



OECD MODELLING WORK ON PUBLIC HEALTH: CONTRIBUTION TO THE FORESIGHT PROJECT

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FRESHER a Tool to Look into the Future, or Alternative Futures

How healthy will we be in 2050?

The FRESHER project aimed to represent **alternative futures** for Europe where the detection of emerging health scenarios is used to **test future policies** to effectively tackle the burden of NCDs.

Future health scenarios accounted for **structural long-term trends in demography, technology, economic, environmental, and societal factors** up to 2050.

Imperial College
London

Aix*Marseille
université



TERVEYDEN JA
HYVINVOINNIN LAITOS
National Institute for Health and Welfare

Instituts
thématiques **Inserm**
Institut national
de la santé et de la recherche médicale

epra **europa**
european
public health
alliance

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY
TOMORROW TODAY



ggen
UniversidadeVigo

Fourth View
CONSULTING



Innovation for sustainability
ISI/NOVA



FRESHER

FORESIGHT AND MODELLING FOR
EUROPEAN HEALTH POLICY AND REGULATION



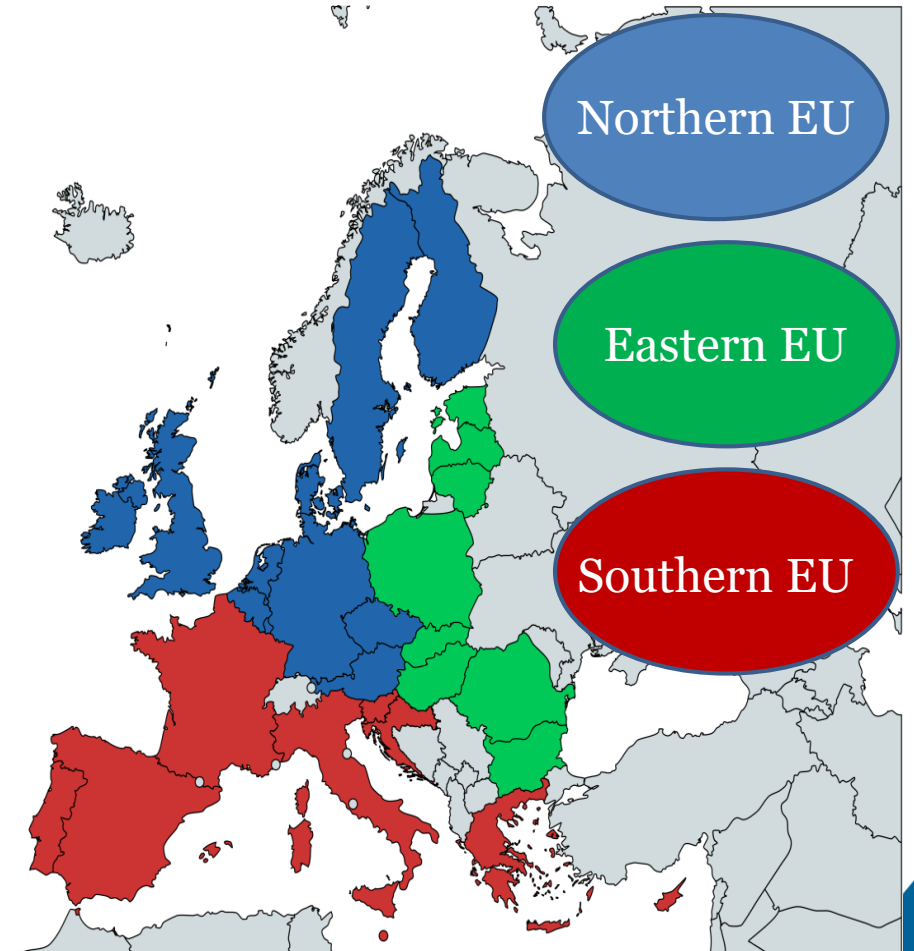
Some Specificities of the FRESHER Project

FRESHER is based on the combination of quantitative and qualitative techniques:

- Horizon scanning
- Expert opinion and consensus-building techniques
- Microsimulation modelling

Modelling used to carry out:

- Baseline projections (business as usual)
- Scenario projections
- Assessment of policy interventions





