EUROPEAN HEALTH PROPERTY NETWORK 2017 WORKSHOP

Torino, Italy: 20-22 November

Futureproofing Health System Infrastructure Design, technology and innovation to ensure a fit for purpose healthcare estate

The new paradigm for the Hospital/out of Hospital Integrated care:

The Robotics and Domotics Integrated Care

Luigi Bertinato

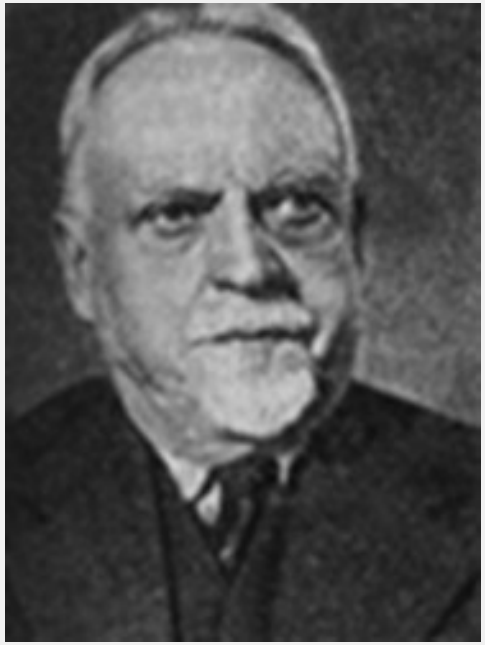
Clinical Governance Unit

The Italian National institute of Health

The founding fathers of universal coverage in Europe

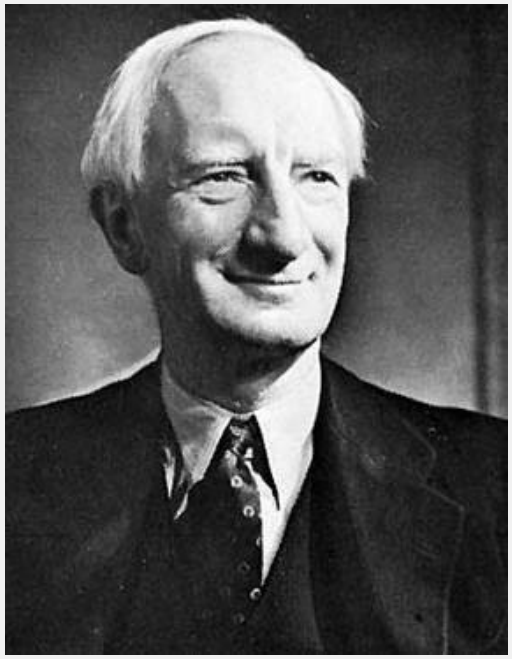
Otto von Bismarck

1815-1898



Nikolai Alexandrovich Semashko

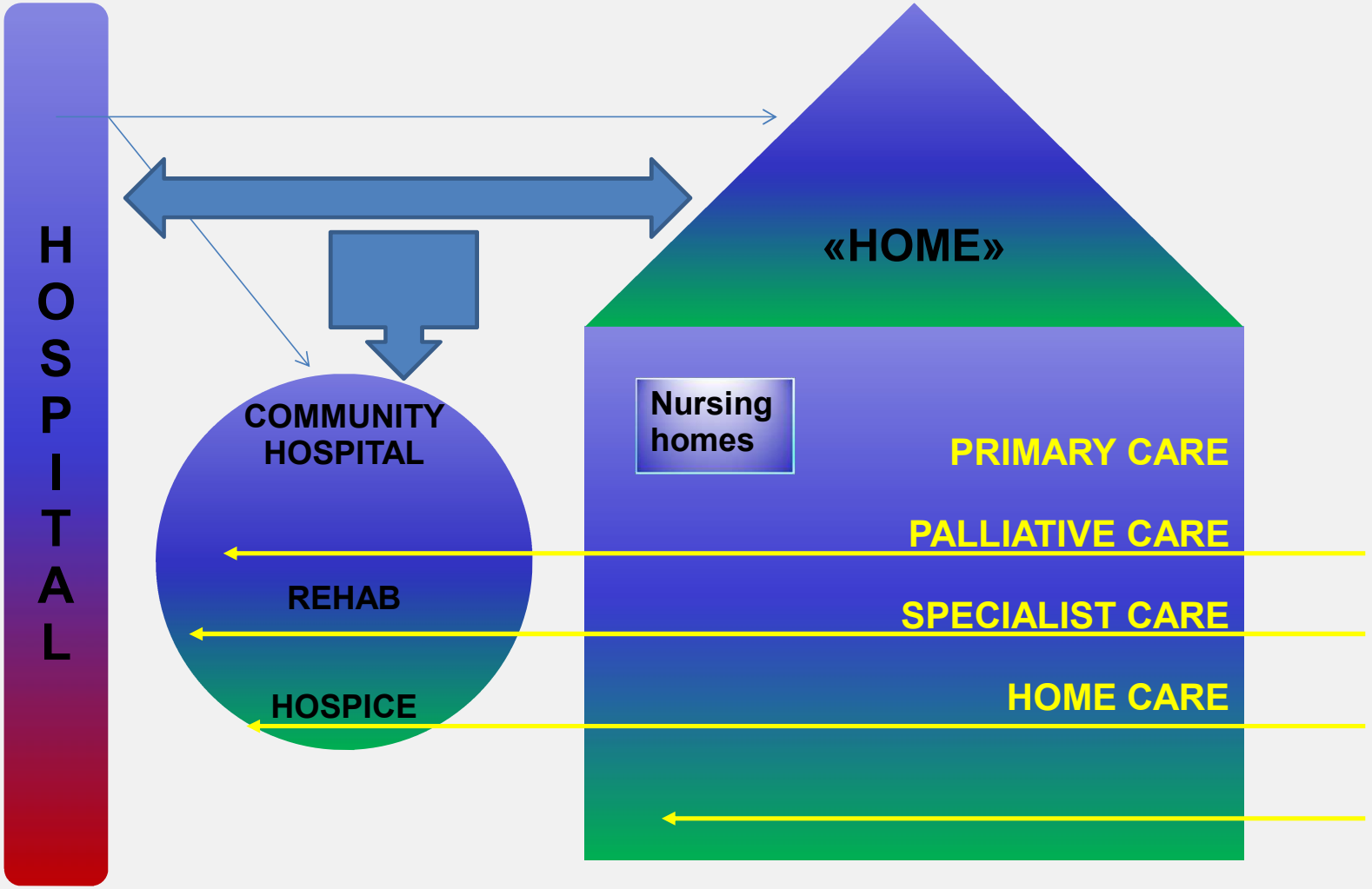
1874-1949



