

Health system reforms in times of constraint: experiences from Europe



Reinhard Busse, Prof. Dr. med. MPH

Department of Health Care Management

Berlin University of Technology/

(WHO Collaborating Centre for Health Systems Research and Management)

European Observatory on Health Systems and Policies



BEFORE THE FINANCIAL CRISIS: WAS EVERYTHING OK WITH EUROPEAN HEALTH SYSTEMS?

**NO! IN MANY COUNTRIES
EXPENDITURE RISES WERE HIGH,
THE POPULATION DISSATISFIED,
AND QUALITY SUB-OPTIMAL**

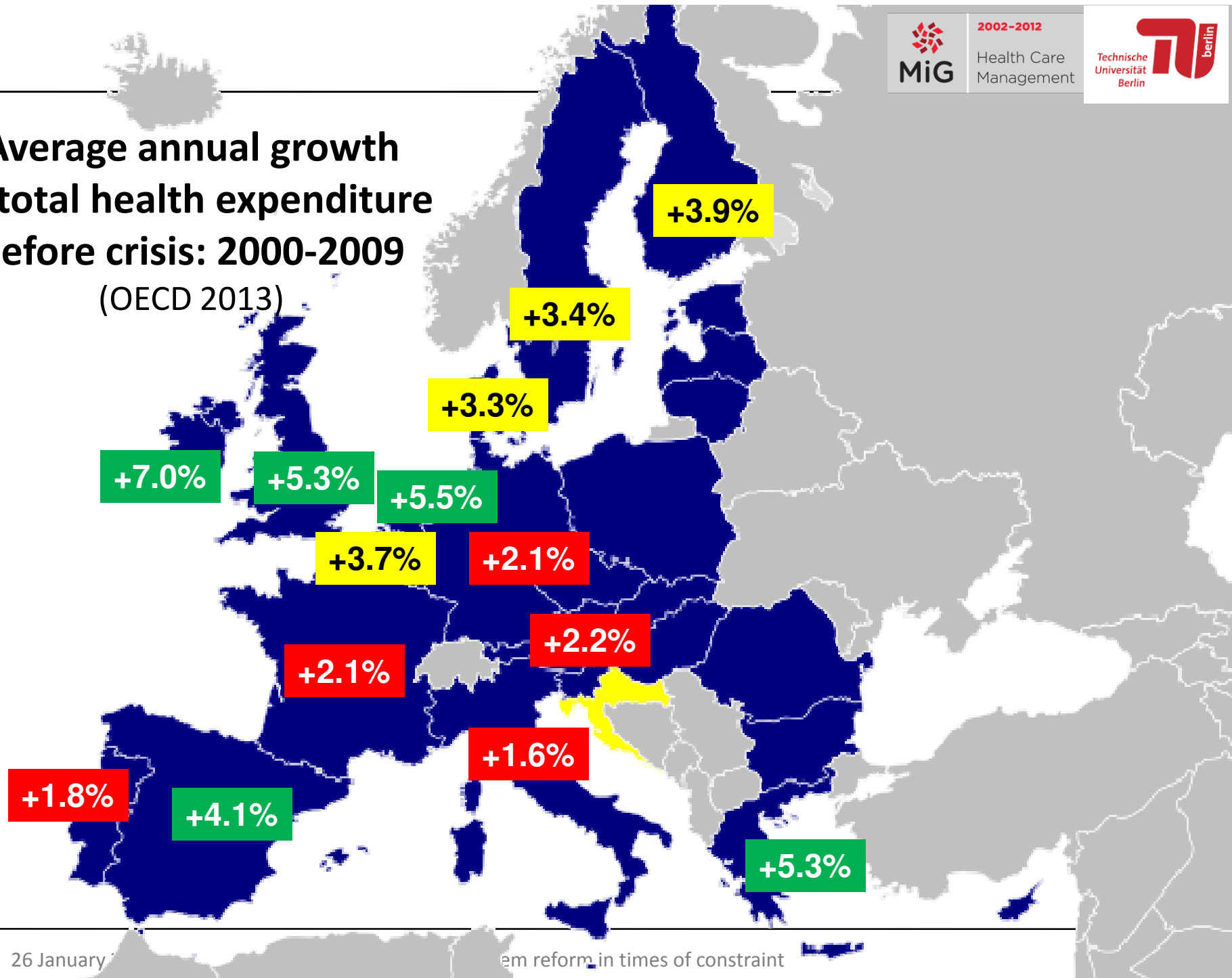
A few bad examples

- **Ireland:** no universal coverage, ca. 50% relying on VHI, ridiculously high and rising costs and salaries
- **Greece:** totally fragmented public system (between “NHS” and health insurance funds) → dissatisfaction → very high private provision and expenditure
- **Portugal:** waiting in public providers → private provision → high rates of out-of-pocket expenditure

The (elected!) politicians in these and other countries were not interested in good and resilient health systems – and totally unprepared for the crisis!

