

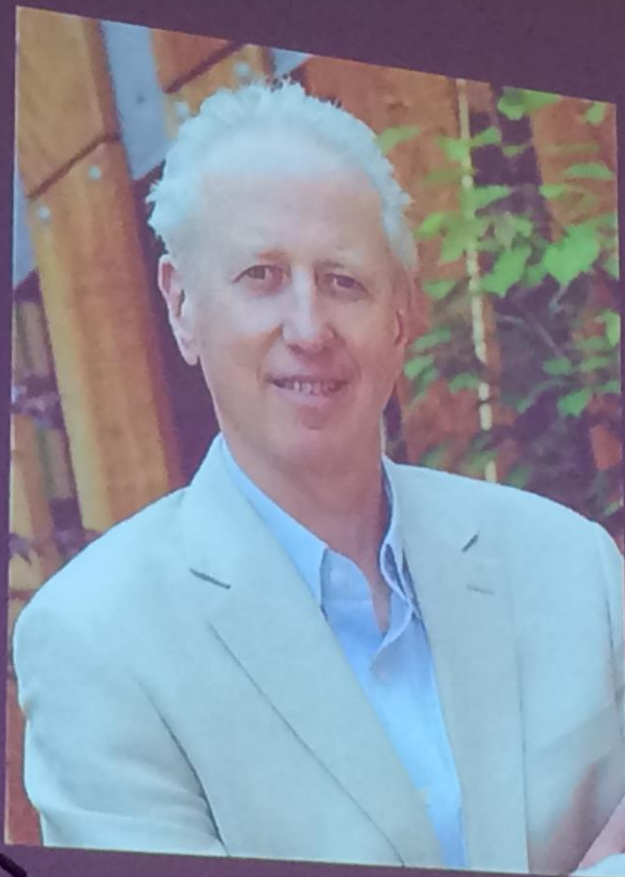
Can we avoid the perfect storm?

Prof. Walter Ricciardi

**President
Italian National Institute of Health**

Agenda

- The changing health landscape
- A perfect storm?
- Possible actions
- Biobanking promises opportunities and challenges
- Final remarks



“other forms of research such as basic science and drug discovery are prestigious while health systems research is seen as fluffy, pedestrian, and applied.”

Andy Haines



**Health systems
problems are
political**

**Answers are slow to
arrive and uncertain**

**Generalisations can
be difficult**

**The right questions
not being asked**

Indifference

Lack of funding



 **OSLO
HTAI
2015**
12th Annual Meeting

Fully revised and updated for the third edition, the *Oxford Handbook of Public Health Practice* remains the first resort for all those working in this broad field. Structured to assist with practical tasks and translating evidence into policy, this handbook provides concise summaries and includes real-world issues from across the globe, which literally provides a world of experience at your fingertips.

Easy-to-use, concise and practical, it is structured into seven parts that focus on the vital areas of assessment, data and information, direct action, policy, health-care systems, personal effectiveness and organisational development. Reflecting recent advances, the most promising developments in practical public health are presented, as well as maintaining essential summaries of core disciplines. This handbook will assist students and practitioners around the world, for improved management of disasters, epidemics, health behaviour, acute

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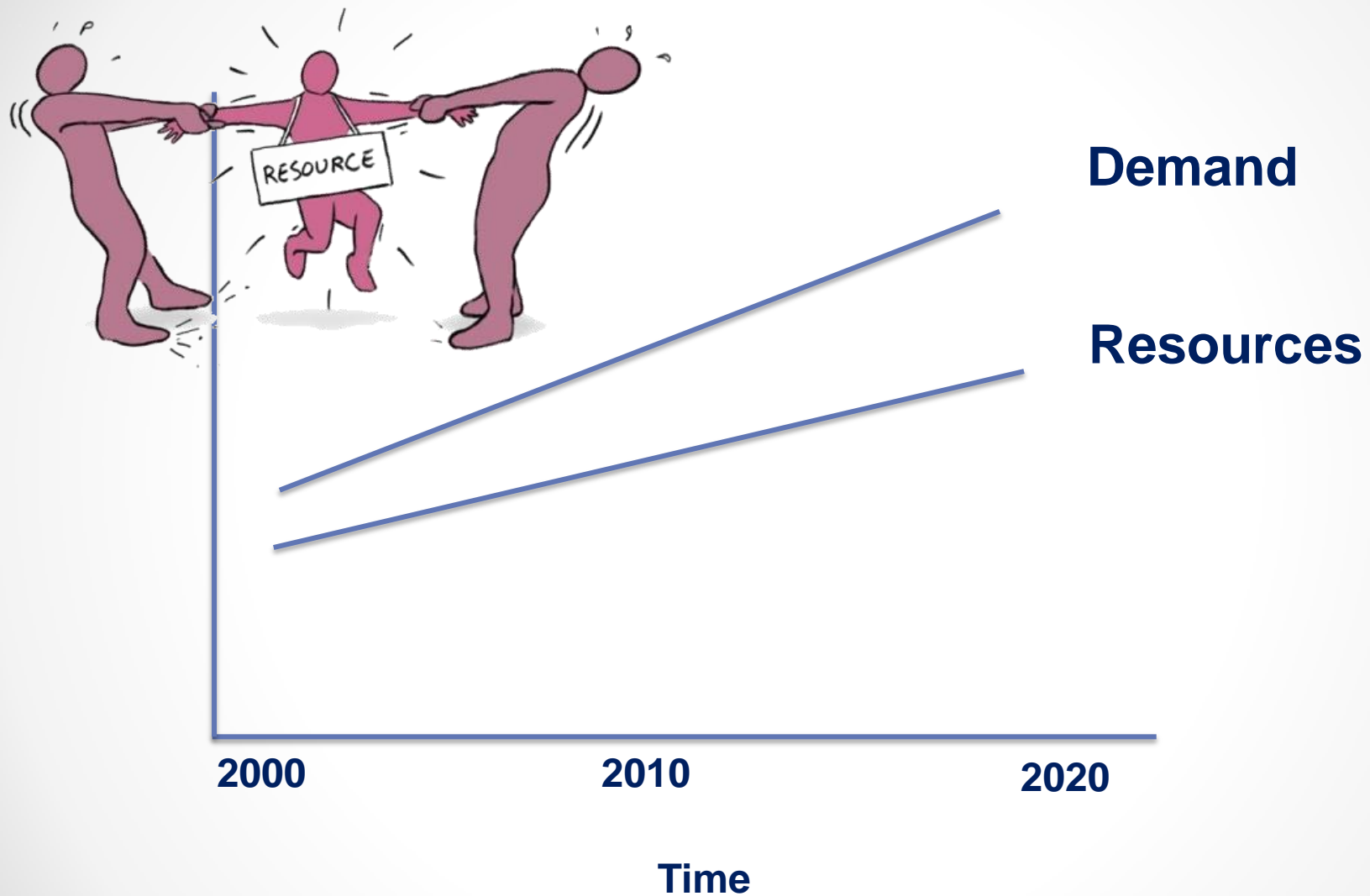
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The unthinkable



