

Ireland's eHealth Imperative

"How eHealth can transform Ireland's Healthcare System while delivering significant Economic Opportunity"



Dr. Joseph Dalton, Feb 2014
joe@daltec.ie

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THE BUSINESS PROBLEM

World Population Trends, Baby Boomers

Demographic changing, i.e. more old, less young

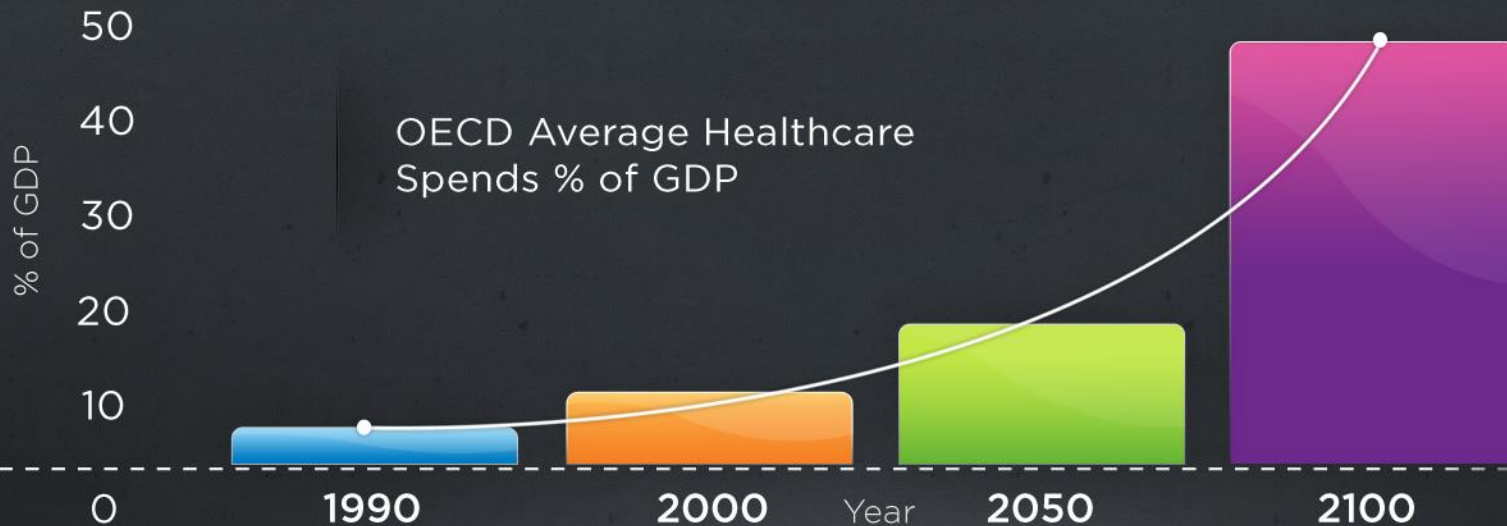


Worldwide
Population Ageing
for Age 65 Years
and Over

THE BUSINESS PROBLEM

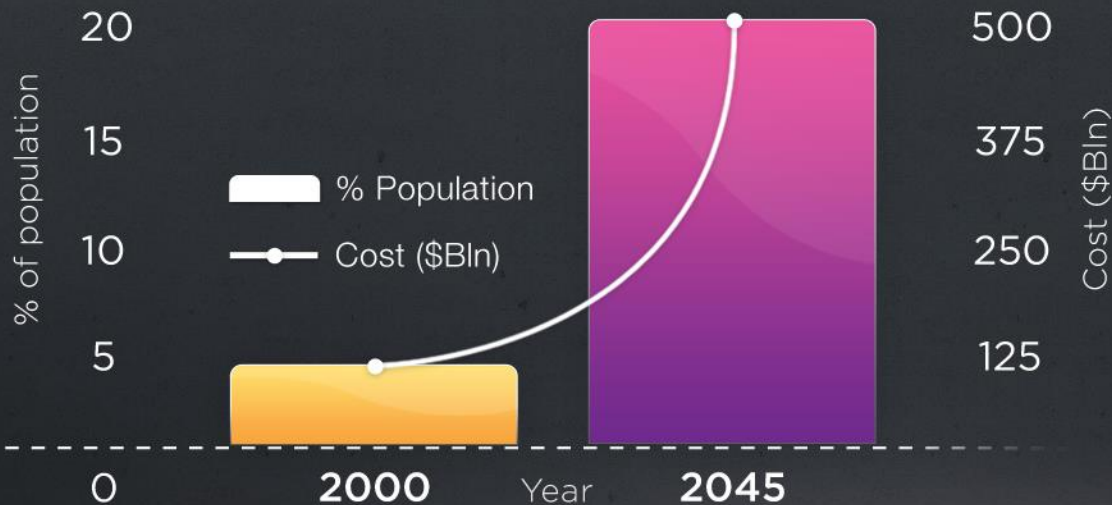
Healthcare costs are skyrocketing

% of GDP spent on healthcare is increasing exponentially



THE BUSINESS PROBLEM

- Rise of chronic diseases – Obesity, Diabetes
- A greater social divide
- Healthcare systems facing meltdown by 2025



Forecast for Prevalence of Diabetes and Its Associated Cost to the Healthcare System in the USA

Plus.....

Historical Under-Investment in Healthcare IT Systems



Ireland at 0.85% vs EU average of 2-3%

Plus.....

Ireland-Specific Reform Challenges

- Universal Healthcare
- Money Follows Patient
- Primary Care Strategy

Plus....