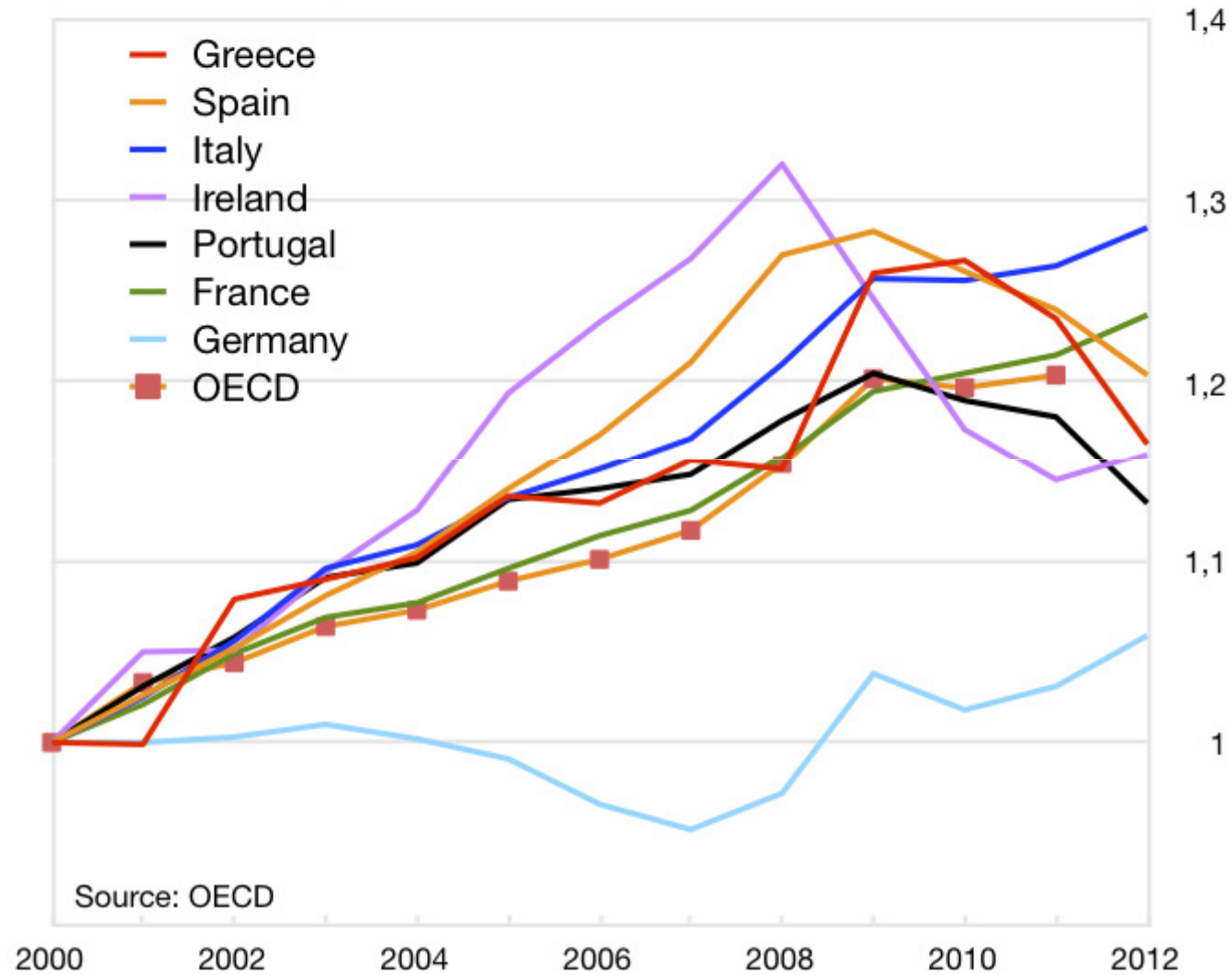


**Average annual growth
of total health expenditure
before crisis: 2000-2009**
(OECD 2013)

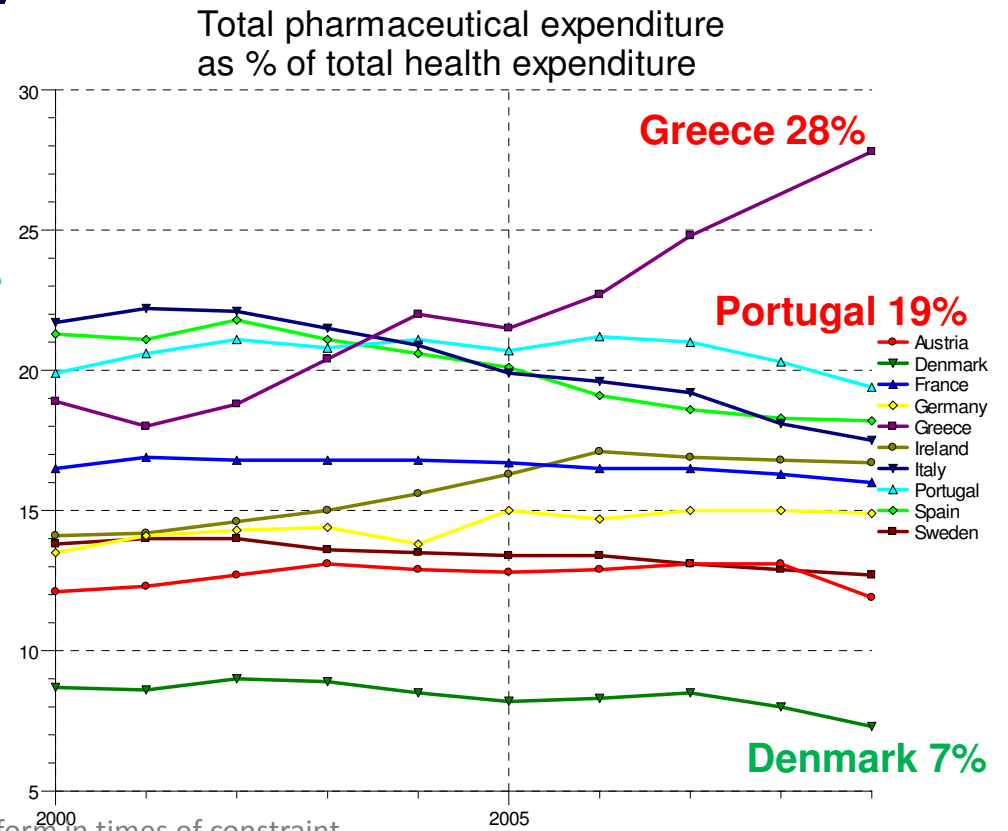
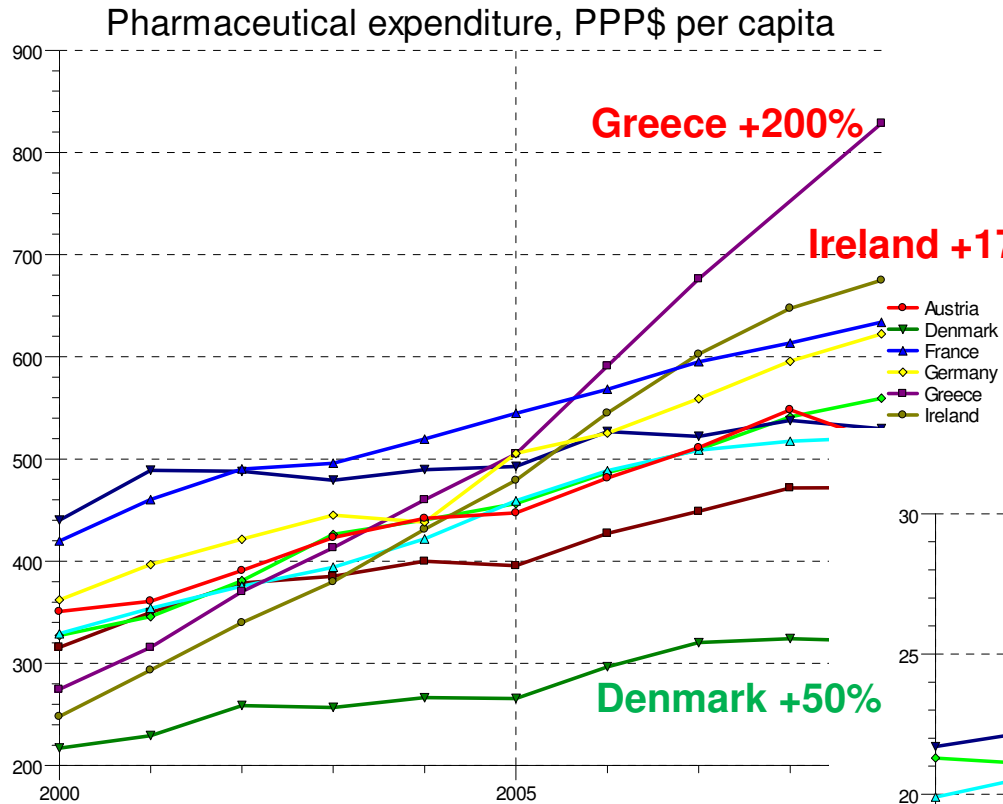


And labour made up an important part of that ...

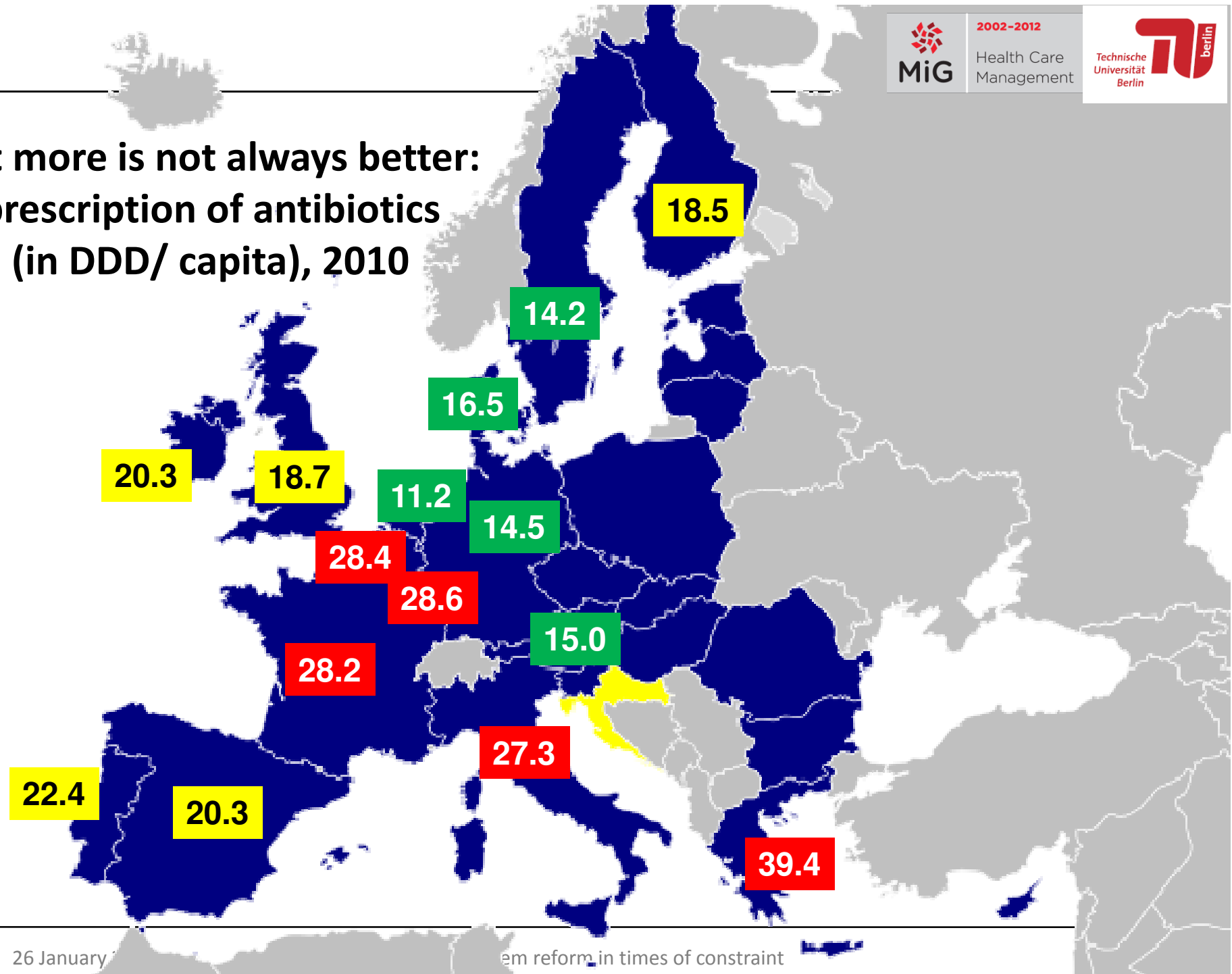
Change in unit labour costs since 2000



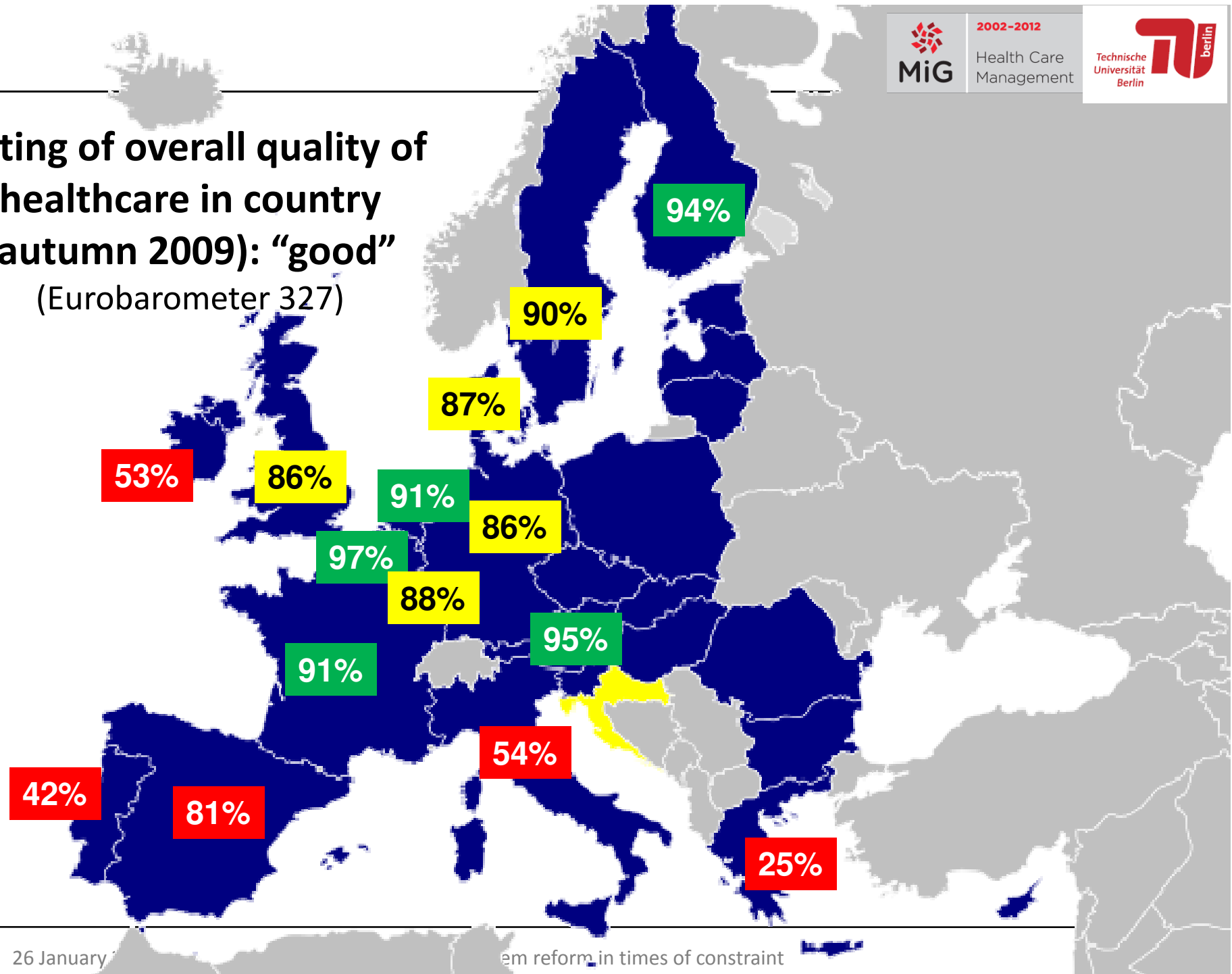
... but pharmaceuticals were also an issue



