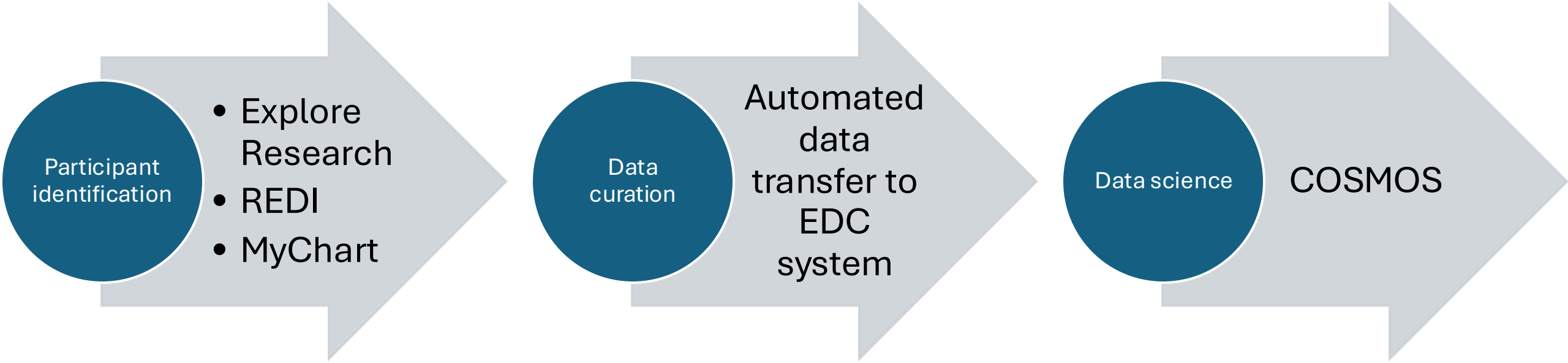
Initiatives to Facilitate (Automate) Research at HHS

Darryl Leong

Associate Chief Medical Information Officer, Research

Hamilton Health Sciences


Participant identification
• Explore Research
• REDI
• MyChart
Data curation
Automated data transfer to EDC system
Data science
COSMOS

Explore Research

- Opt-out model of connecting patients with research opportunities
- Use of Explore Research approved by REB
- Patients eligible if had encounter after Go Live (Feb 24, 2025) & not opted out
- Users must complete Explore Research Reporting training (epictraining@hhsc.ca)
- Generate list of potentially eligible patients – EPIC Reporting Workbench
- Eligible patients can be approached by research personnel outside circle of care

Report Settings - (New)

Criteria | Display | Appearance | Summary | Print Layout | Toolbar | Override | General

Find Patients

Find Criteria: Enter a search term, or click the search icon to browse available criteria

Date Range From: M-1 (23/8/2025) To: T (23/9/2025)

Patient living status

Alive

Diagnosis

	Diagnosis
1	Prostate cancer
2	

Criterion Logic AND

Meds: Current (by exact medication)

