

Extend Clinical Workflows using SMART on FHIR

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Topics for today

Extend Clinical Workflows using SMART on FHIR

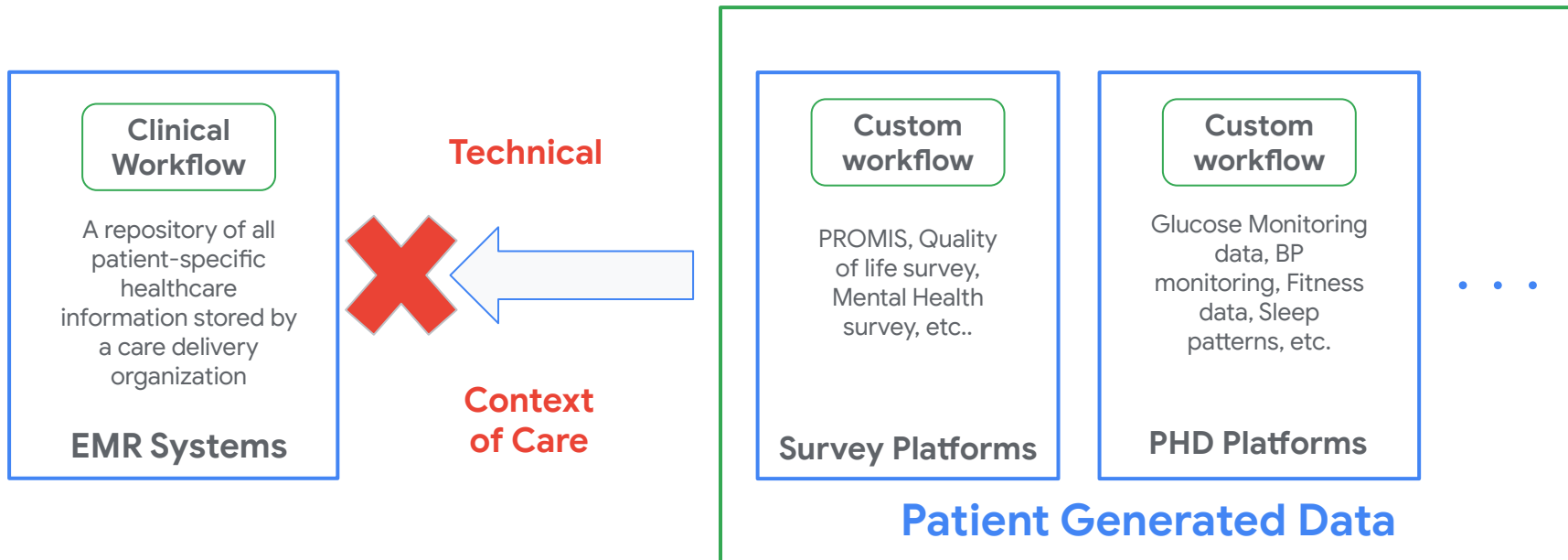
- Patient Generated Data in Clinical Workflows
- SMART on FHIR based Architecture
- Case study and Demo

1. Patient Generated Data in Clinical Workflows

Patient Generated Data (PGD)

- Health and wellness data **self reported by Patients**
- Data reported to Researchers for Medical Research
 - PRO measures from **PROMIS** (Patient Reported Outcome Measurement Information System)
 - Quality of life **Surveys**, Mental Health **Questionnaires** etc...
- Data generated from **Personal Health and Wellness Devices**
 - Data collected from **Blood Glucose monitoring** device, **Blood pressure monitoring** device
 - Data collected from **Fitness devices**

