

Technology and the Paradigm Shift of Care Impact on the Workforce

Can technology reduce the need for health workers ??





Prof. Health Management, IESE Business School
EIP AHA B3 AA3 Integrated Care Workforce
EIT Health Core Partner



VIDEOS FORTUNE 500



Technology will replace 80% of what doctors do DECEMBER 4, 2012

This McDonald's Billboard Reports the Weather Using Whipped Cream 5:38 PM EST

Your 'Certified Organic' Marijuana Doesn't Actually Have to Be Organic 5:24 PM EST

France Wants People to Ignore Email After They've Left the Office 5:17 PM EST

New technologies will make the receptive doctors better at their jobs quicker, more accurate, and more fact-There is a tremendous opportunity in the influx of data that has never before been available. Once we have a large enough dataset, and an addressable database of research studies, we'll be able to identify patterns and physiological interactions in ways that weren't possible before.

This Women's Group Wants Sponsors to Cut Ties With Peyton Manning 5:14 PM EST

This Major Hedge Fund Is Cutting Jobs 5:13 PM EST

Technology will replace 80% of what doctors do

by Vinod Khosla

DECEMBER 4, 2012, 2:26 PM EST



Data-driven healthcare won't replace physicians entirely, but it will help those receptive to technology perform their jobs better.



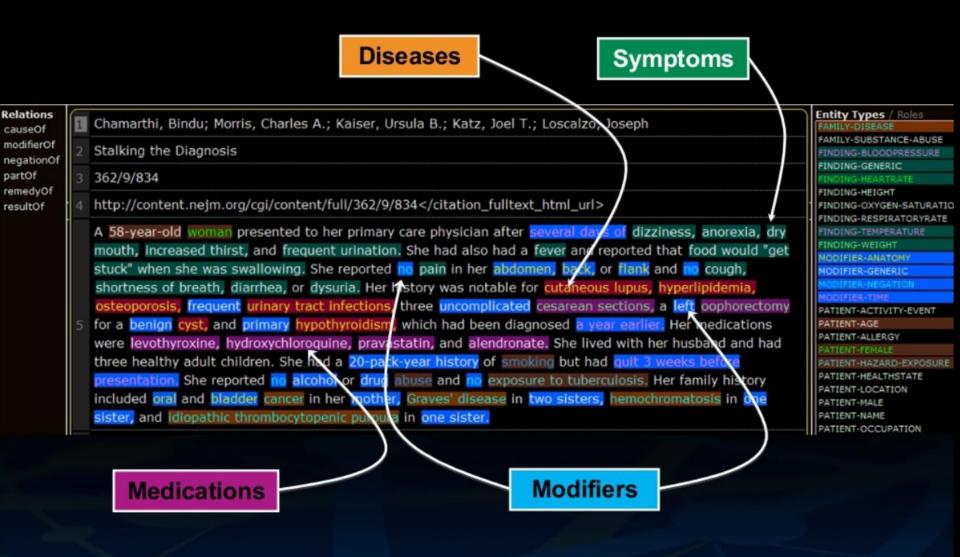
FORTUNE -

Healthcare today is often really the "practice of medicine" rather than the "science of medicine."

Take fever as an example. For 150 years, doctors have

No brilliant diagnostician with bad manners, a la "Dr. House," will be needed in direct patient contact. Instead, we'll use "Dr. Algorithm" to provide the diagnosis, while the most humane humans provide the care.

Medical journal concept annotations





The Impact of Technology

Opportunities to transform the HC system?

Kaiser Permanente

- better coordination → fewer expensive specialists
- EHR 25 % reduction in office visits

Geisinger:

Team & IT 1 GP /2.000 →2,5-5.000 population

Bask Health Reform

- 17,000 fewer hospital admissions
- 20% PHC made by telephone (25% self-appointed)
- COPD 32% lower hospitalisation, 81% satisfaction