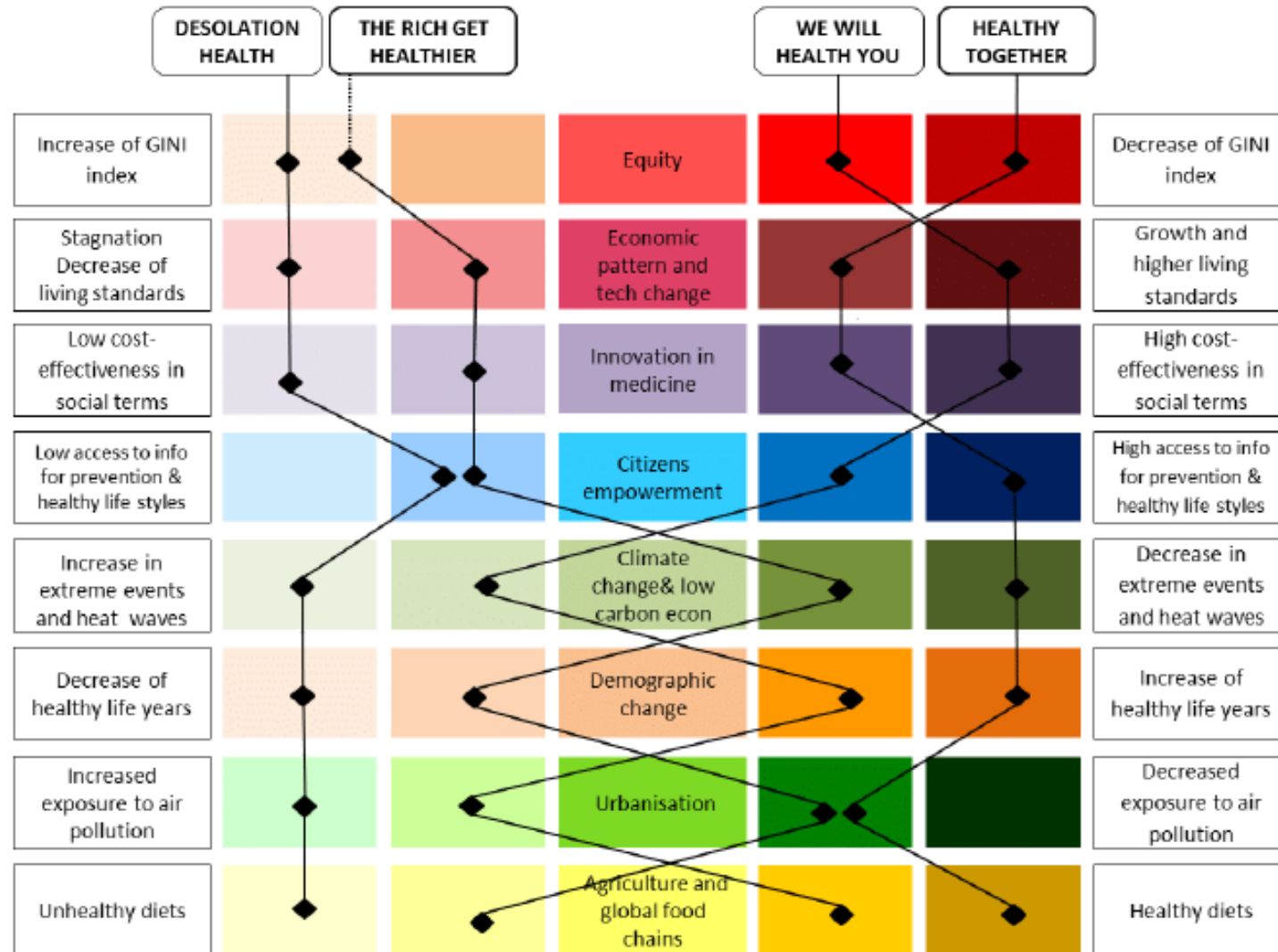
Eight Key Trends will Shape Health in Europe

Results of the Horizon Scanning work

- Inequalities
- Productivity and economic growth
- Innovation in medicine and public health
- Citizen empowerment
- Climate change and decarbonisation
- Demographic trends and migration
- Urbanisation
- Agriculture and global food chains



