

Stay Left, Shift Left Digital Disruption and Transformation

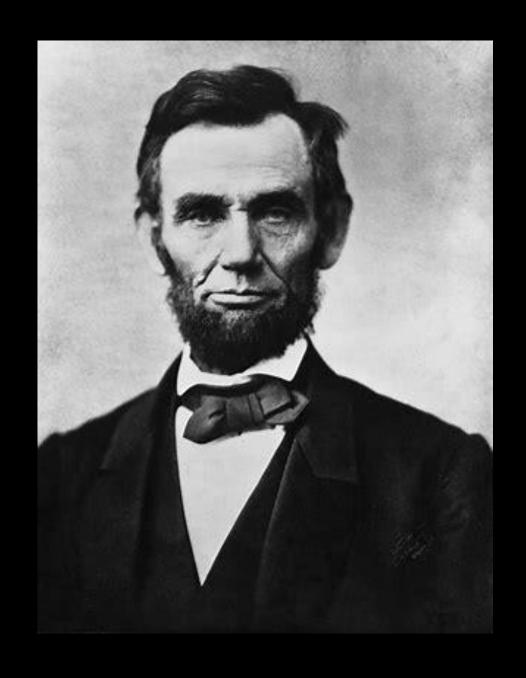
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"The dogmas of the quiet past are inadequate to the stormy present."



Who Knows Best?



















