DIGITAL FOR SERVICE EXCELLENCE

Wednesday 13 October 2021

John Patrick Shaw Country Head - Legato Ireland Covid-19 changed our world and Accelerated Digitisation is a reality

Data is the New Currency

Digitise or Disappear



Legato is owned by Anthem Health Anthem 2020 Revenue \$ 121 Billion 40 Million Policy holders

Legato Ireland;

National Technology Park Plassey Limerick



John Patrick ShawCountry Head, Ireland

John leads Legato Ireland's strategy to build digital tools to simplify healthcare. Prior to joining Legato, John held senior technology leadership roles for over 20 years, most recently as Chief Executive Officer of the Data Value Hub. A Chartered Engineer, John holds an MBA degree in Technology Management and a bachelor's degree in Electronics Engineering.

- Accelerated Digitisation
- The Opportunity of Industry 4.0
- Make Better Decisions Faster
- Healthcare context

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Context: Impact of Covid-19

Covid-19 Changed our world.

Health has become the primary concern of our time.

We think today is 13 October 2021. It is not.

It is 13 October 2026.

There are 3 new realities;

- Health First
- Work from Home
- Accelerated Digitization

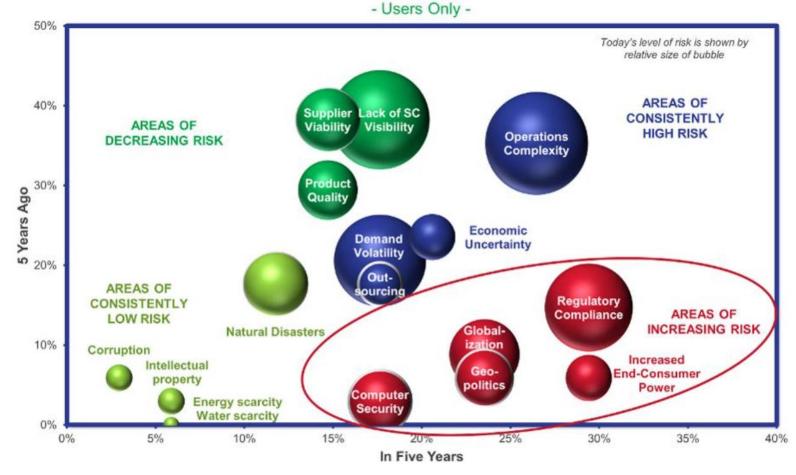
And Healthcare costs are rising. Soon the USA will spend 25 % of GDP on Healthcare.



https://www.covidvisualizer.com/

The World before COVID 19

Top Three Supply Chain Risk Drivers: In 5 Years vs. 5 Years Ago



Source: Supply Chain Insights LLC, Supply Chain Risk Management (Mar-May 2018)

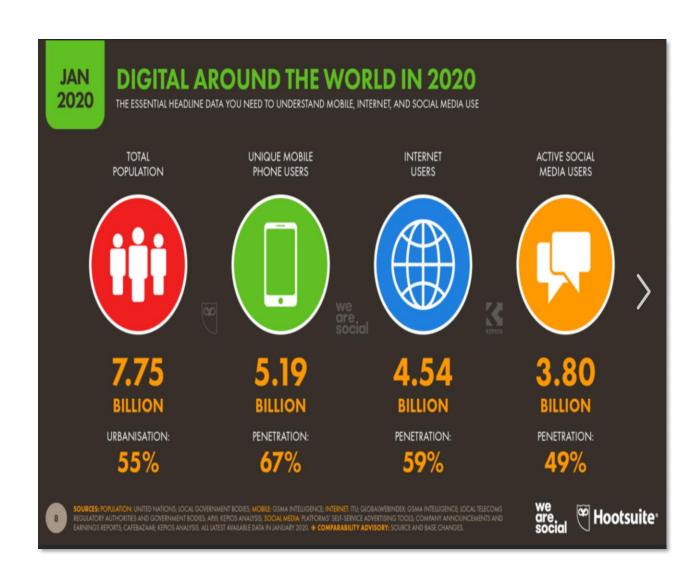


Nassim Nicholas Taleb

Risk Experts didn't see spot this Black Swan Event

Before COVID-19, huge change already underway

- \$3.7 Trillion Worldwide Annual IT Spend
- 5.19 Billion Smartphone Users
- 3.80 Billion Active Social Media Users



Digitisation was beginning to Disrupt in major ways

Before COVID-19, Shopping Malls already in trouble



YOUTUBE: New, Empty Shopping Mall, 06 Nov 2018

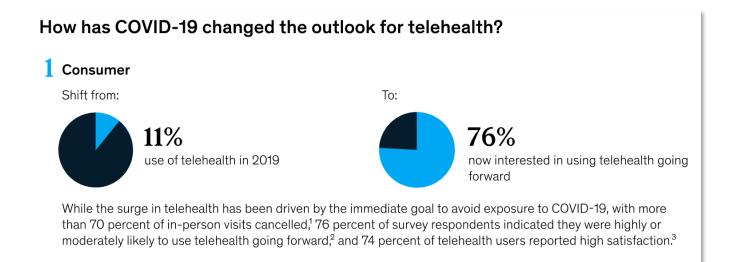
Many Shopping Malls in the US seeing declining visitor numbers due to **online competition**

"Within 5 years, the Shop is dead in North America" Nov 2018



Gary Vaynerchuk

COVID-19 has accelerated underlying trends;