4 Potential Future Scenarios Were Elaborated on 8 Trends, Based on Expert Opinion and Data






























Experts Predicted the Risk Factors Evolution in the 4 Scenarios

Expert's consultation, 2017

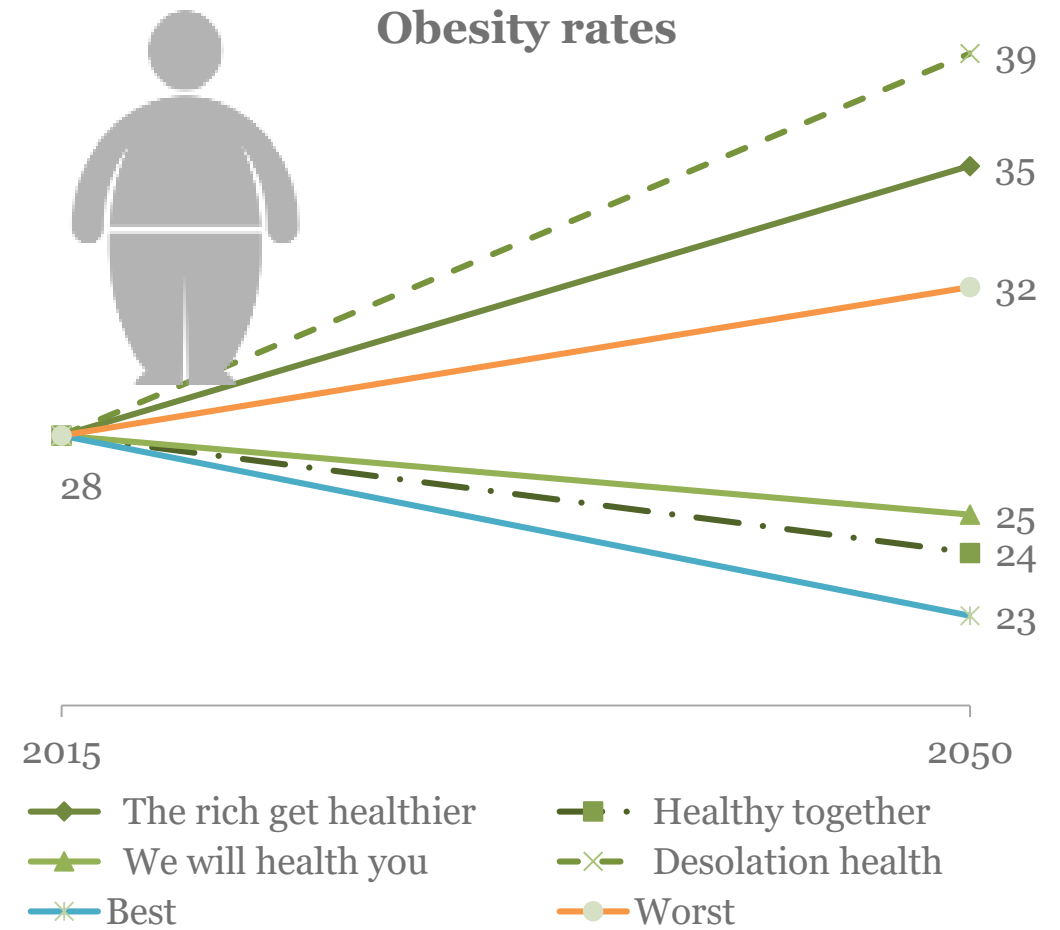
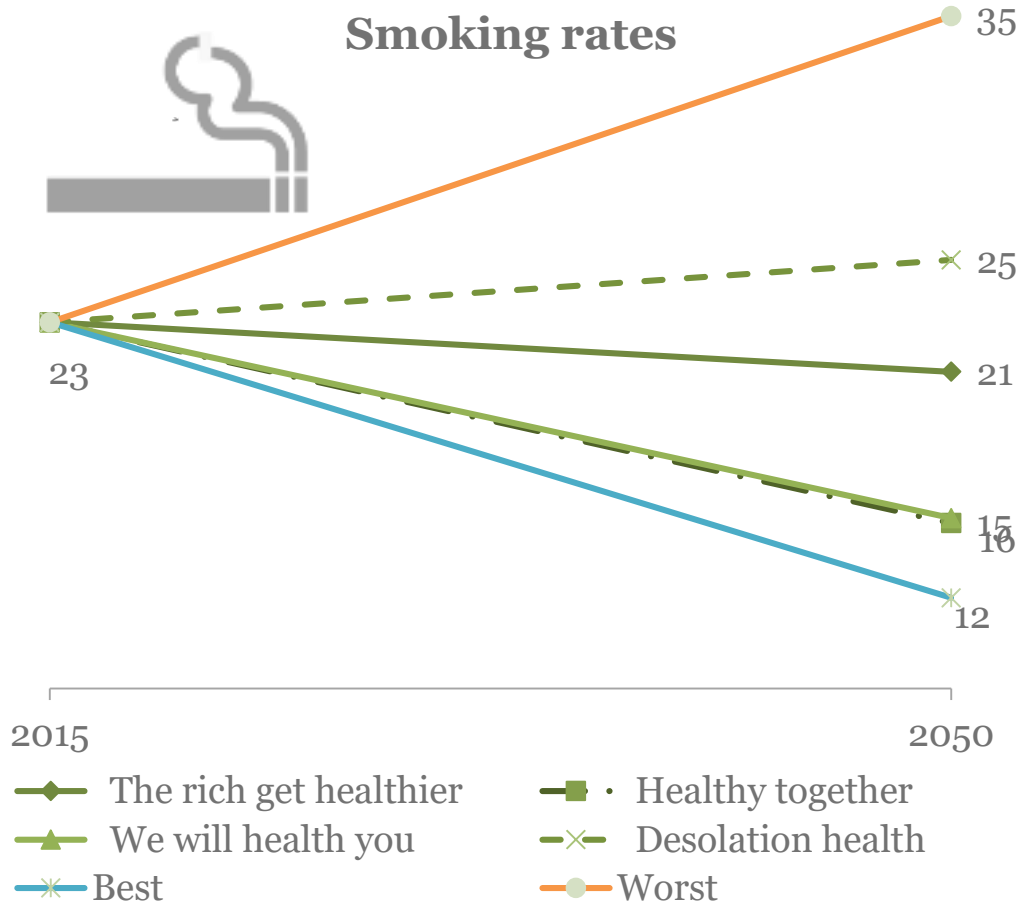
For each scenario: Expert's prediction of the level of risk factors in 2050