Financial constraints



Source: Gray M., Ricciardi W. Better value health care, 2008

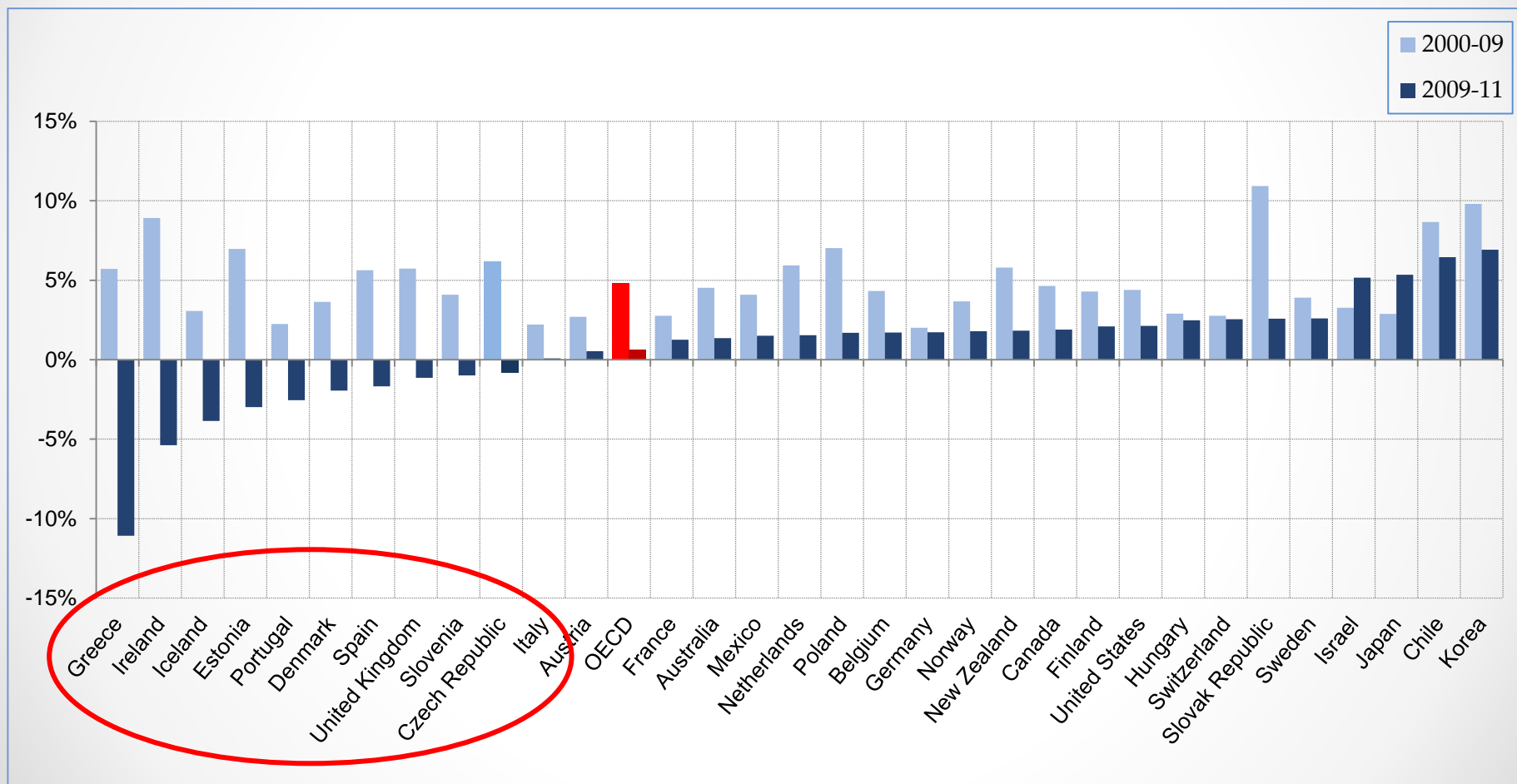
Financial constraints