A system that is not currently Outcomes or Patient Focussed....

"There are more than 9,000 billing codes for individual procedures and units of care. But there is not a single billing code for patient adherence or improvement, or for helping patients stay well"... Clayton Christensen, The Innovators Prescription, Harvard Business School.

However....



Opportunities
straight ahead

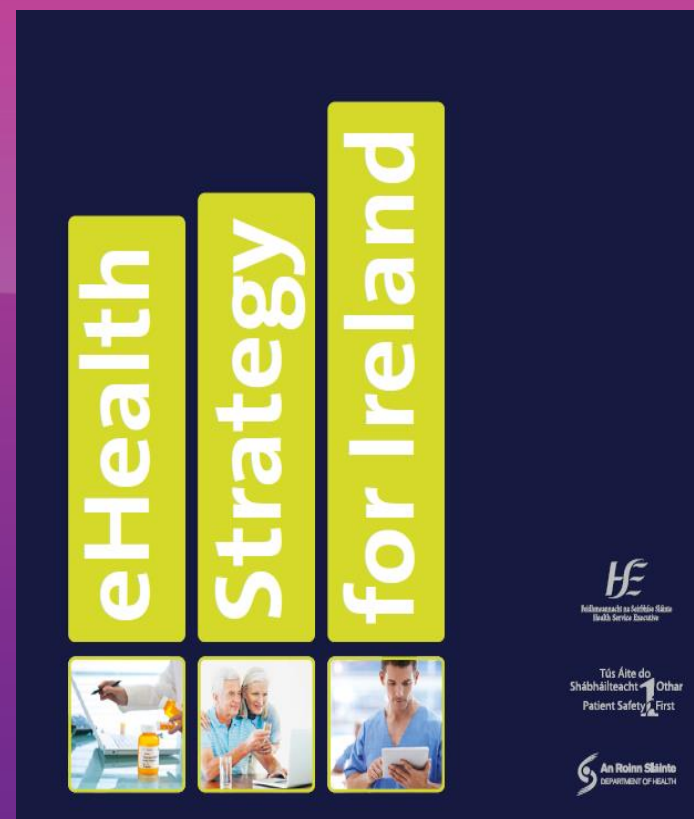
A green rectangular highway sign with a white border and rounded corners. The sign is mounted on two silver metal poles. The background of the sign is a solid green color, and the text is in a white, sans-serif font. The sign is positioned against a bright blue sky with scattered white clouds.

Introducing.....

Ireland's National eHealth Strategy

"Bringing improved population wellbeing, health service efficiencies and economic opportunity through the use of technology enabled solutions"

- Published Dec 2013
- Available at www.dohc.ie
- Potential of eHealth for Ireland
- International Best Practise Analysis
- Patient Centric
- Economic Impact Analysis
- Implementation



What is eHealth?