Challenges and Opportunities with Patient Generated Data

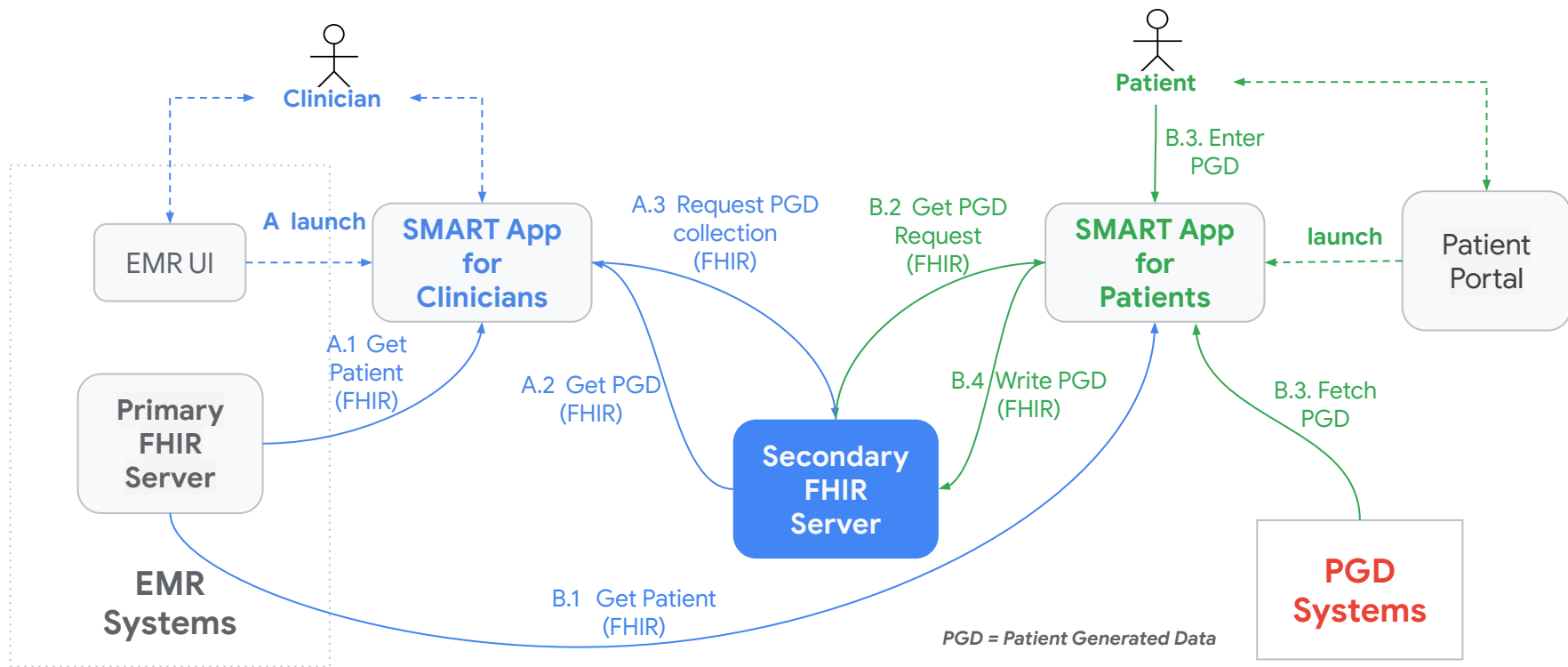


PHD = Personal Health Device

Need a secondary data repository for Patient Generated Data

2. SMART on FHIR based Architecture

Recommended Architecture: SMART Apps with Secondary FHIR Server

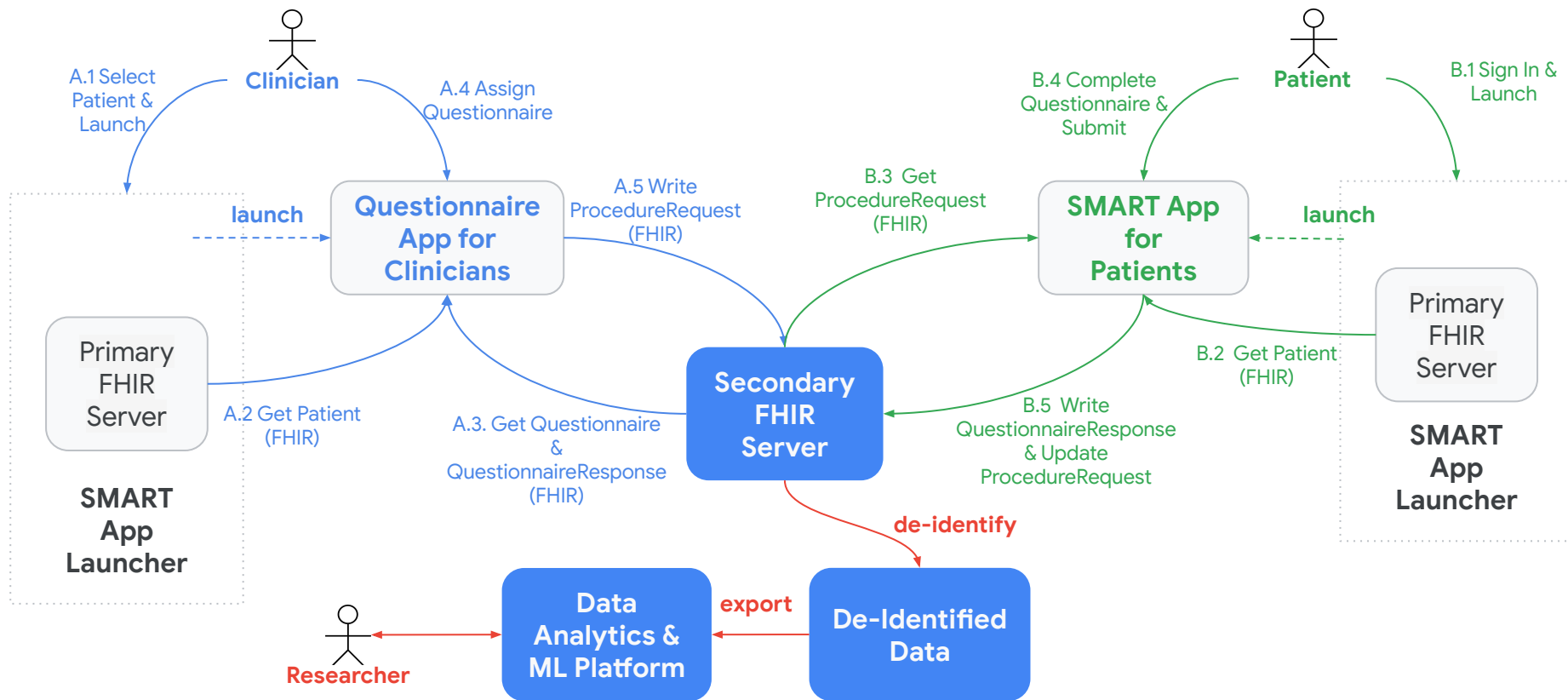


SMART Apps with Secondary FHIR Server: Key Concepts

- **Secondary FHIR Server** in Cloud to store and manage the PGD
- **Patient-facing SMART Apps** to fetch/collect PGD from end-users
 - SMART App **write PGD back to a Secondary FHIR Store**
- **Clinicians launch SMART Apps** from the EHR to access PGD
 - SMART Apps receives **patient context from EHR**
 - SMART App **reads PGD from Secondary FHIR Store**
- User experience is seamlessly **integrated on the surface**
 - **PGD stays separate from Clinical/EHR data**
 - Interaction and data exchange **accomplished through SMART**

2. Case Study & Demo: Questionnaire Workflow

Case Study: Questionnaire Workflow



*Let's see it in
action...*