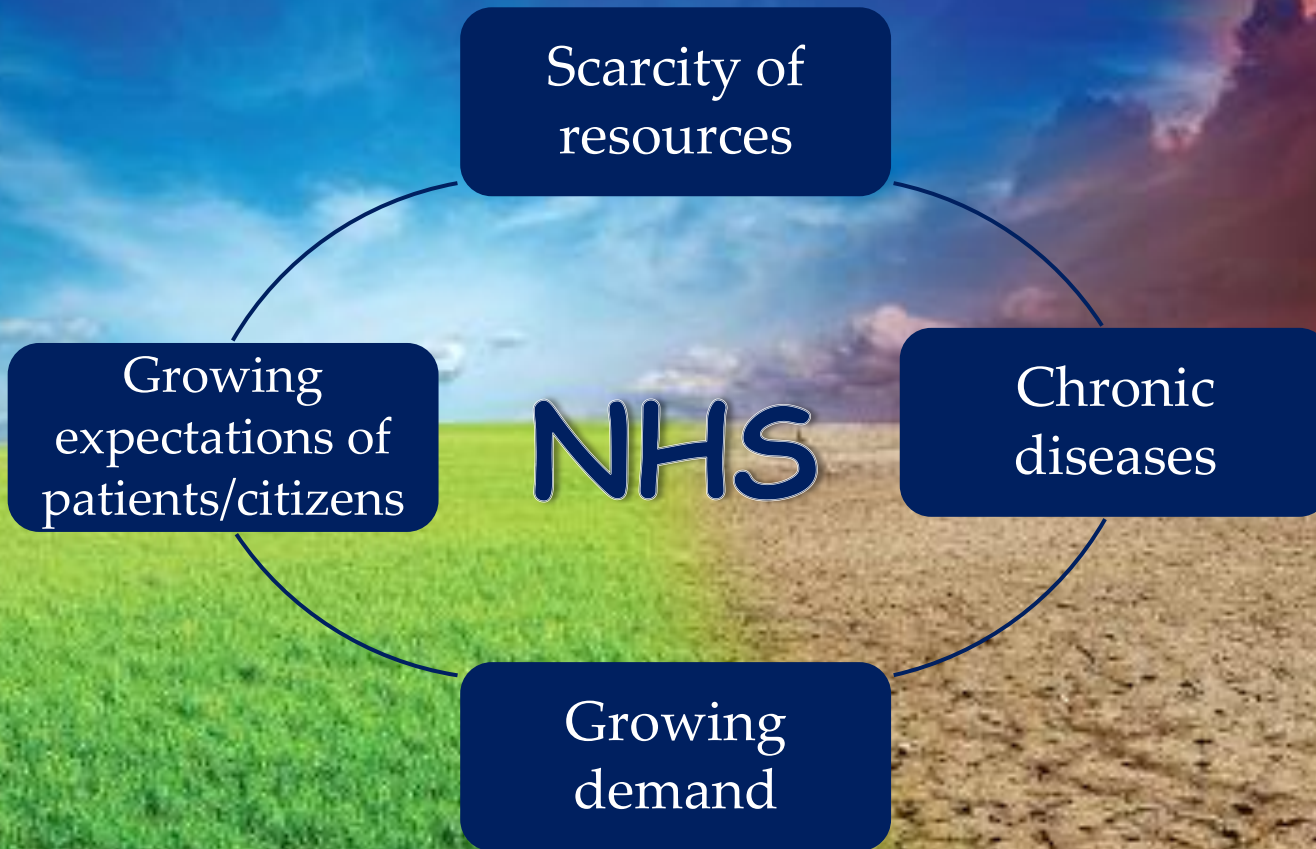


Health spending

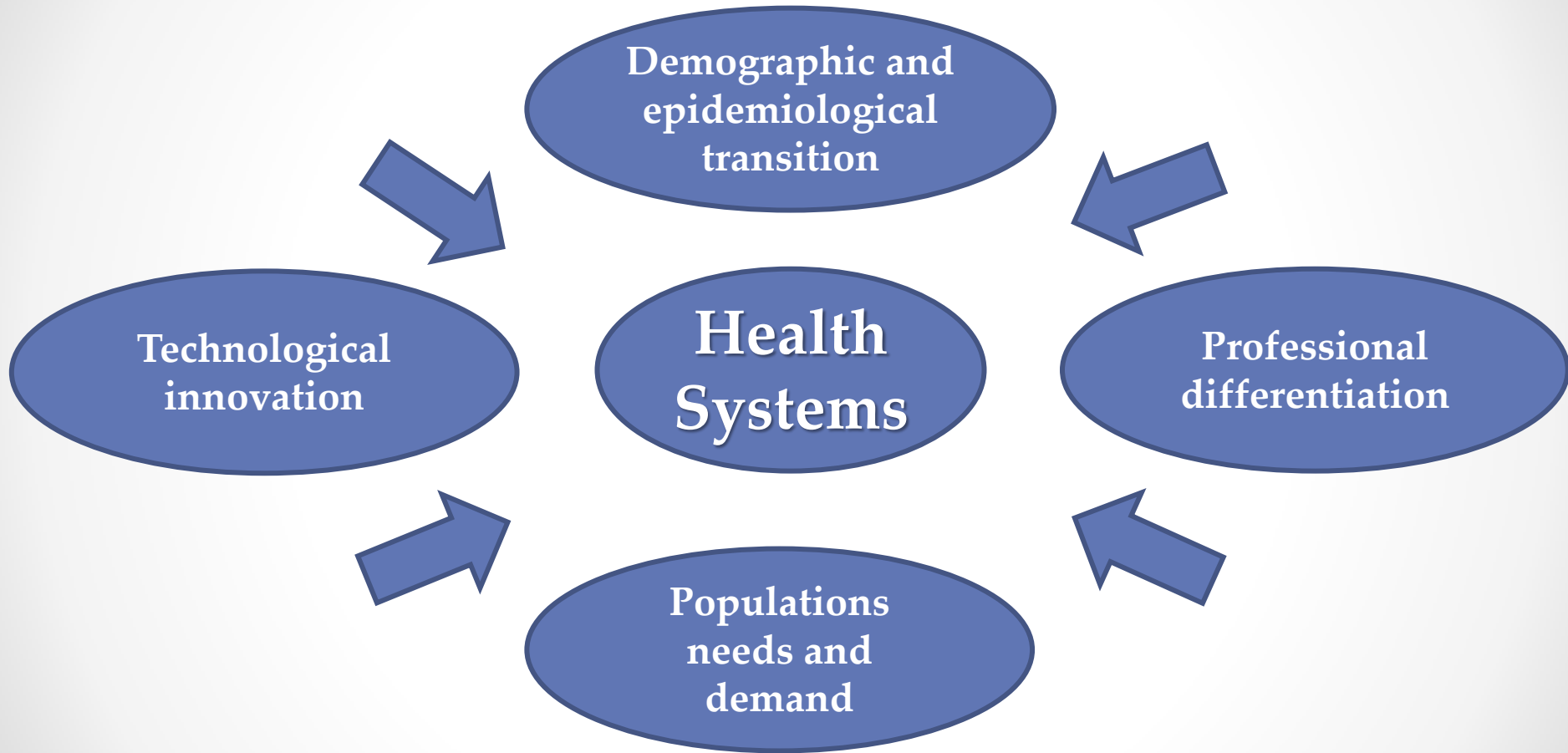
Average annual growth in health spending in real terms