91 valid answers (average)

	The Rich Get Healthier	Healthy Together	We Will Health You	Desolation Health
 Obesity				
 Inactivity				
 Smoking				
 Drinking				
 Hypertension				

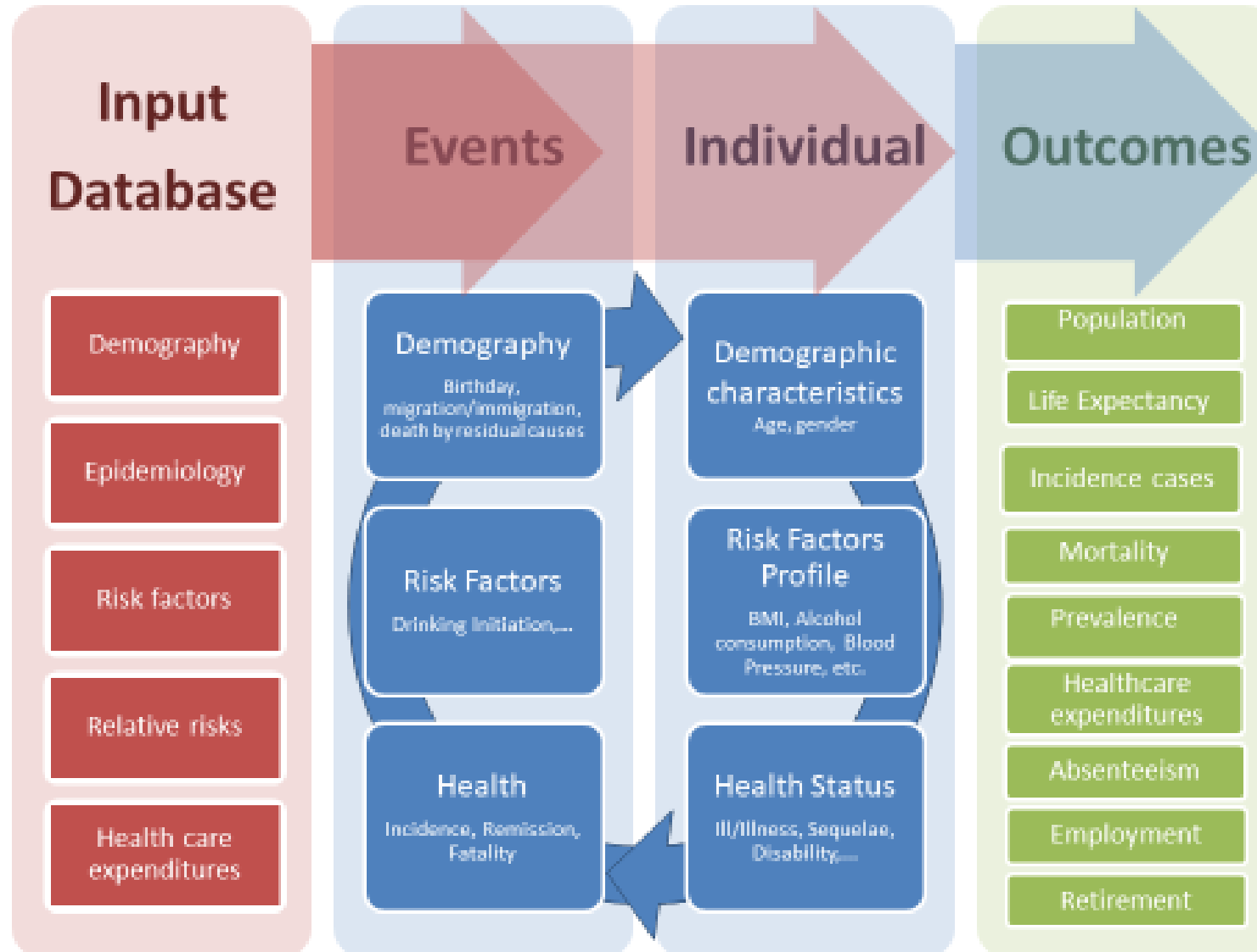


Expert's evaluation of risk factors in the 4 scenarios





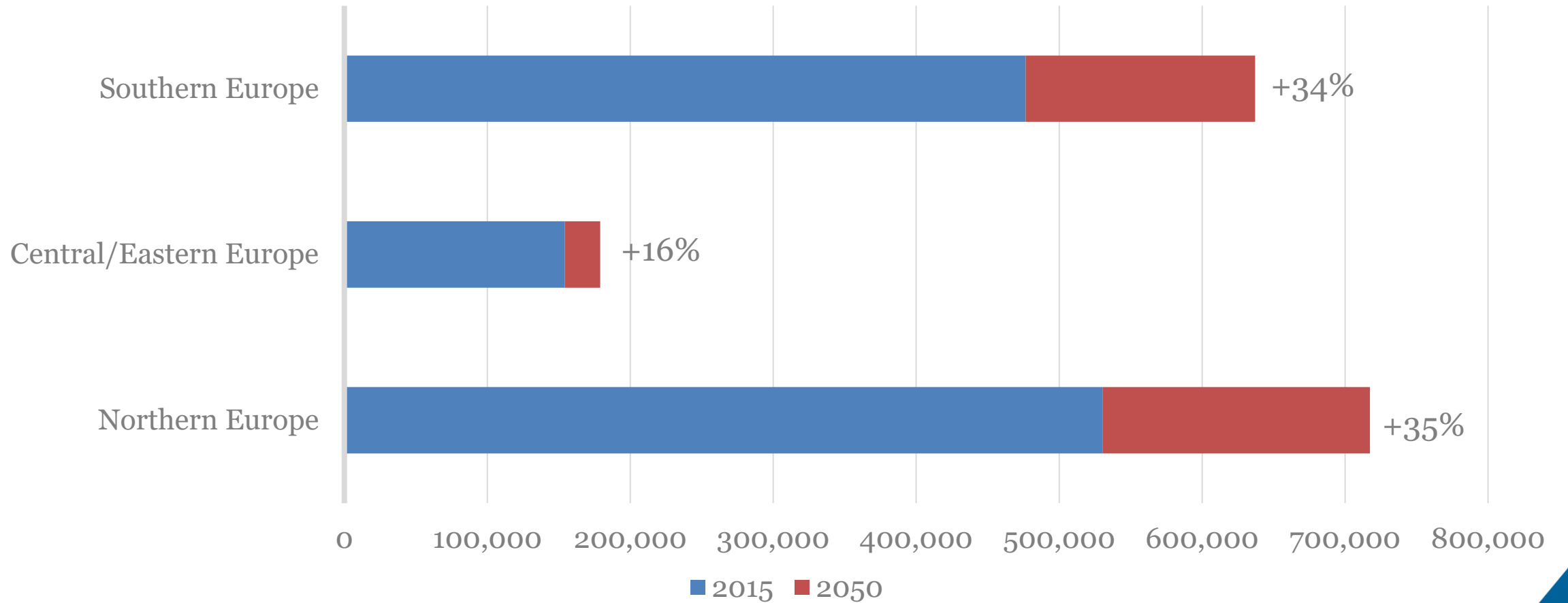
The OECD SPHeP-NCDs model





372,000 MORE CASES OF CANCER IN EUROPE

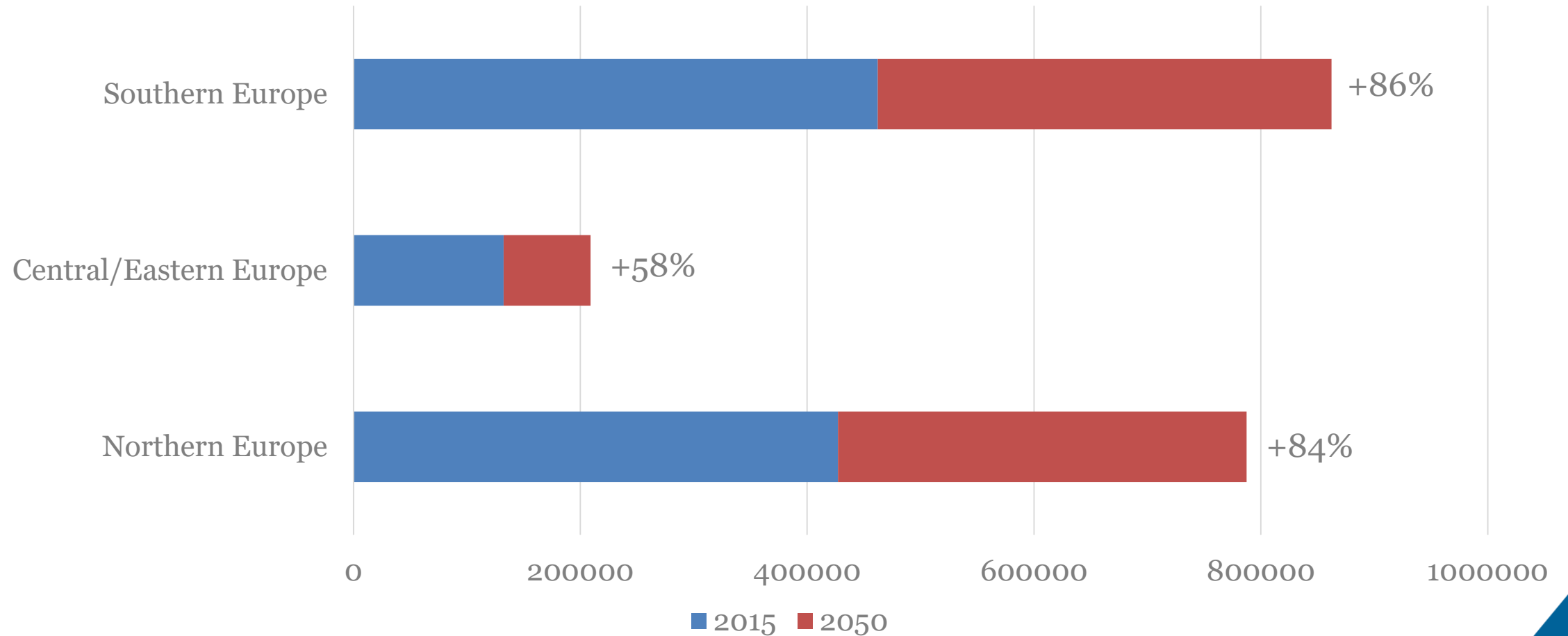
Cases of cancer due to population ageing





