eHealth Ireland & Northern Ireland Connected Health Ecosystem

members of the ECHAlliance International Ecosystem Network

eHealth Ireland HER & Encompass (NI EHCR)

Gary Loughran, Encompass Programme Director Health & social Care NI

Join the conversation on Twitter!
@eHealthIreland  #ehealth4all  
@echalliance  #nicheco
Encompass Programme
Local Supplier Engagement
Gary Loughran: Director of Encompass Programme
Vision Statement

The encompass programme vision is for a digital health and care record for every citizen in Northern Ireland that better informs and supports their health and wellbeing throughout their life. Which

• Is built on a digital platform
• streamlines services and patient journeys
• links information across primary, secondary, community and social care.
Our Aims

• Reduce unwarranted variation in care
  – Promotion of adherence to consistent standards

• Boundary-less Care

• Evidence Based Clinical Decision Support

• Minimise reliance on remembering

• Improve Patient outcomes

• Improved Population Health understanding and management
Solution Scope

Business Change required to deliver the stated benefits

Open architecture data platform
<table>
<thead>
<tr>
<th>8</th>
<th>14</th>
<th>3</th>
<th>11</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAS</td>
<td>ED</td>
<td>Orders</td>
<td>Social Care</td>
<td>Screening</td>
</tr>
<tr>
<td>BOIS</td>
<td>Patient Portal</td>
<td>Clinical Decision Support</td>
<td>Mental Health</td>
<td>Laboratories</td>
</tr>
<tr>
<td>Care Planning</td>
<td>ePrescribing</td>
<td>Patient Flow</td>
<td>Child Health</td>
<td>General Practice &amp; OOH</td>
</tr>
</tbody>
</table>

**Business Change required to deliver the stated benefits**

**Open architecture data platform**
Functionality

1. Enterprise Scheduling
   I. PAS
   II. Theatres
   III. ED
   IV. RIS

2. Order Communications
   I. Labs
   II. Radiology
   III. Order Sets

3. Electronic Prescribing and Medicines Administration

4. Pathways - Workflow Tasks – Noting – Results Sign-off

5. Patient Portal
Open Platform

Vendor Neutral Archive (Draft)

Universities
Clinical audit/research
Population Health & Analytics
Local Suppliers
Internal Development planning and commissioning

Open Data Connector

Open Standard – FHIR based RESTful API Layer

Role Based Access, Authentication, GDPR compliance and Audit Services
Anonymization Services
Workflow Engine
Message Engine

Encompass Core Solution

Patient Administration
- Admission
- Discharge
- Appointments
- Referrals
Diagnostic Orders
Therapies
Clinical Diagnoses/Allergies/Procedures
Prescribing

Vendor Neutral Database

research
Best Practice Guidelines
NICE
HR
Financials
Genetics
Other Sources

Data Sources

Labs
Radiology
GP Meds, Allergies & Key Information
Clinical Docs
- GMS
- NAFS
- Discharge
- CEMPS
- DIABetc
Community Letters

Community attendance
Key alerts
Principles (for Discussion)

• Not function of Core solution

• Open standards
  i. RESTful API – FHIR?
  ii. Don’t reinvent wheel – if it exists use it e.g. Orders

• GDPR Compliant Supplier

• True Openness?
  – Commercials
  – Access to Health Professionals
  – Assurance
  – App Store
  – Benefit reflection
Next Steps

• How do we continue this conversation and make it work.

• What do you need?

• Proposed next steps