The changing health landscape



The waves of demand and supply

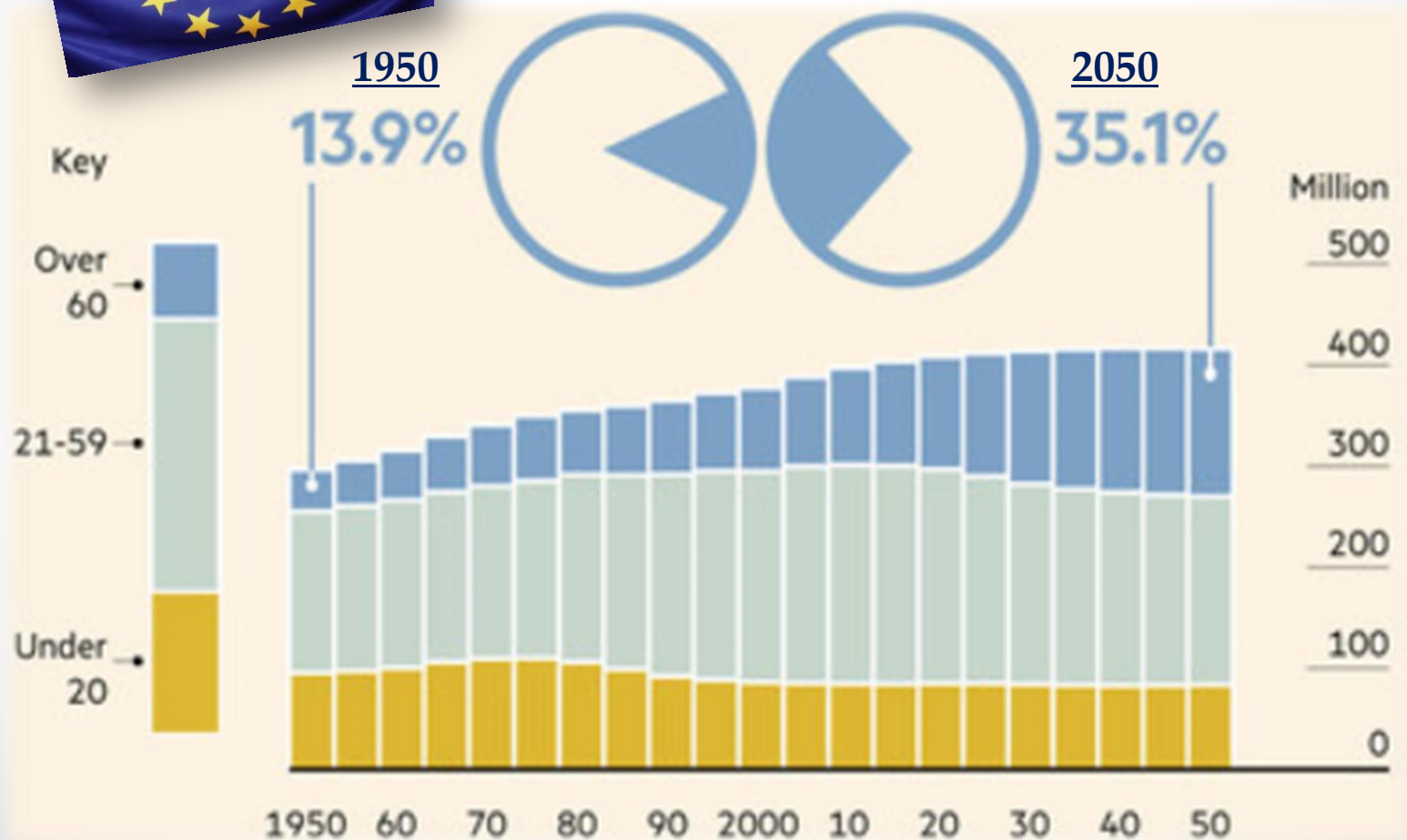


Demand

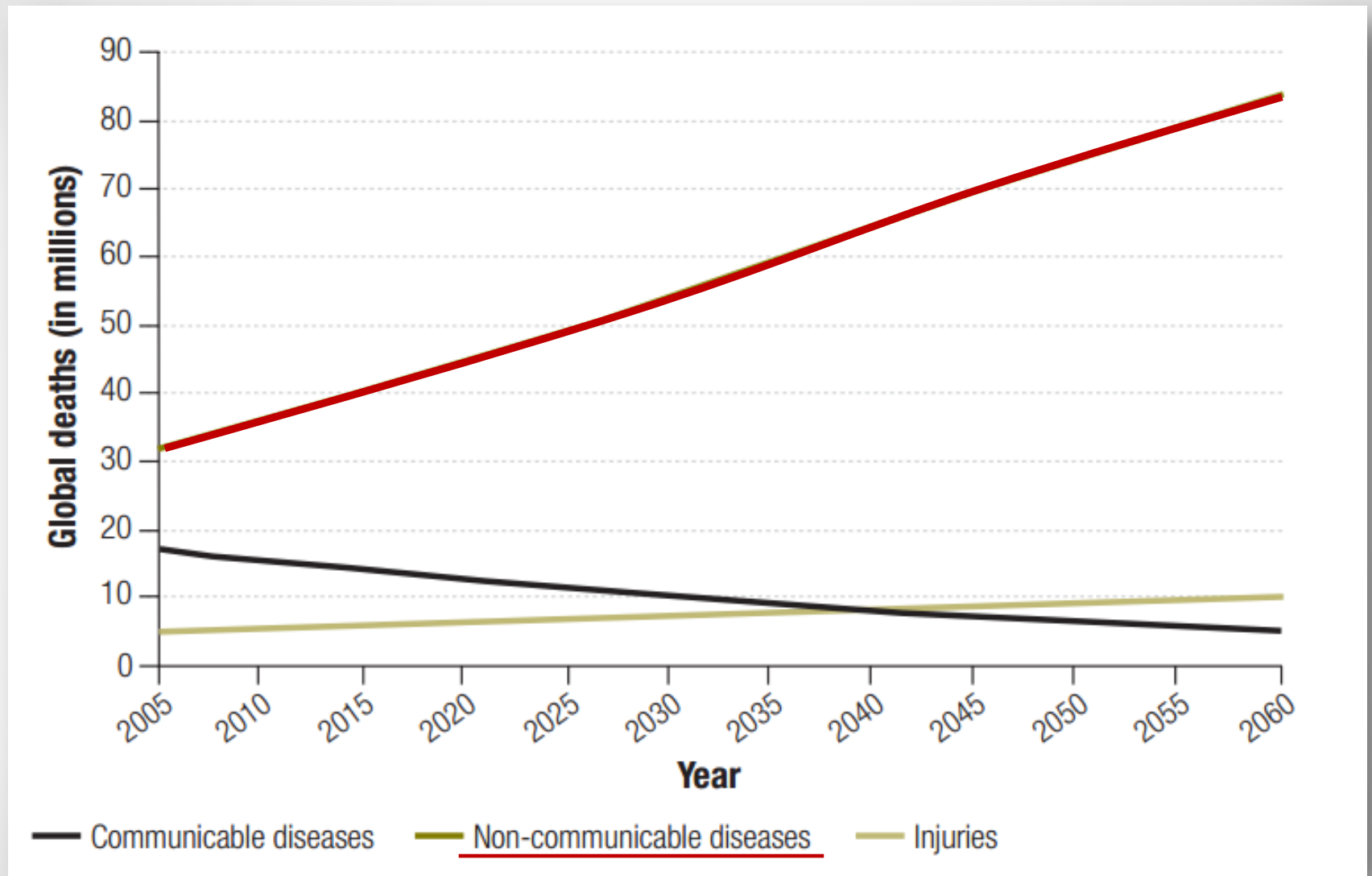
DEMOGRAPHY: By 2050 over 1/3 of EU population will be over 60 years old (UN)



% of EU population aged +60

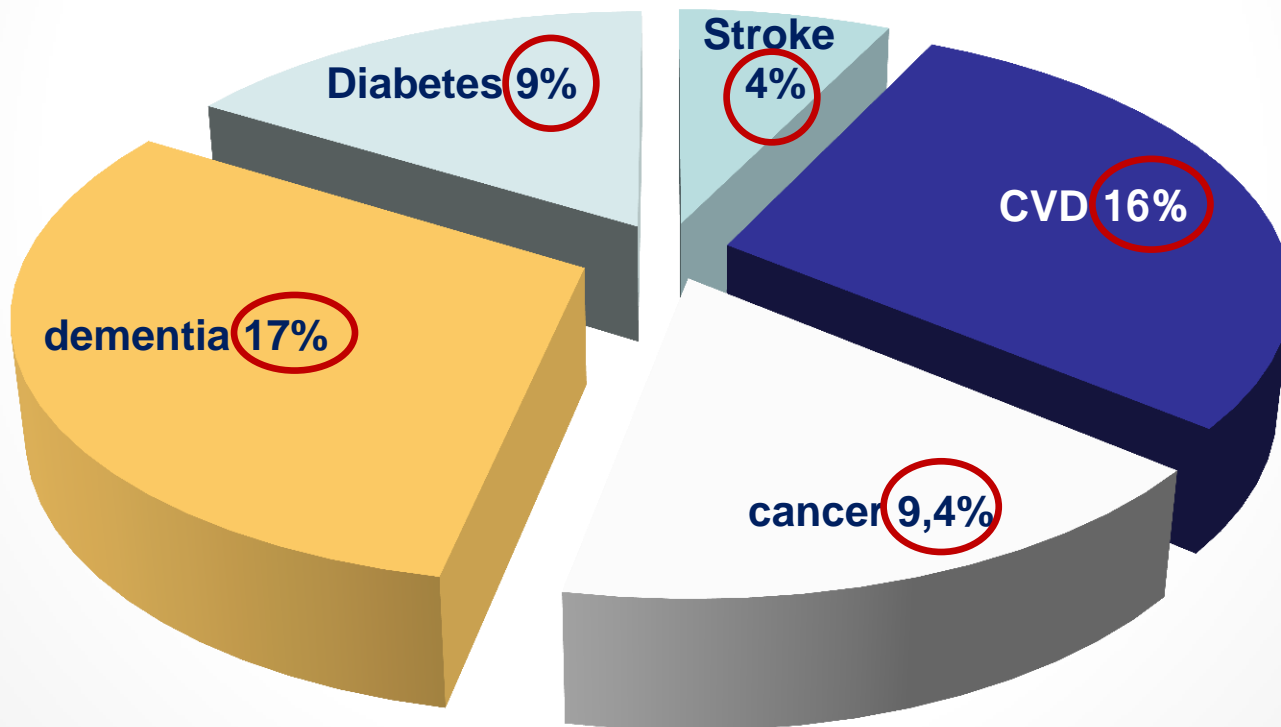


Chronic diseases



Chronic conditions and economic burden

It has been estimated that the commonest chronic conditions are costing the EU countries more than 1 trillion Euros per year, which is expected to increase to 6 trillion Euros by the middle of the century. In UK the cost of chronic conditions such as stroke, heart diseases, diabetes, cancer and dementia pile up to over 50% of total healthcare expenditure.