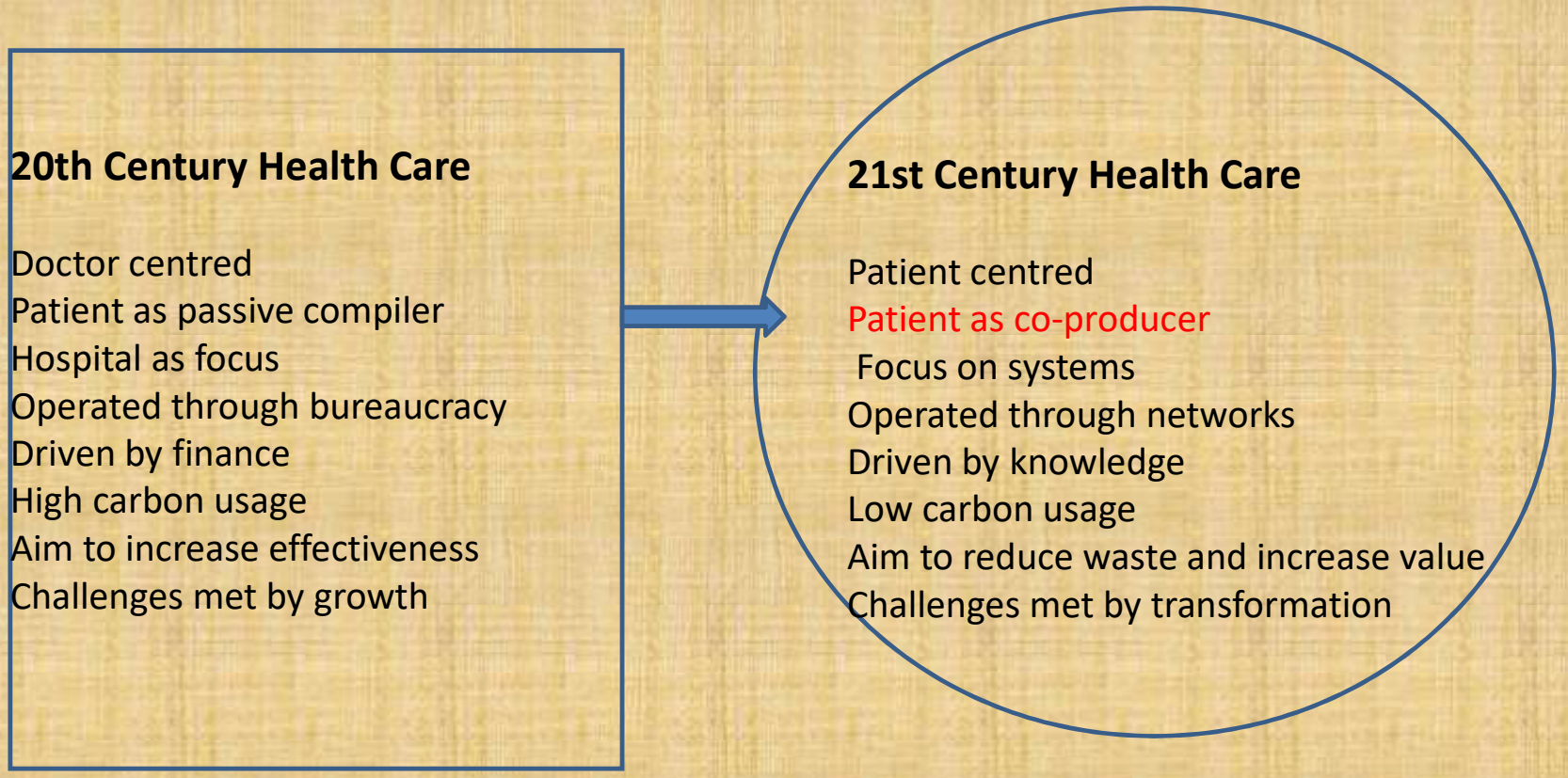
William Henry Beveridge

1879-1963

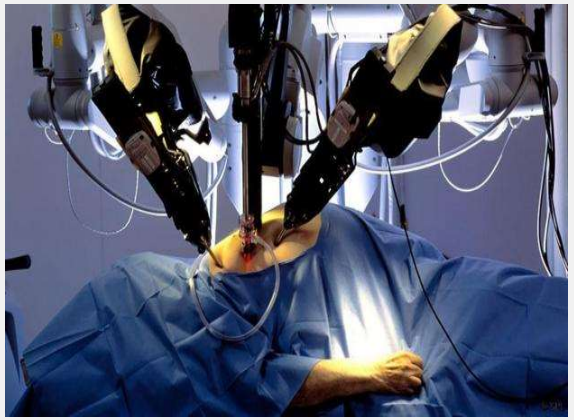
The Hospital/Out of Hospital Integrated care



TRANSFORMING HEALTH CARE



TECHNOLOGY AS A KEY ENABLER



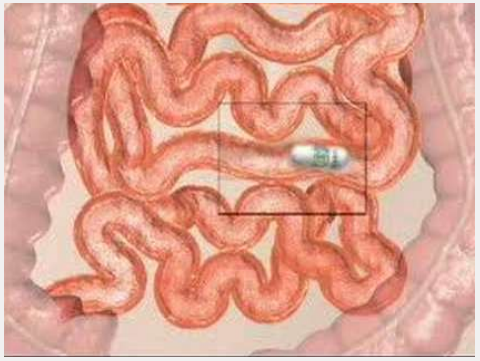
In Canada Dr. Mehran Anvari's robot works in a Community Hospital 400 km