General

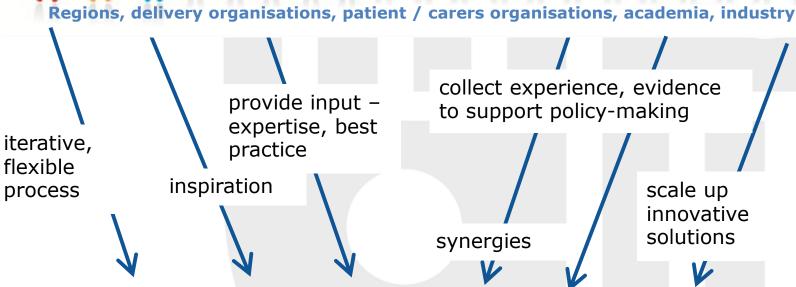
- imaging ↓ exploratory surgery
- stents and angioplasty
 ↓ bypass surgeries

Source: Various



B3 Integrated Care Collaborative





+2 HEALTHY LIFE YEARS by 2020 A triple win for Europe

EIP AHA B3 Action Plan

Increase the average number of healthy life yrs by 2 in the EU by 2020

Health status and quality of life | Supporting the long term sustainability and efficiency of health and social systems | Enhancing competitiveness of EU industry

Chronic Conditions

By 2015

Chronic Conditions' Programmes available at least 10% of target population in at least 50 regions



Integrated Care

By 2015 - 2020

Integrated Care Programmes serving older people, supported by innovative tools and services, in at least 20 regions

Implementation and Scale Up of Chronic Care + Integrated Care Programmes

Action Area ICT Tools

Action Area

Dissemination

Action Area



Organisational Models

Map of partnership models for implementation of Chronic and **Integrated Care** Programme

Toolkit

Action Area



Change **Management**

Map of best practice methodologies to support the implementation of Chronic and **Integrated Care**

Toolkit

Action Area



Workforce **Development**

Map of reusable learning resources

Toolkit

Action Area



Risk Stratification

Stratification of the population

Toolkit

Action Area



Care Pathways

Mapping Best Practices in the EU regions

Action Area



Patient / User **Empowerment**

Map of coaching. education and support patient/user empowerment and adherence

Toolkit

Toolkit

2013

Monitoring impact and outcomes

2015

B3 Action Group since 2012...

The B3 Action Group (B3) was established to develop as a response for Integrated care to the challenges set by the Strategic Implementation Plan (SIP) of the EIP on AHA:

The overall objective of the B3 is to:

"Reduce avoidable/unnecessary hospitalisation of older people with chronic conditions, through the effective implementation of integrated care programmes ad chronic disease management models that should ultimately contribute to the improved efficiency of health systems"



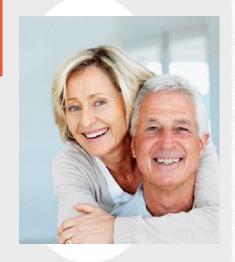
B3 Action Group since 2012...

- B3 Co-ordination Group was set up in 2012 to oversee the development and implementation of B3 Action Plan;
- 9 Action Areas were established within the B3 group to deliver tangible deliverables and outcomes;
- A collaborative governance model was adopted;
- 450 participants representing 141 commitments received on behalf of regions, sub-national administrations, delivery organisations, patient/user and carer organisations, academic institutions and industry and member organisations.









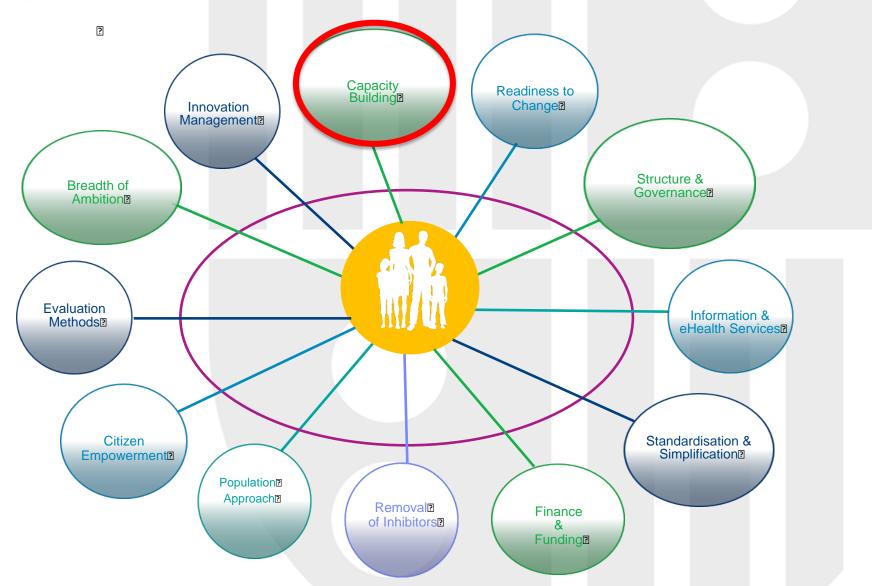
B3 Action Group on Integrated Care AA3 Workforce

Good practices related to Workforce Development, Education and Training offer replicable training programmes, and show how a skilled health workforce can answer to the challenges.





