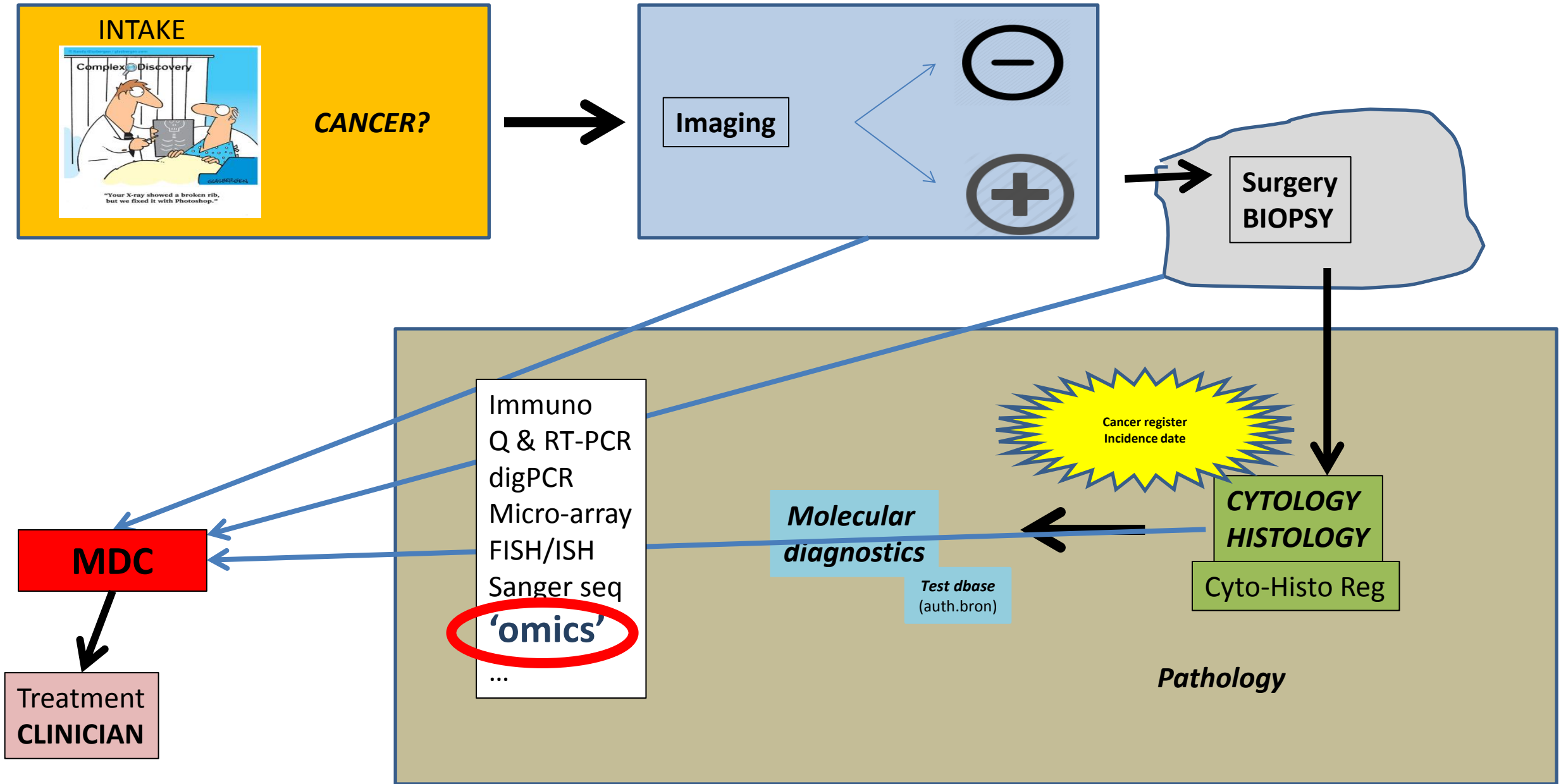


TASK 6.2: GENETIC SCREENING: PILOT STUDY

Fig 1: MY-PEBS' CLINICAL TRIAL STRUCTURE



Task 6.3: Introducing 'omics' in the healthcare system



- **Task 6.4: ‘Direct to Consumer’ genetic testing**

Task Leader: ISS, Participating Partner: Sciensano

- **Task 6.5: Education and training on genomics for healthcare professionals**

Task Leader: ISS, Participating Partner: Sciensano, 7HRC

- **Task 6.6: Drafting of the Road Map – genomics**

Task Leader: Sciensano, Participating Partners: ISS, ISS (MoH), BMG, INCa, ICO, NIJZ (IOL), BcSAS, 7HRC, IPHS (IORS), IPHS (OIV), IPHS (MFUB), MFH

