

Northern Ireland

Desmond O'Loan

Head of Strategy, Design & Programme Control

Health & Social Care Board, Belfast

N.I Interoperability

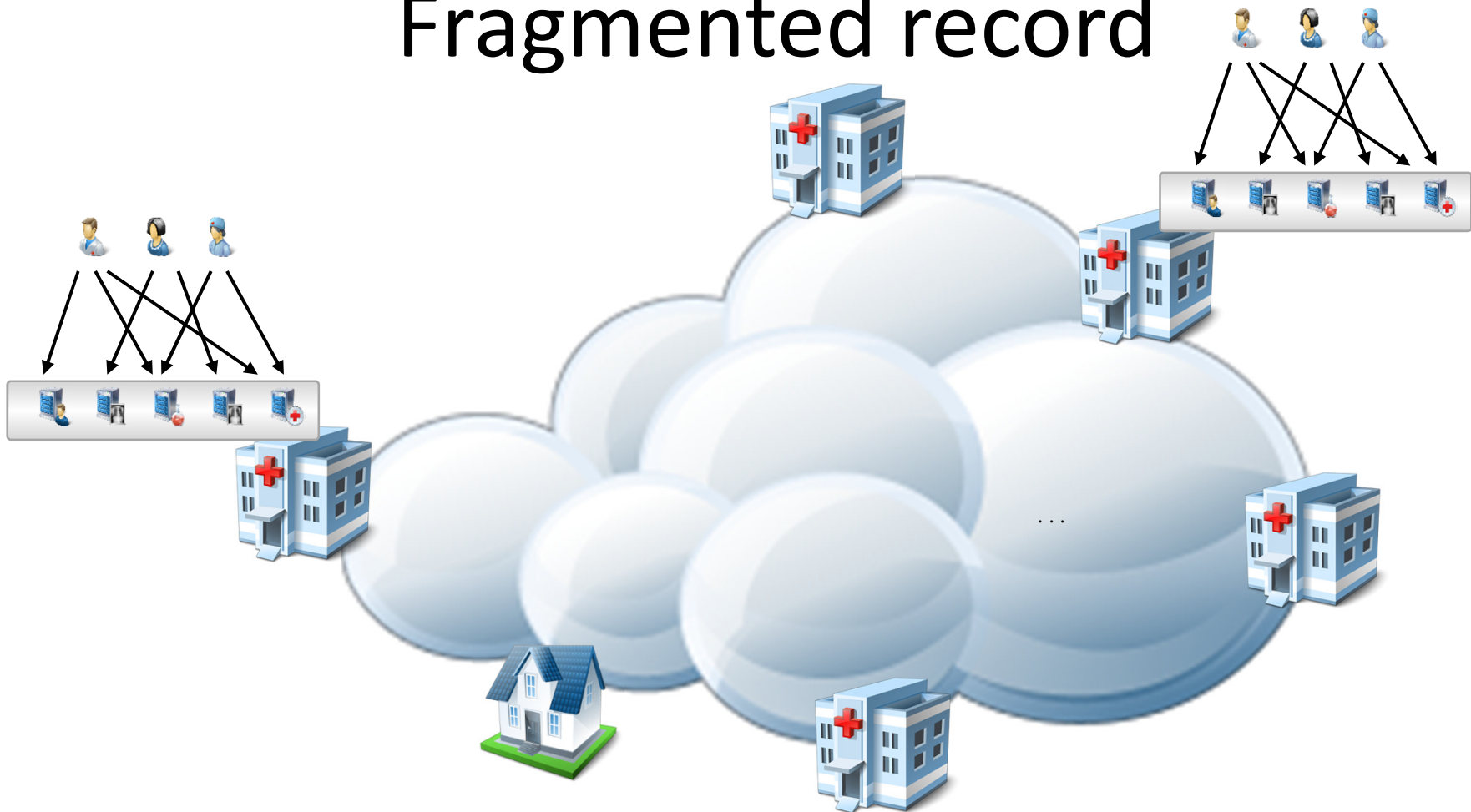
- Background to N. Ireland
- Strategic challenges and direction
- Integration
- Current successes
- Future plans

