

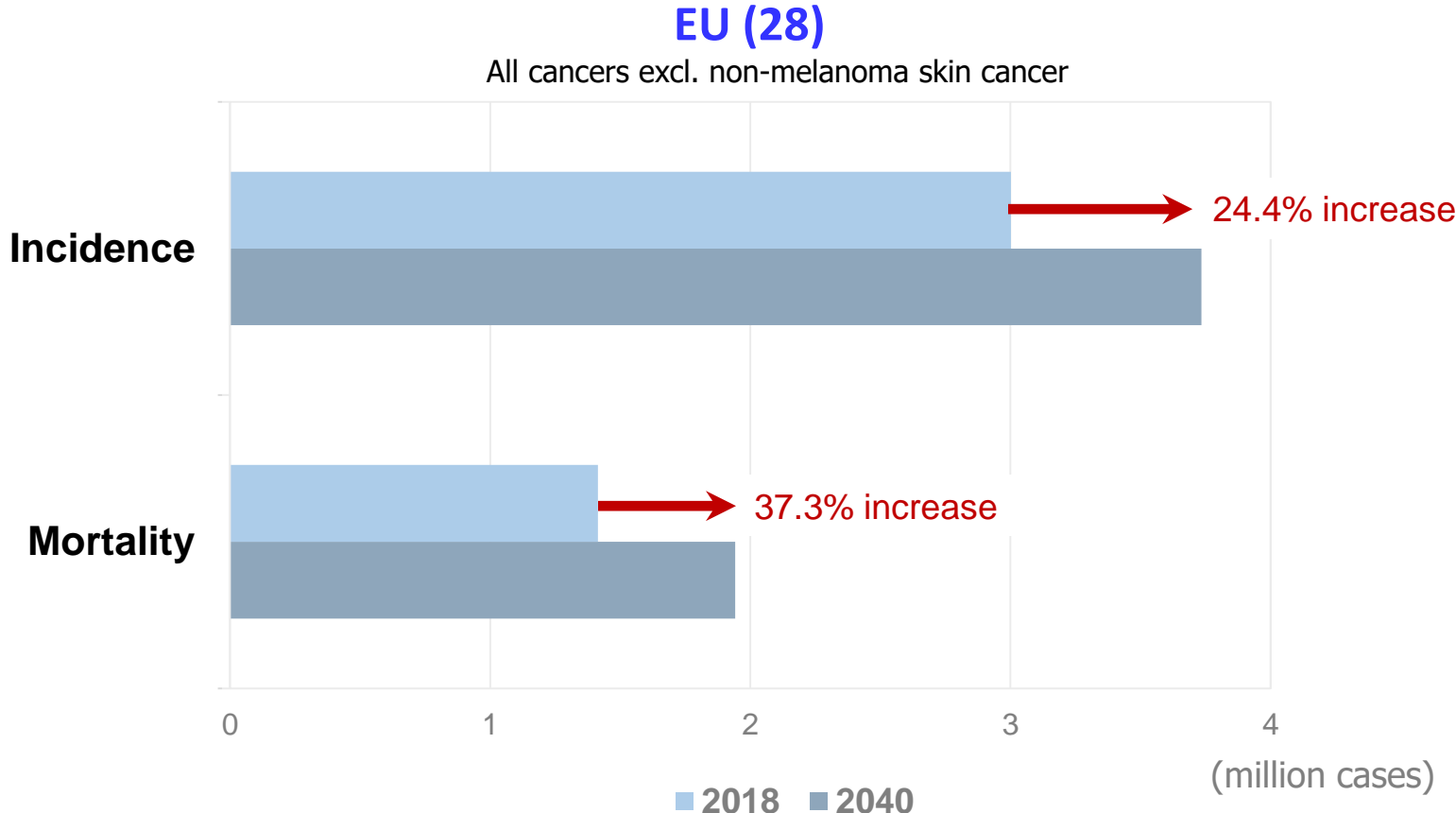


# Incidence – Prevalence in aging

Joachim Schüz

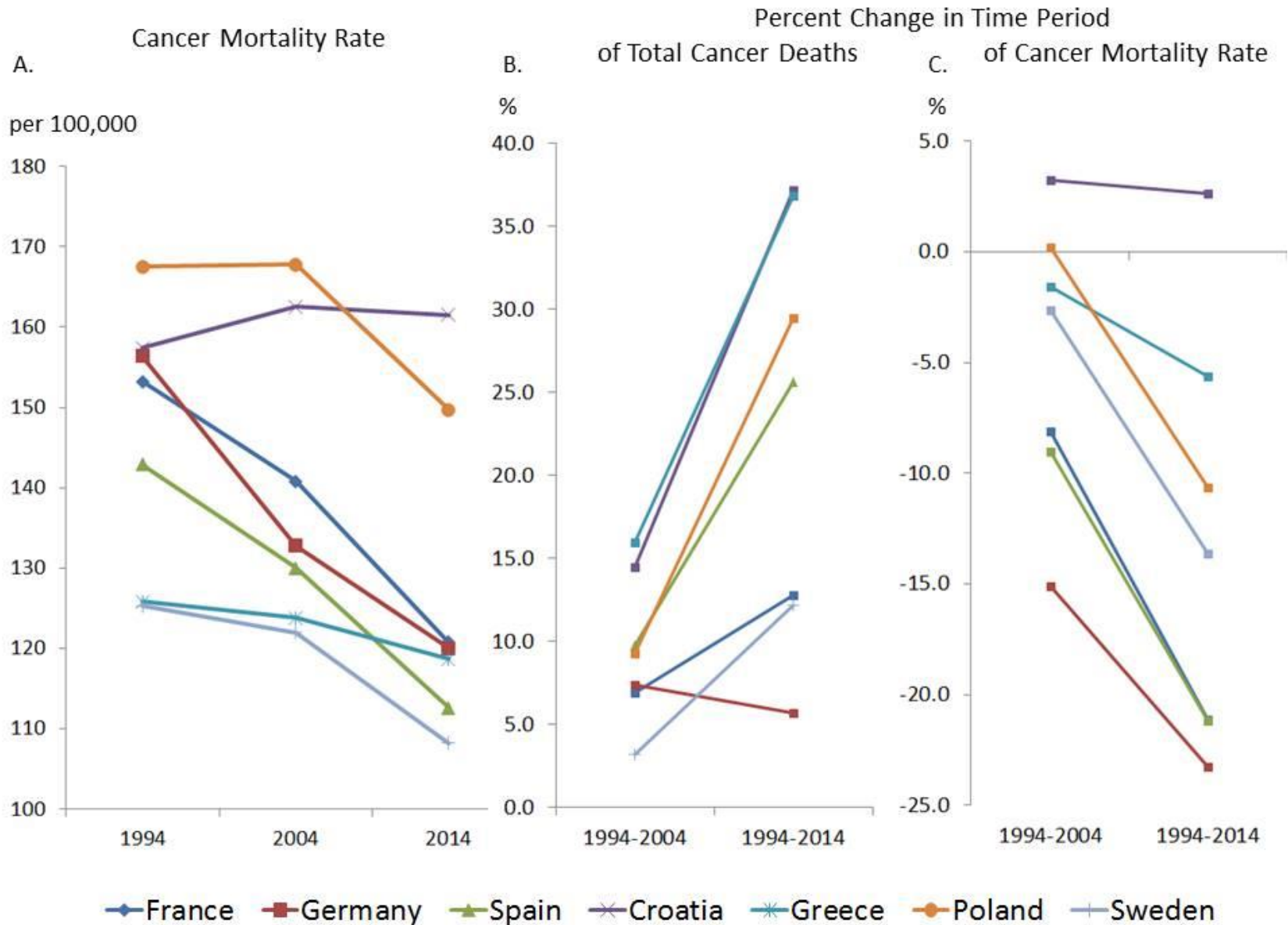
International Agency for Research on Cancer,  
Head, Section of Environment and Radiation  
Chair of Cancer Prevention Europe Scientific Secretariat  
Lyon, France