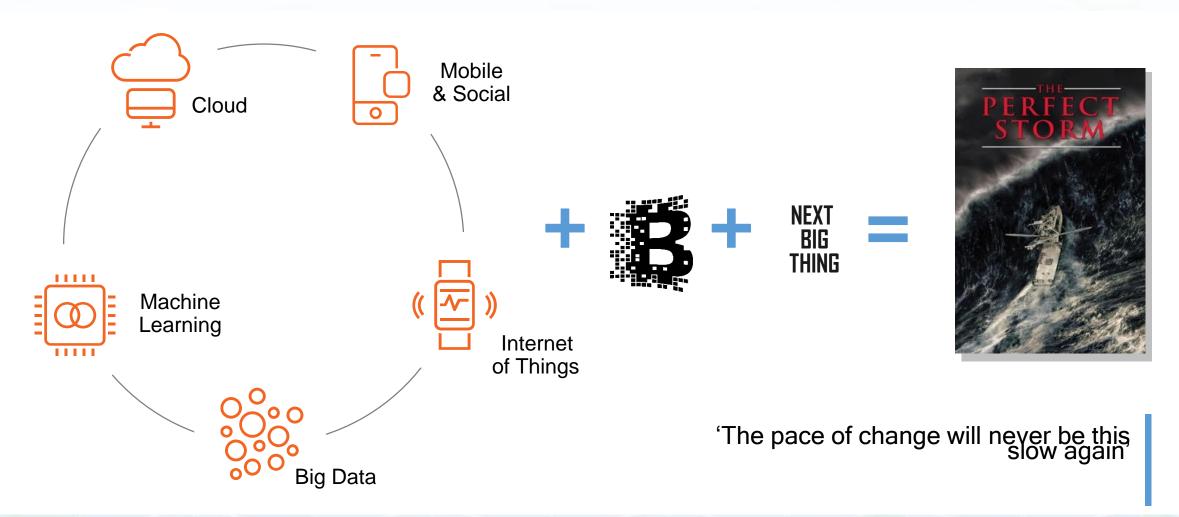








same time, we are potentially witnessing the biggest change in modern history

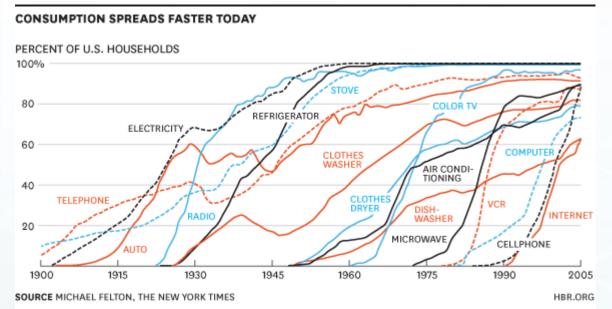


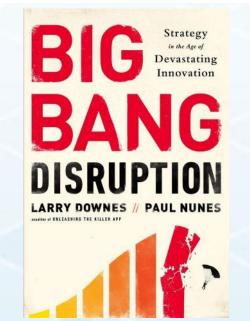
TECHNOLOGY ADOPTION RATES ACCELERATING

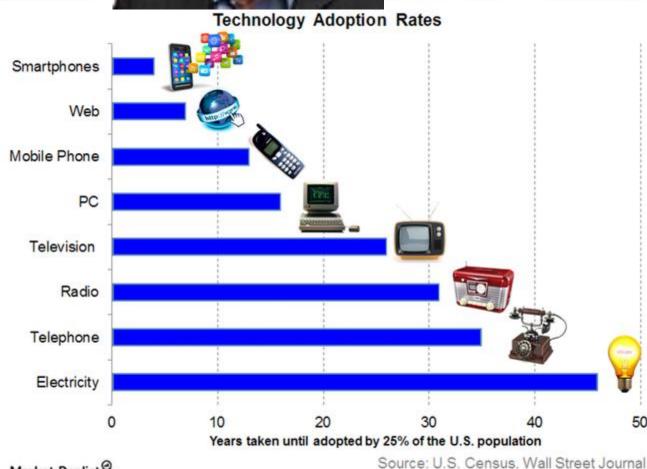












Market Realist@

Driving "Old Boring" to "New Sexy"

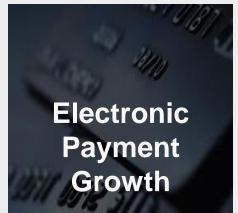




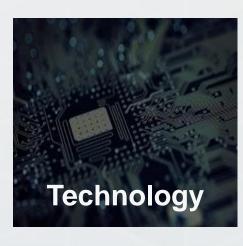
















Rpanjle172019

But significant disruption risks

Change in Market Capital value: Leading Retailers







COMPANY	MARKET VALUE 2006	MARKET VALUE 2016	% CHANGE
sears	\$27.8B	\$1.1B	4 96%
JCPenney	\$18.1B	\$2.6B	3 86%
NORDSTROM	\$12.4B	\$8.3B	33%
KOHĽS	\$24.2B	\$8.8B	4 64%
*macys	\$24.2B	\$11.0B	4 55%
BEST	\$28.4B	\$13.2B	№ 54%
⊙ TARGET	\$51.3B	\$40.6B	~ 21%
Walmart :	\$214.0B	\$212.4B	1 %
amazon	\$17.5B	\$355.9B	≈ 1,934%

Does 'Digital' matter....? Digitize or Die

Survive!