Background to N. Ireland

- Background
 - Self governing region
 - 1.8m population
 - £4b health budget
 - Health department
 - Health Board
 - Six Hospital groups
- Integrated Health & Social Care
- General Practice
- Private Dentist, Pharmacy, Optometrists
- Voluntary & Commercial sector
- Transforming Your Care reform programme

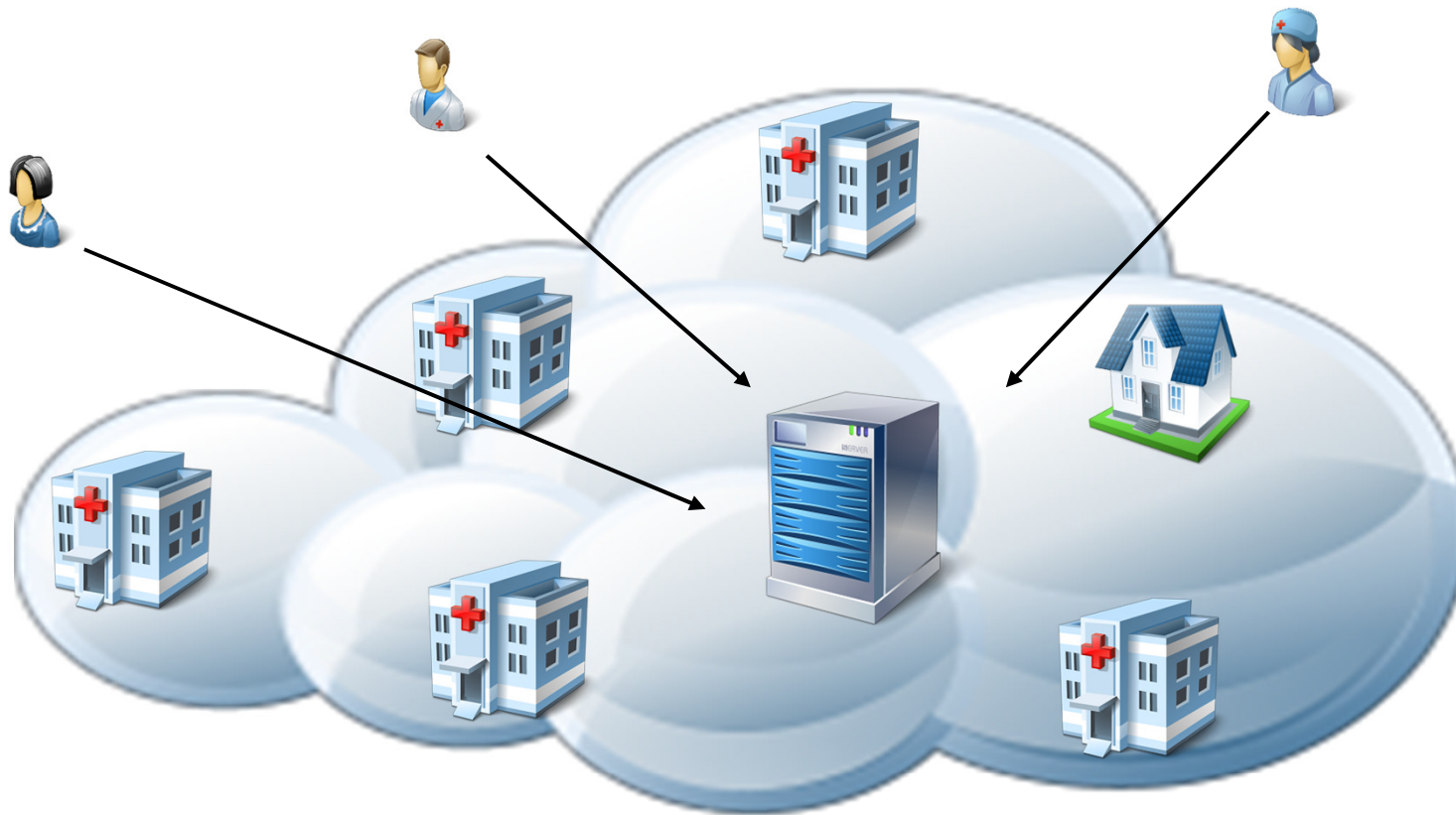
Strategic challenge

Fragmented record



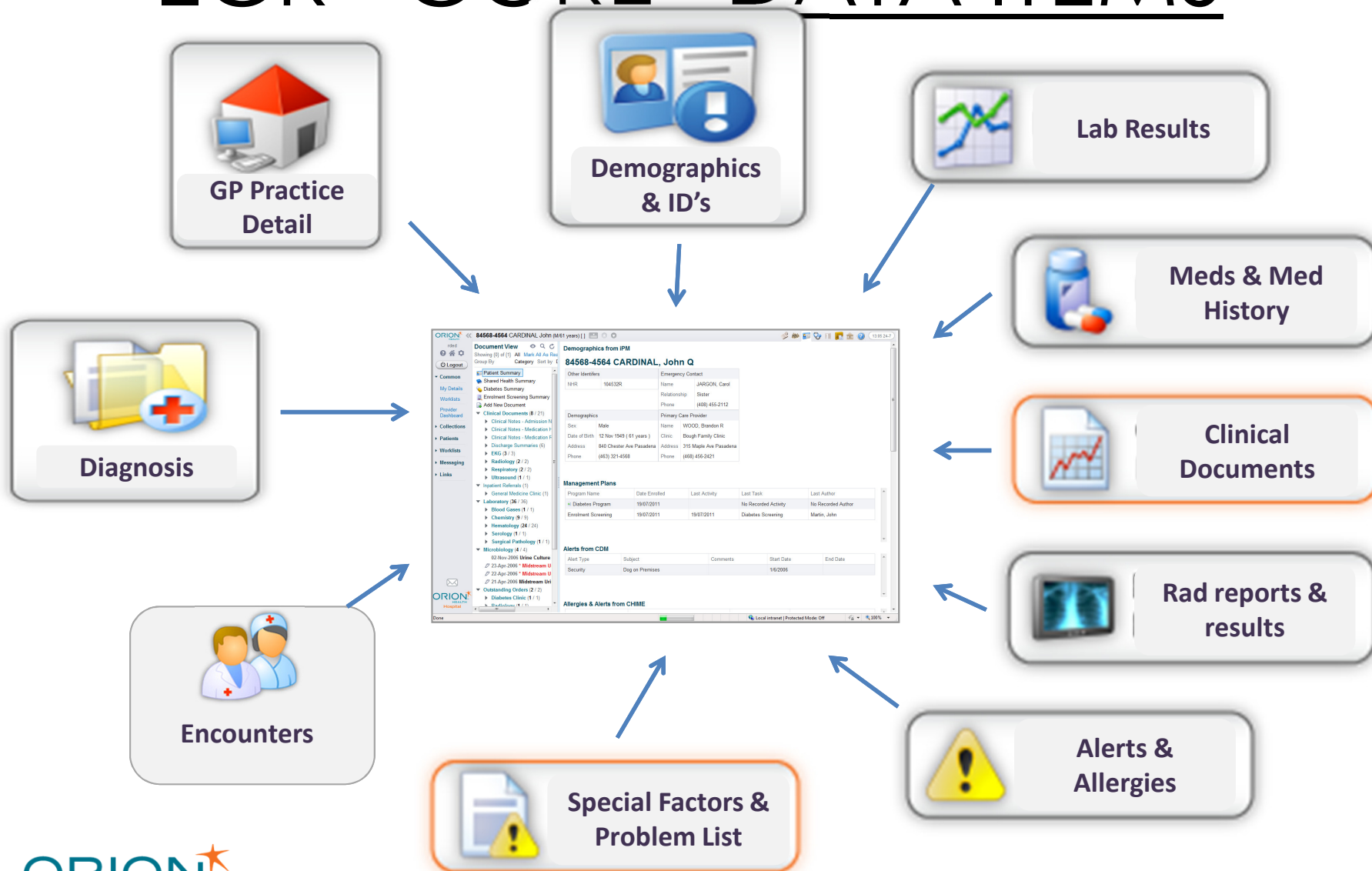
Information for better, safer, faster care