# The need for cancer prevention: facing the projected health burden



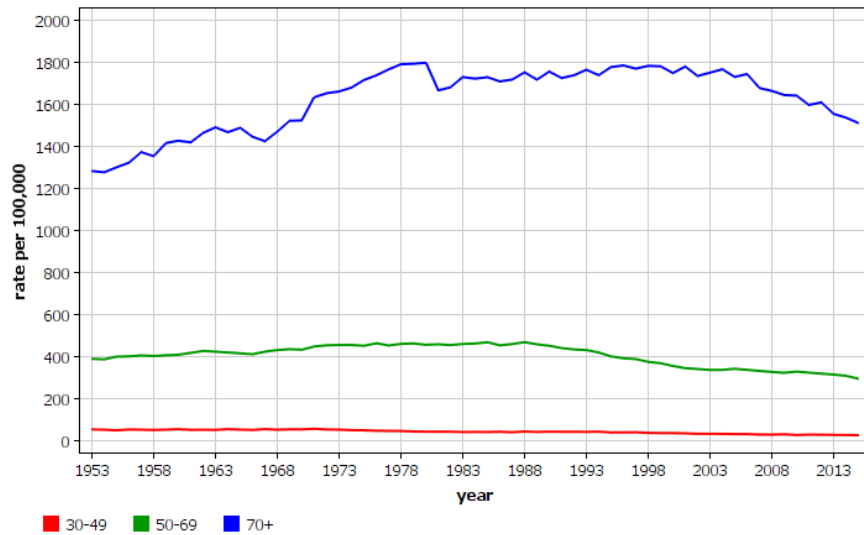
*Assuming no change in underlying incidence*

# Trends in cancer mortality

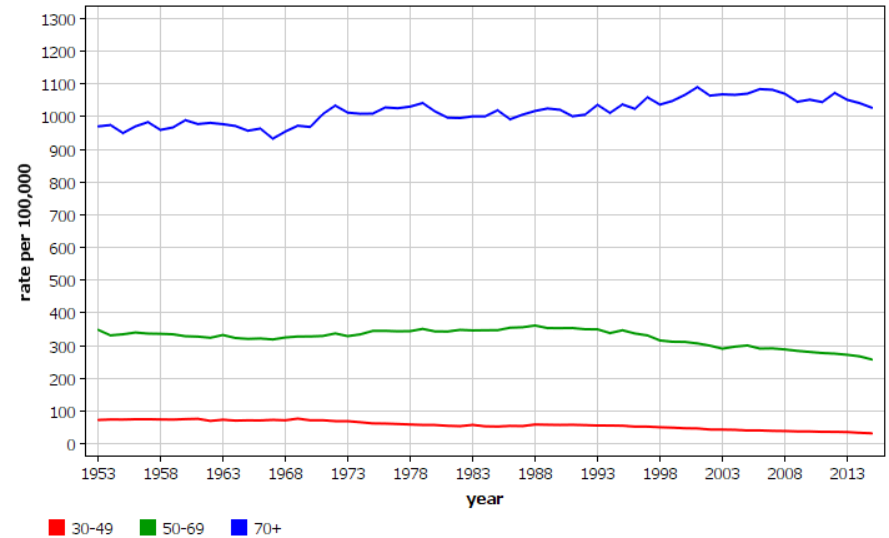


# Cancer mortality in the elderly

Mortality: Nordic countries  
All sites but non-melanoma skin cancer, Male



Mortality: Nordic countries  
All sites but non-melanoma skin cancer, Female



NORDCAN © Association of the Nordic Cancer Registries (18.9.2018)

NORDCAN © Association of the Nordic Cancer Registries (18.9.2018)