837,000 MORE CASES OF DEMENTIA IN EUROPE

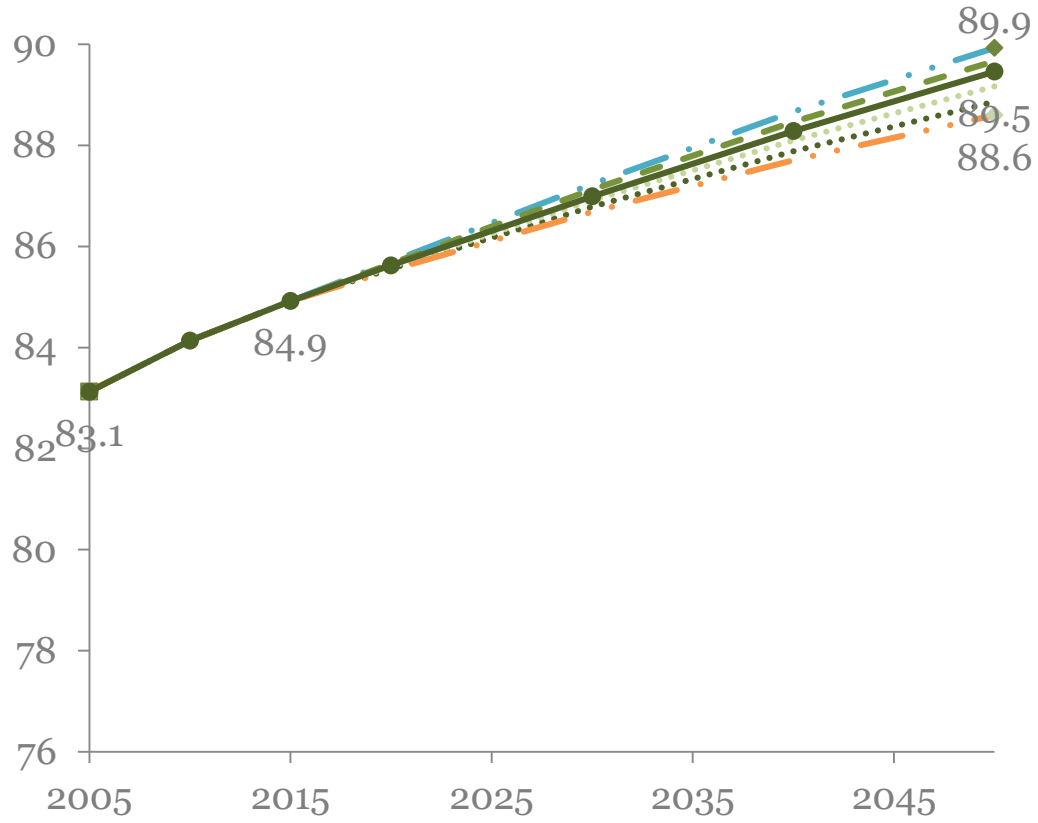
Cases of dementia due to population ageing