LEUPROLIDE (3 MONTH) SUBCUT OR
GOSERELIN ACETATE

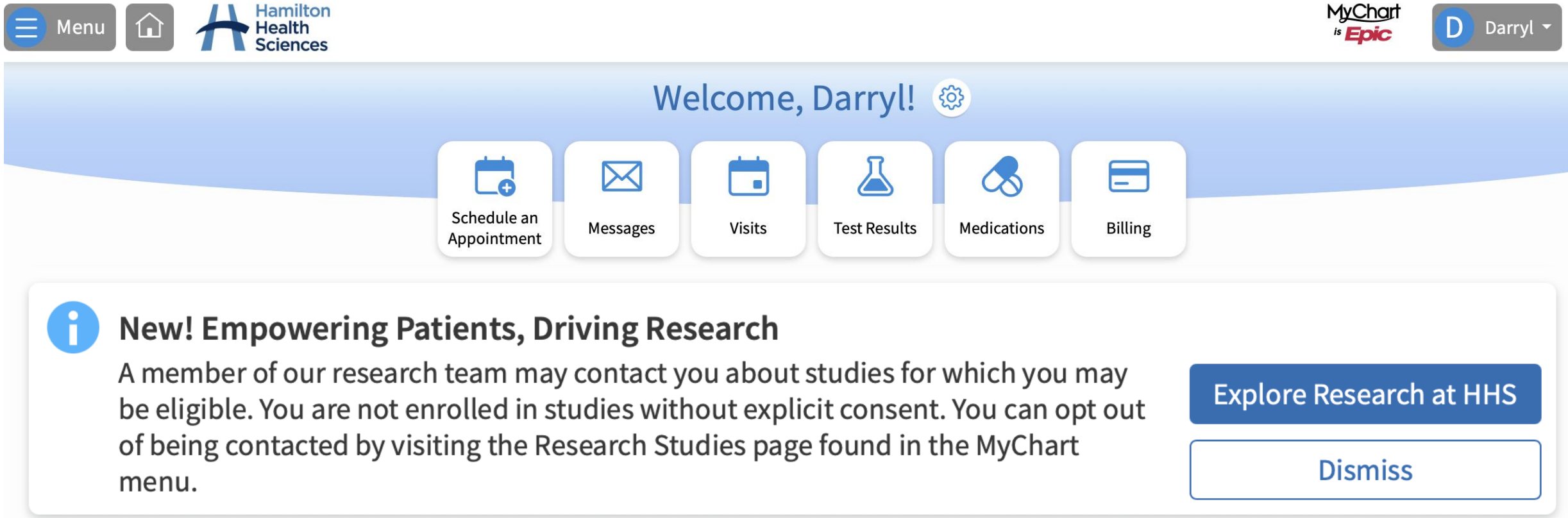
BMI

	Relationship	BMI
1	Greater than or equal to	30

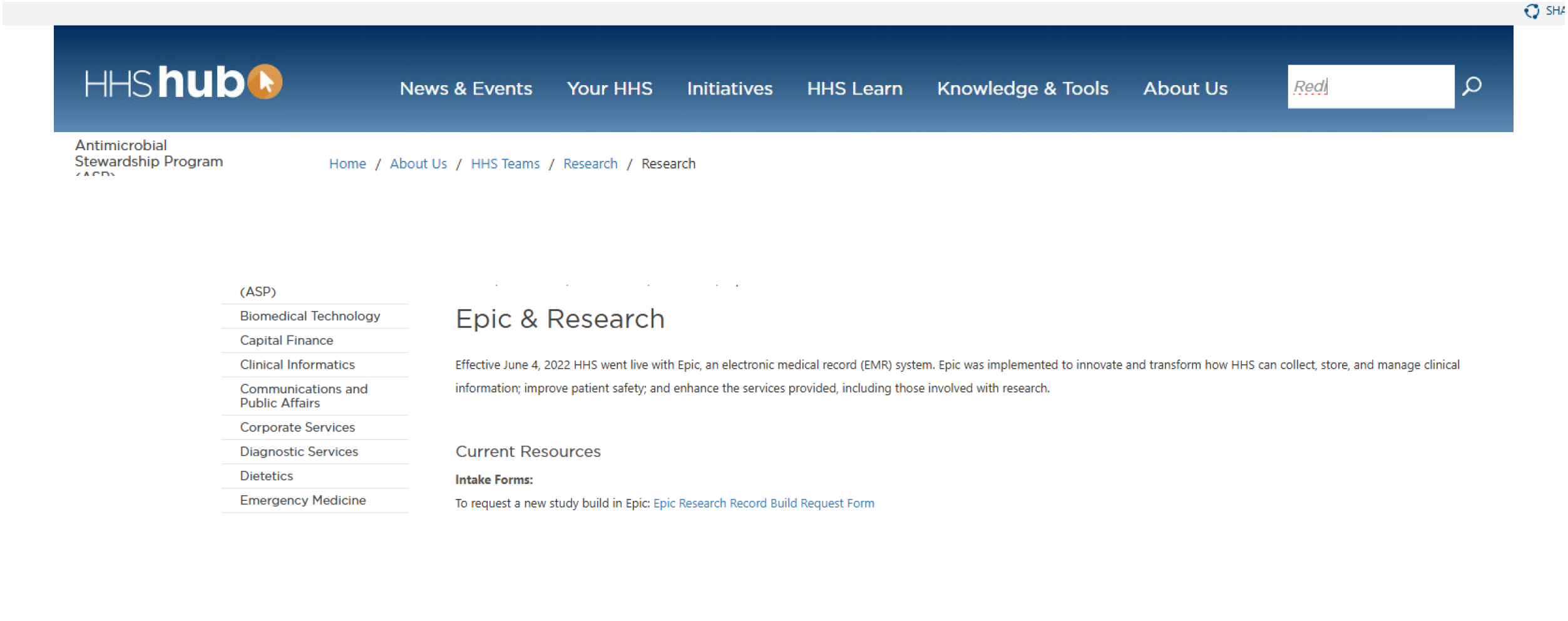
Report Logic AND

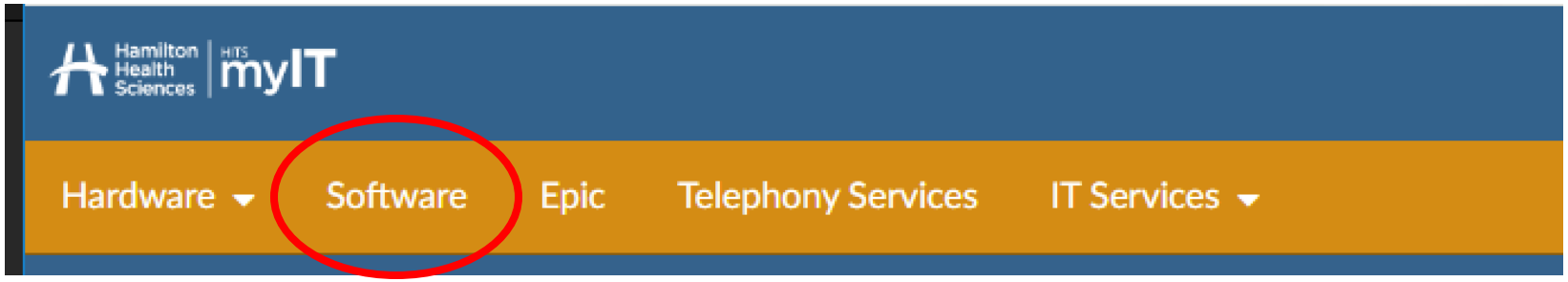
Show search summary

MyChart – a patient-facing app



Resources in Citrix



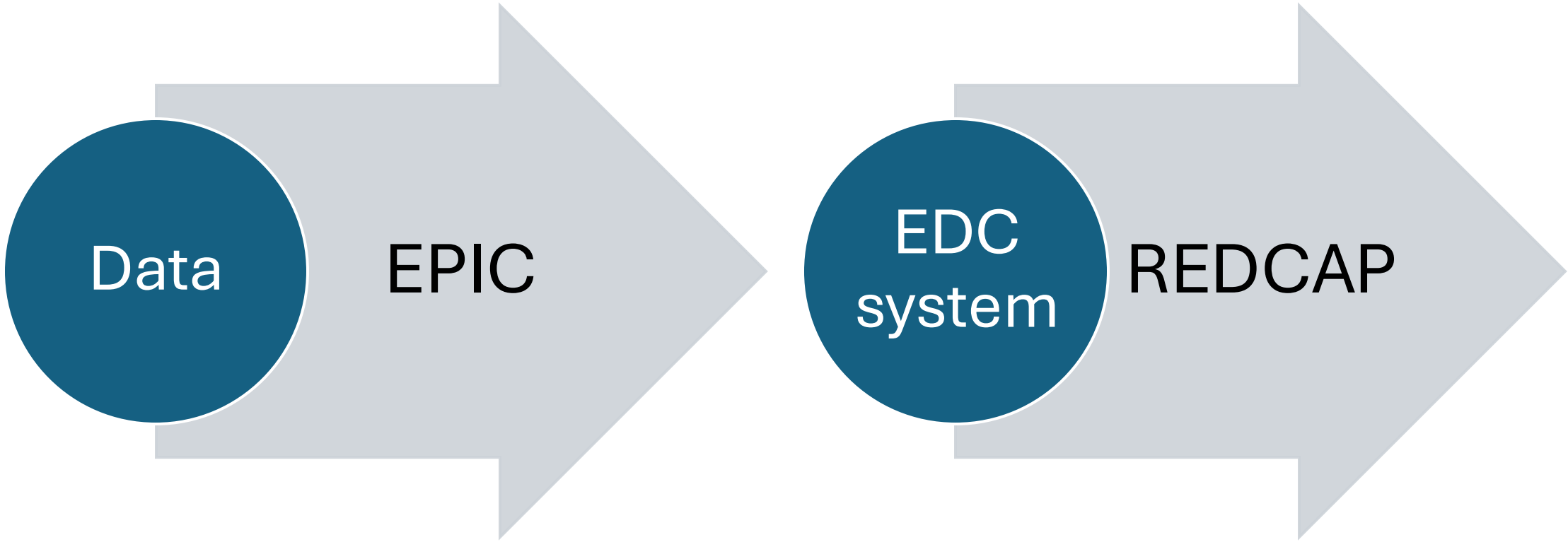


Request

REDI (Research Health Digital Intake)

HITS Intake Form for Research and Innovation Requests

Aspirational goal – conversations have started



EPIC Cosmos – undergoing privacy impact evaluations

- Individual level data on 300 million patients from 1762 hospitals
- Participating hospitals can grant access to users to undertake research
- Analysis occurs in secure virtual environment hosted by EPIC
- Undergoing privacy impact evaluations – not yet available at HHS