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eosc | cancer

# EOSC4Cancer

A European-wide foundation to accelerate  
Data-driven Cancer Research

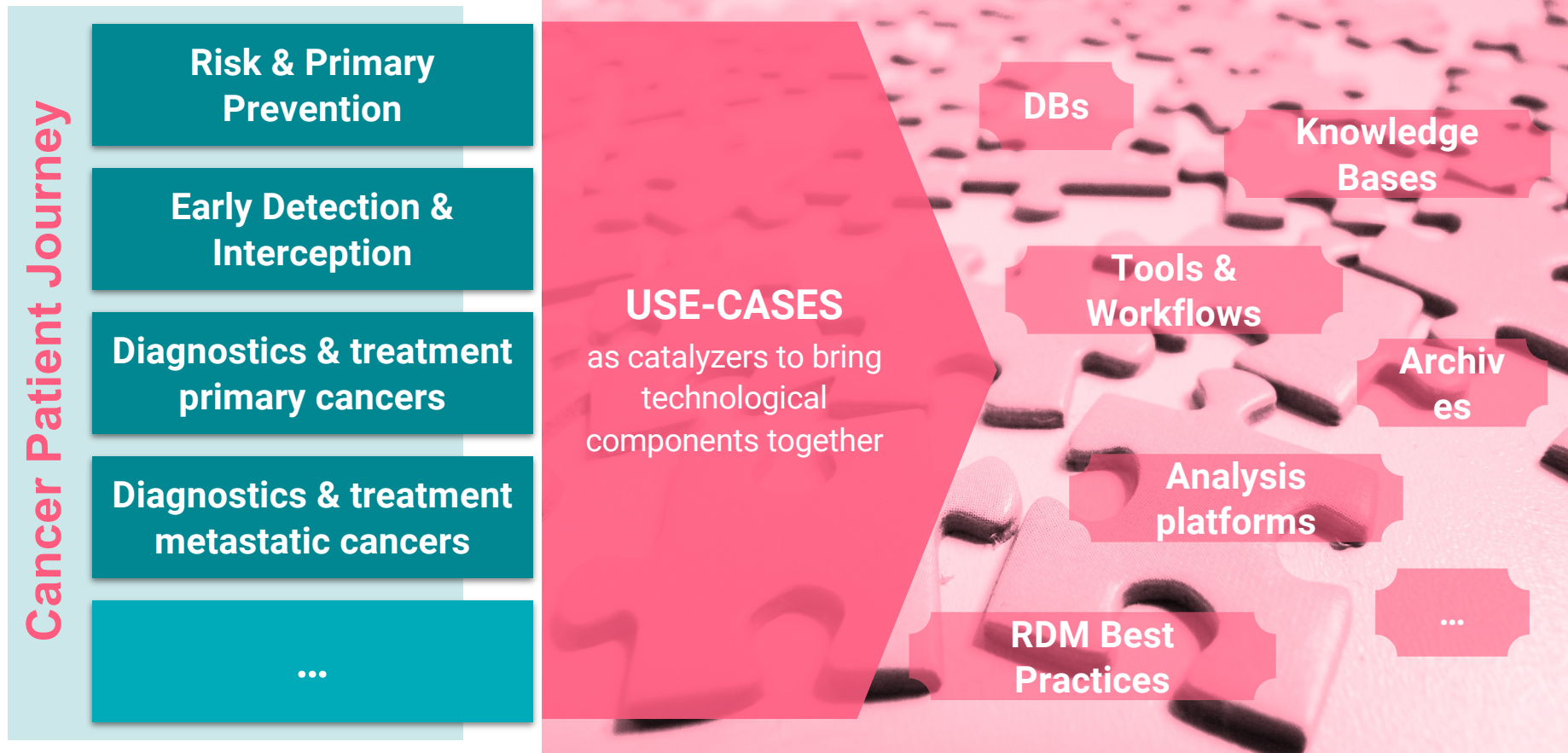
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# EOSC4Cancer: the cancer research point of view



## Colorectal Cancer use-cases

Cancer risk identification and prevention by linking environmental data to **cancer registry** data