**But more is not always better:
prescription of antibiotics
(in DDD/ capita), 2010**

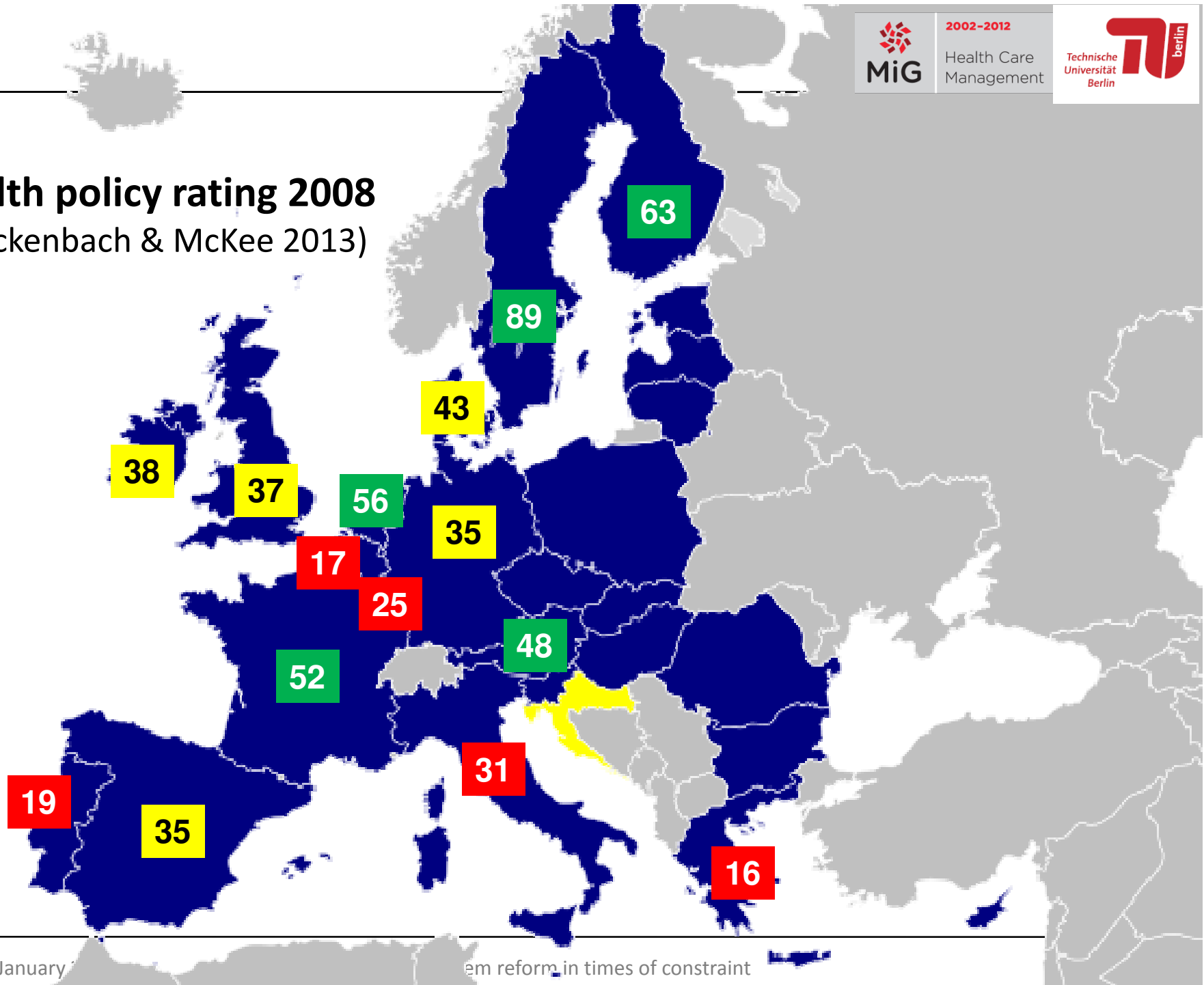


**Rating of overall quality of
healthcare in country
(autumn 2009): "good"
(Eurobarometer 327)**

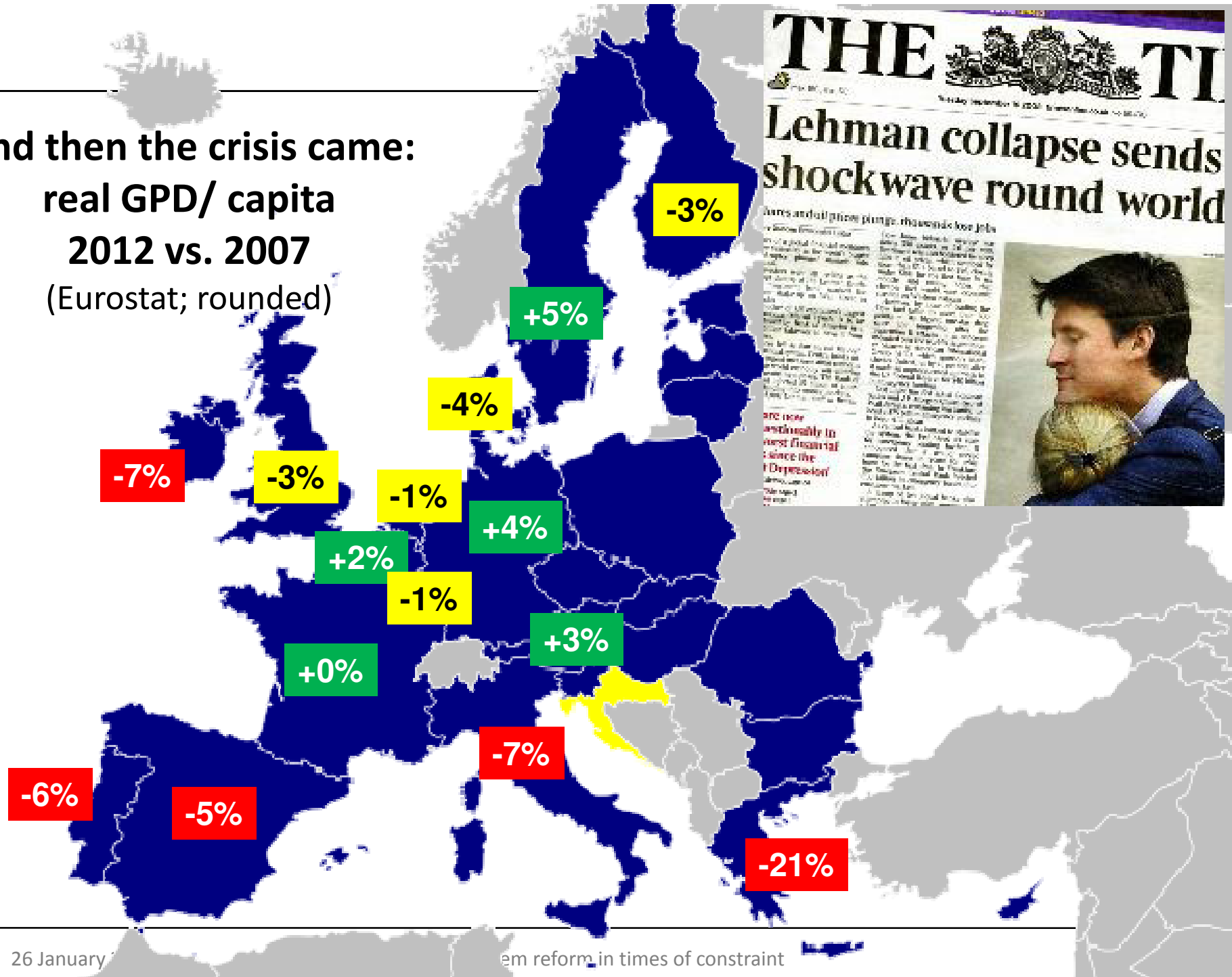


Health policy rating 2008

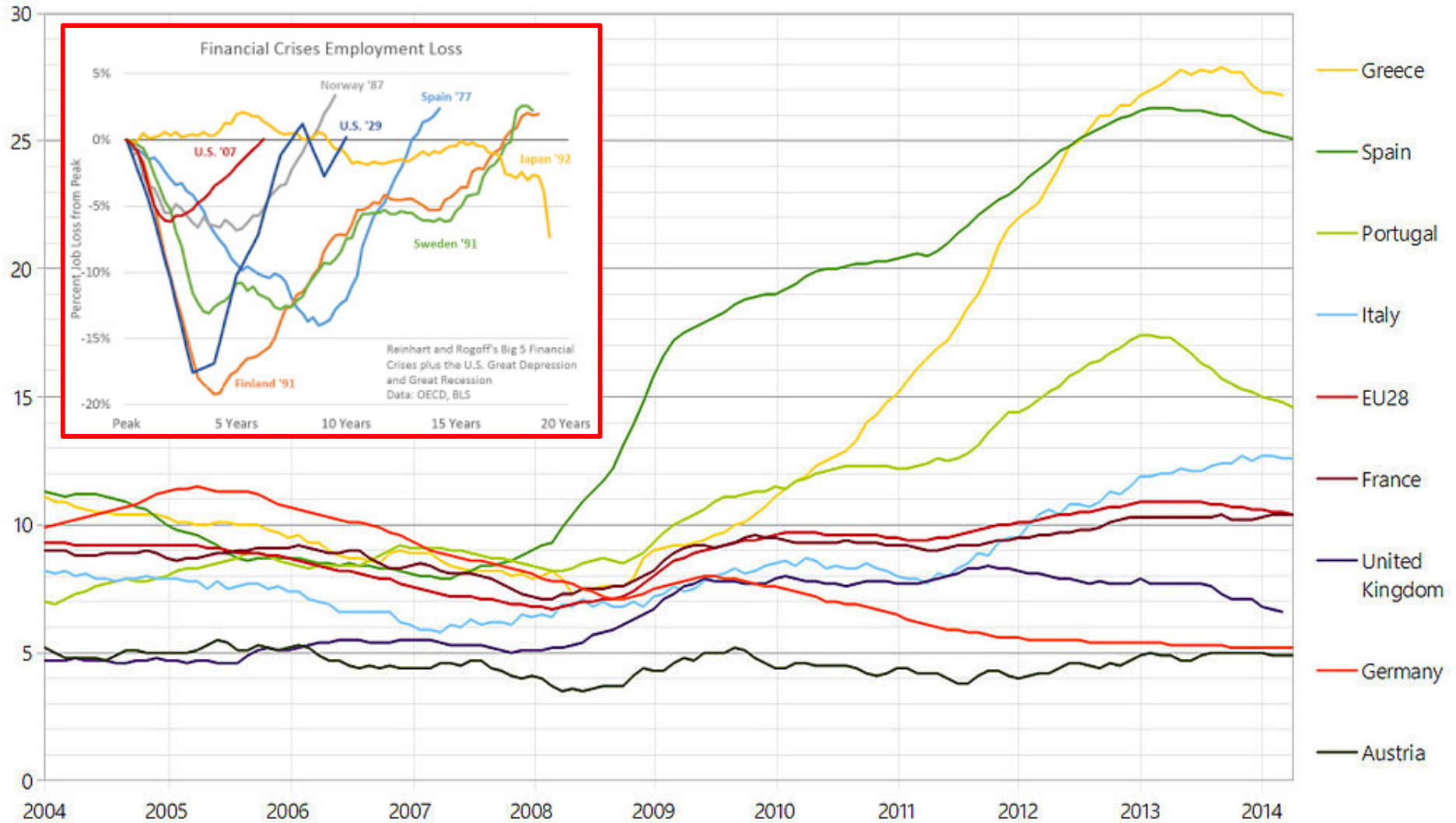
(Mackenbach & McKee 2013)



And then the crisis came:
real GDP/ capita
2012 vs. 2007
(Eurostat; rounded)



GDP decrease was accompanied in many, but not all, countries by rising unemployment



What are the effects of crises on health?