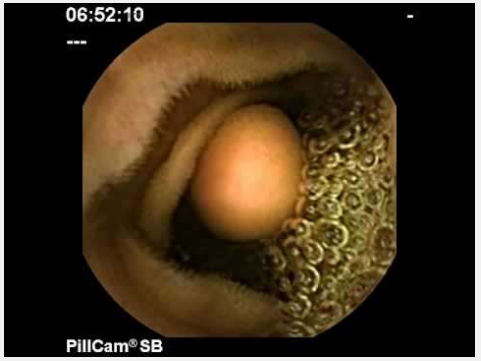
"I have both my hands on the robot the same way I would have instruments in both hands"

TECHNOLOGY AS A KEY ENABLER

Britain's first RP7 is doing the rounds at Daisy Hill Hospital in Newry, Northern Ireland, acting as its intensive care consultant

Capsule Endoscopy is an example of the increasing use of non-invasive methods and the reduction in space requirements for diagnostic equipment





Nanomedicine approaches

Drug Delivery

Organic and Inorganic Nano-materials

- **Silica & Carbon Nanoparticles**
  - Dissolve hydrophobic drugs
  - Fluorescent (Carbon) and photostable
  - Excellent hydrophilicity
  - Easy to functionalize

Biologic Nano-materials

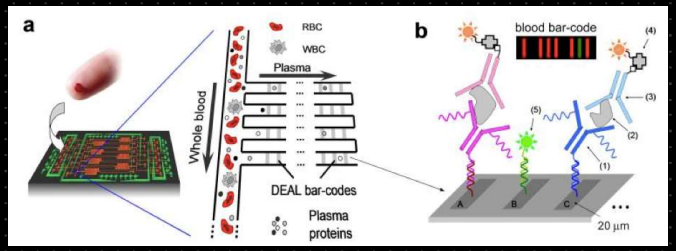
- **DNA Origami**
  - Programmable self-assembly
  - Biocompatibility
  - Low cytotoxicity

Cell Based Nano-materials

- **Exosomes**
  - Biocompatibility
  - Cellular communication
  - Natural cargo for delivery

Nanodevicies

Point of Care devicies



1. Therapeutic drug monitoring
2. Circulating biomarkers

Molteplici definizioni di Big Data

Forbes LOG IN

YOUR READING LIST

12 Big Data Definitions: What's Yours?

Tech

SEP 3, 2014 @ 08:01 AM 95,848

12 Big Data Definitions: What's Yours?

Gil Press, CONTRIBUTOR

I write about technology, entrepreneurs and innovation. FULL BIO

Opinions expressed by Forbes Contributors are their own.

Dan Ariely

Professor of Psychologie,
Duke University USA

January 6, 2013 at 6:17pm ·

Big data is like teenage sex: everyone talks about it, nobody really knows how to do it, everyone thinks everyone else is doing it, so everyone claims they are doing it...