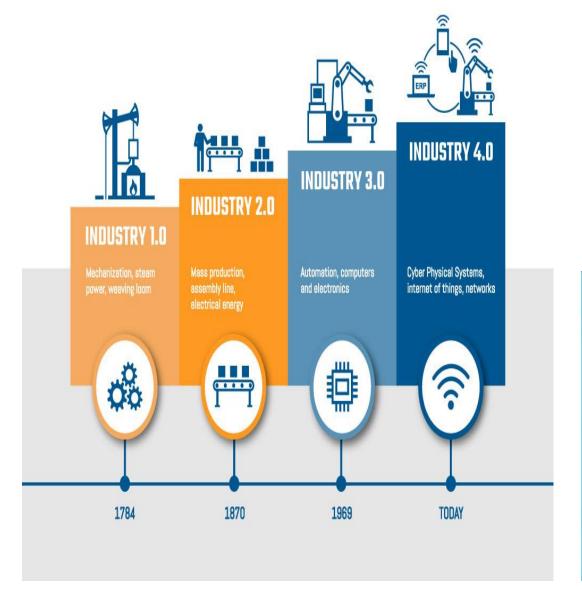


McKinsey Report

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Industry 4.0 Revolution

- Industry 4.0 is all about Digital Operational Excellence
- Bavaria's Car Industry is where the Industry 4.0 Revolution began 10 years ago.
- In 2010, Bavaria faced fierce competition from across the world. Although home to Hi-Tech Brands, Bavaria has the highest wages in Europe.
- To compete, a new Way of thinking was introduced Industry 4.0: make better decisions faster
- Real-Time Decision Making is possible by Digitising with Lean in mind



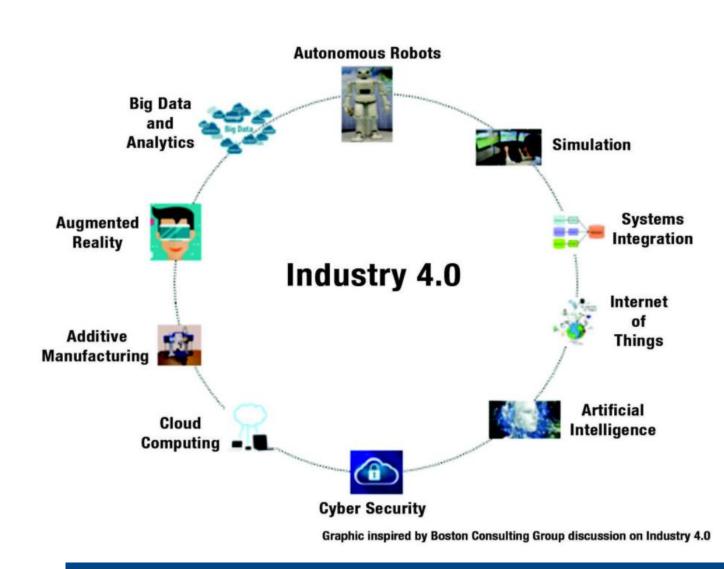
Impact of each Revolution

- > Introduction of new products and means of producing existing ones
- Disruption of the competitive status quo (both within and between countries and enterprises)
- New requirements to workforce and infrastructure

All of the enabling technology already exists

Industry 4.0 Technology?

- All of these technologies are in use for at least
 10 years
- But now they are cheaper, more reliable and easier to implement than ever
- Enterprises across the world are already doing this to win customers, to reduce cost, to improve their products
- Technology becomes cheaper by the day; Cloud Storage, Internet Connectivity, PCs are cheaper, better and faster than 5 years ago
- Technology becomes more reliable by the day; resilience, Evergreen, Warranties deliver better uptime
- But, Skills are in short supply and Cyber Security is a growing and real threat



A new Mindset is needed: Data is an Asset

Industry 4.0 Mindset

- New Technology brings new ways of thinking
- Data is the new currency
- Data Value is the new Objective
- To succeed, Enterprises need to pivot their Strategy towards Value from Data;
 - Experiment with ideas, pilot ideas
 - Partnership with Suppliers and Customers
 - **Digitise** all Data Collection, remove paper
 - Attract, Develop and retain Digital Talent
 - Upskill the team to avail of the Technology Opportunity
 - Focus on Cyber Security and Data Protection



VIRTUAL COLLABORATION

- · Ability to work productively
- Demonstrate presence as a member of a virtual team



COGNITIVE LOAD MANAGEMENT

- Ability to discriminate and filter information for importance
- How to maximize cognitive functions



COMPUTATIONAL THINKING

- Ability to translate vast amounts of date into abstract concepts
- To understand data based reasoning



DESIGN MINDSET

- Ability to represent and develop tasks
- · Ability to work process for desired outcomes



SOCIAL INTELLIGENCE

- Ability to connect to others in a deep and direct way
- Ability to sense and stimulate reactions and desired interaction



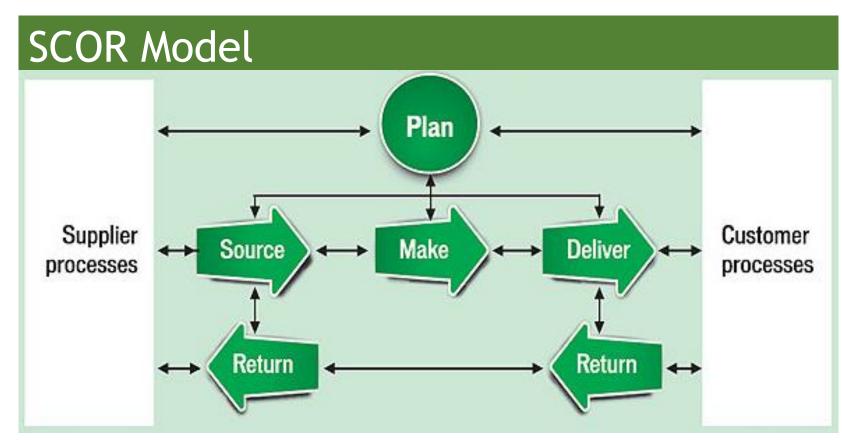
ADAPTIVE THINKING

- Proficiency at thinking and coming up with solutions
- · Ability to determine the deeper meaning of what is being expressed

This thinking can be applied to Value Stream Mapping

Industry 4.0 Value Chain perspective

- Big opportunity to align 3 Initiatives;
 - Supply Chain Management
 - Lean Sigma
 - Digitisation
- The SCOR Model provides a framework to Map your Enterprise's processes against a standard template
- Aids in configuring your ERP system, your Business Reports and KPIs
- Helps to target where Decisions need to be Automated



