Placing Patients First: Continuous Improvement in Care - Cancer (CIC Cancer) Project

Continuous Improvement in Care *cancer*

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Currently…

◎ Cancer is the largest contributor to disease burden in Australia and a leading cause of death in elderly Australians

◎ There are increasing levels of cancer-related hospitalisations (44% more between 2001-2014) and expenditure on hospital-based care ($800m more in 2012-2013 versus 2004-2005)

◎ Rising health care costs do not necessarily correspond with better patient outcomes

We are…

◎ Aiming to bring value-based healthcare (VBHC) into cancer care in public and private hospital settings within Western Australia to help drive improvements in care and patient outcomes. To the best of our knowledge, this is the first time that VBHC processes have been implemented simultaneously across multiple hospitals in both the public and private healthcare sectors

◎ Involving key stakeholders in a major project to measure outcomes important to patients

◎ Using datasets established by the International Consortium for Health Outcomes Measurement (ICHOM) to capture clinical and patient-reported outcomes measures (PROMs) after diagnosis with breast, prostate, colorectal, or lung cancer

◎ Developing a similar dataset for patients diagnosed with less common and poorer outcome ovarian cancer

◎ Creating a web-based environment to collect/extract/integrate data to enable purposeful application of the collected information

◎ Evaluating this data to generate hypotheses and implement interventions within a trial framework

◎ Increasing capacity for health systems and outcomes research

◎ Evaluating the impact of the implementation, including health economics evaluation
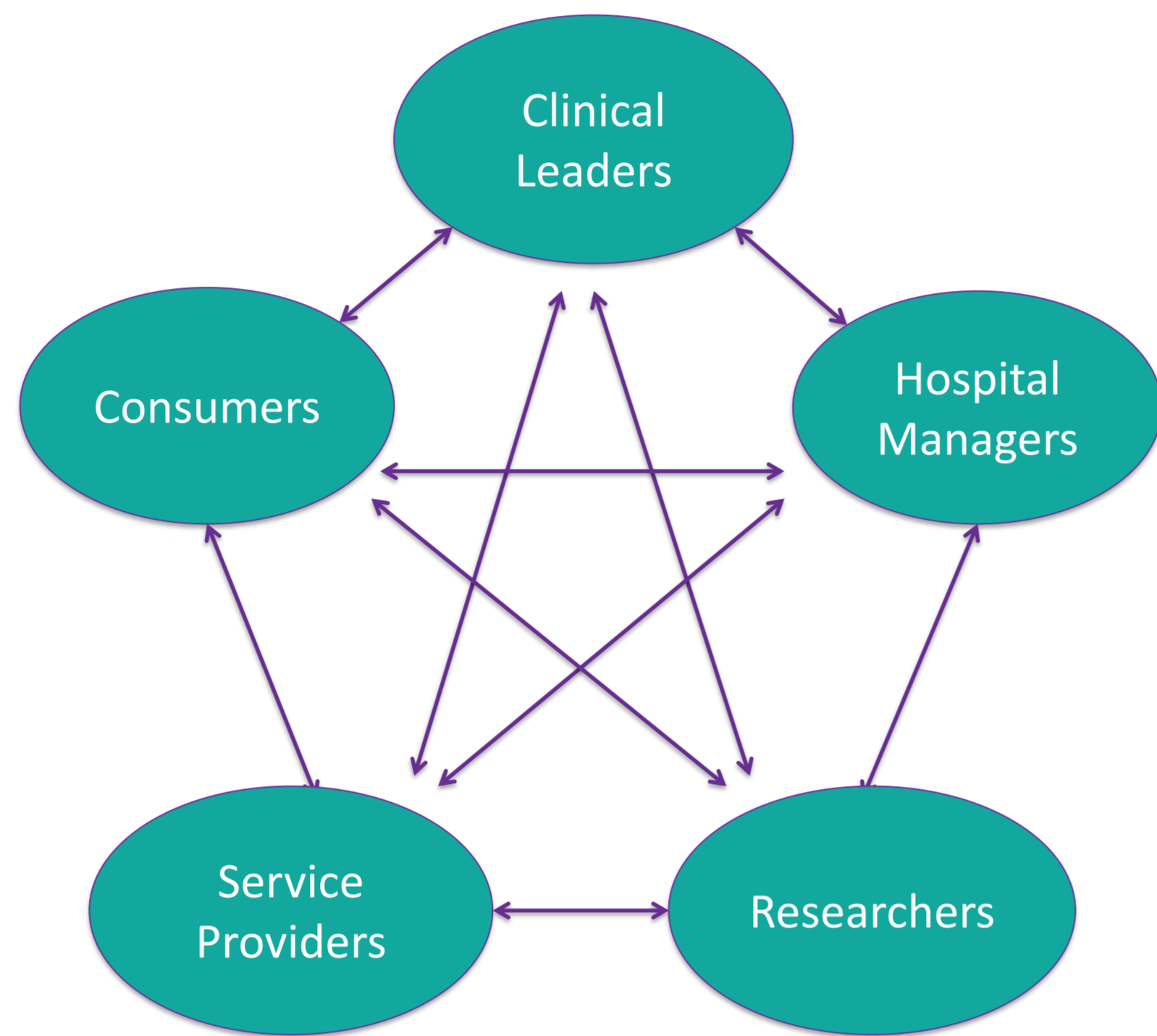
We have already…