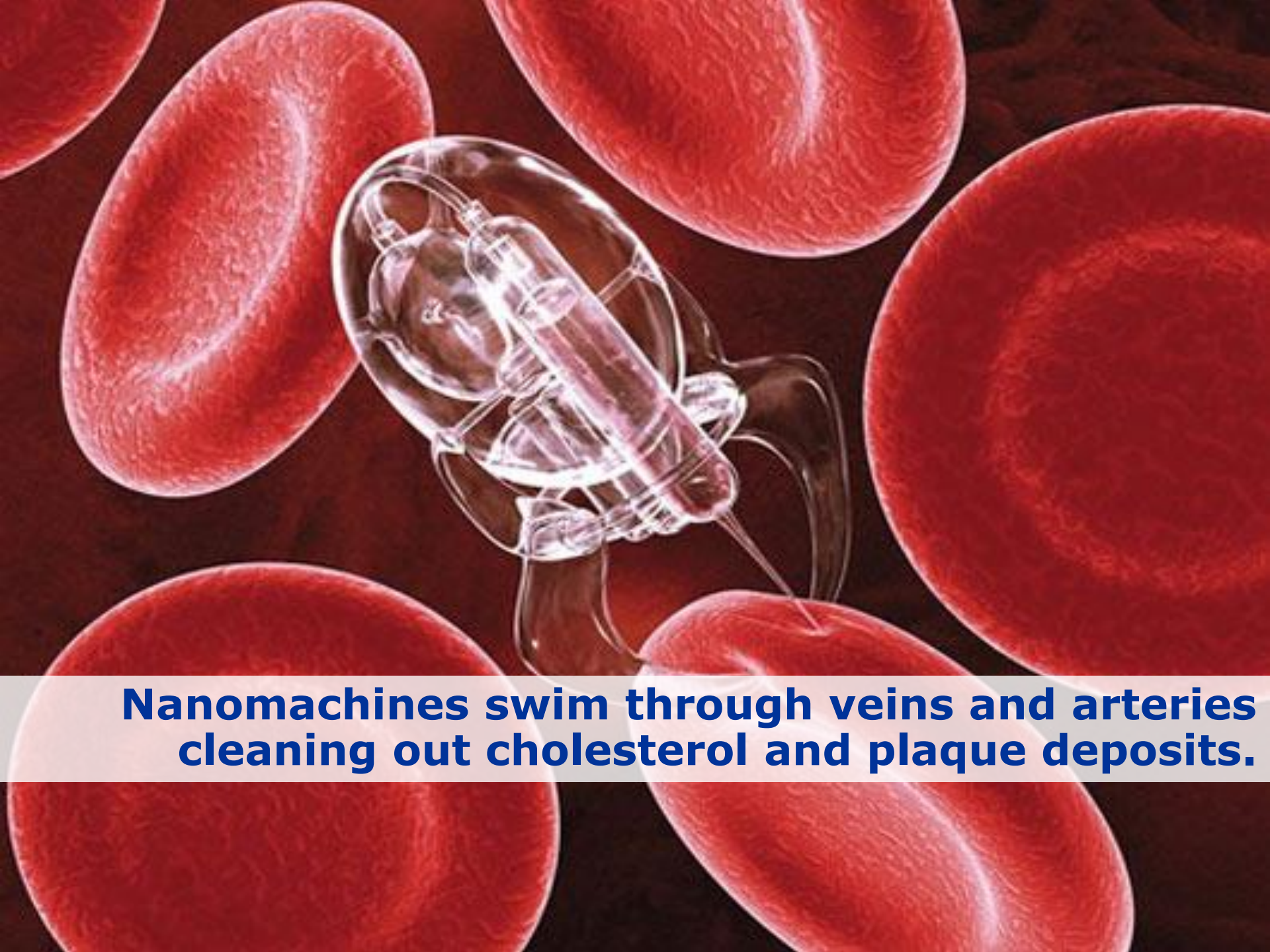
No country can afford this

Technological supply

Doctors' views: greatest innovations of the second healthcare revolution

- MRI and CT scanning
- ACE inhibitors
- Balloon angioplasty
- Statins
- Mammography
- Coronary artery bypass graft surgery
- Proton pump inhibitors and H2 blockers
- SSRIs and recent non-SSRI antidepressants
- Cataract extraction and lens implants
- Hip and knee replacement
- Ultrasonography
- Gastrointestinal endoscopy
- Inhaled steroids for asthma
- Laparoscopic surgery
- Non steroidal anti-inflammatory drugs
- Cardiac enzymes