Source: Supply Chain Council of America

Industry 4.0 Benefits

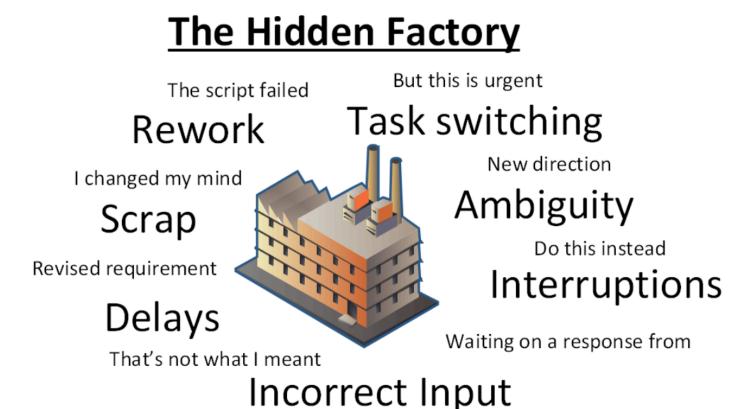
- Improve Customer Satisfaction and Product Flow with RFID, Barcode Labelling, GPS Tracking of vehicles
- Improve Product performance with realtime monitoring
- Reduce Process errors with Computer Vision Quality Control
- Reduce Equipment downtime with IoT Proactive Maintenance
- Improve Workplace Safety with protective beams, training monitoring, first aid alerting
- Industry 4.0 is all about Better Decisions,
 Now



In the absence of data, the Enterprise is wasting money

Impact of not Digitising the Enterprise

- In the absence of Data, a Hidden Factory exists in every Enterprise
- A Hidden Factory exists, where wages, lighting, facilities, machines are paid for with zero return
- A Hidden Factory of all the costs associated with Delays, Errors, Waste, Scrap
- With Industry 4.0, need to move from 'Managing by Gut-Feel 'to 'Managing with Data'
- You have to assume the Competitor is already doing this



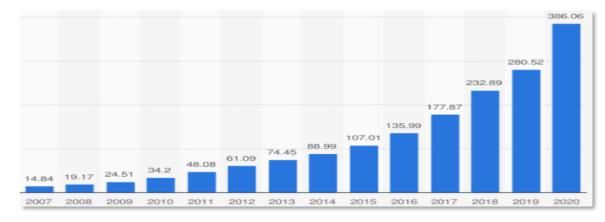
The Competitor is already eliminating Waste, Delay, Errors

Digitise or Disappear

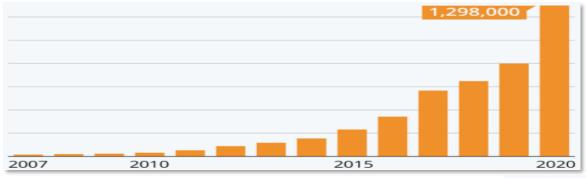
Amazon.com are building Ireland's largest ever Warehouse in Baldonnell, for Same Day Delivery Everywhere;



37 % growth in Amazon Global Revenue in 2020



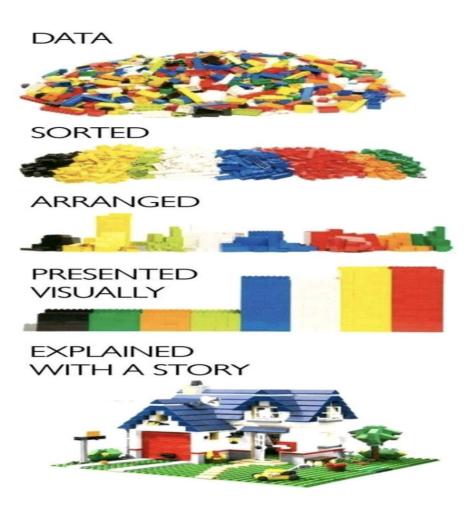
62 % growth in Amazon Total Employees in 2020



statista 🗹

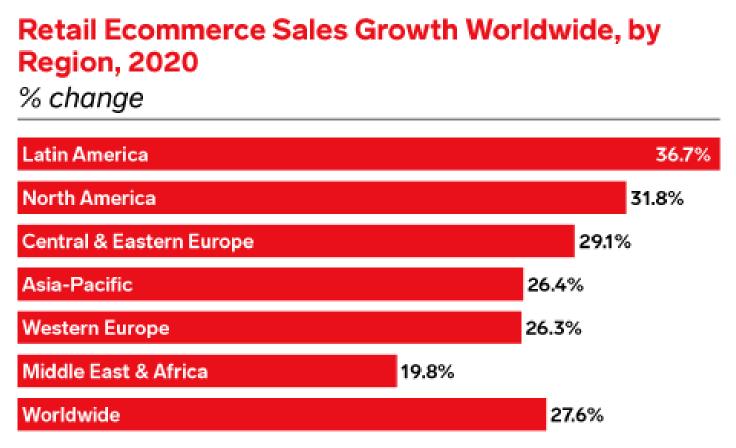
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Purpose



Why engage in Digital Innovation Projects?

- The Competition are Automating, selling Online, using AI to optimise their business, developing Digital Products
- In May-June 2020, 85,000 UK businesses launched eCommerce sites due to COVID-19
- 37 % growth in Amazon.com sales in 2020 globally
- Anyone fluent in English, with a good Internet connection, is now your competitor



Source: InsiderIntelligence.com

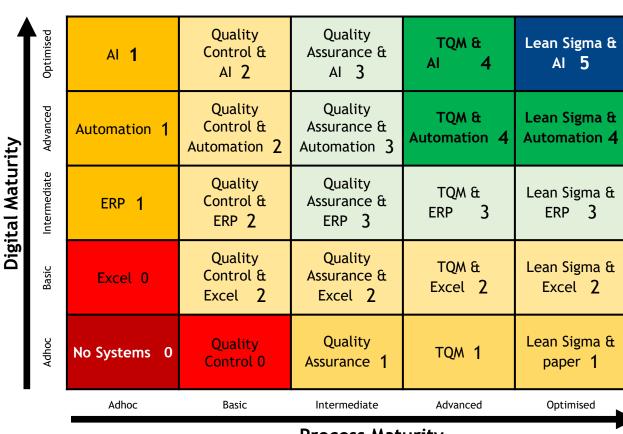
An Approach to Digitising

- Digitise to help your Enterprise Compete.
- Find Better, Faster, Simpler, Cheaper ways of working via Technology.
- Do this by focusing on Data.
- 3 strands to this approach for the Enterprise;
 - 1. Digital Operational Readiness Assessments
 - 2. Incubator Projects to build self-sufficiency in Enterprises
 - 3. Technology Upskilling including Online Courses, open days, webinars, guest lectures and workshops

