eHealth: Improving the delivery of services and patient care

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Connected Health

- Multi-Disciplinary Team
- Diagnostic Labs
- Chemo/Radiation
- Imaging
- Home Care
- Surgery
- Primary Care
- Specialist
- Pharmacy
- Emergency
- Ageing
- Mental Health
- Children
- Disability
eHealth Ireland
Knowledge & Information Plan

Integrated, Patient Centric, Efficient Care Delivery

Clinical & Information Governance

- Care Delivery Enablement
- Electronic Health Records
- Cross Setting Information Integration
- Health Service Insights
- National Support Systems

Knowledge & Information Delivery Transformation
Patient, Clinician, Public
Personalisation vs Contextualisation
Where are the Gaps?

Finance & Efficiency
- Efficiency
- Savings
- Affordability

Health & Wellbeing
- Alcohol
- Diabetes
- Obesity

Care & Quality
- Patient Exp
- Personalisation
- Outcomes
H = Health not Healthcare

Health

Feidhmeannacht na Seirbhíse Sláinte
Health Service Executive
Current Projects

[Image of person holding a device]

[Image of eClinical Pharmacy Suite]

[Image of McLernons Pharmacy Software]

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ePharmacy Engagement
Before

After
Current...
Security.
Data Quality.
Information Governance.
Data Dictionary.
The ‘fourth utility’

The history of technology as it enters industries is that people say ‘this is going to transform everything in 2 years’ And then you put it in and nothing happens and people say ‘why didn’t it work the way we expected it to?... . And then lo and behold after a period of 10 years, it begins working.

— Robert Wachter
UCSF

Technology has transformed hotel, transport, retail, banking, communications ..........healthcare?

International eHealth investment Estimates

- €15.8Bn England – NPfIT over 10yrs
- €1.6Bn Canada, Southwest Ontario – 2013-2017
- €25Bn – USA – HITECH Act / Meaningful Use
- €1.6Bn – Australia – predicted over 10yrs
- €5.4Bn – NHS – predicted in next 5 yrs

Ireland lags most developed countries but can learn from the investments and initiatives elsewhere

The goals of Reform cannot be delivered without a National EHR

DENMARK
99% discharge letters, orders/results, prescriptions are electronic

FINLAND
100% health centres with EHRs

NETHERLANDS
All prescriptions electronic

US – VHA
100% primary care / hospitals EHR

US – VHA
$3.09Bn in cumulative net benefits
Overall Blueprint defined as the long term vision for eHealth in Ireland and endorsed by industry – Solutions for Hospital Groups identified as a core area
What is the EHR

Moving from paper records locked in organisations to a digital patient record shared across care settings

The “glue” that binds all this together and maintains integrity and security across the system

Examples:
- Order Communications / Results Reporting
- Medicines Management
- Clinical Notes

Other healthcare providers will access and contribute to the National Shared Record through the Integration Capability

Examples:
- Single MPI
- Scheduling
- Clinical Notes / Records
- Screening & Surveillance

The Individual Health Identifier Programme is a key enabler that allows information to be shared about a patient

Individual Health Identifier

Community Operational Systems
- GP Systems
- Pharmacy

Acute Operational Systems
- Private Hospitals

National Shared Record

4 Components
eHealth Blueprint - EHR

4 Components

National Shared Record

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4 Components

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Integration

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Community Operational Systems

Acute Operational Systems

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Evolving to a single solution set will require agility and a governance approach that supports a dynamic environment.
What can eHealth Do?
Epilepsy: All patients on the EHR, Patient mobile application, Population health analysis, GP access and image reviews, IHI, Genomic sequencing for under 5s.
Lighthouse Projects

**Epilepsy:** All patients on the EHR, Patient mobile application, Population health analysis, GP access and image reviews, IHI, Genomic sequencing for under 5s.

**Haemophilia:** National Integration to hospital PAS, Open source platform, Open Data pilot, Patient mobile application, IHI, Secure clinical communicator, Next generation solution.
Epilepsy: All patients on the EHR, Patient mobile application, Population health analysis, GP access and image reviews, IHI, Genomic sequencing for under 5s.


Bipolar Disorder: Secure clinical communicator, Information integration regardless of setting, Open Source solution, Innovation led approach, Clinical support tool.