B3 Maturity Model



Technology to Care Initiative (UK)

www.technologytocare.org.uk



Developed new knowledge and skill sets for social care workers (+workforce strategy)



... recognition of 'distinct areas' that needed to be addressed 'regardless of traditional service boundaries'



Confidence in Technology (KS1)



- Rights and values (KS2)
 - Sourcing Technologies (KS3)
- Assessment and Review (KS4)
- Safe Installation, Maintenance and Disposal (KS5)
- Remote or Virtual Monitoring & Response Systems (KS6)



B3 Good Practices

- Product of the unique collaborative work of the B3 members to map existing initiatives relevant to the delivery of integrated health and social care.
- The mapping exercise was not meant to select or validate a limited number of practices.
- Over 100 good practices collected throughout 2013-2014 demonstrating that integrated care practices have potential to improve the quality and sustainability of services.
- http://ec.europa.eu/research/innovation-union/pdf/active-healthyageing/gp b3.pdf#view=fit&pagemode=none



EIP AHA Good Practices related to Workforce Skills (15)



 101 School of Diabetes - Courses for Health Professionals APDP -Diabetes Portugal

123 FOCUSS Bio-Med Aragón

135 **OPIMEC** - Observatory of Innovative Practices for Complex Chronic Disease Management Andalusian School of Public Health

 143 Population Intervention Plans PIP's Department of Health of the Basque Country

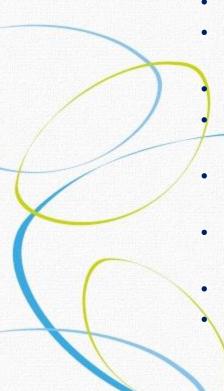
• 147 **PROMIC** - Congestive heart failure Department of Health of the Basque Country

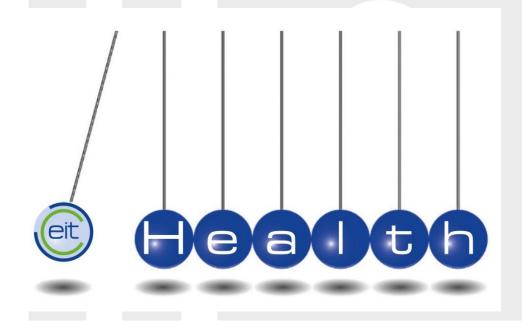
• 155 **TELBIL** Department of Health of the Basque Country

163 **Building Capacity and Competency** for Staff Using Telehealthcare Education and Training Strategy Scottish Centre for Telehealth and Telecare, NHS 24

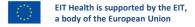
169 Everyone Matters: 2020 Workforce Vision for healthcare in Scotland Scottish Government - Health and Social Care Directorates

 189 Supporting an Integrated Telehealth and Telecare Learning Network NHS 24, Scottish Centre for Telehealth and Telecare