1. Enterprise Maturity Assessment

- We begin by understanding an Enterprise's Maturity, in terms of Process and Digital
- **Digital Maturity** is about Al Readiness
- We help Enterprises at level 2/3 who want to advance to level 4
- A project for a Level 4 Enterprise is very different to a project for Level 2 Enterprise
- Important for every Enterprise to have a Roadmap to get to Level 4 within 3 years
- Need to assume your competitor is on the way to Level 5 Maturity

Enterprise Maturity



Process Maturity

Work with the Enterprise to explore potential projects

1. What Technology is right for the Enterprise?

		SECTORS						
Data Domain for Artificial Intelligence	Value Proposition	AgriFood and Beverages	Manufacturing products	Engineering - making equipment and parts	Architecture & Construction Management	Transport and Logistics	Financial Services & Legal Services	Retail & Hospitality
ERP Optimising Systems	Enterprise Resource Planning - Forecast , Schedule, Optimise	X	Х	Х	X	Х	Х	X
Expert Systems	Inference Engines, Knowledge Base	X	X	Х	X	X	X	X
Factory Floor Robots	Automate manual process effectively, reactive machines	X	Х	Х				
Robotic Process Automation Software	Automate manual process effectively, reactive machines	X	Х	Х	X	X	X	X
News Feeds	Increase customer engagement	X	Х	X	X		Х	X
Machine Learning Algorithms	Forecast Utilisation, Predictive Analytics, Price/Purchase Prediction, Virtual Sales Assistant	X	Х	Х	X	Х	X	X
Computer Vision	Quality Assurance, Virtual Diagnostics, high speed Image recognition	Х	Х	Х	Х		Х	X
Chatbots & Intelligent Agents	Customer Service, Customer Experience, Personal Productivity, Knowledge Management	X	Х	Х	Χ	X	Х	X
Speech Recognition	Speech to Text, Text to Speech, Language translation	Х	Х	Х	Х	X	X	X
Augmented Reality	Equipment maintenance and training, Virtual Shopping	X	Х	X				X
Virtual Reality	Teleconferencing, virtual Exhibition / product demonstration	Х	X	Х	X			Х
Natural Language Processing	Language Translation, Interpreting text (unstructured data), Converting to structured data	X	Х	X			X	Х
Autonomous Vehicles & Drones	Safe movement, safe delivery	X	Х	Х		X		
Quantum Computing	Solve intractable Business Optimisation problems rapidly, improve data encryption	X	Х	X	X	Х	X	X

Begin by Assessing an Enterprise's Industry 4.0 Readiness

2. Assessing Incubator Projects

It begins with a conversation;

- Do you have a Concept for a new Product ?
- Do you have a Concept to make your Business run Better, Faster, Simpler, Cheaper?
- Do you have a Concept for a new way to serve your Customer?
- Focus on Benefits;

BENEFIT

An Opportunity to understand your Customer better?

New Product/Service Opportunity?

Process Improvement Opportunity?

COMMITMENT

Can you provide a person to work with us on the project?

Do you have the technical resources in-house to support this project?

DATA

Do you have Historical Data?

Is the Historical Data Labelled?

Is there a means to capture Realtime Data?

Is the Data Management Process compliant with GDPR?

- Once approved, we agree Project Scope, Deliverables and Milestones
- The first project is free; this is all about 'Learn by Doing'

The Incubator Project advances the Enterprise's Digital Capability

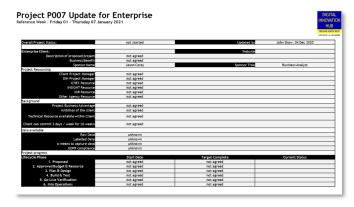
2. How to run a project

PLAN

We work with you to Create a **Project Plan** with Clear Deliverables & Milestones

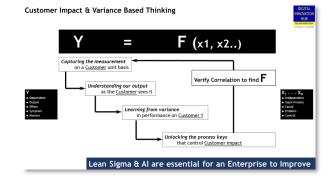


We track progress with you in a bi-weekly **Project Review Meeting**

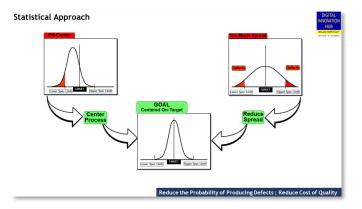


ANALYSE

We identify a **Pattern in the data**, leading to a better understanding of Process Controls;



We review the Patterns to generate Options for better performance;



IMPROVE

Depending on the type of project, we make recommendations on what **Technology to deploy** to achieve you Concept;

Prediction Algorithm

Analytics Service

Expert System

Robotic Process Automation

Computer Vision

Factory Floor Robots

Real-Time Measurements

3. Approach to Technology Upskilling

Aim to provide Enterprises with the Technology Skills to become self-sufficient

Schedule courses based on demand, sometimes with a small fee and always with a feedback form

Don't want to reinvent the wheel; work alongside ICT Skillnet, Colleges and Institutes who already offer courses

There are 3 areas for Upskilling;

ANALYTICS

- Artificial Intelligence Strategy
- 2. Artificial Intelligence fundamentals
- 3. Edge Computing

PROCESS

- 1. Industry 4.0 Strategy
- 2. Robotic Process Automation with MS PowerApps
- 3. Chatbots with MS PowerApps

PRODUCTIVITY

- 1. MS Office 365 for personal productivity
- 2. Using MS Teams for Collaboration; Channels, Files and Calls
- 3. Data Analysis with MS Power BI

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Digital Health & Wellness Capability Maturity