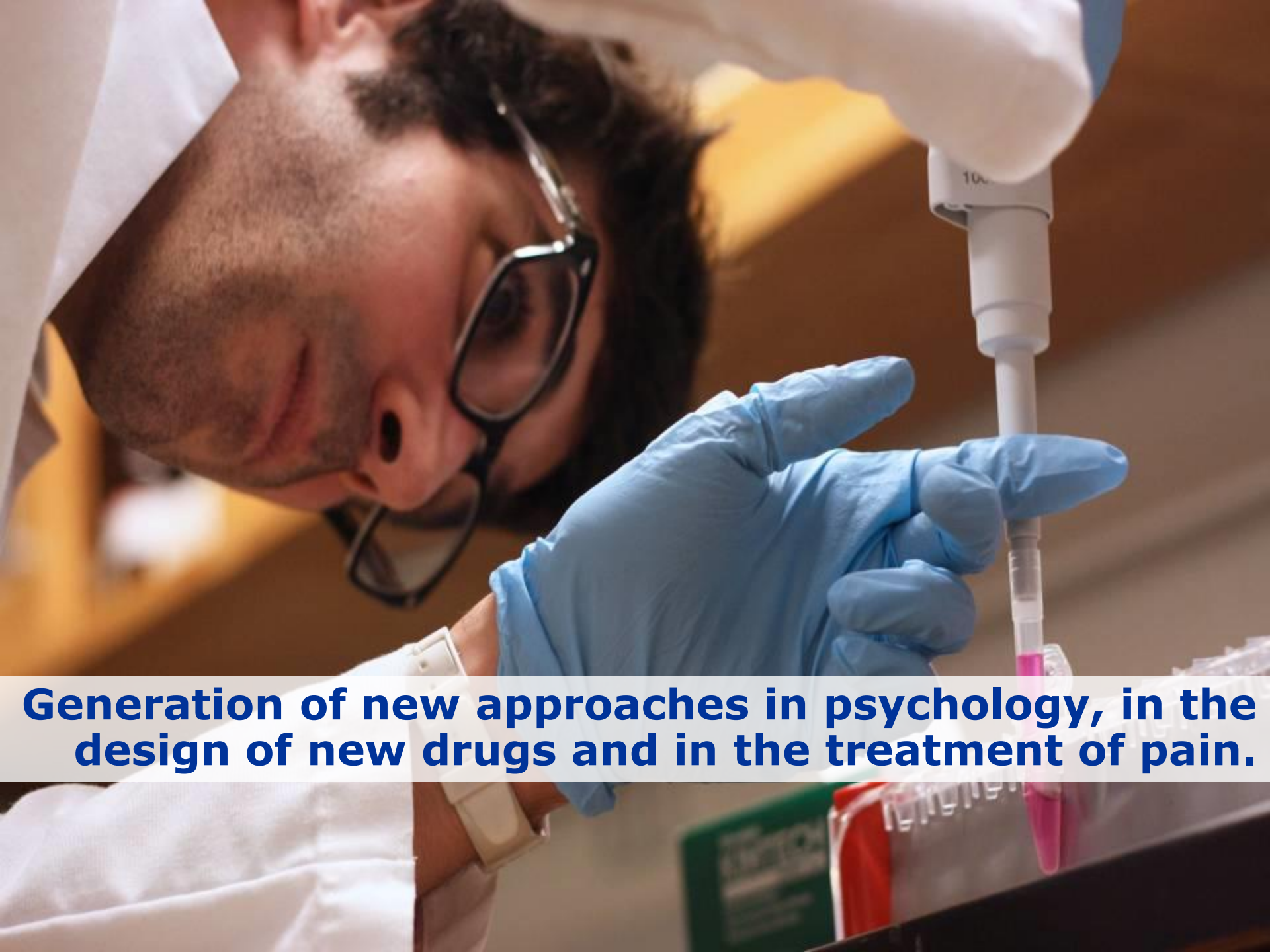




Nanomachines swim through veins and arteries cleaning out cholesterol and plaque deposits.

An abstract, fractal-like structure composed of numerous thin, translucent lines in shades of purple, blue, and white. These lines radiate from a central point, creating a complex, star-like pattern that resembles a molecular structure or a neural network. The background is a light, hazy blue.

Nanotechnology can explore the process of thoughts and perception at the molecular level.



Generation of new approaches in psychology, in the design of new drugs and in the treatment of pain.



Neural implants can counteract Parkinson's disease and tremors from multiple sclerosis.

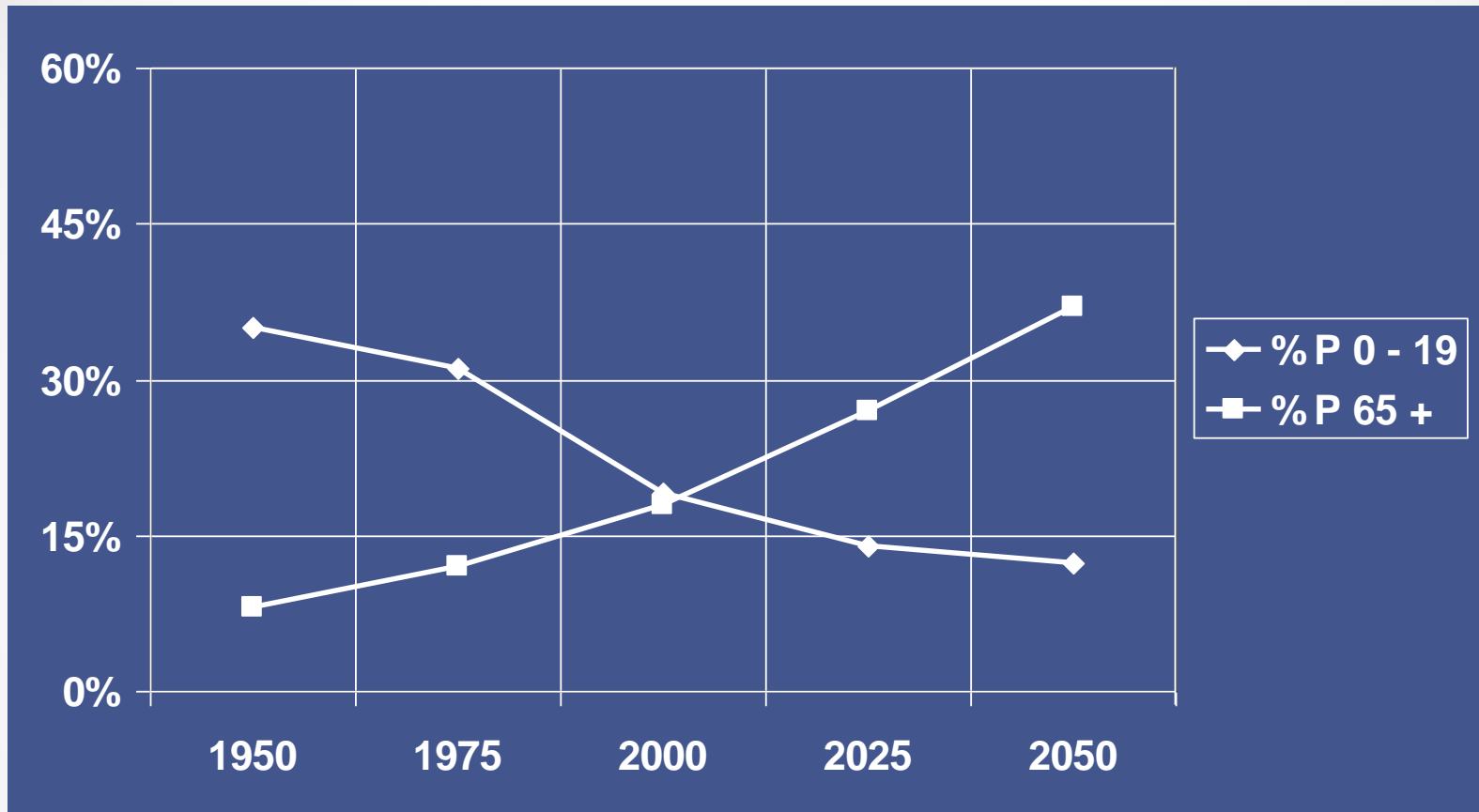


Blind patients are now able to see crude patterns thanks to a computer-driven dot matrix display.



Shirts with sensors can monitor heartbeat and other vital signs directly to a doctor.

Who is going to pay?