Starting with previous experience ...

In brief:

- Suicides up
- Road traffic deaths down
- Alcohol-related deaths: depends on how easily alcohol is available
- Infectious disease: almost impossible to predict

JGCH Online First, published on March 24, 2011 as 10.1136/jgch.2010.121376

Research report

Banking crises and mortality during the Great Depression: evidence from US urban populations, 1929–1937

David Stuckler,^{1,2} Christopher Meissner,³ Price Fishback,⁴ Sanjay Basu,⁵ Martin McKee³

► Additional appendices are published online only. To view these files please visit the journal online (<http://jgch.bmj.com>).

¹Department of Global Health and Population, Harvard University, Boston, USA

²Department of Public Health and Policy, London School of Hygiene & Tropical Medicine, London, UK

ABSTRACT

Background Previous research suggests that the Great Depression led to improvements in public health. However, these studies rely on highly aggregated national data (using fewer than 25 data points) and potentially biased measures of the Great Depression using city-level estimates of US mortality and an underlying measure of economic crisis, bank suspensions, at the state level.

Methods Cause-specific mortality covering 114 US

coming often from families who never before knew the meaning of want. By all the signs and all the precedents, hard times so seriously prolonged should have brought in their train disease and death. Actually, 1931 was one of the healthiest years in the history of the country. The evidence is overwhelming.—New York Times, 5 January 1932¹

The 2008 financial crisis has been likened to the Great Depression. Both crises were characterised by the early onset of distress in the banking sector, which spread rapidly to many countries and led to

reform in t

Articles

The public health effect of economic crises and alternative policy responses in Europe: an empirical analysis

David Stuckler, Sanjay Basu, Marc Suhrcke, Adam Cortis, Martin McKee

Summary

Background There is widespread concern that the present economic crisis, particularly its effect on unemployment, will adversely affect population health. We investigated how economic changes have affected mortality rates over the past three decades and identified how governments might reduce adverse effects.

License: 2009; 374:315–23
Published Online: 14 June 2009

Method and countries and the European Union (EU) (

Findings younger age group was 3–80 per 290–984 on suicide EU-wide). It rose, although on different

Interpretation workers

Funding

Introduction Many of the present health and health care lifestyle with little stress), overburden for patients WHO h that we mental first to become

Yet this is not because we argue that undertakes that the downward a up.^{1,2} The groups,'

www.thelancet.com

Fun

Int The and dev: most UN mist 15 y half pret acc

Pr: alth lost and



Mass privatisation and the post-communist mortality crisis: a cross-national analysis

David Stuckler, Lawrence King, Martin McKee

Summary

Background During the early-1990s, adult mortality rates rose in most post-communist European countries. Substantial differences across countries and over time remain unexplained. Although previous studies have suggested that the

License: 2009; 373:399–407
Published Online: 14 June 2009

OPEN ACCESS Freely available online

PLoS one

The Impact of Economic Crises on Communicable Disease Transmission and Control: A Systematic Review of the Evidence

Marc Suhrcke¹, David Stuckler², Jonathan E. Suk³, Monika Desai⁴, Michaela Senek¹, Martin McKee⁴, Svetlana Tzolova⁵, Sanjay Basu⁵, Ibrahim Abubakar¹, Paul Hunter¹, Boika Redel¹, Jan C. Semenza^{3*}

¹ Norwich School of Medicine, University of East Anglia, Norwich, United Kingdom, ² Harvard School of Public Health, Boston, Massachusetts, United States of America, ³ Future Threats and Determinants Section, Scientific Advice Unit, European Centre for Disease Prevention and Control (ECDC), Stockholm, Sweden, ⁴ London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁵ Department of Medicine, University of California San Francisco, San Francisco, California, United States of America

Abstract

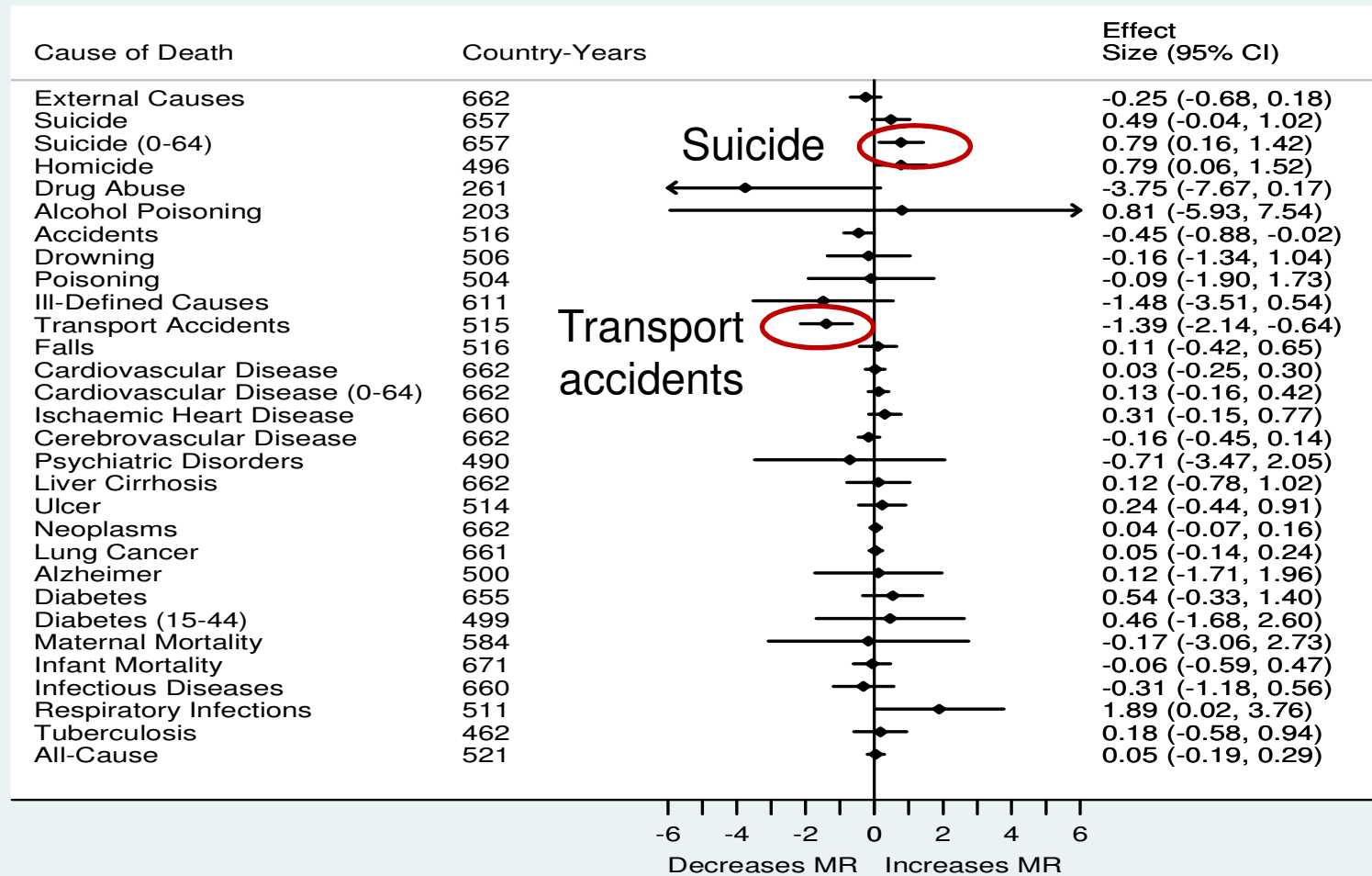
There is concern among public health professionals that the current economic downturn, initiated by the financial crisis that started in 2007, could precipitate the transmission of infectious diseases while also limiting capacity for control. Although studies have reviewed the potential effects of economic downturns on overall health, to our knowledge such an analysis has yet to be done focusing on infectious diseases. We performed a systematic literature review of studies examining changes in infectious disease burden subsequent to periods of crisis. The review identified 230 studies of which 37 met our inclusion criteria. Of these, 30 found evidence of worse infectious disease outcomes during recession, often resulting from higher rates of infectious contact under poorer living circumstances, worsened access to therapy, or poorer retention in treatment. The remaining studies found either reductions in infectious disease or no significant effect. Using the paradigm of the “SIR” (susceptible-infected-recovered) model of infectious disease transmission, we examined the implications of these findings for infectious disease transmission and control. Key susceptible groups include infants and the elderly. We identified certain high-risk groups, including migrants, homeless persons, and prison populations, as particularly vulnerable conduits of epidemics during situations of economic duress. We also observed that the long-term impacts of crises on infectious disease are not inevitable: considerable evidence suggests that the magnitude of effect depends critically on budgetary responses by governments. Like other emergencies and natural disasters, preparedness for financial crises should include consideration of consequences for communicable disease control.

Citation: Suhrcke M, Stuckler D, Suk JE, Desai M, Senek M, et al. (2011) The Impact of Economic Crises on Communicable Disease Transmission and Control: A Systematic Review of the Evidence. PLoS ONE 6(6): e20724. doi:10.1371/journal.pone.0020724