- Hosted by the Innovation Value Institute
- In Discussion with 10 Organisations to build the Digital Health and Wellness Capability Maturity Framework
- Representation from Medtech, Pharma, Digital Sectors, Global and Local, in addition to Academia
- Assessing an Enterprise Ireland Innovation
 Partnership Programme to develop Version 1.0 of the Digital Health and Wellness Capability Maturity Framework
- In Discussion with **22 other organisations**, to form a community of like-minded Innovators





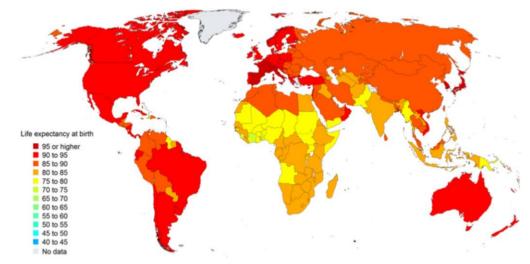
2050 World Health Projections

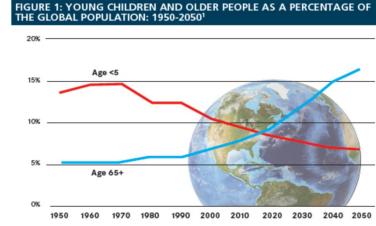
Life expectancy will continue to rise, reaching 90+ years in several countries.

15 % of the population will be > 65 years, only 7 % < 5 years.

India will have > 1.5 Billion citizens, 60 % of the world's population will be in Africa, South & East Asia.

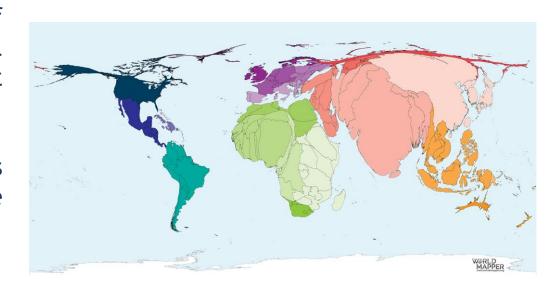
Drug Resistant infections will be the leading cause of early death

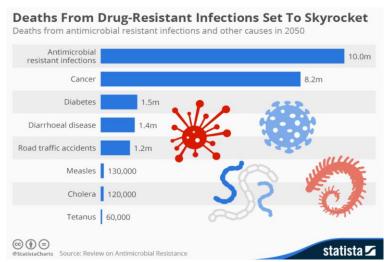




Source: World Population Prospects: The 2010 Revision, United Nations.

Adapted from Global Health & Aging, World Health Organization, 2011.





2050 Digital Health & Wellness

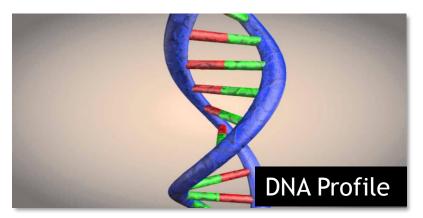
In 2050, a person's health is monitored in real-time and managed over their full lifespan, a Digital Life

In 2050, Patterns in Disease, DNA, Diet, Exercise and Behaviour are correlated to maximise Personal Wellness

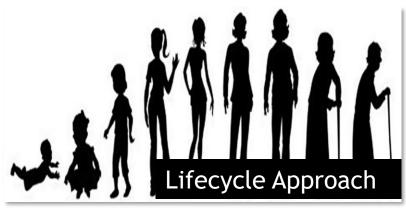
In 2050, Patterns in Society are identified and lead to a better approach to Societal Wellness

Real Time Monitoring + Pattern recognition will inform Government Policy









We will each have our unique Digital Health Record

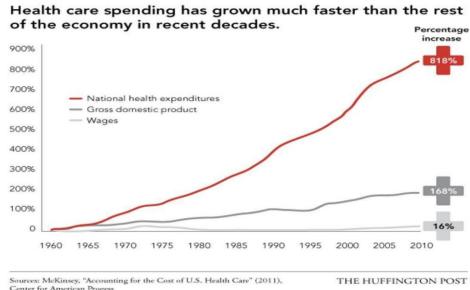
2021 Health & Wellness Reality

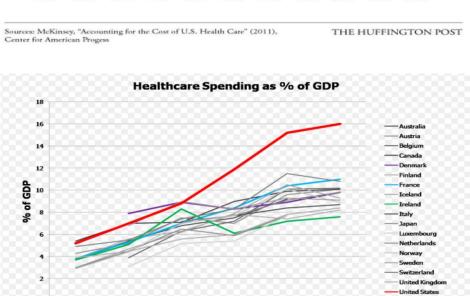
The cost of healthcare is rising, everywhere.

1960-2010 saw a 818% increase in USA healthcare spending v 16% in wages.

An increasing % of GDP is devoted to Healthcare and this will rise.

An aging population will drive the cost higher.





1990

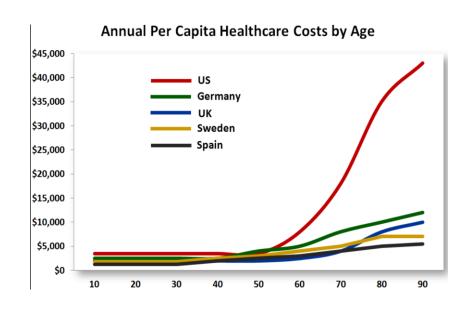
2003

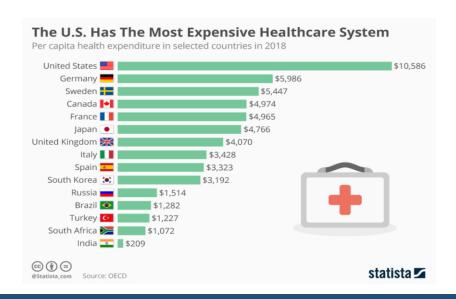
2007

1960

1970

1980



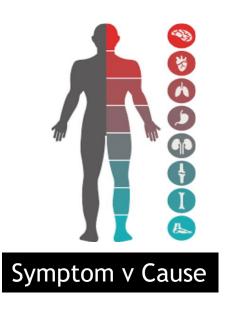


2021; A pre-Digital approach

Conventional Approaches to medicine can often treat the **Symptom**, **not the cause**.