“The combined use of electronic communication and information technology in the health sector”.. *World Health Organisation*

- Involves the use of Modern Information and Digital Technologies
- Sometimes called ‘Healthcare ICT’
- Sometimes called ‘Connected Health’
- Examples include Telehealthcare, ePrescribing and Electronic Health Records and others...
- Involves automation and integration of manual processes

eHealth is Patient Centric.....



Three Areas of Benefit

eHealth Delivery
Function



1. Healthcare Service Efficiencies

- Cheaper
- Safer
- Support System Reorg
- Transparency
- Community Focus



2. Personal and Population Wellbeing

- Prevention Focus
- Empower Citizens
- Easier to Access
- Improved Outcomes
- Community Focus



3. Economic Stimulus

- Jobs Creation
- Export Driven
- SME Growth
- Attract DFI

Key Points to Note!

- ❖ eHealth should be viewed as a National Infrastructural Investment. Similar to Motorway network or utilities.
- ❖ eHealth is primarily a process-reorganisation program using IT Information Systems as enablers.

Warning!

$$OO + NT = \underline{COO}$$

Old Organisation + New Technology = Costly Old Organisation

International Experiences

Best Practise Summary...

(Based on 8 countries analysed)

1. Dedicated delivery entity with proper focus, governance and authority
2. Deploy in phases. Avoid 'big bang' approach.
3. Use interoperability standards
4. Strong stakeholder and clinical engagement from the outset.
5. National Health Identifier is crucial.
6. Strong branding and public awareness
7. Skills shortages need to be addressed at all educational levels

England, Scotland, Northern Ireland, Denmark, Germany, Holland, Australia, Canada

Implementation

Create *'eHealth Ireland'*

- Fully focussed delivery entity
- Made up of stakeholder organisations
 - Health, DJEI, Agencies, Academia etc
- Full Fiscal Oversight
- Key Delivery Functions...
 - Project Delivery
 - Ecosystem Creation
 - Patient/User Engagement
 - Economic Impact Realisation
- Key 'Enabling Functions'
 - Legal and regulatory
 - Technical interoperability
 - Health identifier
 - Branding and Public awareness



Key Programs for Ireland...