Like Comment Share

Every 60 seconds

1.820 TB data worldwide

=

530.803.000.000

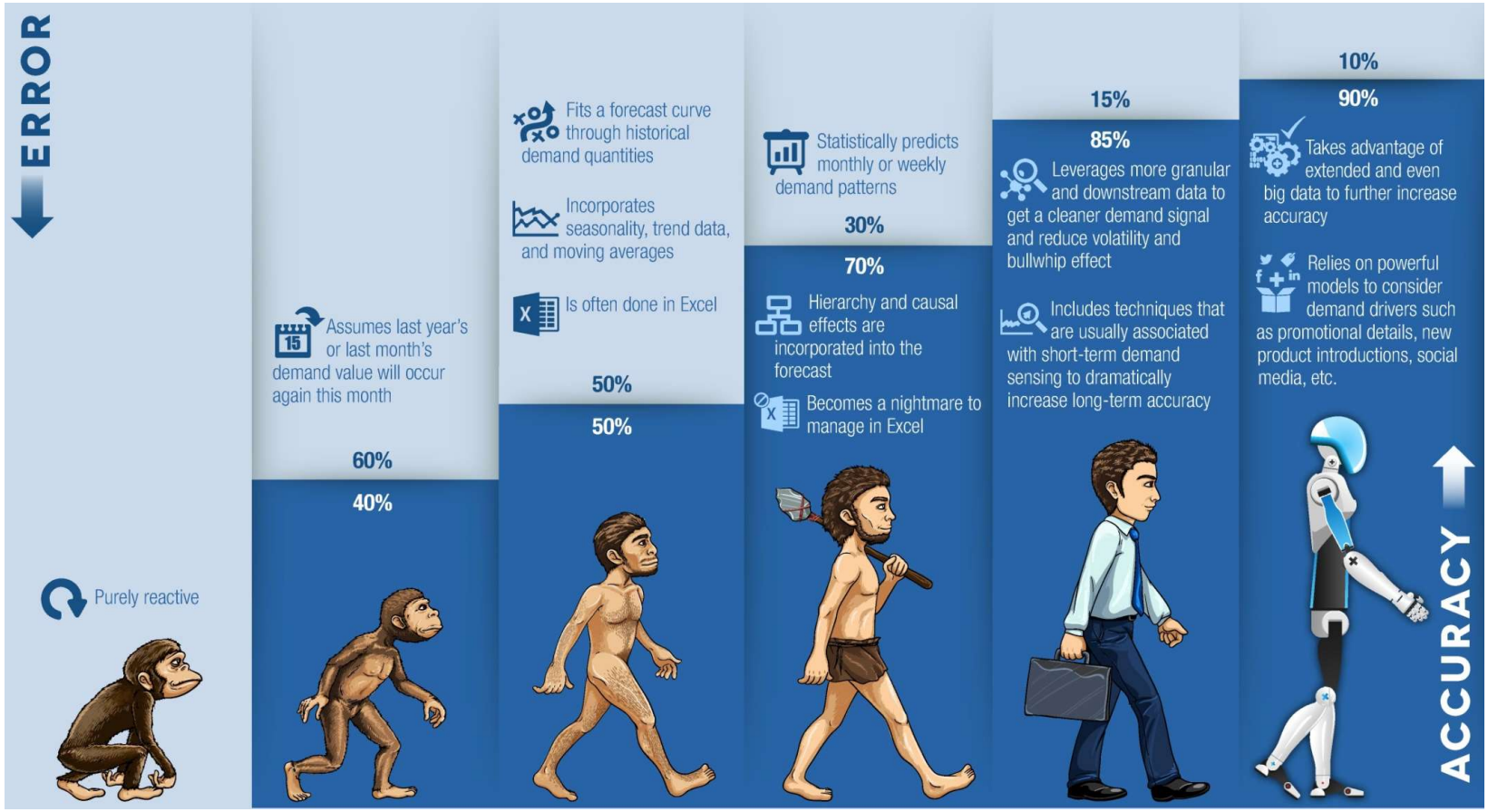
paper docs

Is There A Doctor In My Pocket?

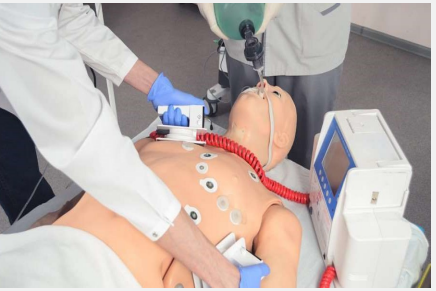
Advances in medical technology can be painfully slow. But, there are signs that a digital revolution in health care is imminent. It will be more personalised, and potentially more useful, than anything the world has seen before. It promises to help us manage our health and inform us about the risks ahead. We are on the verge of such a transformation in health care that will render visiting the doctor a thing of the past

Robot vs Patient

Robot vs Doctor



The new Paradigm:
The Robotics and Domotics Integrated Care



HOSPITAL

COMMUNITY HOSPITAL

REHAB

HOSPICE

«HOME»

