

The Future of Healthcare Information Technology

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A Brief History of Time

- The National policies from Brailer to DeSalvo
- Interoperability - from HITSP to Argonaut
- Patient/Family Engagement - from a rogue idea to OpenNotes
- Big Data Analytics - from managed care to care management
- Cloud/Mobile - from Palm Pilots to CareKit

Assessing Our Progress

- EHR - safety/quality, efficiency, physician satisfaction
- Interoperability - is the data you need there when you need it without difficulty or significant cost?
- Patient/family engagement - are we bringing value to the patient with our electronic tools?
- Big Data Analytics - are we supporting alternative payment models and value-based purchasing?
- Cloud/mobile - are EHR vendors, clinicians, and compliance departments embracing cloud hosted, mobile friendly options?

Assessing Our Progress

- EHR - 80% adoption of EHRs but with 453 clicks to admit a patient , 140 structured data elements per encounter to support clinical quality measures, 40% of clinicians feel burned out (C+)
- Interoperability - we've made reasonable gains with pushing payloads from place to place, but have not built the enabling infrastructure to support pull (C+)
- Patient/family engagement - we're making reasonable progress with portals but we need an app that enables true patient stewardship of data (B)
- Big Data analytics - many products compiled in Powerpoint (B)
- Cloud/mobile - we need to accept that risk can never be zero (B)

We Can Do Better

- EHR - my wife's recent experience and the need for Facebook/wikipedia
- Interoperability - my mother's recent experience with a hip fracture
- Patient/Family engagement - my recent experience with hypertension
- Big Data Analytics - my wife's cancer experience
- Cloud/Mobile - my current journey with multiple vendors

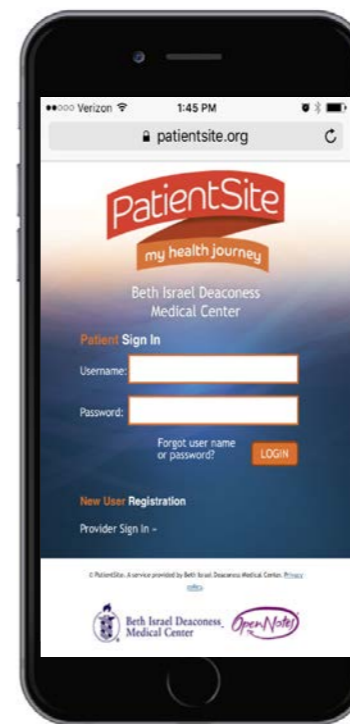
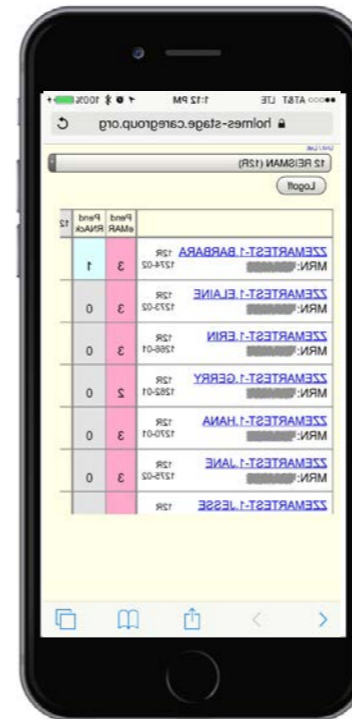
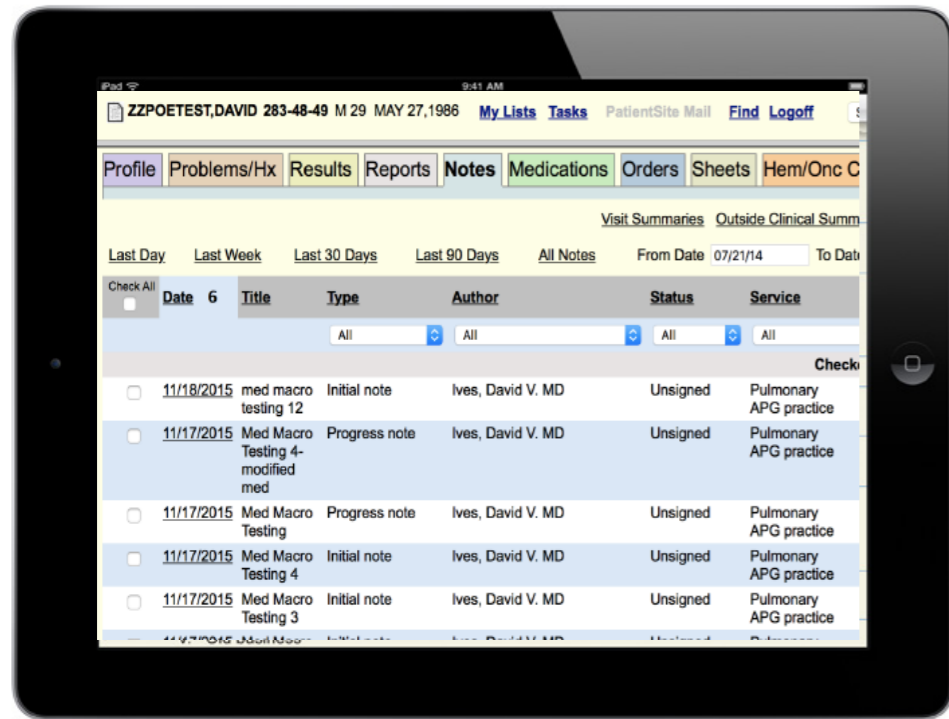
Mobile Applications Currently Available