◎ Engaged 5 hospital sites (both public and private) and clinical champions across 5 cancer types

◎ Implemented a consumer reference group

◎ Implemented project planning, governance, and ethics processes

◎ Commenced communications and marketing activities (www.ciccancer.com)

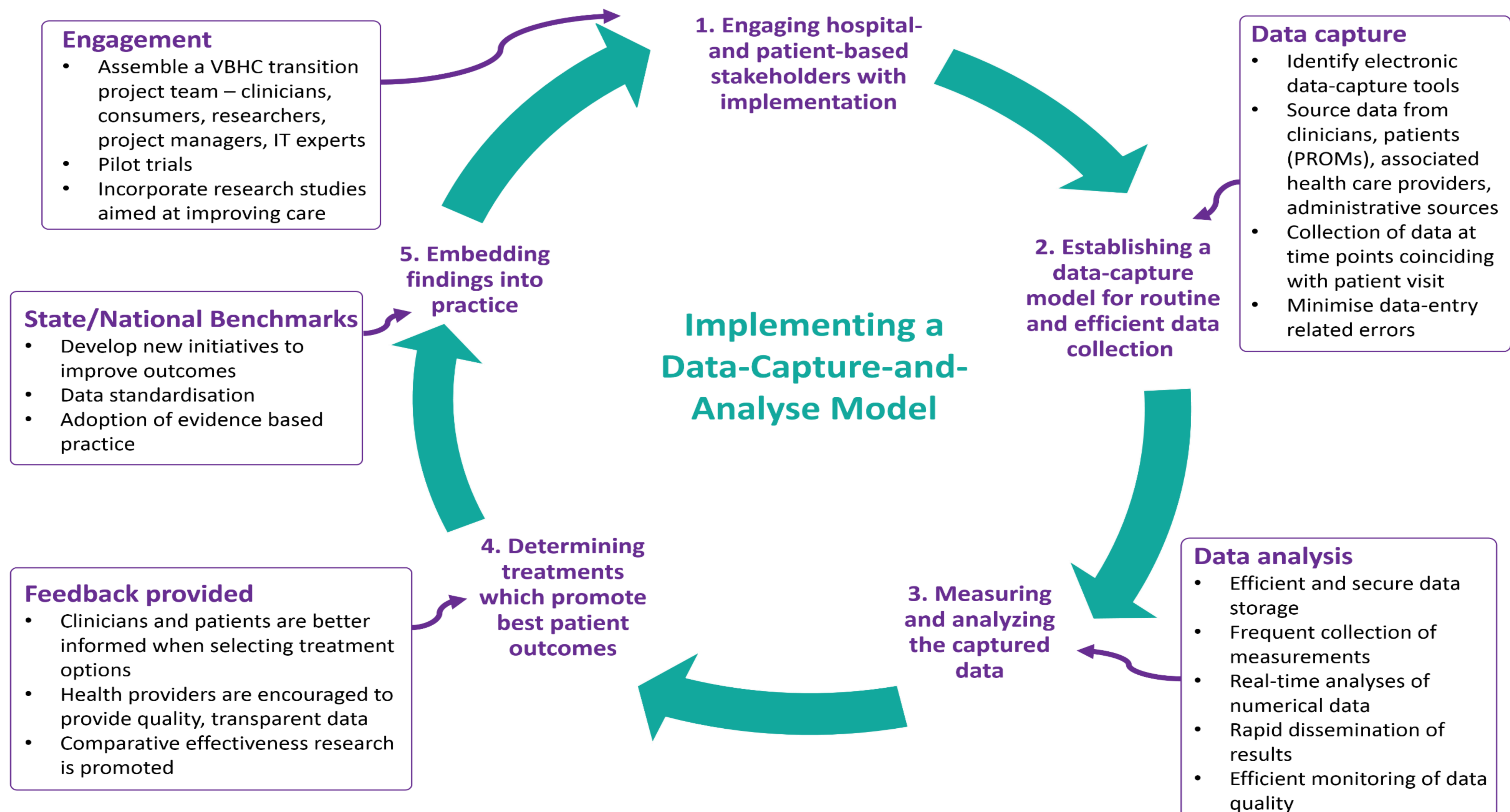◎ Commenced implementation of an informatics platform, including identification and mapping of data needs and flows
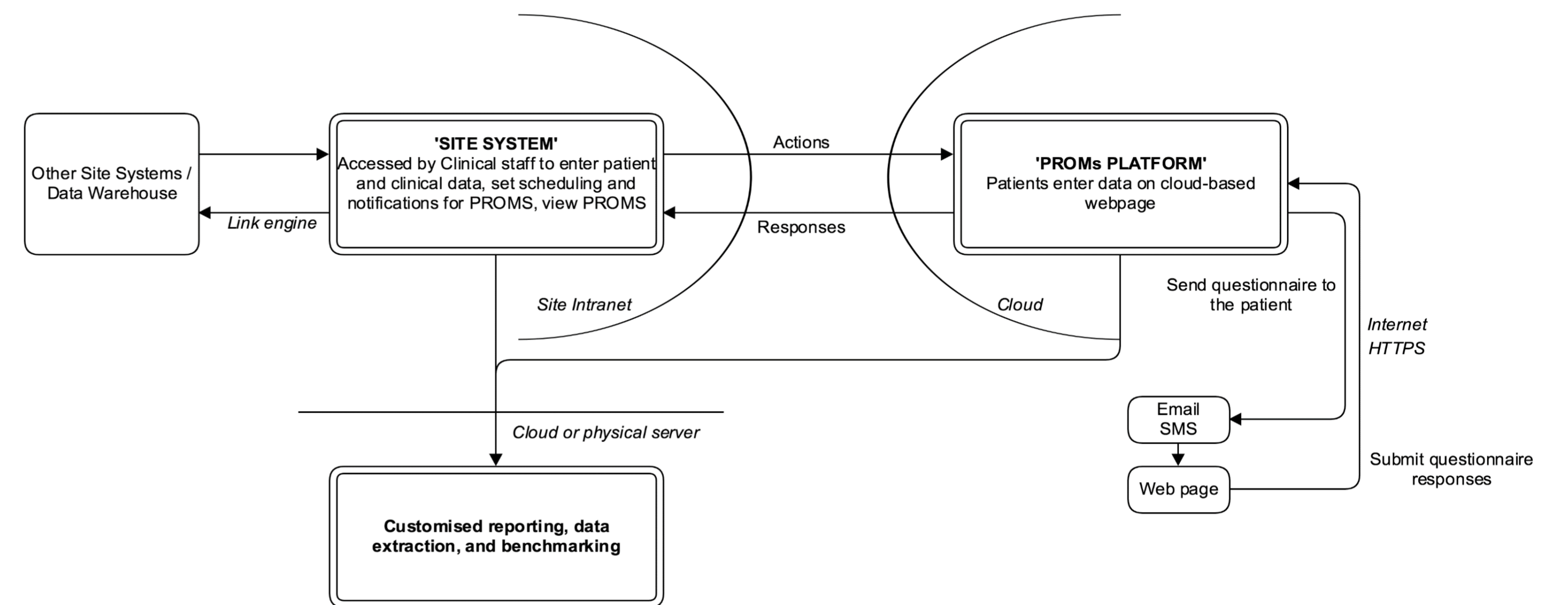
◎ Commenced development of an agreed clinical and PROMs dataset for ovarian cancer with potential links back to ICHOM