At current churn rates 75% of current S&P 500 will be replaced within 10 years -

Prof. Mark Perry, U of Michigan

Average length of stay (years) in S&P 500

1958	1980	2012	
61	25	18	

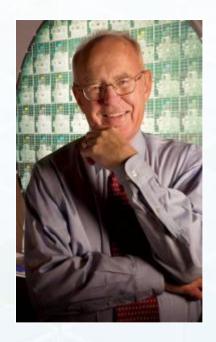


Exploit the Mega Trends









Mass **Collaboration**

Open Digital **Transforma**

Shared Value through Innovation ainability 2.0



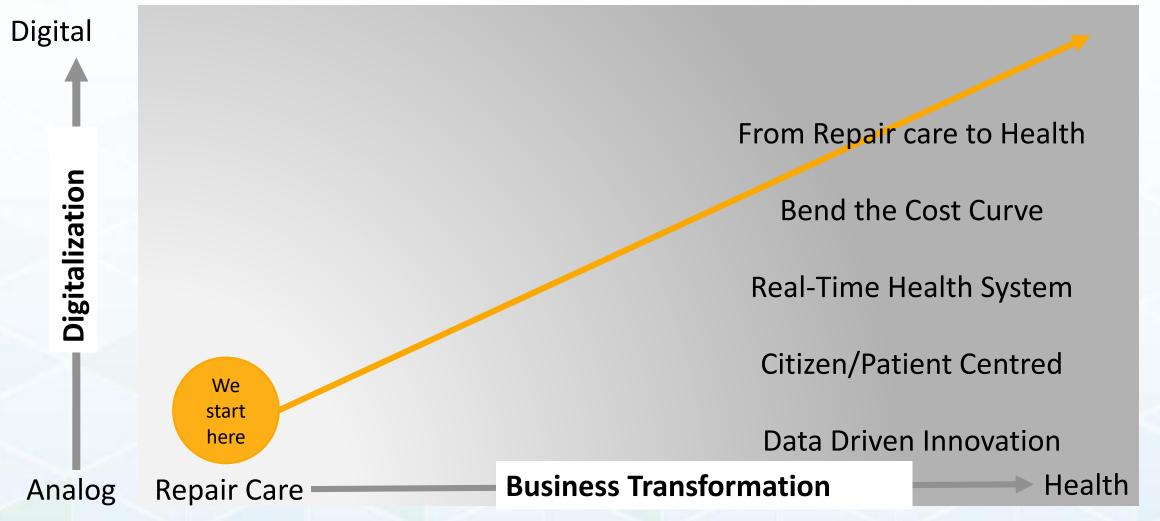


The Transformation of the Business of Healthcare









It needs an ecosystem and collective innovation methodology to achieve this!



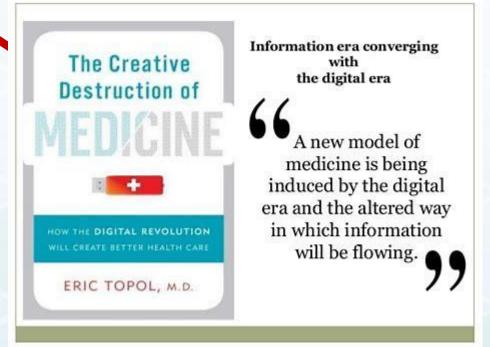




Open Innovation set to transform healthcare

Open Innovation

Open Innovation 2.0



Introducing Open Innovation 2.0;

012

The way is long if one follows precepts (rules), the way is short if one follows patterns - Seneca









Innovation, Technology, and Knowledge Management

Martin Curley Bror Salmelin

Martin Codey - Piero Formica - Giforn

The Experimental Nature of New Venture Creation

E Springer

Open Innovation

The New Mode of Digital Innovation for **Prosperity and Sustainability**



Open Innovation 2.0: The new mode for Digital eHealth Ireland Innovation; enabled, fuelled and built using Digital @ehealthireland **Leveraging Collective** Technology – Virtuous Cycle Start-up Intelligence and Students Energy; Multiplicative, Synergy Patients / University and network effects Government Ecosystem support Creative Commons hospital Co-innovator Source: M Curley/B Salmelin





A IDA Ireland

intel













Age Friendly

IRELAND

ECHAlliance



Charities

Professionals,



Health &

Social Care



Companies









Children's Hospital



(intel)