Conventional Approaches can often treat a problem in isolation, not as part of a larger systemic issue

Conventional Approaches can often lack data when diagnosing an issue





Problem v System



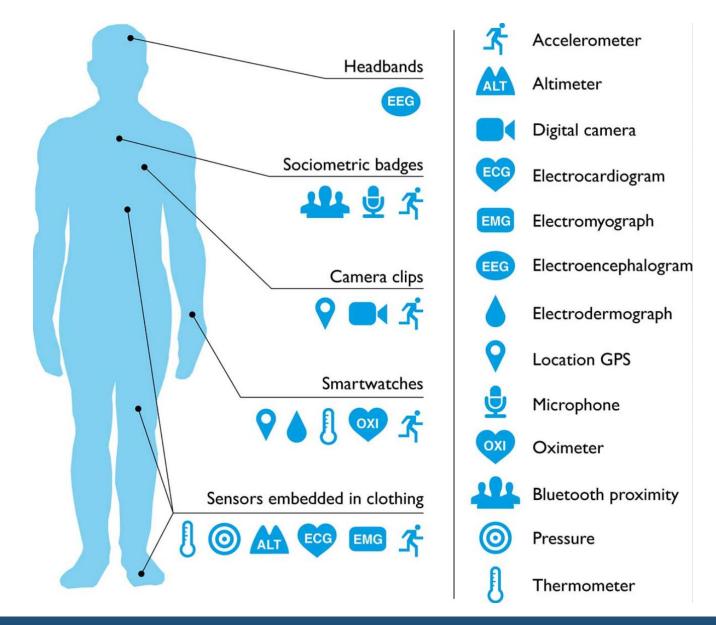
Data v Diagnosis

Digital Wellness must encompass the Whole Person

2021; The Potential of Wearables

Smartwatches, wearable cameras, sensors in clothing all provide data sources that can identify risks

Real-time monitoring and alerting of acute medical issues are now possible



Wearables + AI represents a big opportunity to improve Digital Wellness

Begin with the Patient's Quality of Life

A Patient-centric approach aligned Health Outcomes with Health Informatics.

Always-On Monitoring, Large population pattern recognition, preventative interventions and targeted care will improve Quality of Life.

Emerging Technology and emerging Patient awareness drive the need for a New Approach.



Source: 2025 Strategic Plan | UK HealthCare (uky.ed

Health & Wellness Ecosystem

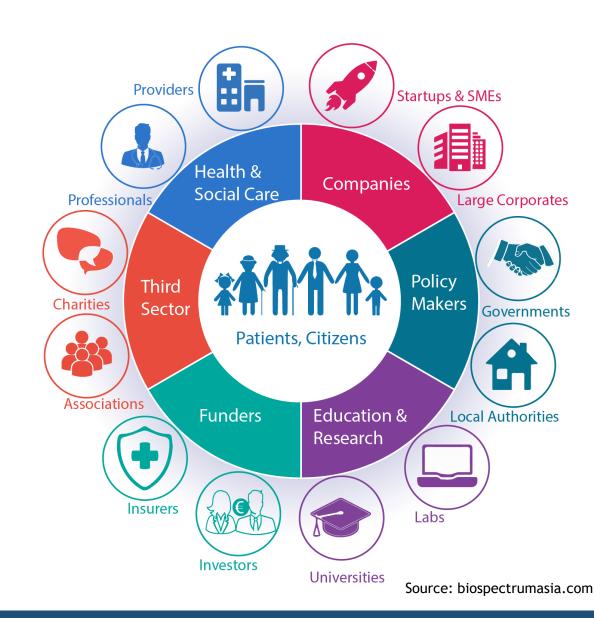
Data is currently disjointed across the Wellness Ecosystem, preventing effective analysis and decision-making

The Citizen cannot see their **Digital Health Lifecycle data** in one place: childhood vaccination records, Genome, Familial health risks

Society cannot target Root Causes to eliminate underlying health issues

Costs are rising, Health Risk are rising faster

A new **Framework** is needed, to encourage collaboration between Commercial organisations, Academia and Public Services, a **Virtuous Helix**



A Virtuous Helix representing all Stakeholders

The Need

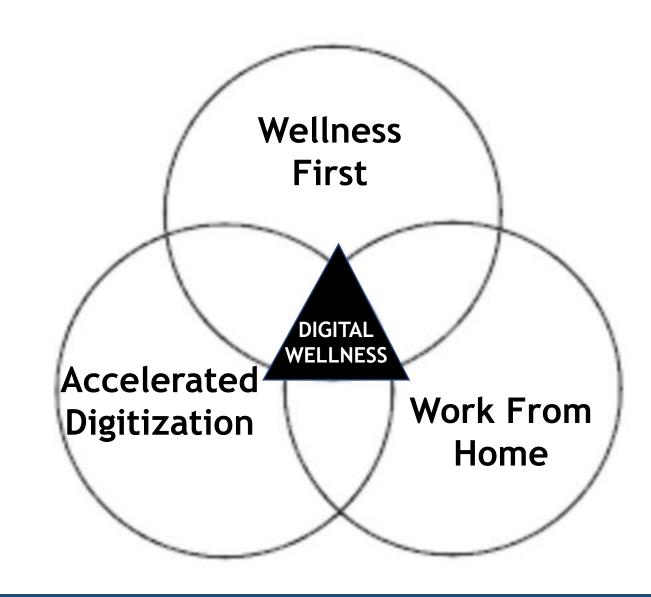
Health Costs are rising, **Disease Risks** are rising faster

There is no Unifying Framework to align and optimise investment in Digital Wellness

The Citizen cannot easily understand their Wellness Lifecycle

Society cannot easily understand and address **Broad, Underlying, Long-Term Health Trends**

Commercial Organisations, Academic and Public Services need a mechanism to collaborate on Open Standards and Share Learning



Digital Life Institute

Dr Sean Ennis has a vision for the Virtual Human, a Digital Twin, taking data in real-time, assessing DNA data and combining this with large datasets to optimise lifelong health





This borrows concepts from the Aircraft Industry

Analogy?