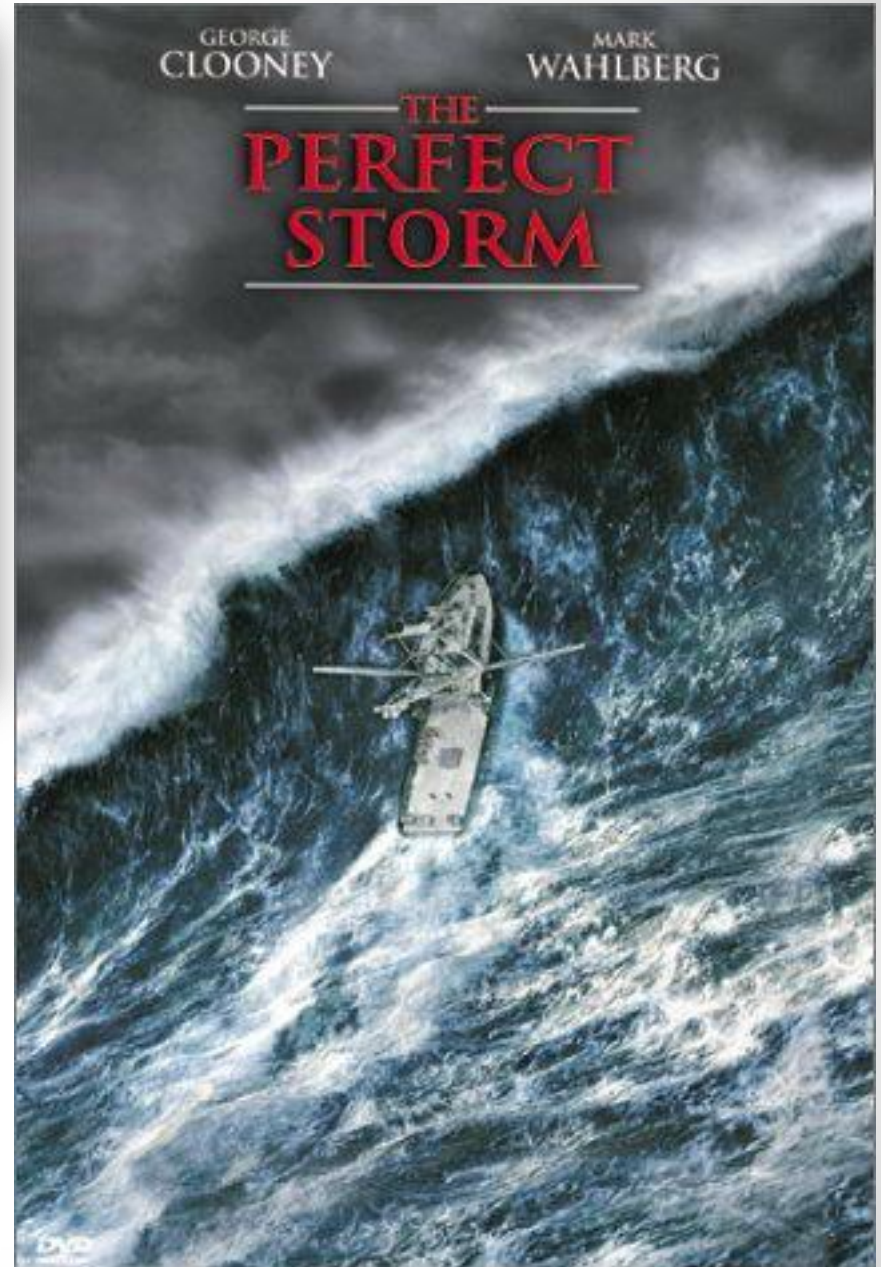
USA IN 2050

INDONESIA IN 2090

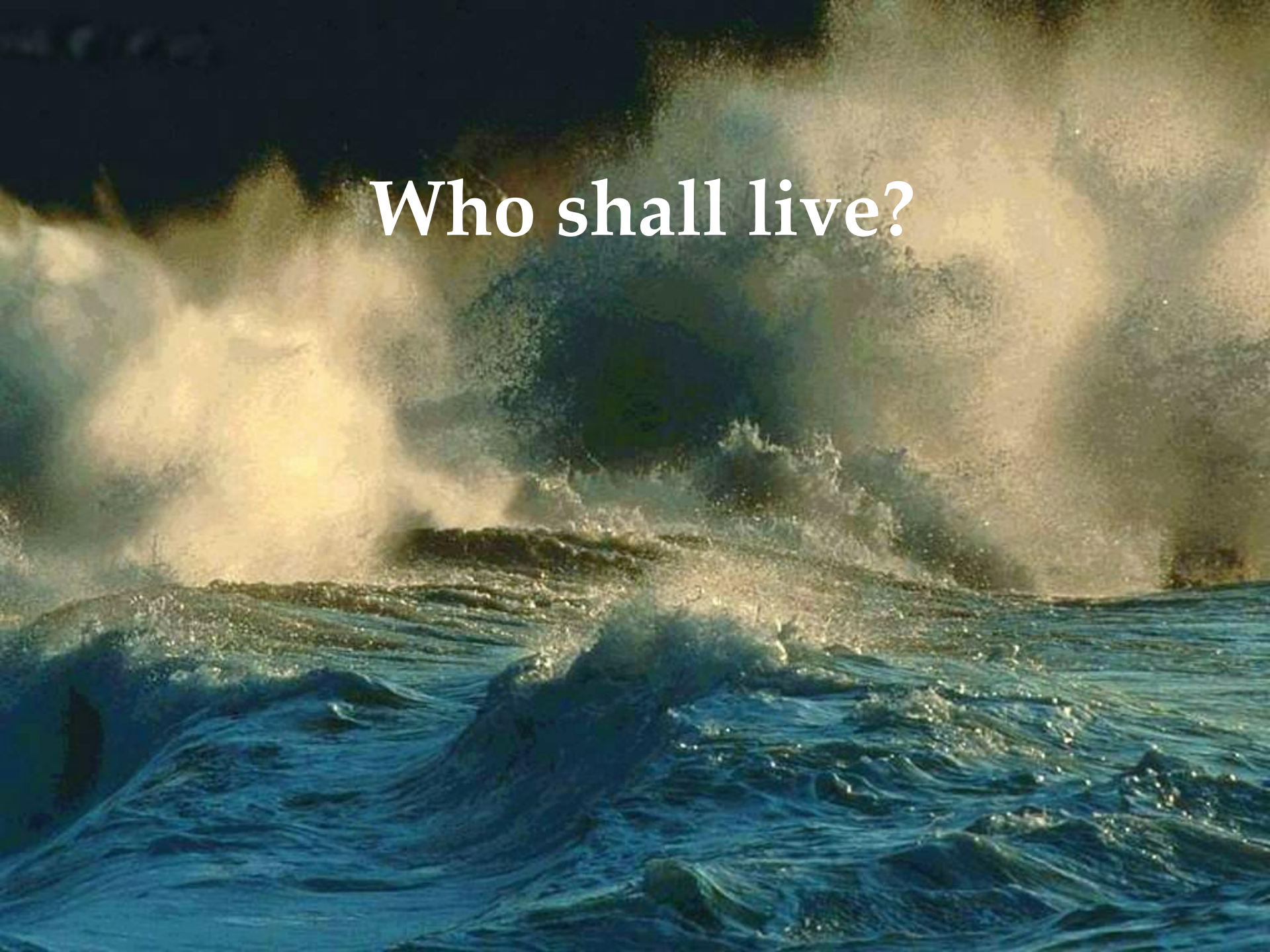


A "**perfect storm**" is an expression that describes an event where a rare combination of circumstances will aggravate a situation drastically.

The term is also used to describe an actual phenomenon that happens to occur in such a confluence, resulting in an event of unusual magnitude.



Who shall live?