ePrescribing



Telehealthcare



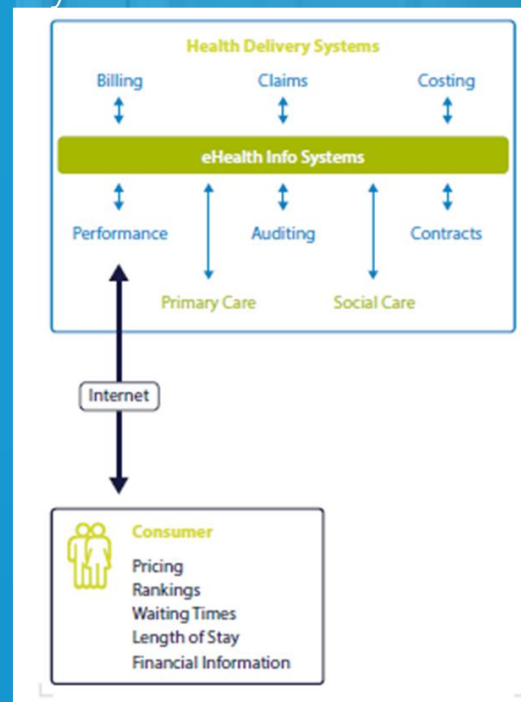
Electronic Health Records



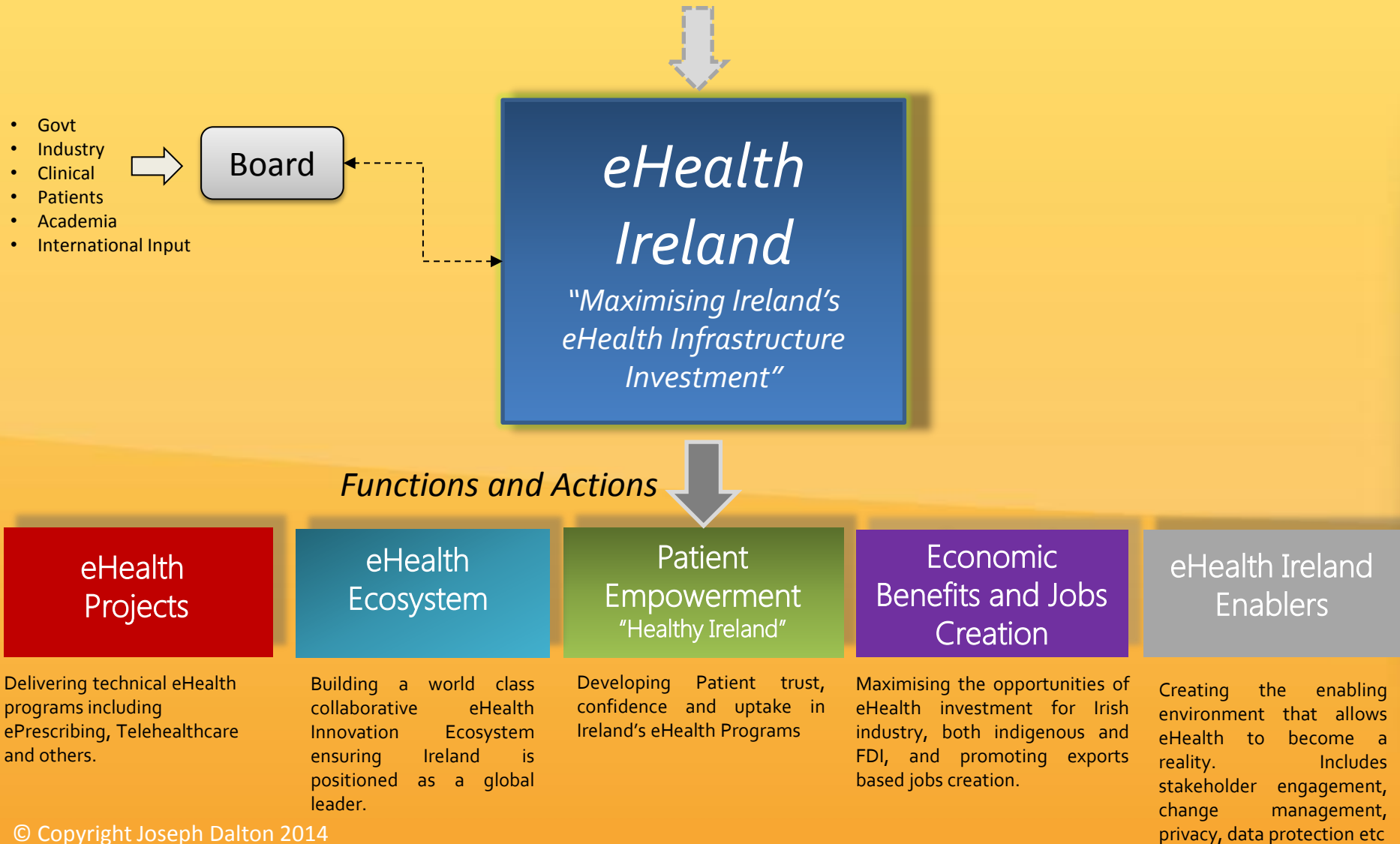
GP and Referrals