Strategic design; One virtual patient/client record



Information for better, safer, faster care

ECR "CORE" DATA ITEMS



Systems Integration

- Patient Administration Systems x 8
- Laboratory x 6
- PACS x 3
- RIS x 3
- Emergency Department systems x
- General Practice x 360
- GP OOH Messages x 4
- GP Electronic Referrals x 1
- Cancer Tracking x 1
- In/ Out/ Day/ Result letters
- Social Care systems x 6 (PARIS, Socare, LCID)
- RVH, Children's
- EPEX (NT Mental Health)
- Cardiology (TTE and TOE/MDM Forms)
- Orthopaedics
- Electronic Document management
- Maternity system x 7
- Prescribing
- Tele monitoring
- Tele Health
- Cardiology x 3

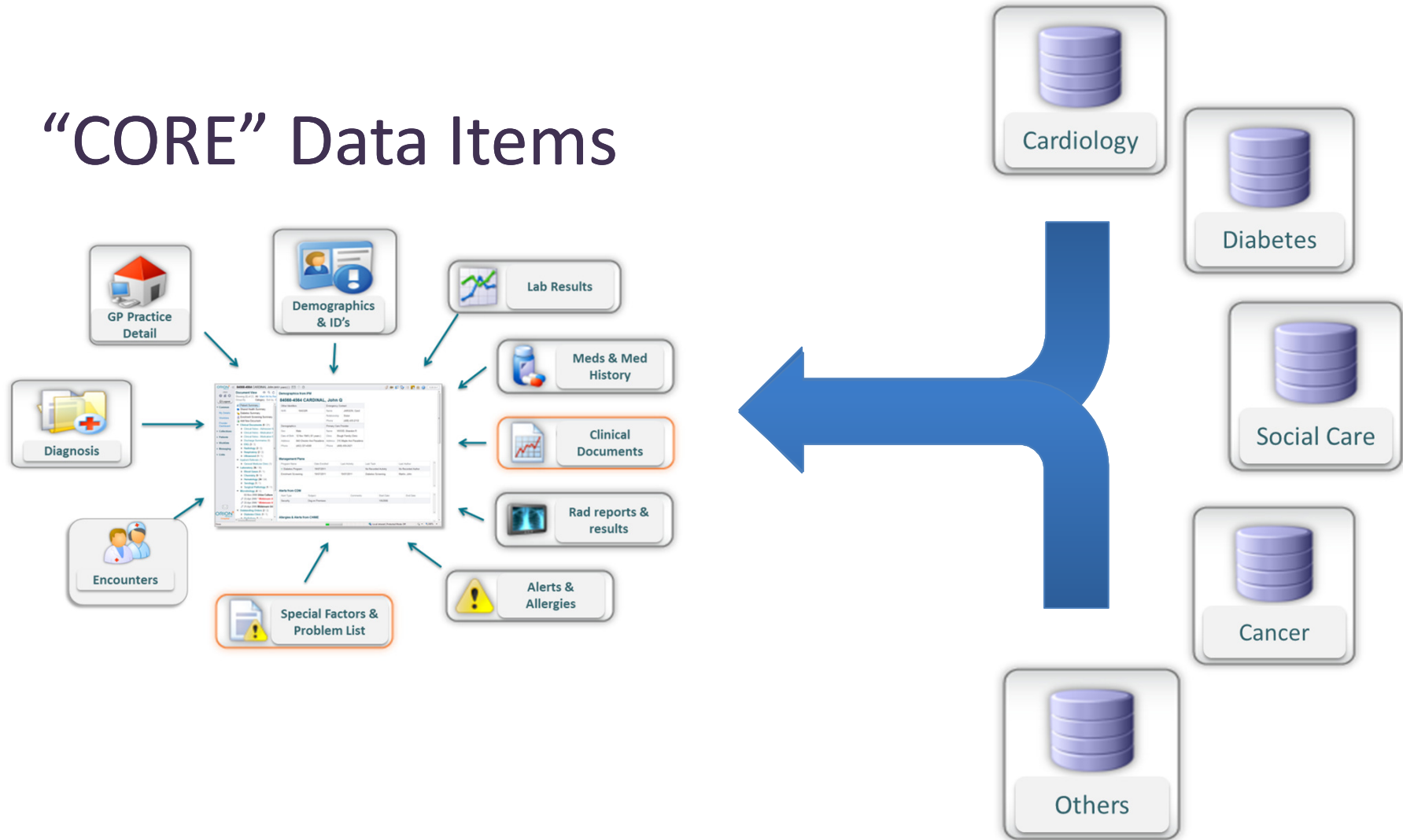
Challenges and Barriers

- How was NIECR achieved
 - Political, Vision, Clinically lead
 - No ripe and Replace
 - Clinical leadership
- Testing critical
 - First mistake = setback
- Record structure information
- Business as usually gets in way, No spare time
- Limited resources
 - EU funds helpful, hard to get.

Interfaces

Additional interfaces over time

“CORE” Data Items



Information for better, safer, faster care

Where next

- ECR Integration Projects
 - Diabetes
 - PAS Pre-Admissions
 - OP/IP Waiting Lists
 - Infection Control Information
 - Emed Renal
 - COIS Historical Reports
 - Endoscopy Reports
 - Theatre Management System
 - eNISAT
 - Remote Telemonitoring
 - Stroke System
 - Blood Transfusion