◎ Implemented a pilot study to capture PROMs in women with breast cancer

◎ Collaborated with ICHOM, All.Can and the Organisation for Economic Co-operation and Development (OECD)

◎ Implemented postgraduate research training activities

In the future, we hope to…

◎ Demonstrate a proof-of-principle in which comprehensive cancer care is affordable, accessible, evidence-based and able to continually improve patient outcomes

◎ Provide a benchmark for patient outcomes to which cancer treatments are compared against for effectiveness and cost-benefit

◎ Provide a template for bettering the long-term monitoring and treatment of other chronic medical conditions such as cardiovascular disease, asthma, and diabetes

The CIC Cancer project involves…

Engagement
- Assemble a VBHC transition project team – clinicians, consumers, researchers, project managers, IT experts
- Pilot trials
- Incorporate research studies aimed at improving care

1. Engaging hospital- and patient-based stakeholders with implementation

Data capture
- Identify electronic data-capture tools
- Source data from clinicians, patients (PROMs), associated health care providers, administrative sources
- Collection of data at time points coinciding with patient visit
- Minimise data-entry related errors

5. Embedding findings into practice

2. Establishing a data-capture model for routine and efficient data collection

State/National Benchmarks
- Develop new initiatives to improve outcomes
- Data standardisation
- Adoption of evidence based practice

Implementing a Data-Capture-and-Analyse Model

4. Determining treatments which promote best patient outcomes

3. Measuring and analyzing the captured data

Feedback provided
- Clinicians and patients are better informed when selecting treatment options
- Health providers are encouraged to provide quality, transparent data
- Comparative effectiveness research is promoted

Data analysis
- Efficient and secure data storage
- Frequent collection of measurements
- Real-time analyses of numerical data
- Rapid dissemination of results
- Efficient monitoring of data quality

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