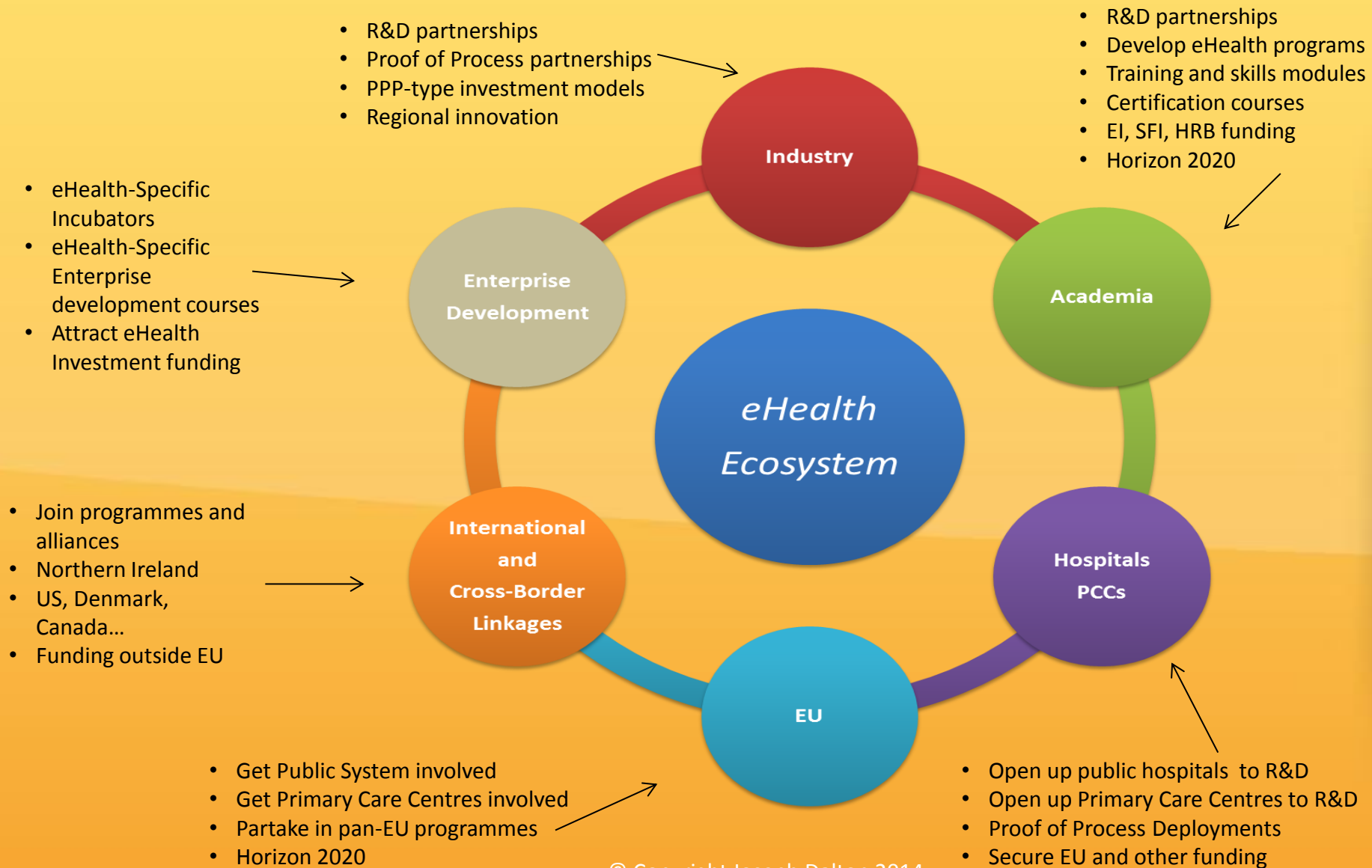
System Reform MFP etc..



"eHealth Ireland" - Functions



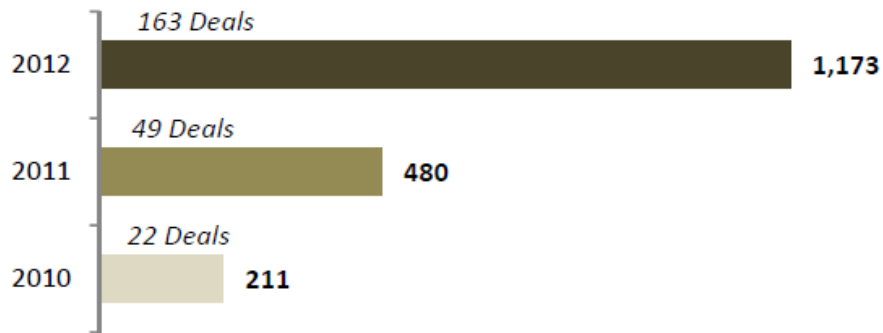
eHealth Ireland "Ecosystem"



Economic Benefits...

