



BROKERAGE FOR HEALTH

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Computer Aided identification of Fatigue in Cancer Survivors

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BACKGROUND

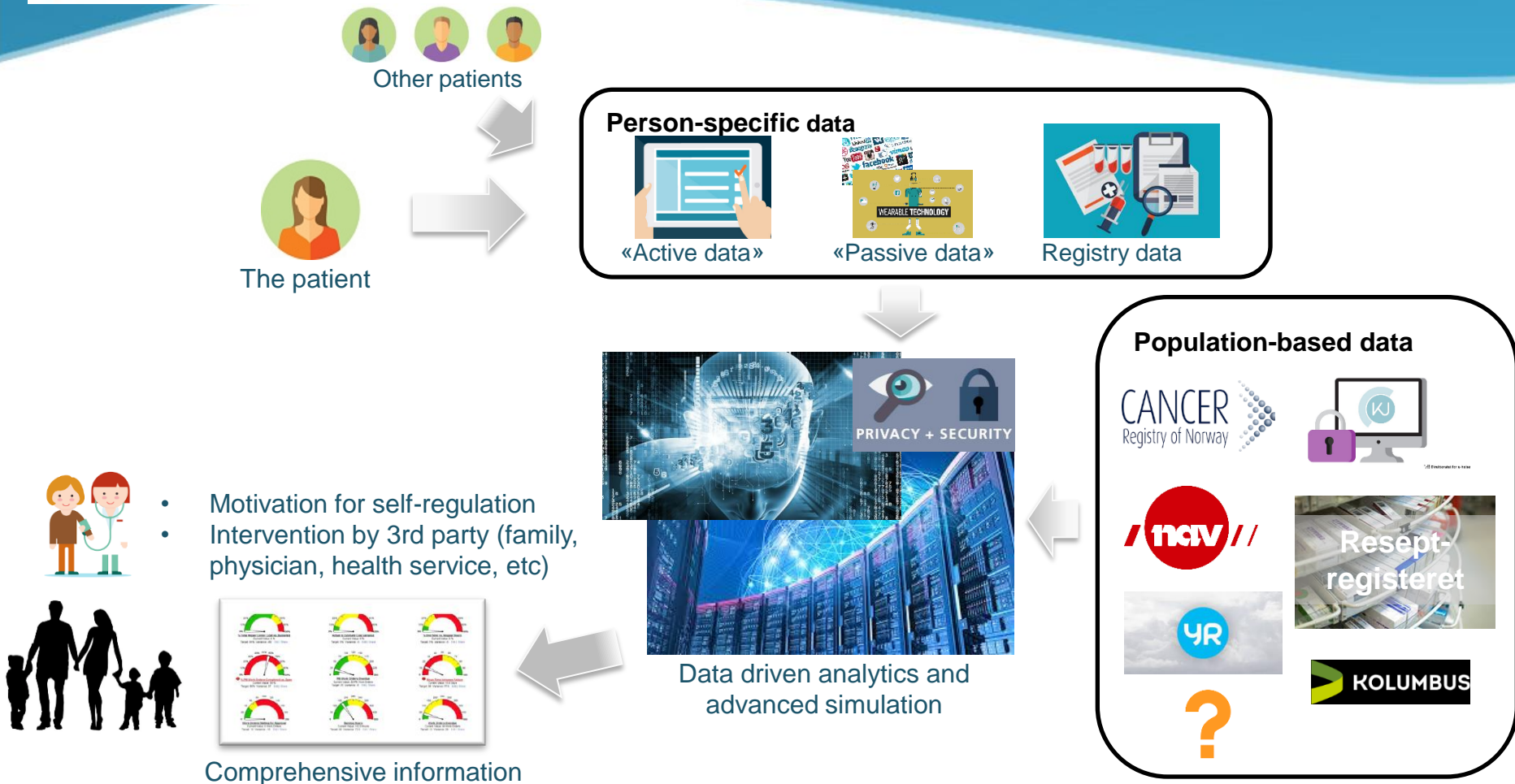
- HORIZON 2020 proposal SC1-DTH-01-2019:
Big Data and Artificial Intelligence for monitoring health status and quality of life after the cancer treatment
 - Cancer related fatigue (CRF) is the most prevalent adverse effects from cancer treatment, and may deteriorated health-related quality of life
 - Big Data can bring valuable information when addressing CRF, and if possible, preventing long-term effects of cancer treatment
 - Mapping and analyzing Big Data on CRF may facilitate a better and faster response, leading to improved quality of life after cancer treatment, as well as better knowledge for improved patient counselling, and for patient follow-up



OBJECTIVES

- Build a technical solution to acquire, manage, share, model, process and exploit big data to effectively monitor fatigue in individual breast,- prostate,- and colorectal cancer patients

«Build a machine that can collect, manage, analyse, and interpret data from cancer survivors, and quantify health situation and quality-of-life»



EXPECTED IMPACT

- Mapped comprehensive big data in a reachable and manageable way
- Emerging data driven analytics and advanced simulation methods
- Better and faster response leading to improved quality of life after cancer treatment
- Better knowledge for improved patient counselling, as well as for follow-up of patients
- Novel information on health maintenance
- Evidence base for the development of policy strategies for prevention, early diagnosis, support to patient registries at national level



METHODOLOGY

- The study will apply mixed-methods design comprising patient registry data collection and analysis, and development and testing / simulation of the technical solution



The consortium

What we have:

- University of Stavanger and Stavanger University Hospital:
 - Researchers and clinicians that are experts in:
 - Cancer treatment, cancer survivorship and fatigue management
 - Quality of life in cancer survivorship
 - Follow-up needs in cancer survivors
- NORCE/IRIS:
 - Big data analytics
 - Artificial intelligence
- In dialogue with potential SME partners within the ICT domain

What we need:

- Partners with relevant competencies and technology for realizing «the machine»:
 - Skills in how to gather behavioural data
 - Security and privacy of data – technical solution and regulatory compliance
 - A data management and analytics platform
 - Knowledge of PROM and PREM
 - Data gathering from wearables? And wearables that can be used for this purpose?
 - Experience with registry data from Norwegian health registers



Contact details

Thank you!

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