TASK 6.6: DRAFTING OF THE ROAD MAP – GENOMICS

Deliverable linked to this work package

D 6: Roadmap on Implementation and Sustainability of Cancer Control Actions in the field of genomics (M 34)

Milestones to be reached by this WP

M 6.1. Launch of expert working groups (M 6)

M 6.2. Symposium on Genomics in Cancer Control and Care (M 30)

WP6 GENOMICS AND CANCER

Specific Objective Number	3
To develop a comprehensive approach to the use of genomics in cancer control and care	
Process Indicator(s)	Target
Identification of the iPAAC countries who have or are in the process or are interested in introducing genomics analysis in routine diagnostics in cancer at regional/country level	At least 3 countries among the iPAAC partners
National workshops documenting the implementation of genomics in the HCS	Organisation of two national workshops
Questionnaire on ethical, legal and privacy (ELP) issues with the use of genomics information in the healthcare system	Response rate of at least 70%
Workshop to discuss the results of the surveys (ELP issues, integration of ELP issues on use of Genomics in HCS)	80% of participants expressing satisfaction with the work-shop content
Protocols for the literature reviews on education and 'Direct-to-consumer'	Approved study protocols

WP6 GENOMICS AND CANCER

To develop a comprehensive approach to the use of genomics in cancer control and care

Output Indicator(s)

Target

Report on algorithms/guidelines of the use of genomics in HCS

1 Report on the iPAAC website as planned.

Report on implementation schemes/tools for the use of genomics in the HCS
Report on ELP issues with genomics and their integration in HCS

1 Report on the iPAAC website as planned.

1 Report on the iPAAC website as planned.

Report on education issues with genomics and their integration in HCS
Report on DTC issues

1 Report on the iPAAC website as planned.

1 Report on the iPAAC website as planned.

Outcome/Impact Indicator(s)

Target

Country- and cancer-specific procedures to derive quality assessment indicators through integration of data sources on genomic information

At least one cohort of patients with highly frequent cancers established in at least one Member State.

At least 5 major cancers (including colon, lung, ovary, pancreas and hematological cancers) with country specific procedures/algorithms for using genomics in routine diagnostics

WP6 GENOMICS AND CANCER

Identified RISK	Likelihood	Impact	Contngency planning
WP 6 – diversity of the topics	Medium	Medium	Strict monitoring at Roadmap Coordination Committee and the Governmental Board
WP 6- overlap with ongoing initiatives in other EC programs	High	Medium	Communication at various national, international initiatives on iPAAC activities, links through the expert group on cancer, IC PERMED, etc....

BELGIUM:

- **Sciensano** is the scientific reference in the field of public health in Belgium. For 112 years, they have supported health policy and policy-making through innovative research, analyses, monitoring activities and expert advice.
- **Key staff:**
 - ❑ **Assoc. Prof. Herman Van Oyen**, Medical doctor, PhD
 - ❑ **Marc Arbyn**, Medical Doctor, PhD
 - ❑ **Marc Van den Bulcke**, PhD
 - ❑ **Aline Hébrant**, Ir PhD
 - ❑ **Wannes Van Hoof**, PhD
 - ❑ **Regine Kiasuwa**, MSc

- **Upcoming meetings:**

- ☐ Kickoff meeting: July 2018
- ☐ WP6 meeting linked to EUPHA symposium at the end of November 2018 (Slovenia)
- ☐ Meeting parallel to EC congress on 'Breast cancer and genomics' to be held in February 2019 in Brussels (Be)

WP6 GENOMICS AND CANCER



THANK YOU