National Cancer

Control Programme





BEAUMONT

HOSPITAL





Cerner











Third

Sector













Building a Better Health

















Policy

Makers



Governments

Local Authorities



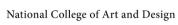
RESEARCH CENTRE



European Commission



Associations







REPUBLIC OF ESTONIA

MINISTRY OF SOCIAL AFFAIRS





Patients, Citizens

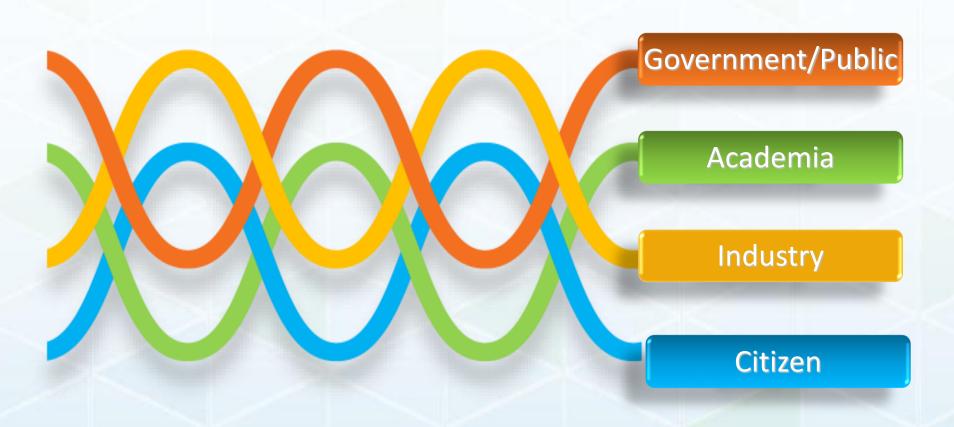








Government, Academia, Industry and Citizens collaborating together to drive structural changes far beyond the scope of any one organization could achieve on it's own



Ol2 core patterns





Profit,

Prosperity,

Probability



Culture

Design for

Vision Value, Values





Ecosystem





Data Driven

Industrial
Agile Production
Innovation





IT Backbone

OI2 is multiplicative



Alignment
Agility,
Acceleration









.....before this decade is out, of landing a man on the moon and returning him safely to the earth

Slaintecare





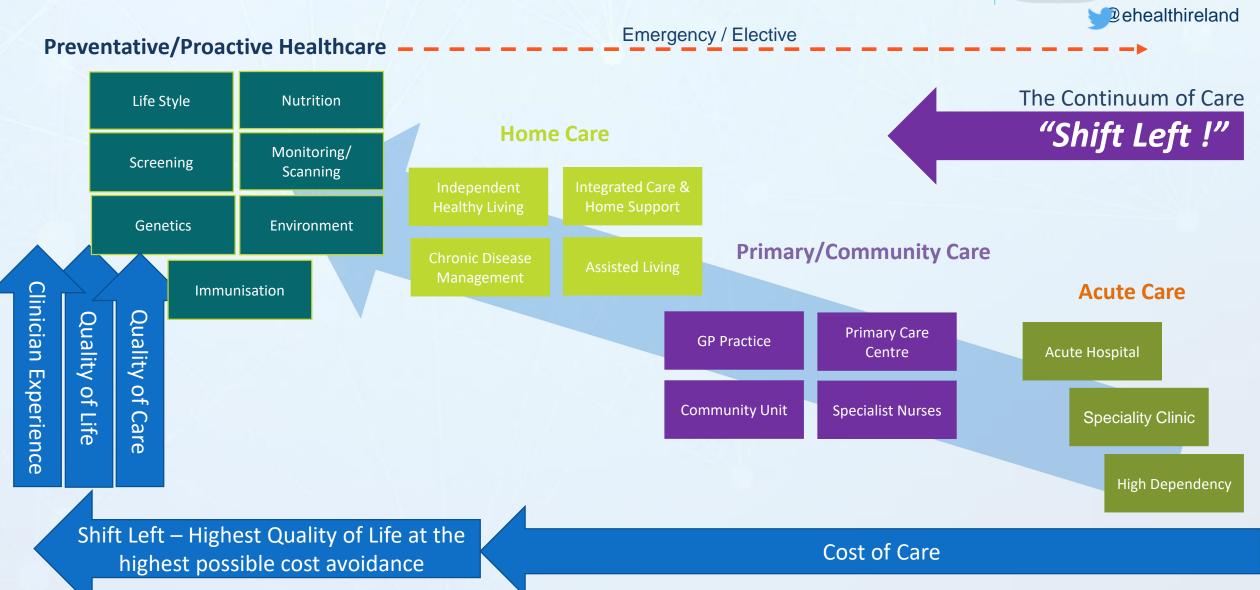
SLÁINTECARE IMPLEMENTATION STRATEGY



Stay Left, Shift Left



€€€€



€€

€€€

Stay Left, Shift Left: Moore's Law for Healthcare





Preventative/Proactive Healthcare

Life Style

Scanning

Genetics

Care

Clinician

Experience

Nutrition

Monitoring

Environment





The Continuum of Care "Shift Left!"