Editors: Jari H. Verbeek, Finnish Institute of Occupational Health, Finland

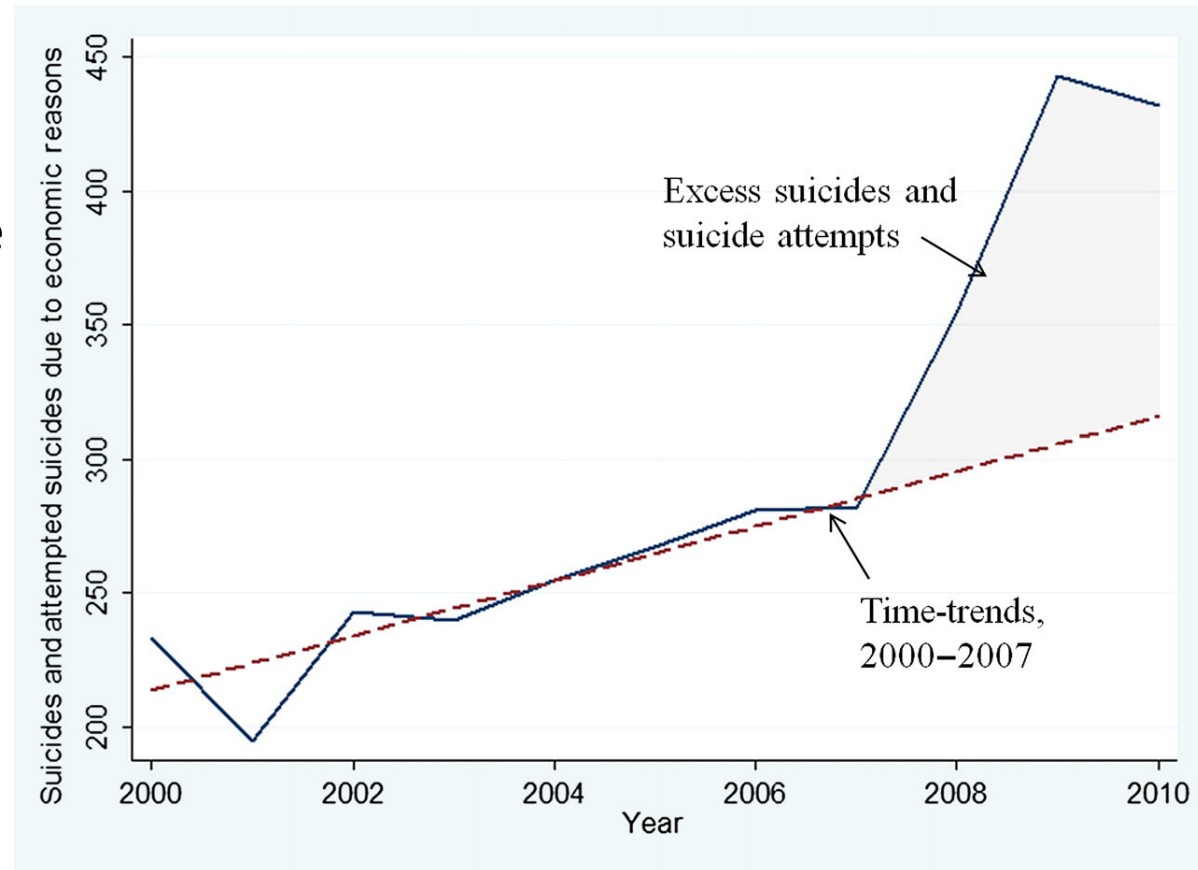
Received: December 31, 2010; **Accepted:** May 11, 2011; **Published:** June 10, 2011

The impact of a 1% increase in unemployment on mortality



Impact on health – current crisis: Italy

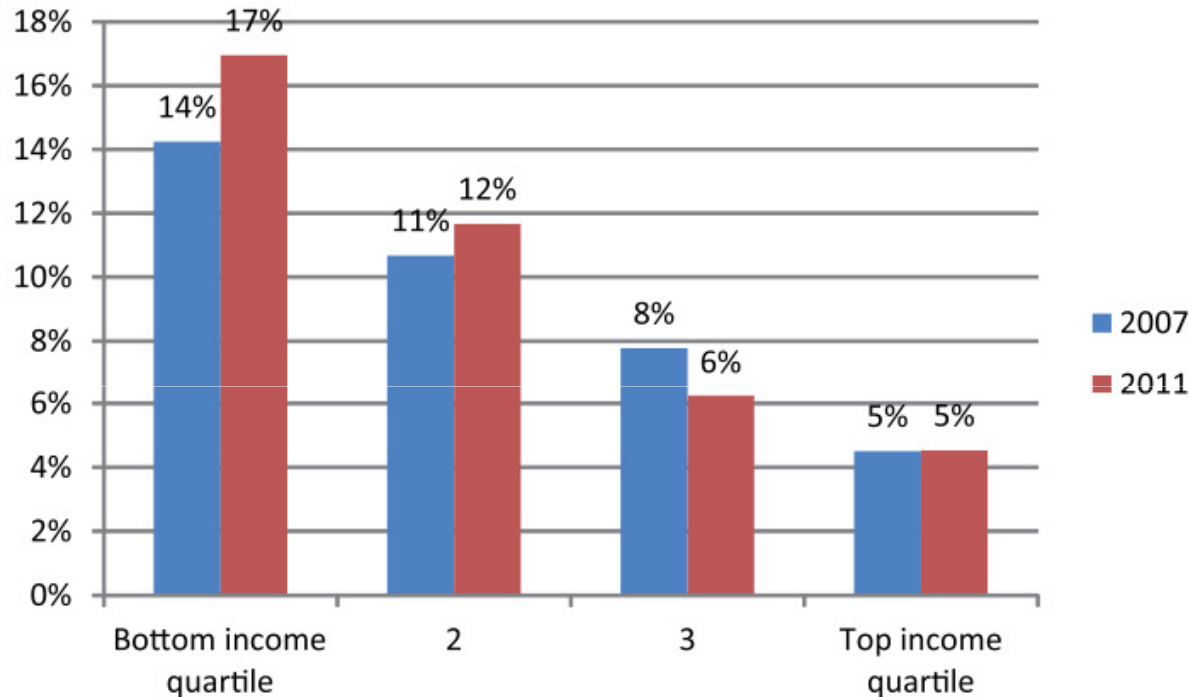
290 (95% CI 112-468)
excess suicides and
attempted suicides “due
to economic reasons”
(2008-2010)



De Vogli, R., M. Marmot, and D. Stuckler, *Excess suicides and attempted suicides in Italy attributable to the great recession. J Epidemiol Community Health, 2012.*

Impact on health – current crisis: the poor report worse health status

Figure 1: *Poor health status and income in the EU28, 2007 and 2011*



Note: Based on responses to Question 42: ‘In general, would you say your health is very good, good, fair, bad or very bad?’ (Other responses included ‘don’t know’ or refusal to answer.) The figures refer to the proportion of people who reported ‘bad’ or ‘very bad’ health.

Source: *Eurofound’s analysis of EQLS micro-data.*

- Many countries largely unaffected by financial crisis, so no need for a response
- Many changes in health systems part of pre-existing plans, so difficult to attribute to the financial crisis (but plans were often enforced through crisis)
- Only a few examples of major budget cuts (some imposed by the international community)
- But in many countries
 - decreasing expenditure by price (*pharma!*) and salary cuts/ freezes
 - increasing income by tax/ contribution increases and co-payments
- However, fewer examples of clever restructuring, strengthening HTA or using “sin taxes” wisely (*many missed opportunities of the crisis!*)

Troika Memorandum of Understanding with Greece

- Public health expenditure at 6% of GDP
- €2 bn savings in pharmaceuticals between 2010 and 2012 (through pricing mechanisms and prescribing monitoring)
- 25% decrease in expenditure for purchase of medical services and goods (by end 2011)
- Introduction of single Health Insurance Fund (EOPYY), with 50% reduction in admin staff and 25% reduction in contracted doctors
- 10% + 5% reduction in hospital costs in 2011 and 2012
- 10% + 15% reduction in compensation costs (doctors wages and fees) in 2011 and 2012
- Introduction of hospital computerisation and monitoring systems



Impact on health and health care: mental health and health services in Greece

- 2.5 times increase in major depression between 2008 and 2011 (Economou et al., 2012)
- 29% increase in suicidal ideation and 36% increase in attempted suicide between 2009 and 2011 (Economou et al., 2013)
- 120% increase in mental health service use over 3 years (Anagnostopoulos & Soumaki, 2013)
- State funding for mental health decreased by 20% in 2011 and another 55% in 2012



2. Recent health policy in Portugal

Health system in the MoU


Scope of measures:

- NHS and public subsystems financing
- Pharmaceuticals and the pharmacies' sector
- Prescription and monitoring of prescription
- centralised purchasing and procurement
- Primary care services
- Hospital services
- Cross services

Financing




- NHS user fees increased and indexed to inflation; exemption scheme revised 
- Reduction of budgetary cost of health-benefits schemes for civil servants 

Pharmaceuticals


- Revision of distribution margins and decrease in prices following changes in reference countries 

2. Recent health policy in Portugal



Prescription

- Additional legislation on electronic prescription 
- Prescription guidelines are being established by DGS OM and OMD 
- Incentives for use of generic medicines 




NHS expenditure with private providers

- New legal framework for private services contracting by the NHS just published (Oct.13) 

Primary care services

- Increase in patients assigned to NHS family doctor (from 85.2% in 2010 to 95.1% in 2012) 
- Number of USF increased 9% in 2011 and 11% in 2012 

Hospital services

- Clearing NHS hospitals' arrears 
- Reorganisation/rationalisation of hospital network 
- Reducing operating costs of hospitals 

Health system reforms: public funding

Policy area	Number of countries reporting:	
	<i>direct responses</i>	<i>partial responses</i>
Reducing (or slowing the growth of) health budgets		
Cutting ministry of health budgets	8	
Reducing government budget transfers to the health sector	4	
Introducing or tightening controls on public spending on health	4	
Introducing or tightening controls on public spending in general	5	
Mobilizing revenue		
Deficit financing	3	1
Increasing government budget transfers	12	8
Drawing down reserves	7	0
Introducing countercyclical formulas for government budget transfers to the health sector	0	1
Increasing social insurance contribution rates	9	3
Raising or abolishing ceilings on contributions	3	1
Applying contributions to non-wage income	4	1
Enforcing collection	1	1
Centralizing collection	1	0
Introducing new taxes/earmarking for the health system	2	3
Targeting		
Abolishing tax subsidies and exemptions	2	1
Reducing contribution rates to protect poorer people	2	0
Reducing contribution rates to protect employment	5	0

Direct = as a result of crisis

Partial = planned before, but implementation enforced

Max. 47

Health system reforms: public funding

Policy area	Number of countries reporting:	
	<i>direct responses</i>	<i>partial responses</i>
Reducing (or slowing the growth of) health budgets		
Cutting ministry of health budgets	18	1
Reducing government budget transfers to the health sector	4	0
Introducing or tightening controls on public spending on health	4	1
Introducing or tightening controls on public spending in general	5	1
Mobilizing revenue		
Deficit financing	3	1
Increasing government budget transfers	12	8
Drawing down reserves	7	0
Introducing countercyclical formulas for government budget transfers to the health sector	0	1
Increasing social insurance contribution rates	9	3
Raising or abolishing ceilings on contributions	3	1
Applying contributions to non-wage income	4	1
Enforcing collection	1	1
Centralizing collection	1	0
Introducing new taxes/earmarking for the health system	2	3
Targeting		
Abolishing tax subsidies and exemptions	2	1
Reducing contribution rates to protect poorer people	2	0
Reducing contribution rates to protect employment	5	0

Health system reforms: health coverage

Policy area	Number of countries reporting:	
	direct responses	partial responses
Population entitlement		
Expanded entitlement	8	7
Restricted entitlement	6	0
Benefits package		
Added new benefits	4	9
HTA-informed reduction in benefits	4	9
Ad hoc reduction in benefits	14	3
User charges		
Reduced user charges (or improved protection)	14	10
Increased user charges	13	11