**KEEP
CALM
AND**

**Join The
Revolution**

Health Sustainability

*“There are two kinds of problems in life.
Big ones and small ones.
The small ones money can solve.
The big ones money cannot solve”*

Will Roberts

Need for Action

*To pursue a sustainable health and of health care systems,
it is demanding a shift:*

From acute care to prevention and early intervention

From medical paternalism to citizen empowerment

From hospital dependency to integrated care

From ad hoc data collection to systematic surveillance and monitoring

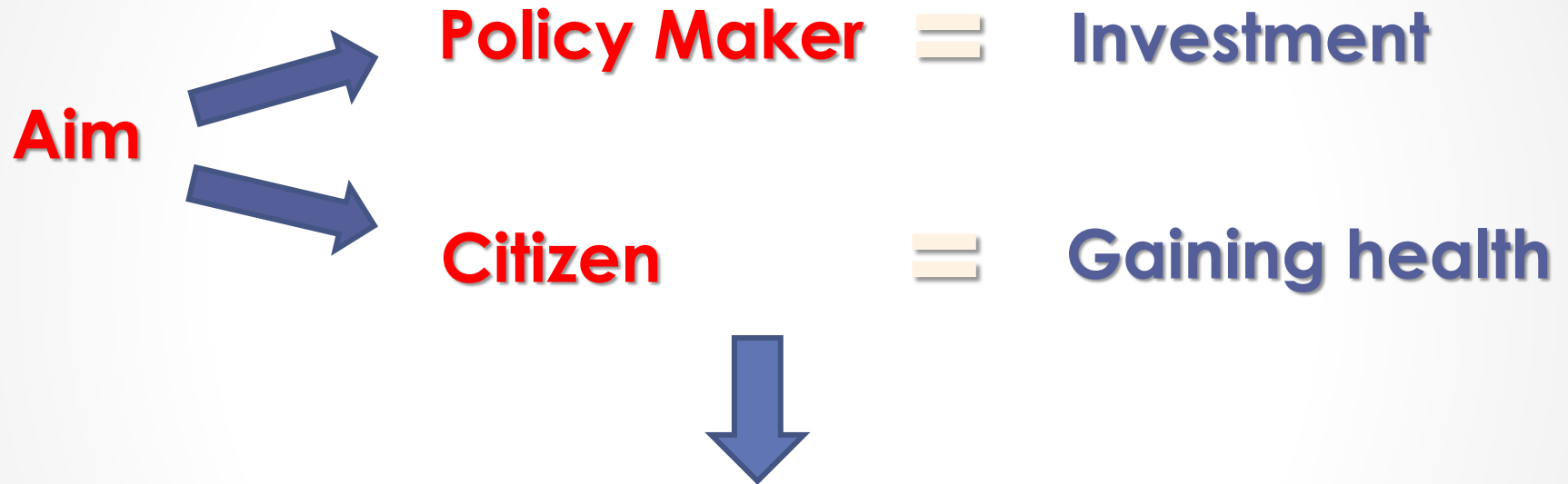
From volume to value based payments

The paradigm is known and widely supported,
but it seems that health is not given the urgent
attention it deserves.



20 th CENTURY HEALTHCARE	21 st CENTURY HEALTHCARE
<p>Doctor centred</p> <p>Patient as passive complier</p> <p>Hospital</p> <p>Bureaucracy</p> <p>Driven by finance</p> <p>High carbon</p> <p>Focussed on effectiveness</p> <p>Challenges met by growth</p>	<p>Patient centred</p> <p>Patient as co-producer</p> <p>System</p> <p>Network</p> <p>Driven by knowledge</p> <p>Low carbon</p> <p>Focussed on value and waste</p> <p>Challenges met by transformation</p>

Healthcare systems need to be reorganized, and sustainability framework represents a prominent **and programs**



**Prevention
and
Early Intervention**

**Empowered and
responsible citizens**

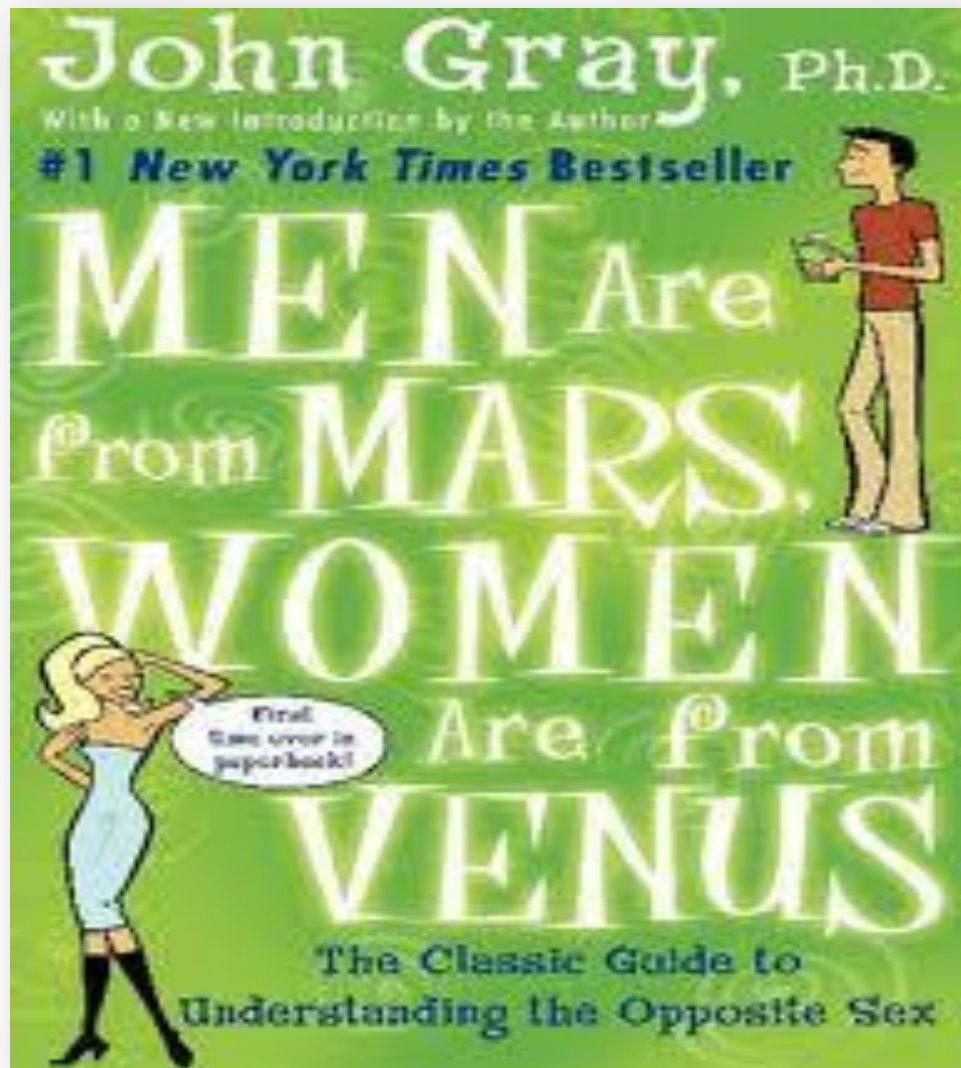
**Reorganisation
of care**

Time for a Paradigm Shift?



You cannot escape the responsibility of tomorrow by evading it today

Abraham Lincoln



Researchers are from Mars
Policy makers are from Venus



Loved
Voted
Elected
Power

Botticelli, Florence



**Evidence
Science
Transparency
Accountability**

Villa Adriana, Rome



You may have
researched

Yeah,
but how
did you
know?

Because you gave
me a very
accurate but
totally irrelevant
answer

Because you don't
know where you
are, you don't
know where you
are going and you
are blaming me
for all this mess..

30
up



What do we need to change?

To put research into practice

- Improve (as much as possible the current generation)
- Educating better the next generation

**The future is not a destination like Rome
or the Garda Lake, waiting for our arrival;**



it is something like a beautiful bridge
that we have to imagine, plan and
build



Thanks for your attention