More functionality

Short Term Future Functionality

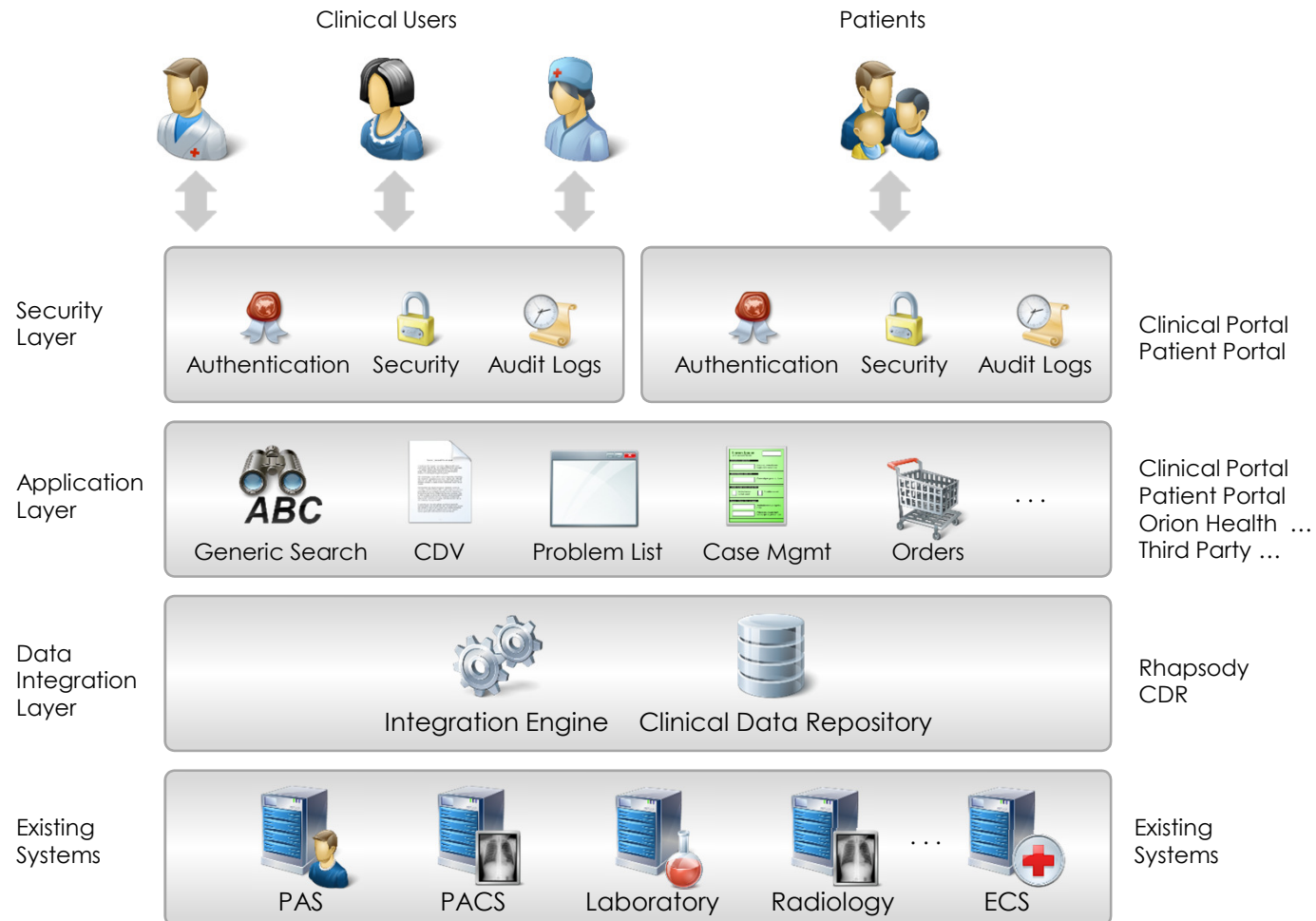
- Flowsheets
- Shared Worklists
- Alerts & Notifications
- eForms – Pre-Operative assessment, MUST, EWS
- Patient Handover
- Add Document Function
- Alert Document Template
- Shared Integrated Care Plans
- Referral Triage Management Solution
- Key Information Summary
- Results sign Off

More functionality

Medium and Long term Future

- ePrescribing
- Immediate Discharge Letters
- Order Communications
- Patient Portal
- Business Intelligence tools to support more informed decisions in treatment and care planning
- Clinical Workflow Suite (Forms technology for Chronic Disease Management)
- Mobile applications for specific workflows to improve efficiency and access to information (sign-off, patient drugs)