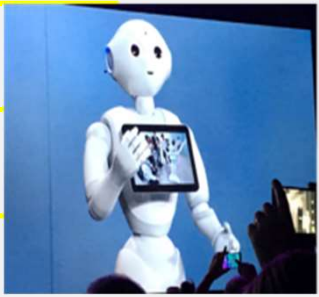
Nursing homes

PRIMARY CARE

PALLIATIVE CARE

SPECIALIST CARE

HOME CARE

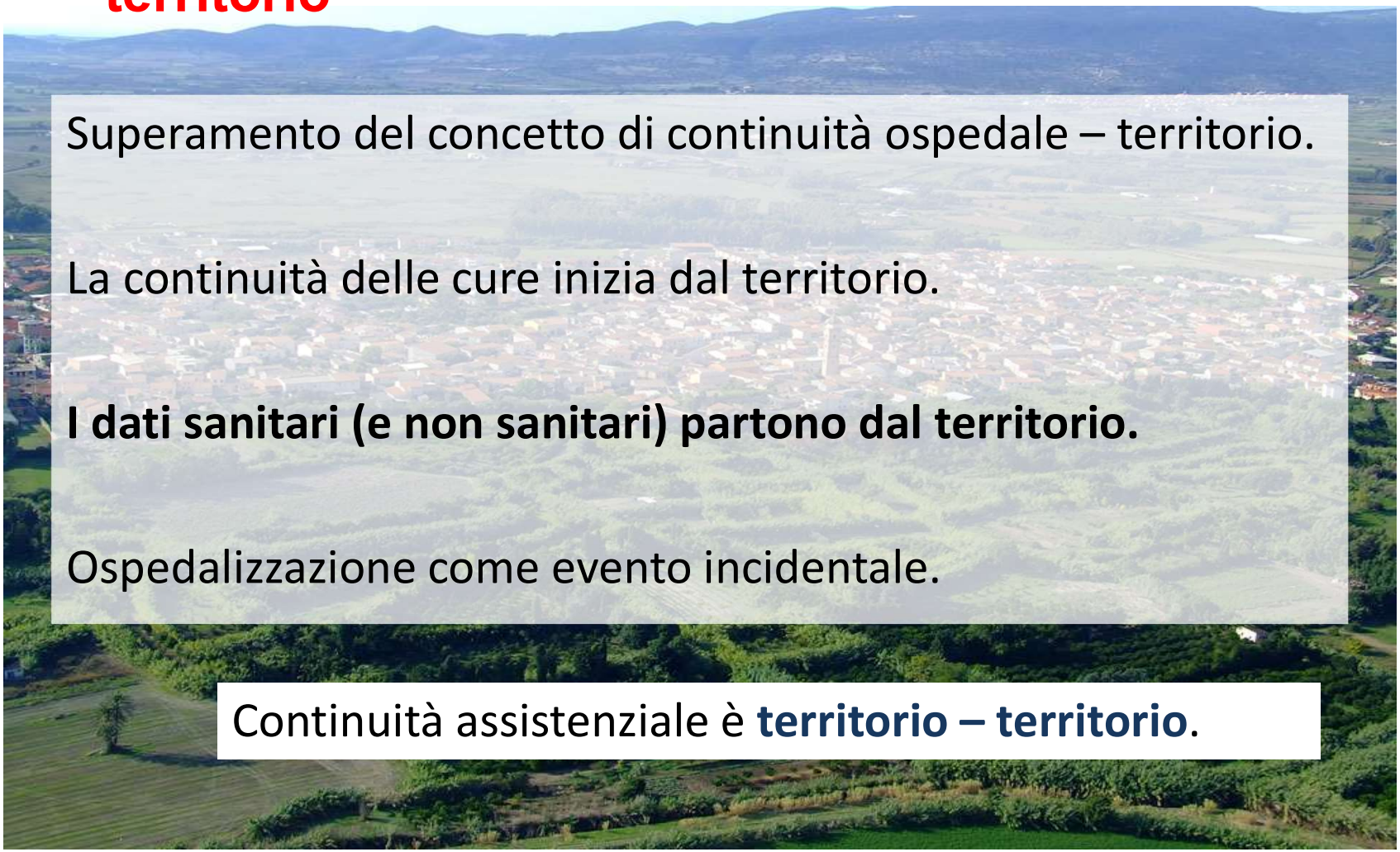


The founding fathers of the new universal coverage in Europe today !

Thank you for your attention !

luigi.bertinato@iss.it

Le continuità territorio – (ospedale) - territorio



Superamento del concetto di continuità ospedale – territorio.

La continuità delle cure inizia dal territorio.

I dati sanitari (e non sanitari) partono dal territorio.

Ospedalizzazione come evento incidentale.

Continuità assistenziale è **territorio – territorio**.