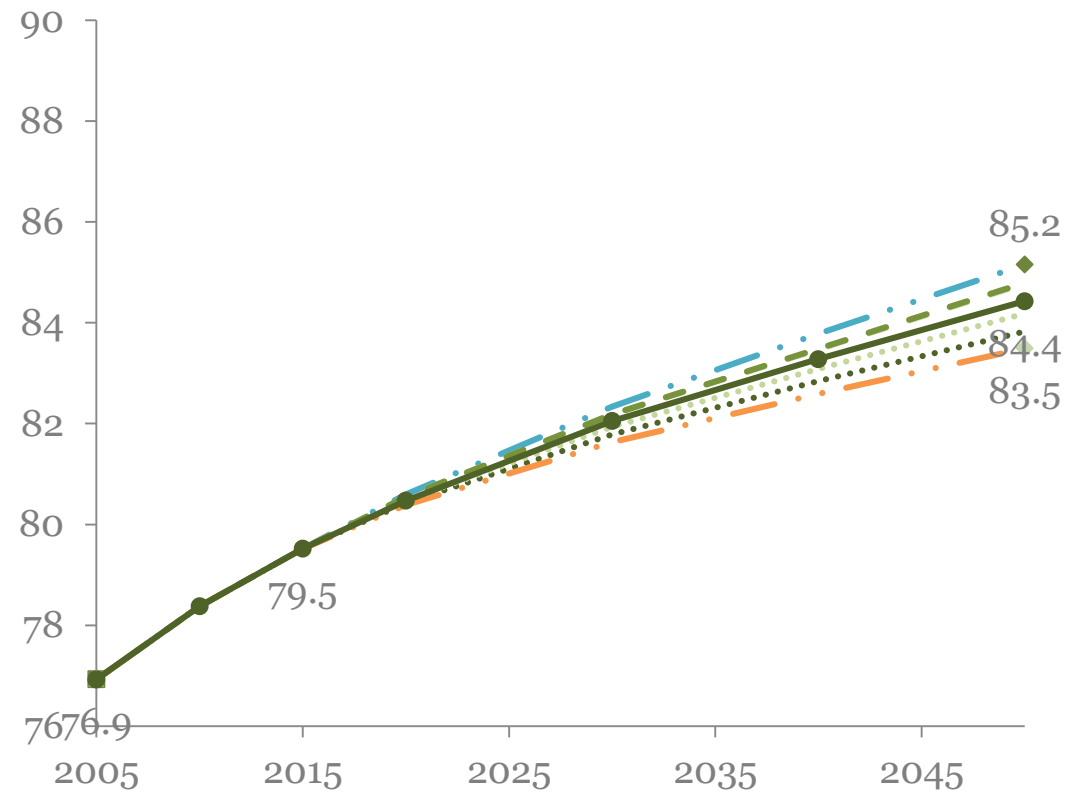


Societal Trends May Bend the Life Expectancy Curve

Women



Men

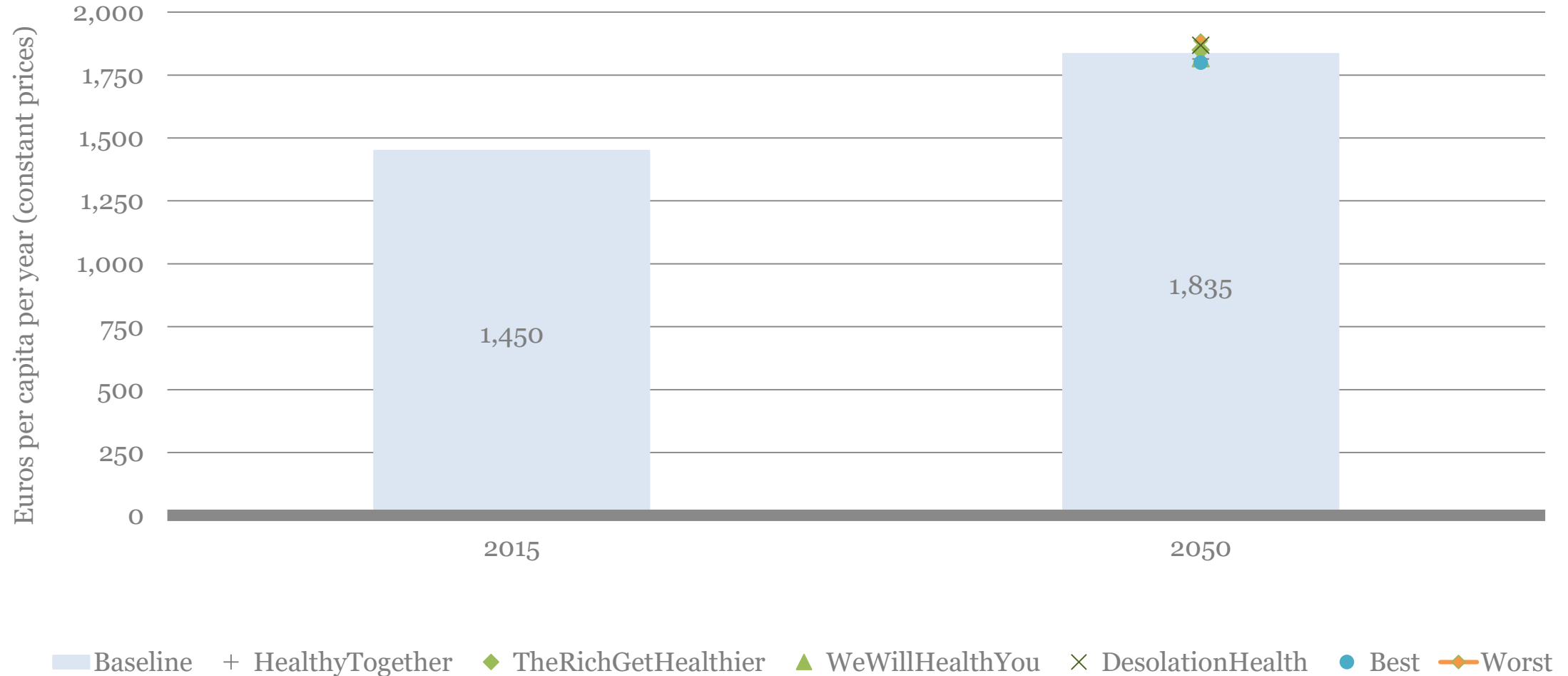


- Best
- TheRichGetHealthier
- HealthyTogether
- Baseline (demography only)
- DesolationHealth
- WeWillHealthYou
- Worst

- Best
- TheRichGetHealthier
- HealthyTogether
- UN Projection
- DesolationHealth
- WeWillHealthYou
- Worst