Entrepreneurship/Start-Up

Healthcare IT VC Funding 2010-12
(US\$ in Million)

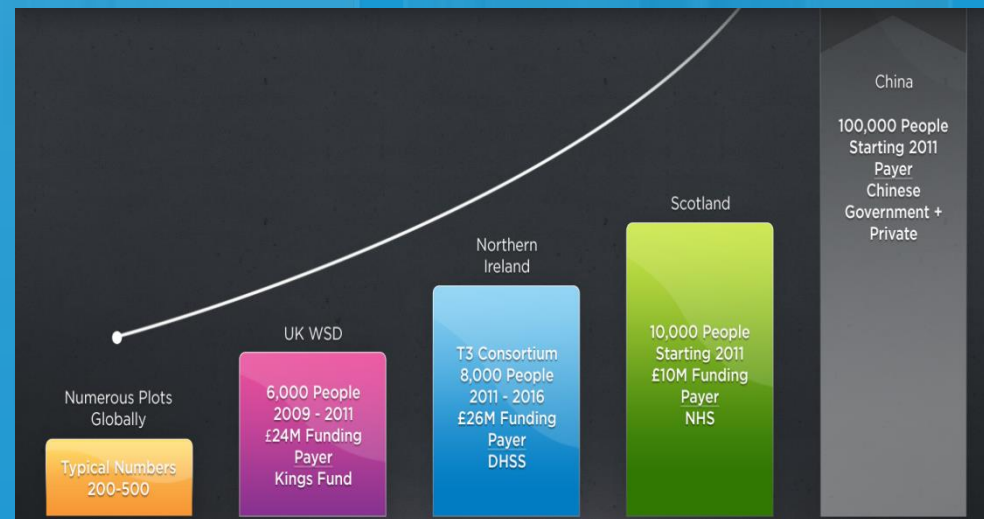


Source: Mercom Capital Group, LLC

'Ireland as a
Services Hub'

Telehealthcare 'Services'

- Remote Monitoring
- Telehealthcare
- IT Cloud Services
- Med Devices
- Supply Chain Services
- Insurance Servicers
- R&D Prod Dev.




Ireland Opportunity...



As Previously Outlined.....

Dalton, Tattan, Gurdgiev et al... www.ihsc.ie



The International Healthcare Services Centre (IHSC)

- An Emerging Opportunity for Ireland

News

2nd May 2010
The Irish Times Reviewed the IHSC proposal and Muiris Houston rated it as a "Brilliant Idea".
[Read full article here](#)

2nd Sept 2010
The IHSC made it to the final stages in the Your Country Your Call competition.

1st Feb 2011
Full Team now in Place for startup, many on pro-bono basis

31st March 2011
Dalton wins Entrepreneur competition with first IHSC spin out business 'Intellehealth'
[Read Irish Times article here](#)


15th May 2011
Dalton speaks at Intel Innovation Camp in Kilkenny.
[Watch video....](#)

15th May 2011
Sunday Business Post Coverage

15th Dec 2011
Silicon Republic article on IHSC...

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Click here to watch a 4 minute movie...



The IHSC recognises that the biggest business challenge of the 21st century will be efficient and equitable healthcare delivery. The IHSC proposal envisions Ireland building on its current strengths in the ICT, Financial Services and Medical Devices sectors and assuming 'first mover' advantage in this emerging industry. Doing so will create over 5,000 jobs and contribute €300M to the exchequer by 2020.

[All IHSC Documents Click Here...](#)

[To Download a 2 page Executive Summary Click Here...](#)

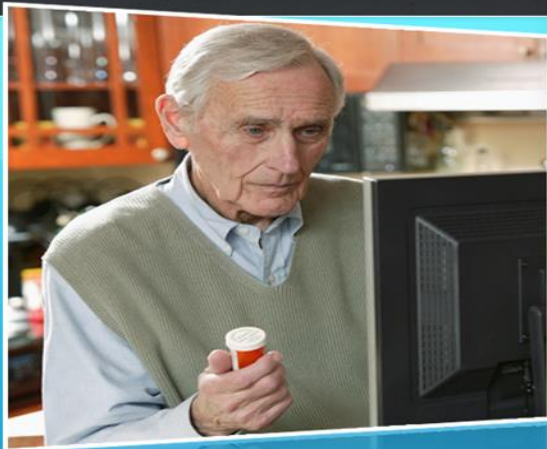
Final Notes

eHealth Delivery...

- Has the potential to be the single biggest change agent in Ireland's Healthcare Delivery System.
- Must NOT be viewed as yet another IT/HW/SW Project.
- Must be given proper focus and appropriate skilled resources.
- Patient-Centric Innovation Networks will be critical and proper understanding and management is key.
- Needs to be viewed as a National Infrastructural Investment as other utilities.
- Has enormous economic stimulus potential if properly managed.

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Thank You!

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