DIGITAL TWINNING IN AIRCRAFT PRODUCTION



DESIGN

Specific design of the aircraft based on direct client customisation



BENEFIT

Better customer experience, "right first time" design and faster time to market



MANUFACTURING

Manufacturing and assembly of the aircraft based on digital twin plans



BENEFIT

Improved planning, flexible supply chain, leaner production, seamless testing and certification



IN SERVICE

Aircraft is monitored in service in real time through sensors and data interpretation



BENEFIT

Predictive maintenance, optimised asset utilisation, smart product upgrade and other value-based services

Oliver Wyman 2016

10 Safest Airlines

Airline	Country	IOSA	EU Allowed	Fatality Free	FAA Endorsed	ICAO Country Audit	Safety Rating ~
Air New Zealand	New Zealand	~ ~ ~	•	•	•	•	*****
Qantas 🗹	Australia		•	•	•	•	*****
Singapore Airlines	Singapore	• • •	•	•	•	•	*****
Emirates 🗷	United Arab Emirates		•	•	•	•	*****
Royal Jordanian 🗷	Jordan	• • •	•	•	•	•	*****
Cathay Pacific 🗷	Hong Kong		•	•	•	•	*****
Virgin Atlantic 🗹	United Kingdom	• • •	•	•	•	•	*****
Etihad Airways 🗷	United Arab Emirates		•	•	•	•	*****
Swiss International Air Lines 🗷	Switzerland	• • •	•	•	•	•	*****
Japan Airlines 🗸	Japan		•	•	•	•	*****

10 Worst Airlines

Airline	Country	IOSA	EU Allowed	Fatality Free	FAA Endorsed	ICAO Country Audit	Safety Rating 🔻
Conviasa 🗷	Venezuela	(x) (x) (x)	•	x) i	•	•	*****
Pakistan International Airlines	Pakistan	* * *	×	×i	•	×	*****
Air Algerie 📝	Algeria		•	x i	•	x i	*****
Pegasus 🗷	Turkey	• • •	•	×	•	•	*****
Scat 🗗	Kazakhstan		•	x i	•	x) i	*****
Aerocaribbean 🗷	Cuba	* * *	•	×i	•	•	*****
☐ Airblue ☑	Pakistan	(x) (x)	•	x i	•	•	*****
☐ Blue Wing ♂	Suriname	* * *	×	× i	•	🗸 i	******
Iran Aseman Airlines	Iran		(*)	(*)	•	•	*****
Nepal Airlines 🗷	Nepal	* * *	×	×	•	×	*****

https://www.airlineratings.com/safety-ratingtool/

Innovation Vectors for a Digital Life

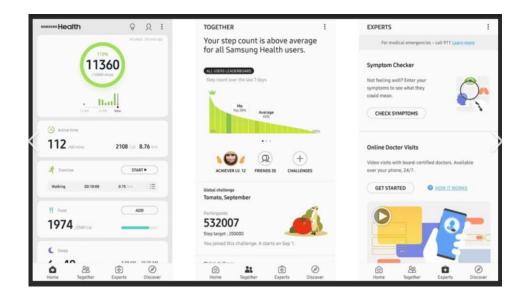
Many Commercial Organisations are interested in Supporting **Digital Health & Wellness**

There is an opportunity to create **Certified Medical Wearables**, prescribed by GPs

It is essential to Build Machine Learning and Artificial Intelligence into all Products, enabling Peer-Reviewed Studies on Large Populations

Bio-mimicry is also a big opportunity to achieve x1000 increase in sensitivity to achieve

Researching **the Digital Human** is about aligning AI + Wearables + IOT to produce a better Digital Life for all





----- Citizens' Health Charter ------

Every Citizen is Healthy until 100 years

Every Citizen is proactively cared for to prevent illness

Infectious Diseases are very rare

Heart Disease, Arthritis, Diabetes Type 2, Alzheimers and Cancer are very rare

Invasive Surgery and Organ Transplants are very rare

Physical and Mental Injuries are very rare

Real-time Diagnostics V Lifetime Wellness	Monitor Leading Indicators for healthy Cardiovascular system	Digestive	Monitor Leading Indicators for Cognitive system	Monitor Leading Indicators for Muscular- Skeletal system	Detect Infection by Pathogen in Individual	Detect, Track and Trace Epidemics	Accelerated Vaccine Discovery & Deployment	Decision Support for 100 year Healthy lifespan
Wearable Sensors	X	X	X	X	X			X
Quantum Computing						X	X	X
Personal Genomic Data Store	X	X	X	X	X	X	X	X
Machine Learning					X	X		
Artificial Intelligence					X	X		
Embedded Sensors	X	X	X	X				X
Digital Twin								X

Capability Maturity Framework

	Maturity	Digital Health & Wellness Improvement Strategies						
	Levels	Digital Digital Budget Capability		Digital Value	Digital Business Model			
5.	Optimizing	Sustainable Economic Model	World Class	Optimized Value	Value Centre			
4.	Advanced	Funding Amplification	European Leader	Managed Yield and Portfolio	Investment Centre			
3.	Intermediate	Managed Spending	Average	Value Measurement	Service Centre			
2.	Basic	Low Spending	Mediocre	Establish Benchmark	Cost Centre			
1.	Initial	Beginning	Beginning	Beginning	Beginning Source: Martin Cur			

Source: Martin Curley, Intel / IV

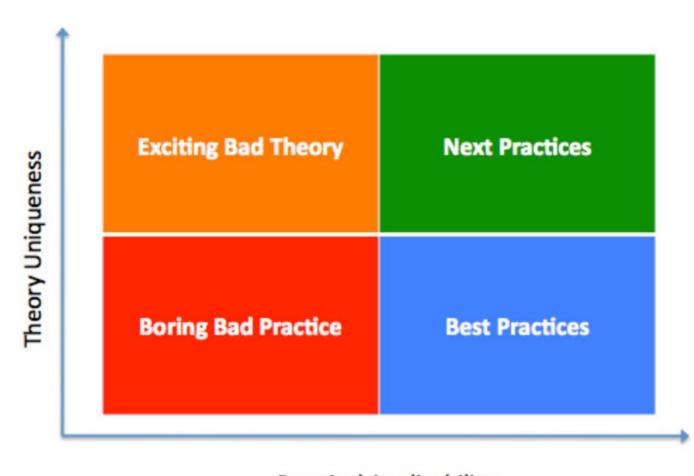
A focus on Next Practice, not Best Practice