Data-driven optimisation of **cancer screening** programs

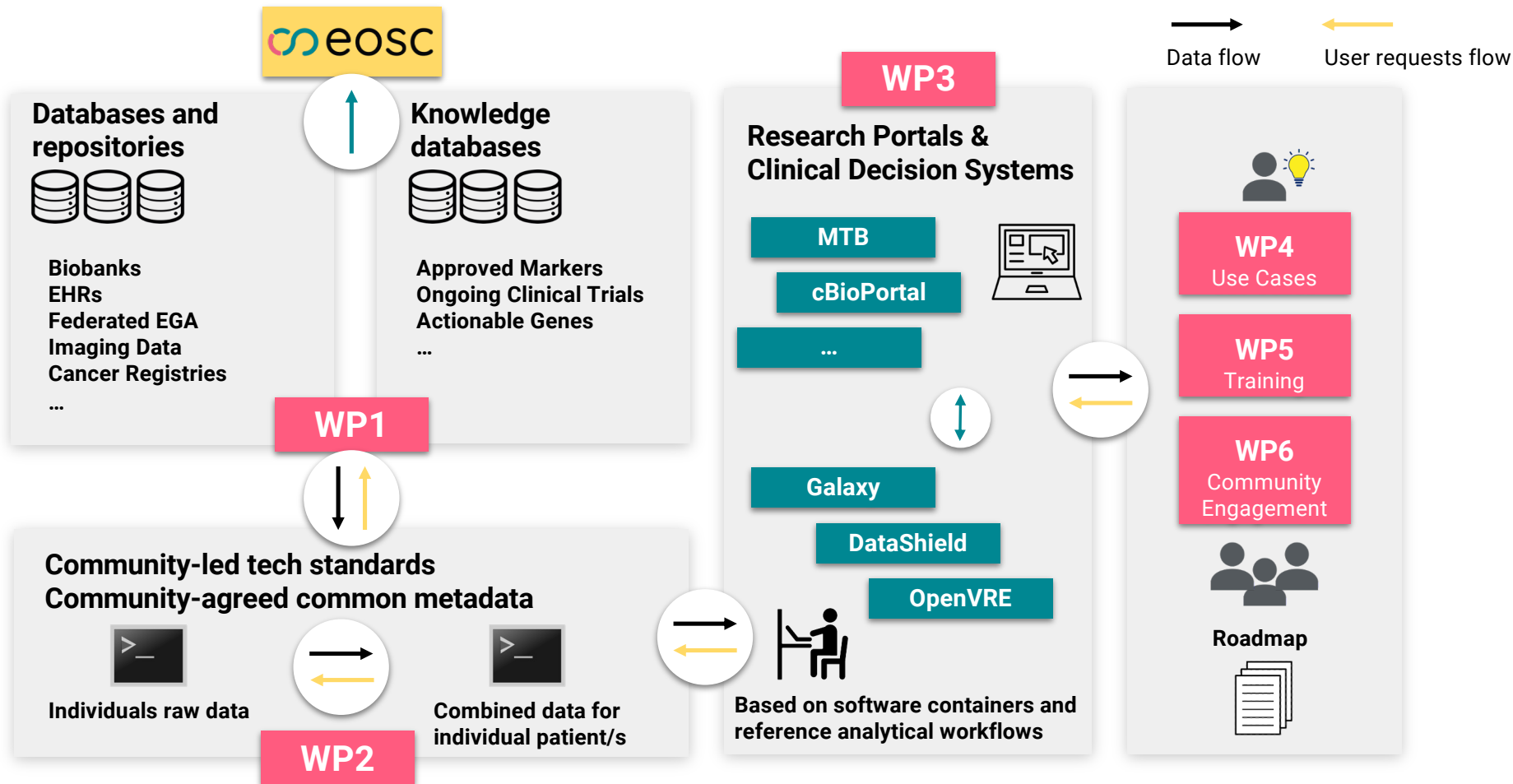
Data-driven treatment selection for localised tumours with **multiple patient-derived data types**

Data-driven treatment selection for localised tumour: improving the treatment of colorectal cancer by the inclusion of **circulating DNA information**

Connecting omics data from multiple sources to a **Clinical Decision Support System** (CDSS) for precision treatment of metastatic CRC

Provide **TECHNOLOGICAL SOLUTIONS** + identify **GAPS** and **EMERGING NEEDS** to drive further developments

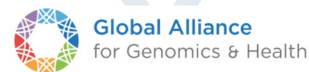
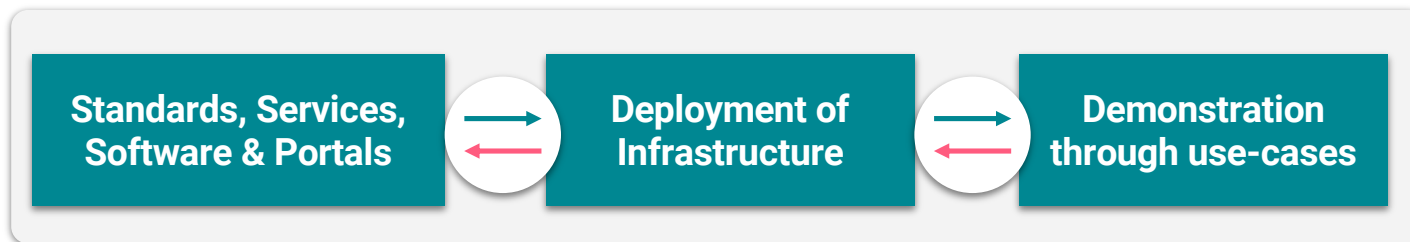
# Technical overview



# Objectives

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- Enable **storage, access, sharing, analysis** and processing of research data and other digital **research objects** from basic and clinical cancer research.
  - Mobilise, **interconnect** and **interoperate datasets** relevant in cancer research.
  - Make cancer research **data** and **analysis systems** accessible to basic and clinical scientists in the most used cancer **analysis portals**.
  - Integrate digital tools, data analytics and Artificial Intelligence/Machine Learning tools for the analysis of cancer data in the cancer analysis portals.
  - Contribute to the **European Health Data Space** (EHDS), the Horizon Europe **European Open Science Cloud** (EOSC) Partnership and the **Cancer Mission**
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# Engagement with (some) key stakeholders



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# Thank you!