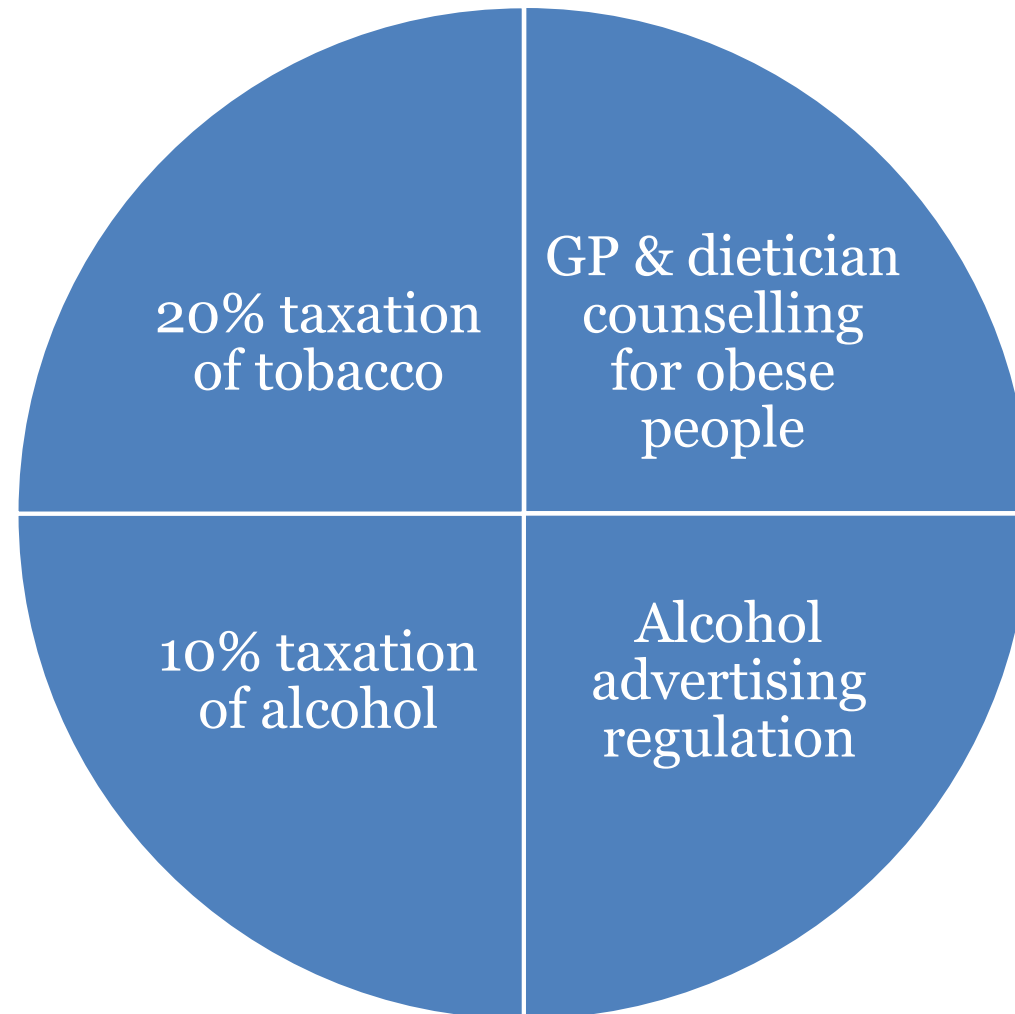


A 27% INCREASE IN HEALTH CARE EXPENDITURE





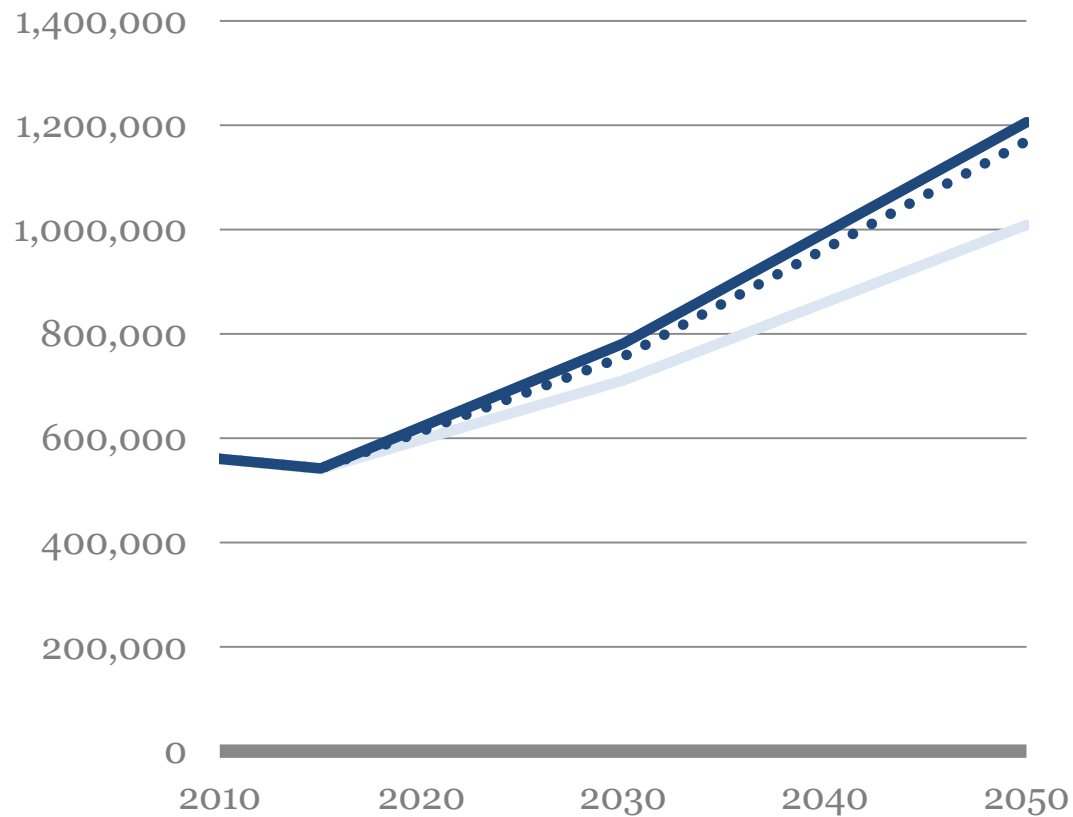
A Set of Effective and Evidence-based Interventions to Tackle Major NCDs