The Best Practice of 2020 is not good enough for the problems of 2050

A Next Practice approach is needed, to identify the emerging Opportunities earlier, faster, better

A Next Practice approach takes the **best of Global & Local ideas** into the DWII

A philosophy of Next Practices means engaging in a **Virtuous Helix** with Academia + HealthCare + State Agencies + Commercial Enterprises to think of the **Best Possible 2050**



Practical Applicability

A unifying Framework is needed

Benefits of this Framework approach

- Faster, Better Decisions
- Improved Strategic Impact
- Less Technical Debt
- Provides roadmap for Digital Investment
- Provides the ability to co-design the Digital Health & Wellness future

The DHW-CMF is adapted from the Intel IT-CMF model.

The IT-CMF is peer tested with 100+ organisations.

The DHW-CMF doesn't compete with other frameworks, instead there is a focus on complementing other frameworks.



Maturity	Digital Health & Wellness Improvement Strategies						
Levels	Digital Budget	Digital Capability	Digital Value	Digital Business Model			
Optimizing	Sustainable Economic Model	World Class	Optimized Value	Value Centre			
Advanced	Funding Amplification	European Leader	Managed Yield and Portfolio	Investment Centre			
Intermediate	Managed Spending	Average	Value Measurement	Service Centre			
Basic	Low Spending	Mediocre	Establish Benchmark	Cost Centre			
Initial	Beginning	Beginning	Beginning	Beginning			

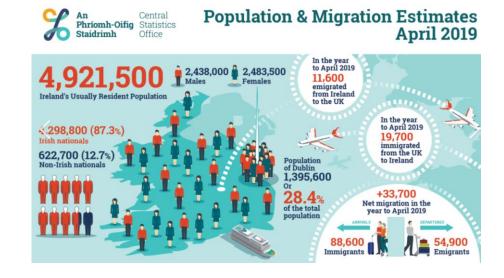
Accelerate the move to Next Practices

Living Lab

5 million population represents a Living Lab for better approaches to lifetime Wellness

Patterns in DNA, Diet, Exercise and Behaviour can be correlated to maximise Personal Wellness

Insights and Methods can be replicated to other parts of the globe





Why Ireland? Life Sciences Perspective

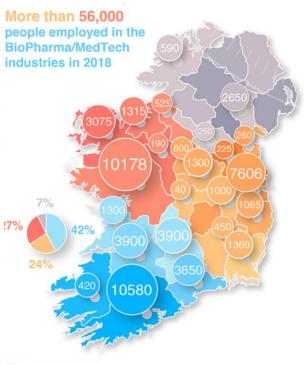
Ireland is home to all of the major Medtech, Pharma and BioPharma players;

Medtronic, Roche, Boston Scientific, Stryker, Abbott, WuXi, Pfizer, J&J, Sanofi, Merck, Novatis, Abbvie, Amgen, BMS

All the major BioPharma players are in Ireland;

abbvie WuXi Biologics AMGEN Mylan Shire ALEXION REGENERON MSD janssen T SANOFI OMARIN

56,000 work in Life Sciences:



Continued Expansion of existing operations underway;

Munster 23,750

Clare 1300

· Cork 10,580 Kerry 420

 Limerick 3900 Tipperary 3900 Waterford 3650

· Carlow 450

Dublin 7606

· Kildare 1000

Longford 600

Wexford 1360

· Wicklow 1065

Meath 225

Galway 10,178

• Roscommon 190

· Leitrim 525

Mayo 3075

Sligo 1315

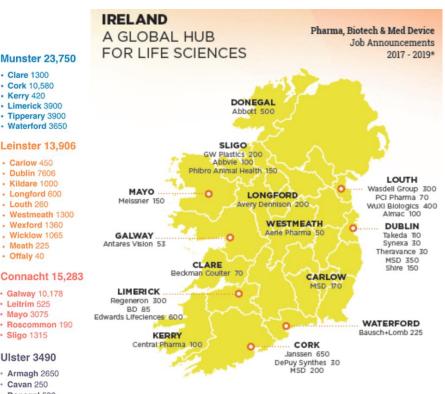
Ulster 3490

 Armagh 2650 Cavan 250 · Donegal 590

· Offaly 40

Louth 260

Leinster 13,906



Why Ireland? Tech Sector perspective

Ireland is the European Home for all of the major Global Tech Players;

Huawei, Microsoft, Dell, Intel, Facebook, Cisco, Google, LinkedIn, Amazon, Apple, HP, IBM, Oracle, LinkedIn

Ireland also has a large indigenous tech sector operating in the Health Wellness and sector, with like companies PatientMPower.com, 8West.ie, WebDoctor.ie



c. 200 Overseas IT Companies: 36,000 Jobs

Why Ireland? State Perspective

Collaboration. A set of Connected Kinetic Vectors make Ireland the ideal location for the Digital Wellness Innovation Institute.

Ireland is **Europe's Tech Gateway**, all the major Life Sciences companies have picked Ireland, all the major Software companies have picked Ireland.

Open for Business;

Ireland Attracts the best Talent in the World

- EU Citizens can easily move to Ireland and work with no restrictions
- 1st in the World for a national culture that is open to foreign ideas
- Ireland is ranked first in the EU for availability of skilled workers capable of filling technology roles
- Access to EU labour pool of over 240 million people
- + No Labour Restrictions

- Non EU Citizens
- Critical Skills Employment Permit 'Green Card' System in place for skilled personnel
- Technology professionals are catered for e.g. removal of labour market needs test, immediate family reunification and fast track to residency
- IDA client companies benefit from a range of fast track support for Employment Permits/Green Cards

Inter-Connected approach;



Co-located Research hubs;

World class research



Ireland is Open and Inter-Connected

Digitise or Disappear

Data is the New Currency

Covid-19 changed our world and Accelerated Digitisation is a reality