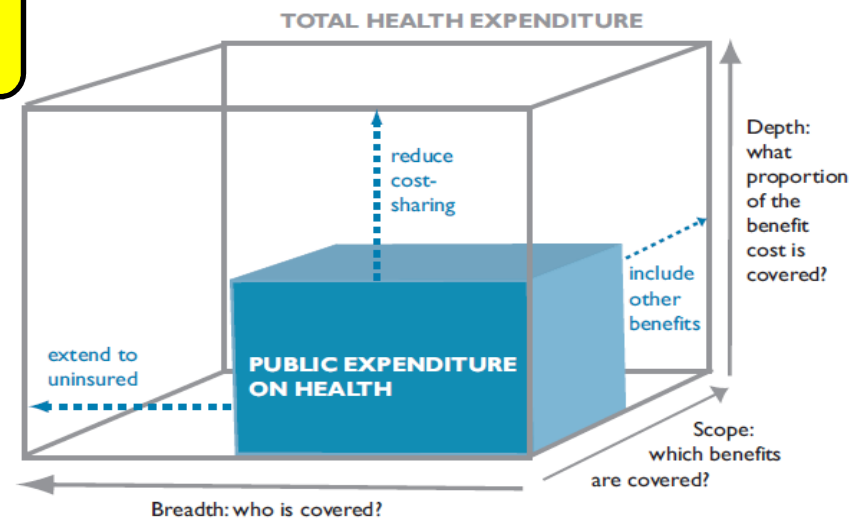
More ad hoc than HTA-based

Each 1/2 of countries; partly both (e.g. Spain)

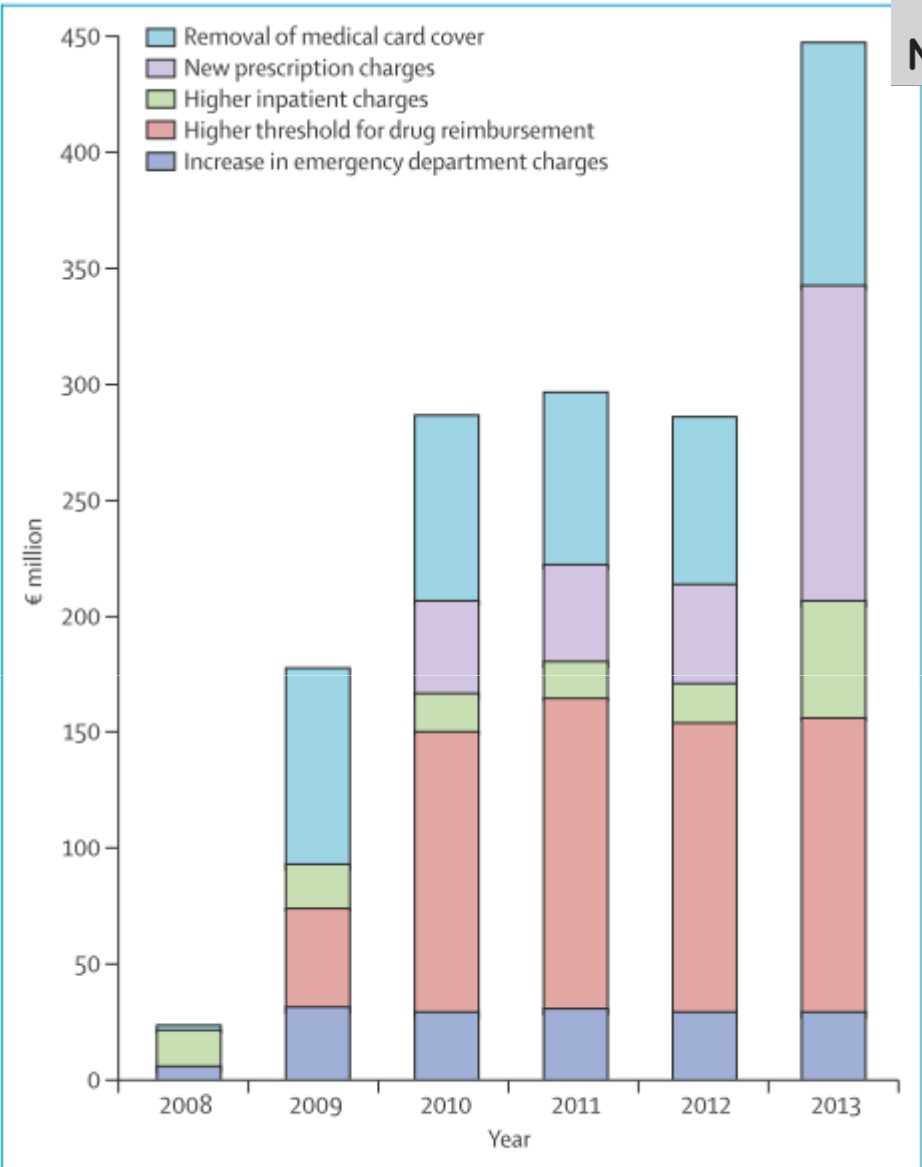
Increased means-tested threshold (Ireland); removing coverage from unemployed (Greece → 79% coverage in 2013)

Source: Thomson et al. (2014).

Note: HTA = health technology assessment.



The effect of higher means-testing thresholds and higher user charges in Ireland



€ 450 mn =
€ 100/ person

Figure: Estimates of cost-shifting from the government to households, 2008-13
We used data from Health Service Executive Performance reports,²³ Primary Care Reimbursement Services Annual reports, and government budgets.

Health system reforms: planning, purchasing, delivery

Policy area	Number of countries reporting:	
	<i>direct responses</i>	<i>partial responses</i>
Health system planning and purchasing organizations		
Measures to lower administrative costs	22	9
Public health services		
Cuts to public health budgets	6	0
Measures to strengthen promotion and prevention	12	18
Primary care and ambulatory care		
Cuts to funding	5	0
Increased funding	3	2
Changes to payment	1	4
Delivery: closures	2	0
Delivery: shifting care out of hospitals	11	3
Delivery: skill mix	3	0
Delivery: access	5	1
The hospital sector		
Cuts to funding and reduced investment	28	8
Increased investment	3	6
Changes to payment	8	12
Delivery: closures, mergers	11	7
Drugs and medical devices		
Lower prices	22	20
Evidence-based use	10	8
Health workers		
Lower payment and numbers	22	5
The role of health technology assessment (HTA)		
Greater use of HTA to inform coverage decisions	7	8
Greater use of HTA to inform care delivery	9	6