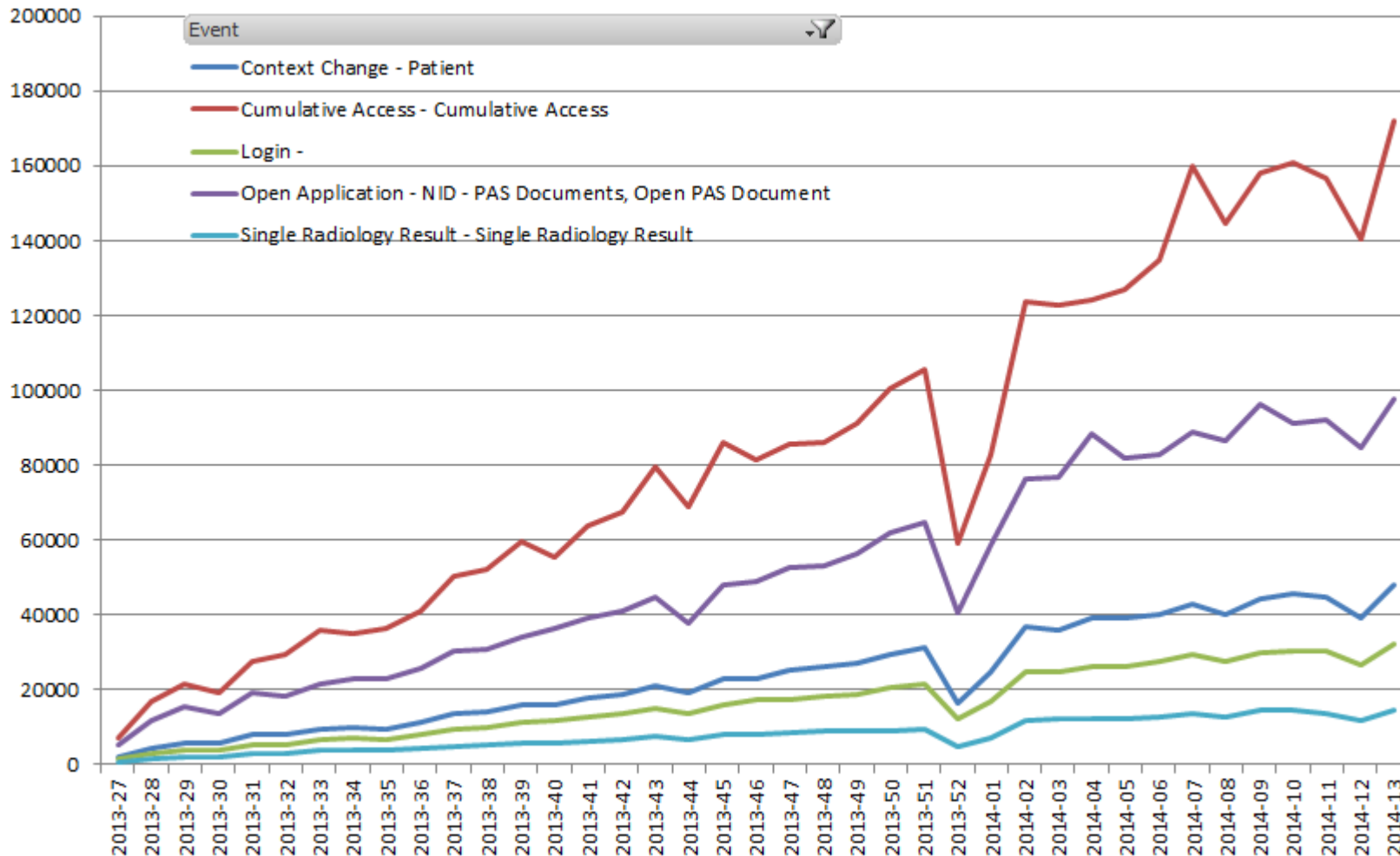
Integration Framework



NI Electronic Care Record

- Regional solution live since July 4th 2014
 - 250,000 Unique Patients Accessed
 - 950,000 accesses to Patient Records
 - 195 Million Messages Stored
 - 2 million patient centre documents accessed
 - 13,000 Drug Accesses per week
 - 100,000 Print Requests
 - 250,000 Radiology Reports Viewed
 - 3.3 million Cumulated Laboratory results
 - 1250 ereferrals per week

ECR usage



Methods and tools

- Message types
 - Propriety, HL7, CSC,
- Methods
 - Real Time Transactional Push, Pull, Batch
- Integration brokers
 - Rhapsody, Clover Leaf
- Record Matching
 - Enterprise Master Patient Index

Future Integration

- Private sector – Two way
 - Different applications
- Apps (IOS, Android) Commercial and HSC
 - Security
 - Authentication
 - Data security
- Connected Health Interoperability Platform
 - New York
 - NI Ecosystem

N. Ireland Summary

- Strategic vision and determination
- Country wide ECR
- Continuous Integration
- Interoperability CHIP
 - ROI, New York
- Success 10,00 users in 10 months