Home Care

Clinic Swiftqueue

Primary/Community Care



medxnote

Acute Care

Quality of Life Quality of Jinga Life

Immunisation







Assisted Living

Primary Care Centre

Speciality Clinic

Skilled Nursing Facility

Community Hospital



ICU

MAKING SPACE FOR HEALTHY MINDS

Shift Left – Highest Quality of Life at the highest possible cost avoidance

Cost of Care

€€

€€€

€€€€

A pivotal transformation required!









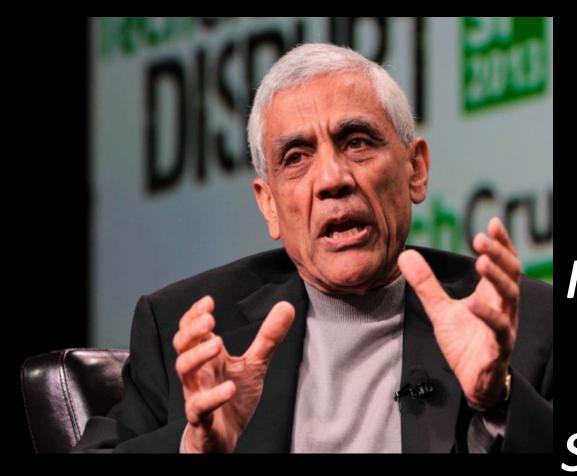




Project Oak is live at St James Hospital!







"In the next ten years Data Science will do more for medicine than all of the biological sciences combined."

Reimagining Medicine

....Through the use of "Digital and Data Sciences"

....Deliver Better Outcomes for Patients











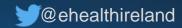
How we deliver treatments



How we operate



"We need to become a focused medicines company that's powered by data science and digital technologies,"... Novartis CEO Vasant Narasimhan



Evolve Strategy to a Shared Vision

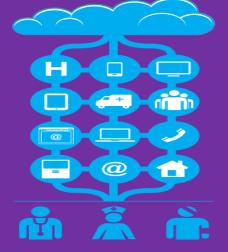
Care Networking

shift from institutions to preventative, proactive, mobile, home-based, & community care.



Care Anywhere

shift from solo to community and team-based care across orgs and IT systems

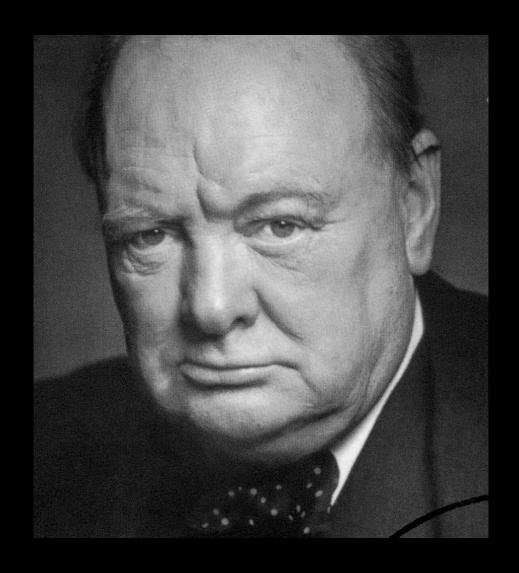


Personalised Care

shift from populationbased to person-based prevention and treatment



Source: Intel



"You make a living by what you get, you make a life by what you give."

Winston Churchill



Thank you!

Martin Curley, Director, Digital Academy and Open Innovation, HSE