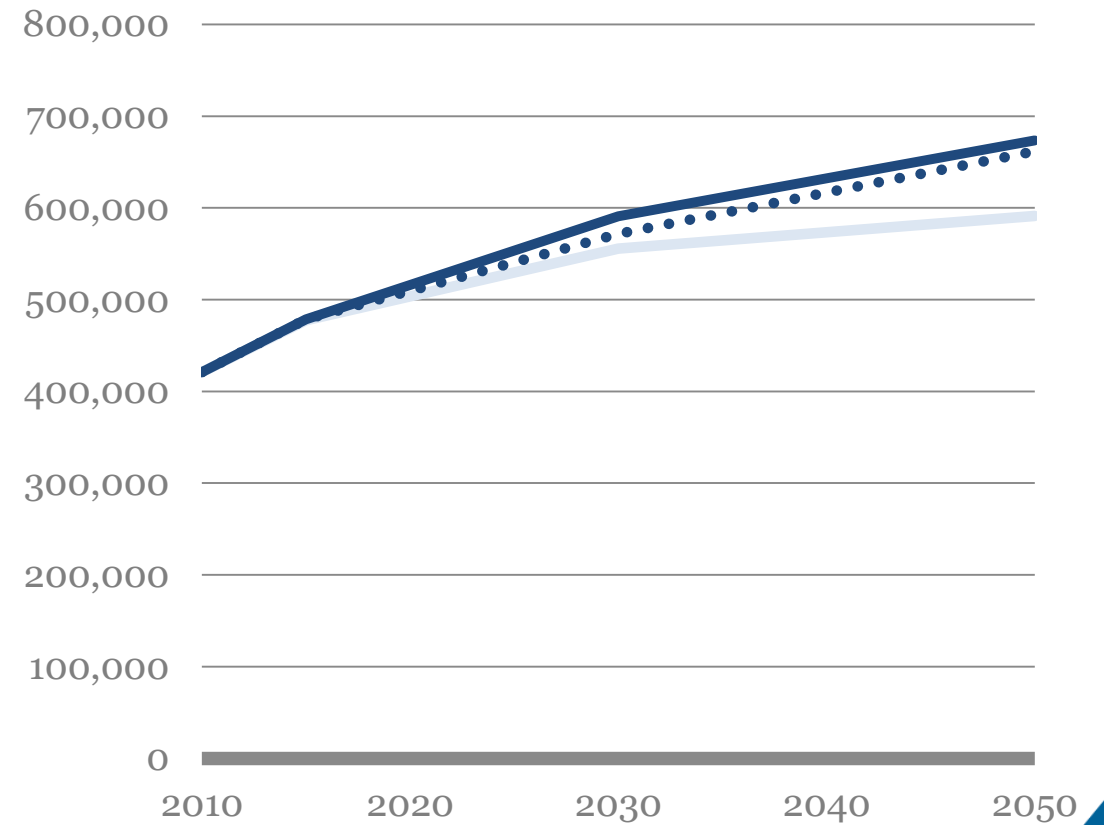


How Far Can Current Policies Take Us?

CVDs



Cancers



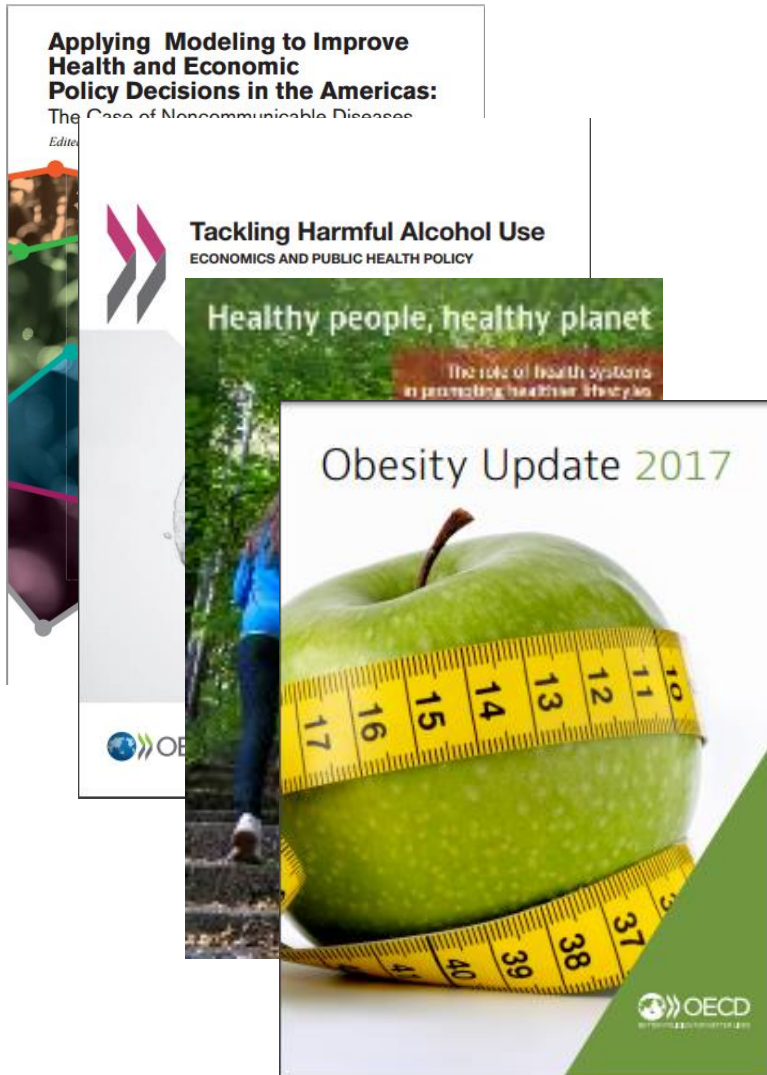
— HealthyTogether

— TheRichGetHealthier

..... TheRichGetHealthier + policy package



OECD Work to Trigger Policy Change



- Fit not Fat II , forthcoming
- Applying modelling to improve health and economic policy decisions in the Americas
- Obesity Update 2017
- Health people, healthy planet – The role of health systems in promoting healthier lifestyles and a greener future
- Tackling harmful alcohol use
- Our papers on peer-reviewed academic journals
- OECD Health working papers