Each 10% of countries

75% of countries

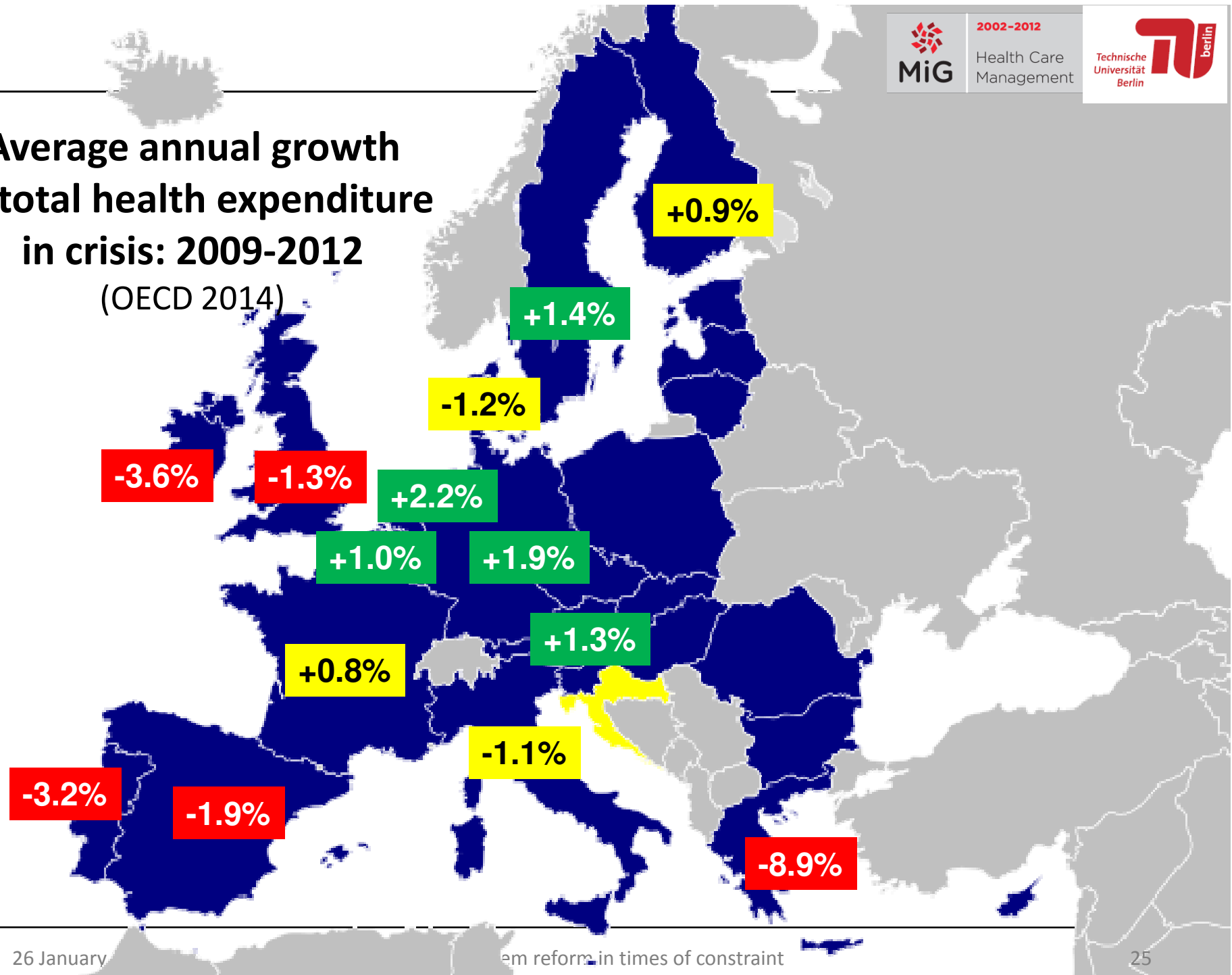
20% of countries

>90% of countries

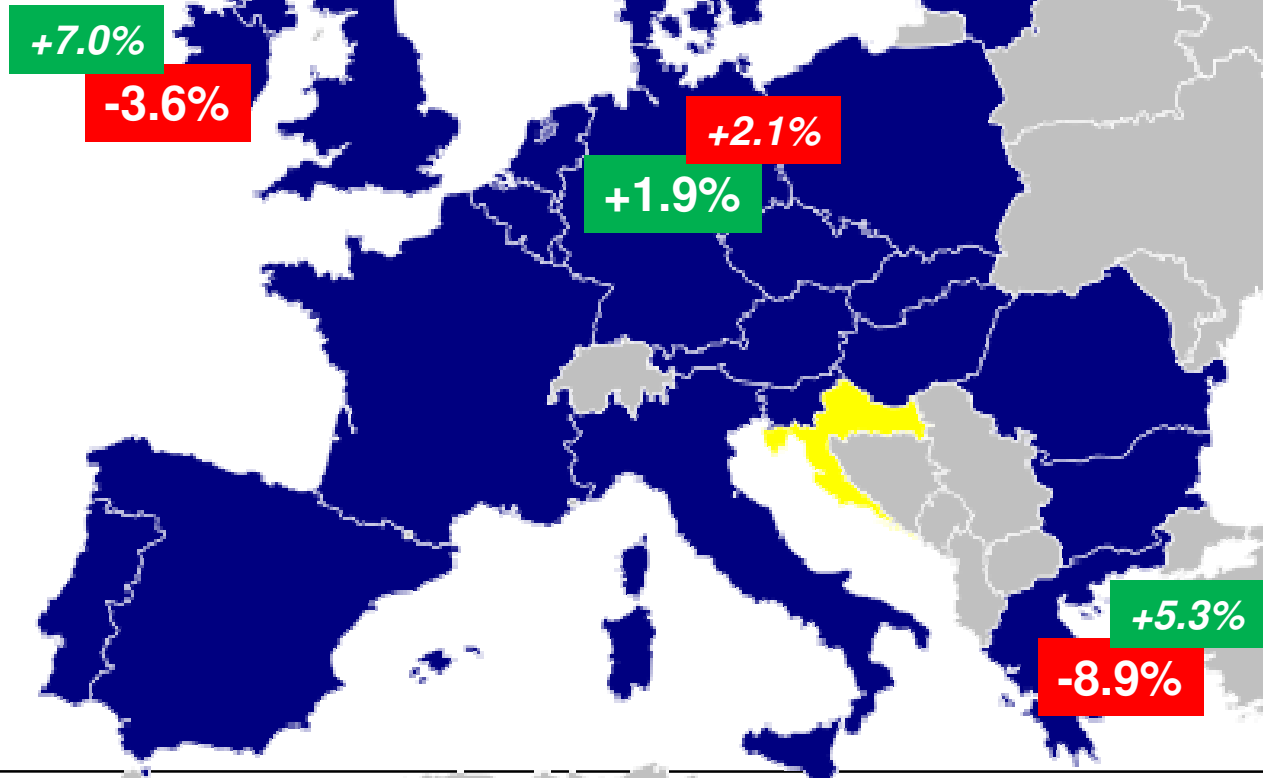
40% of countries

Each 1/3 of countries

Average annual growth of total health expenditure in crisis: 2009-2012 (OECD 2014)



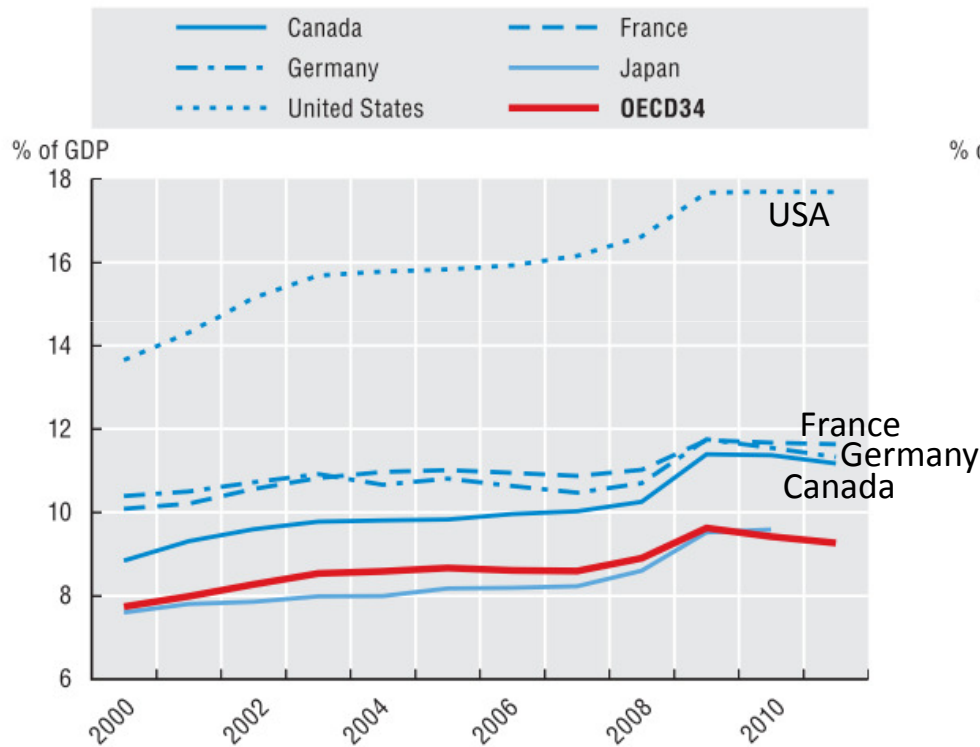
Average annual growth of total health expenditure: 2009-2012 vs. 2000-2009



Effect of cutting expenditure on expenditure/GDP

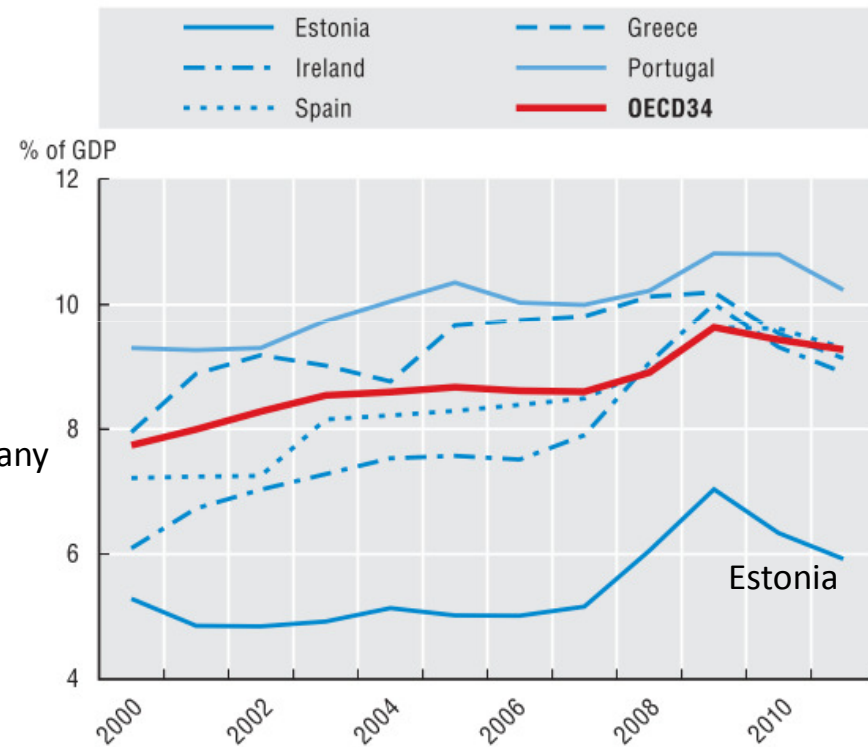
Crisis countries

7.2.2. Health expenditure as a share of GDP, 2000-11, selected G7 countries



Source: OECD Health Statistics 2013, <http://dx.doi.org/10.1787/health-data-en>.
StatLink <http://dx.doi.org/10.1787/888932918890>

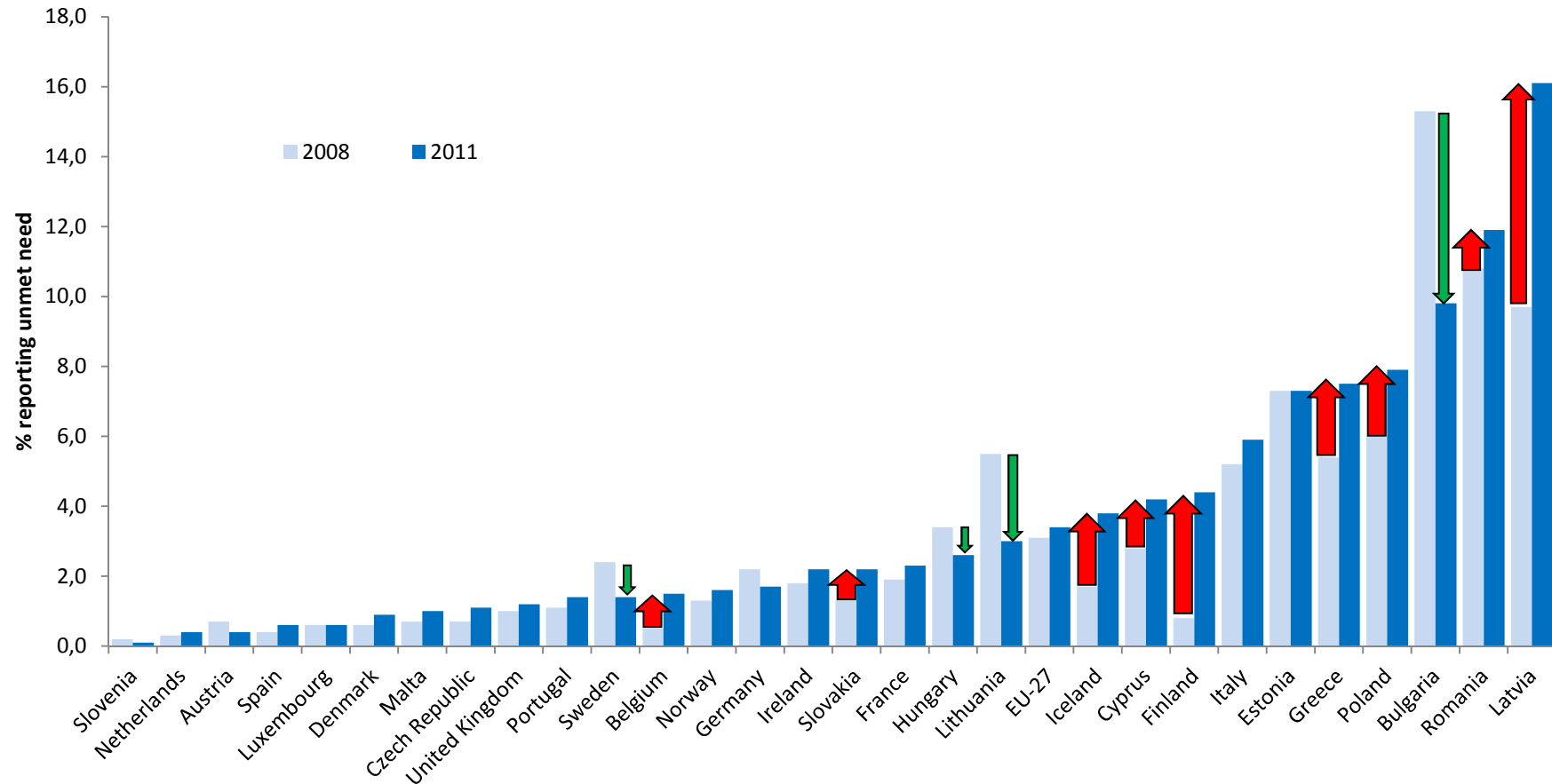
7.2.3. Health expenditure as a share of GDP, 2000-11, selected European countries