Patient Questionnaires

Inpatient Med Lists

PatientSite

Clinician Apps



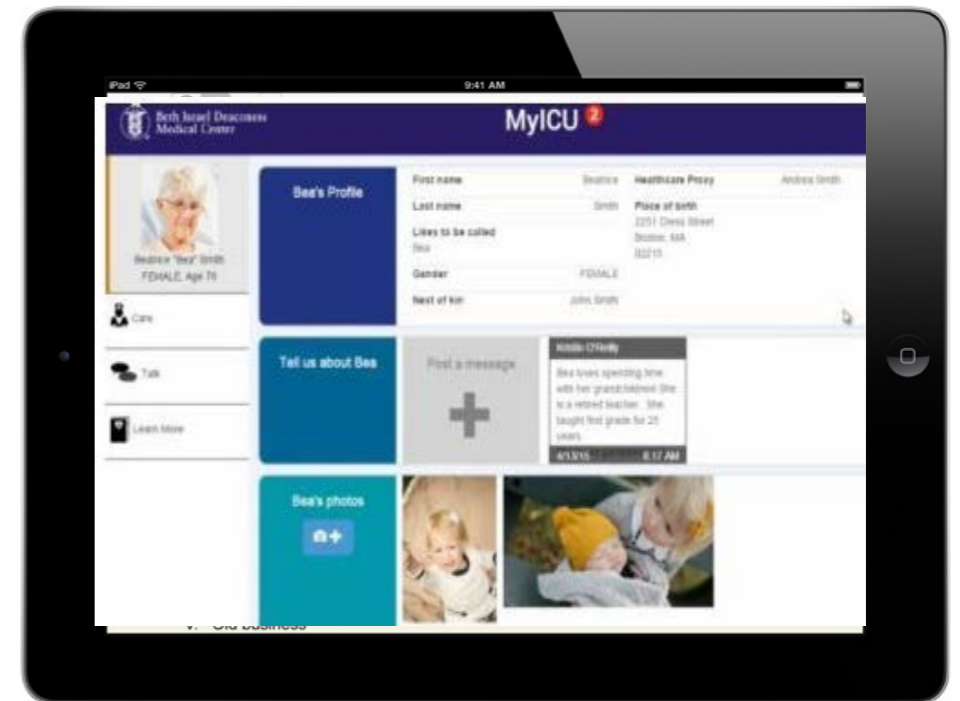
Dragon

Lifeline Mobile

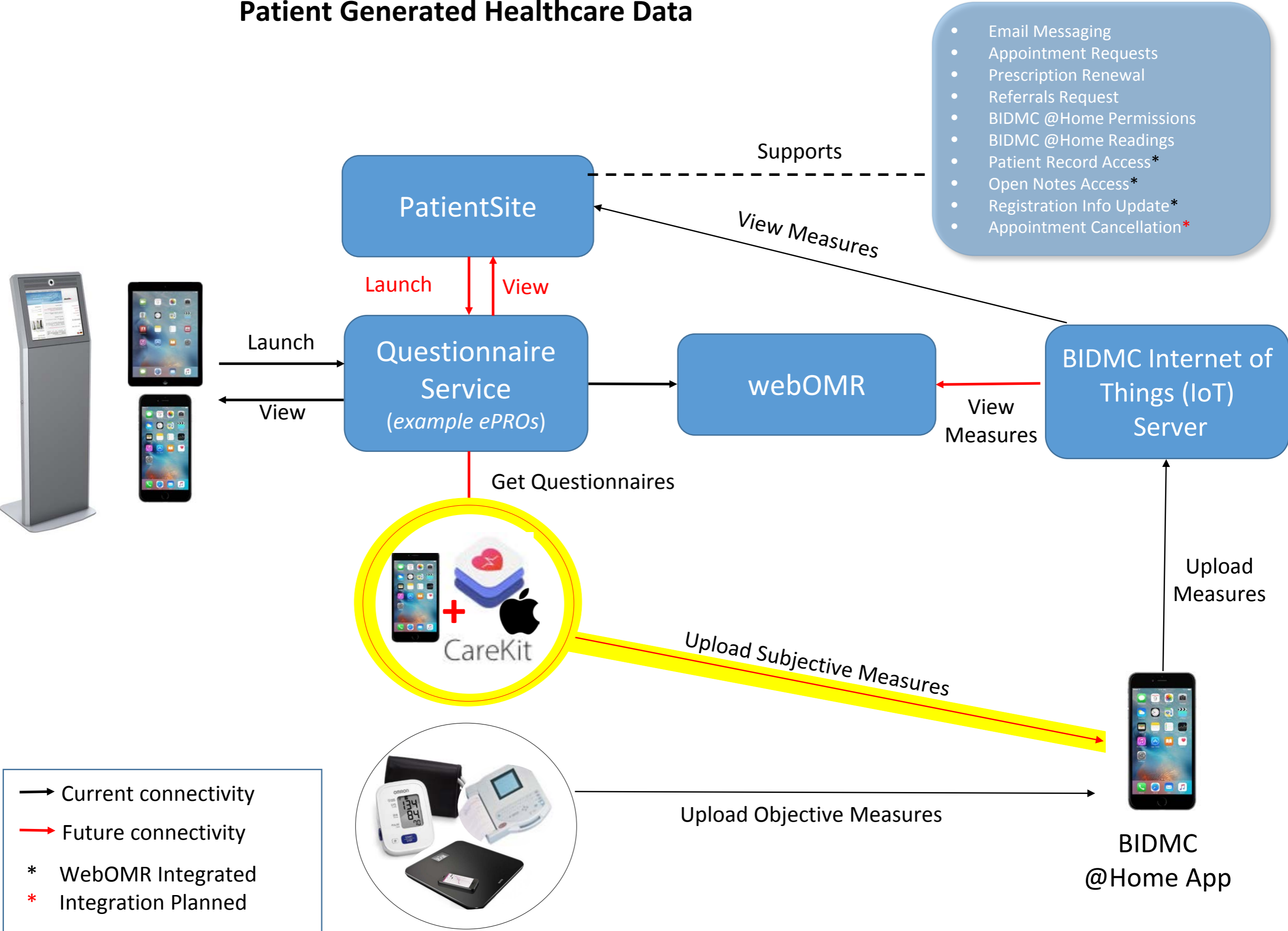
eyeRad

MyICU

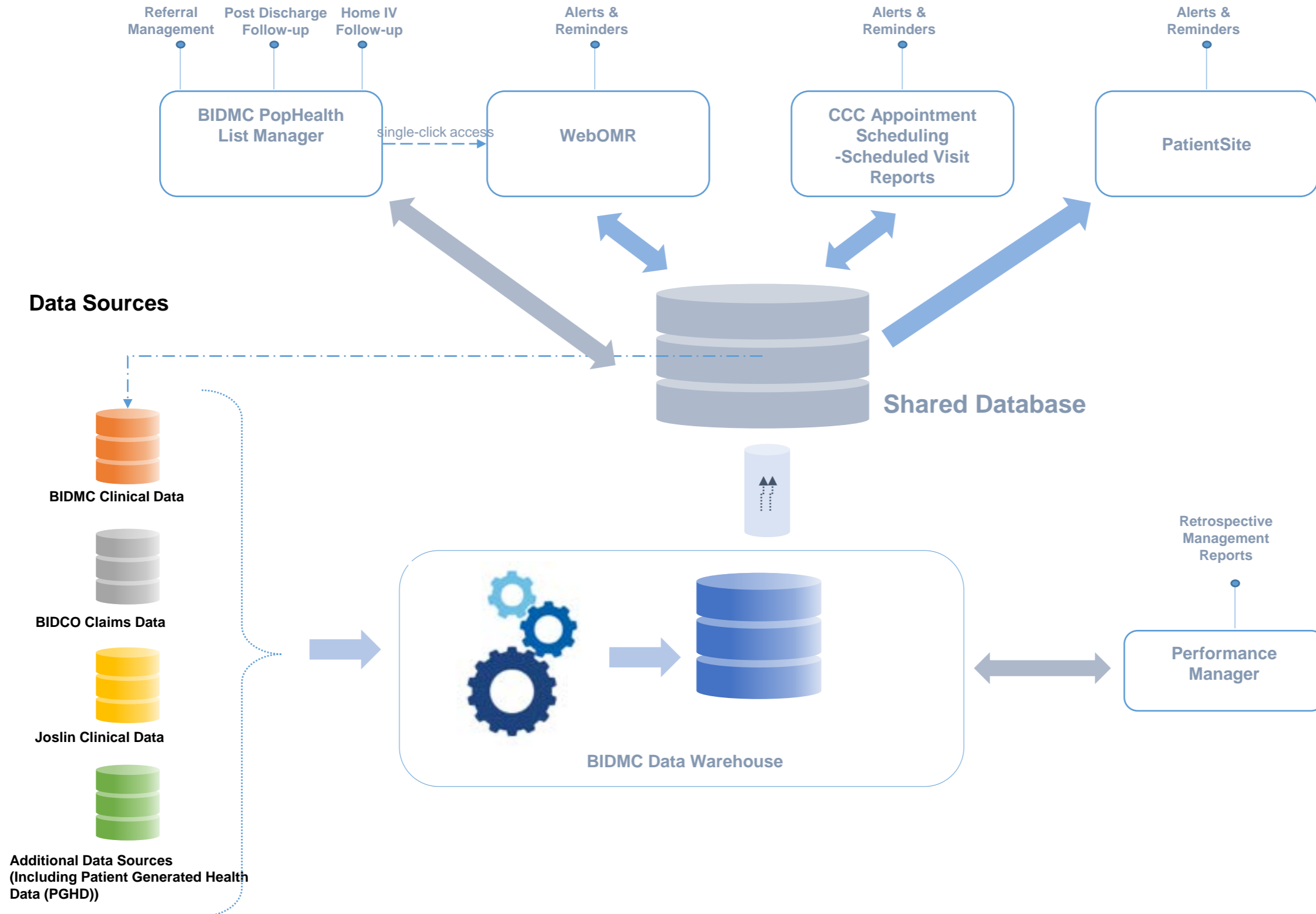
Medical Recorder



Patient Generated Healthcare Data



Population Health and Care Management



Security Concerns

- Risk Management
- Identity Management
- Logging and Monitoring
- Policies, Procedures, and Governance
- Logging and Monitoring
- Managed Security Services
- Data Classification
- Physical Security
- Configuration Management
- Third Party Auditing

Next Steps

- Meaningful Use has run its course - we must move to outcomes based payment models for clinicians and hospitals
- Certification in its current form paralyzes innovation and does not improve interoperability
- We need a national provider directory, a voluntary national patient identifier, a trust fabric, a governance framework, and consistent privacy policies
- We must reduce clinician burden
- Return the agenda to the private sector

Questions?

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