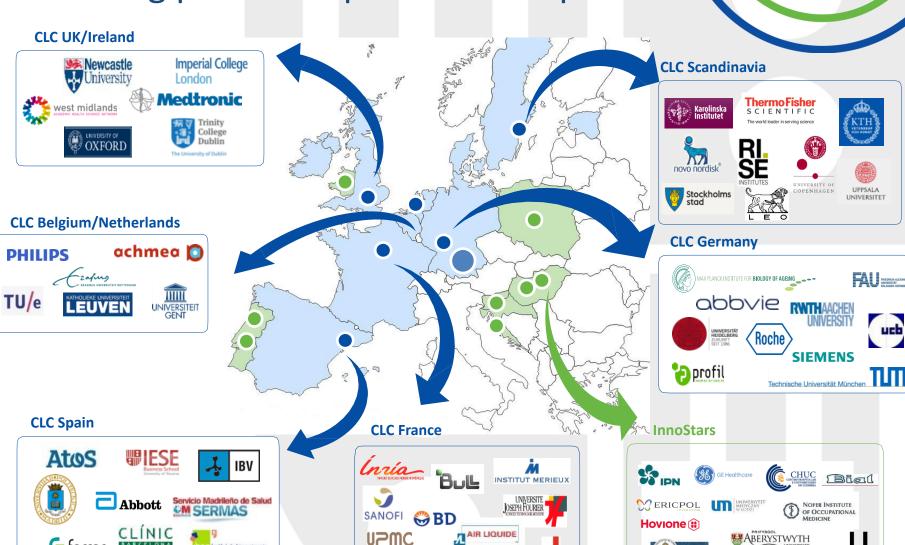


EIT Health:
a powerful alliance for
healthy living and active ageing



A strong partnership across Europe

B Universitat de Barcelona



cea

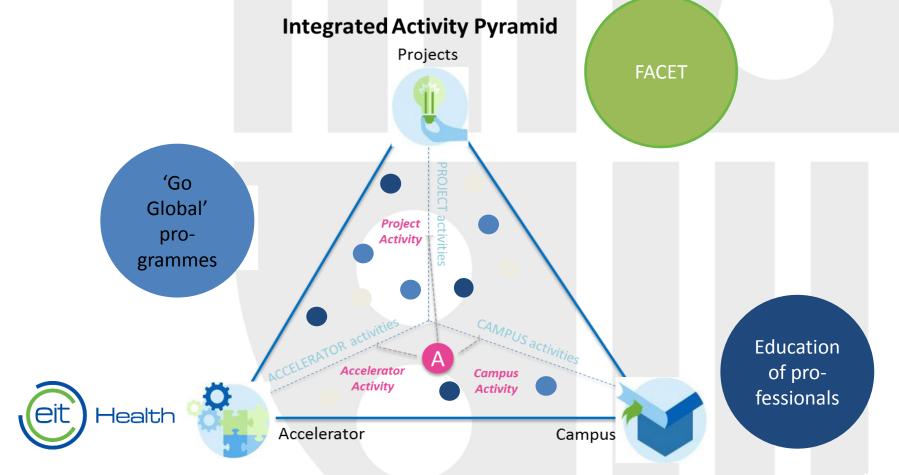
LISBOA

15

LISBOA NORTE, EPE UNIVERSIDADE DE COIMBRA

Integrating innovation, education and entrepreneurship





Focus areas support citizens' desire for an active and self-determined life, even at old age

Promote Healthy Living

Self-management of health

Lifestyle intervention

Motivate active personal lifestyles

Metabolic Health

Support Active Ageing

Workplace interventions

Overcoming functional loss

Ageing with a Healthy Brain

Mobility and independence throughout Life

Improve Healthcare

Improving healthcare systems

Treating and managing chronic diseases

Personalised Oncology and Integrated Cancer Care

Sustainable Continuum of Care to Support Active Living in Europe





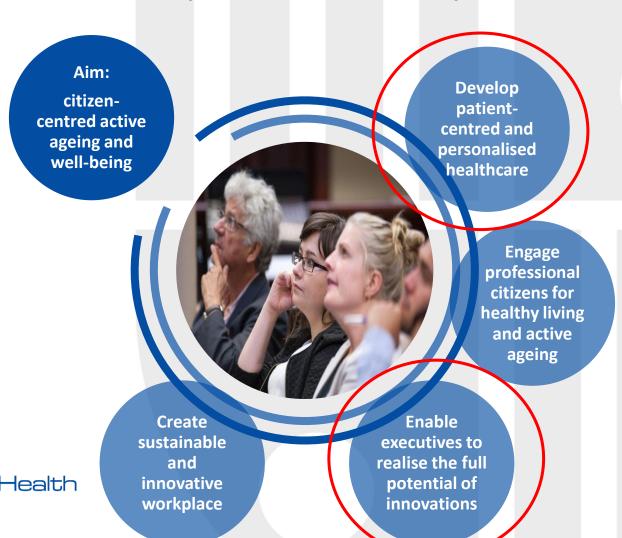
Business Objectives



Example Projects



CAMPUS: education of professionals and executives is a key education component



1st EITHealth SummerSchool - July 2015



European synergies for health









Joint Action Health Workforce Planning and Forecasting

Thank you very much for your interest!

magda@iese.edu