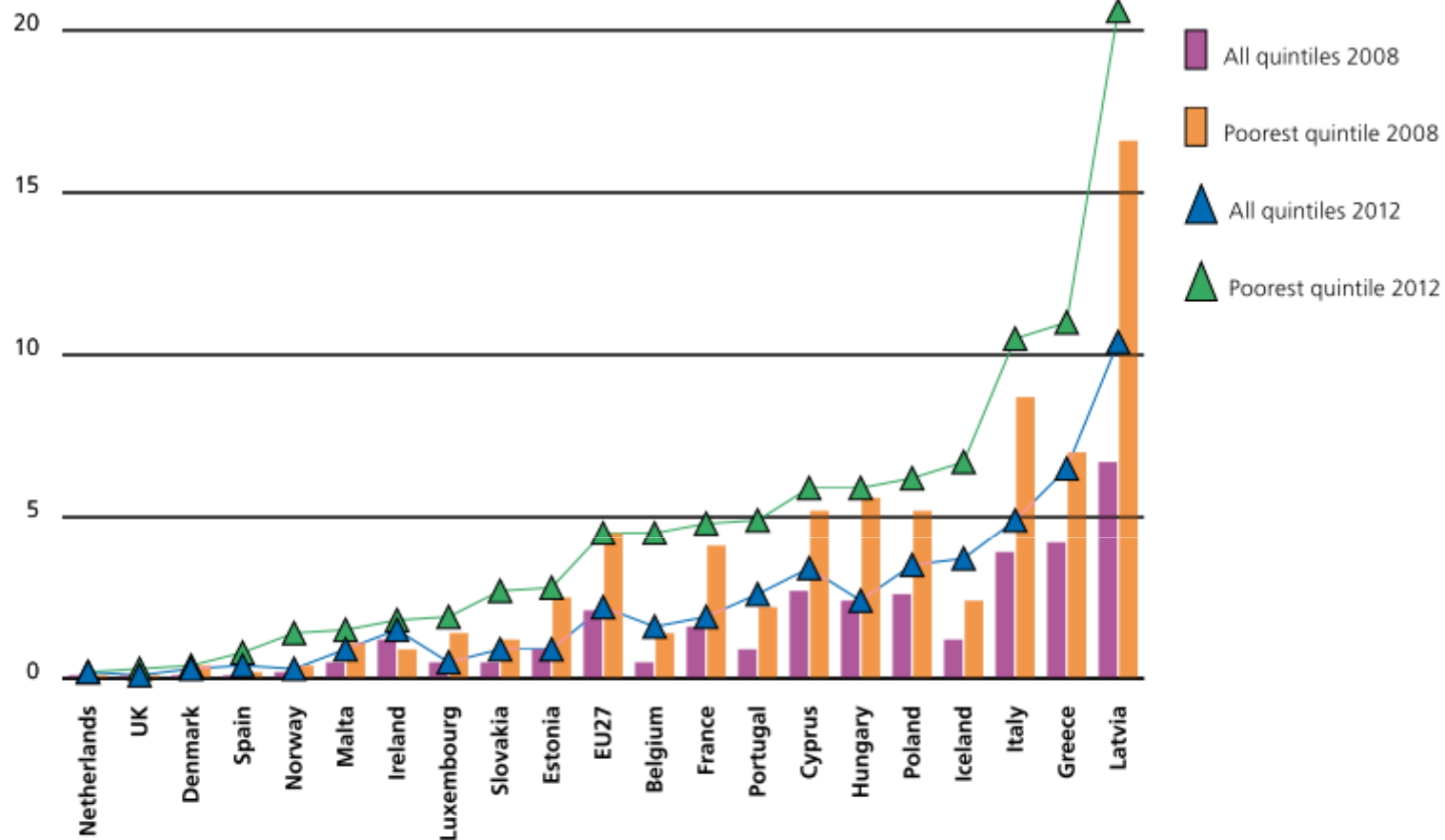
Source: OECD Health Statistics 2013, <http://dx.doi.org/10.1787/health-data-en>.
StatLink <http://dx.doi.org/10.1787/888932918909>

Changes in unmet medical need during crisis

(%) (data from SILC)



Increases in unmet need due to costs



Source: Thomson et al. (2014), based on Eurostat (2014).

Note: Between 2008 and 2012, unmet need for cost reasons did not increase in Austria, Bulgaria, Croatia, Finland, Germany, Lithuania, Romania, Slovenia, Sweden and Switzerland. Data for Ireland are for 2011.

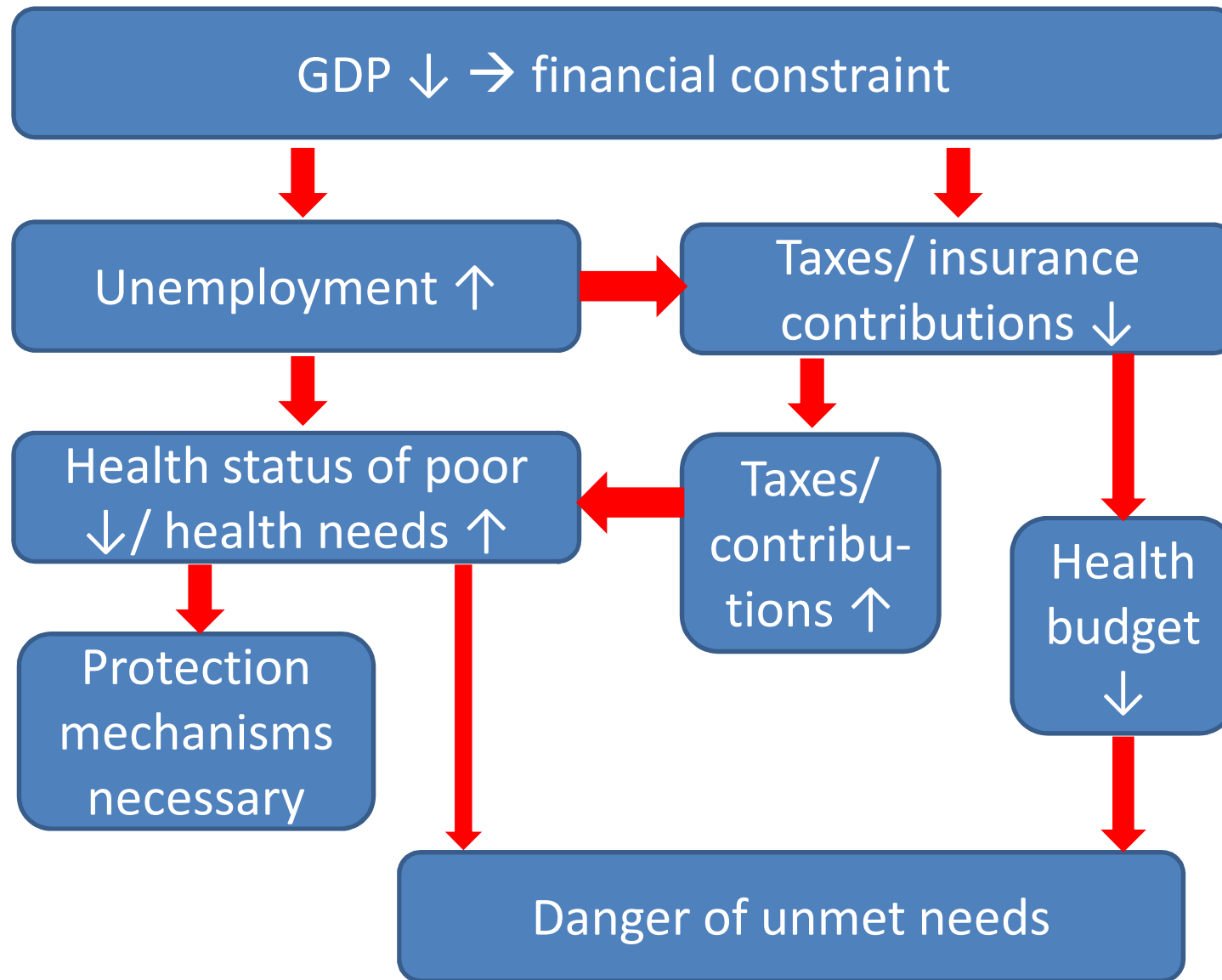
- Countries do not only differ in how good their health systems are, but also how resilient (how prepared for financial constraints/ crises)
- Besides good (or bad) politicians, several factors markedly increase resilience:
 - Strong social networks: membership of trade unions, churches, social clubs
 - A strong welfare state: especially active labour market programmes that get people back into work (or at least give them the message that someone cares)
- Crisis can be bad for health, but its primarily up to us (health politicians & academics) to prepare our health systems better – let's start before the (next) constraint!

Short-term solutions are important to keep the system running during crisis, but...



***...aim for sustainable, resilient &
high-quality systems!***

If not, we may see a vicious circle



HEALTH & FINANCIAL CRISIS MONITOR

This web monitor is an evidence resource engine dedicated to monitoring the effects of the financial crisis on health and health systems. [Read more...](#)



THE HFCM PLATFORM FEATURES THE FOLLOWING SERVICES

IMPACT ON HEALTH & HEALTH SYSTEMS



A structured and guided tour into the evidence with systematic descriptions of the impacts on population health and health systems as well as of the countries' policy responses.

SEARCHABLE DATABASE



Search our database for journal articles from Medline and key reports from international organizations and institutions.

NEWS

Tweets

Follow

European Observatory 20 Nov
@OBSfincrisis

Paper unpicking causes of HIV outbreak among IDUs in Greece
plosone.org/article/info%3...

Show Summary

European Observatory 20 Nov
@OBSfincrisis

#healthforumLT @aaronreeves: although

Tweet to @OBSfincrisis

ABOUT THE OBSERVATORY

The European Observatory on Health Systems and Policies supports and promotes evidence-based health policy-making through comprehensive and rigorous analysis of the dynamics of health care systems in Europe.

ABOUT THE EASP

The Andalusian School of Public Health (EASP) is a publicly-owned entity that offers services in training, consultancy, research and international co-operation in the fields of public health and health services management.

ABOUT THE HFCM

The Health & Financial Crisis Monitor (HFCM) has been established by the European Observatory on Health Systems and Policies in collaboration with the Andalusian School of Public Health.


POLICY SUMMARY 12

Economic crisis, health systems and health in Europe: impact and implications for policy

Sarah Thomson, Josep Figueras, Tamás Evetovits, Matthew Jowett, Philipa Mladovsky, Anna Maresso, Jonathan Cylus, Marina Karanikolos and Hans Kluge




2015



World Health Organization
REGIONAL OFFICE FOR Europe

Health, Health Systems and Economic Crisis in Europe

Implications for health system performance

Edited by
Sarah Thomson,
Josep Figueras
Matthew Jowett,
Tamás Evetovits,
Philipa Mladovsky,
Anna Maresso,
Hans Kluge

Presentation available at:

www.mig.tu-berlin.de

www.healthobservatory.eu