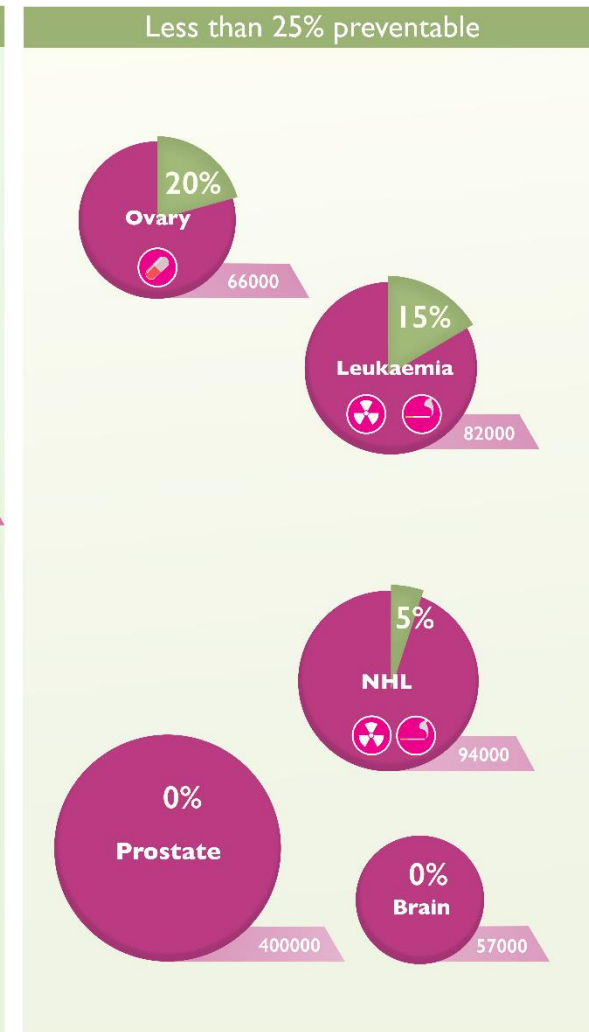
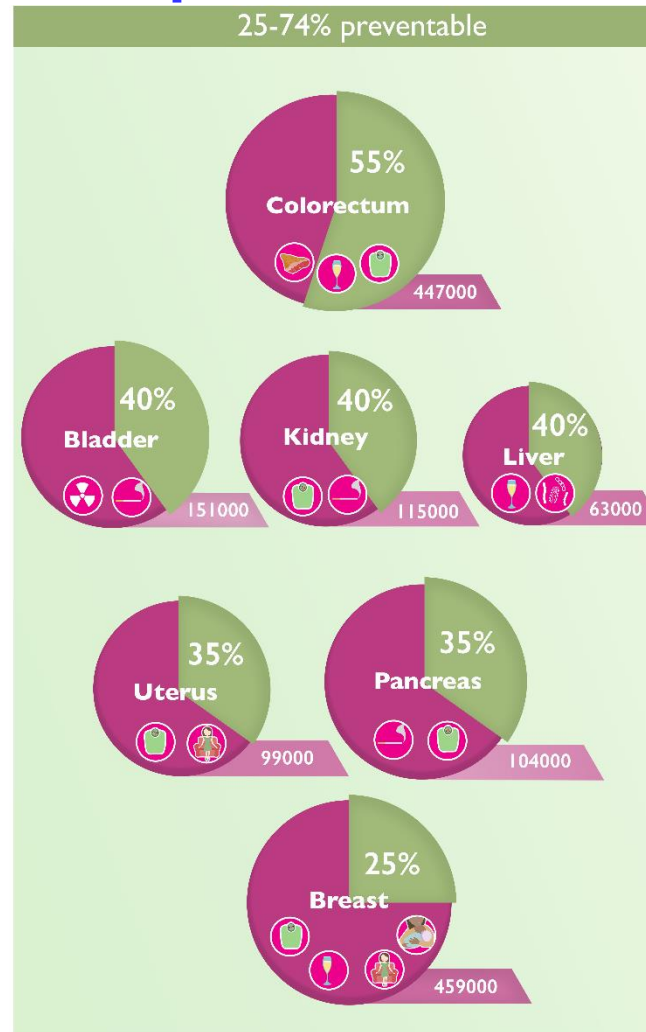
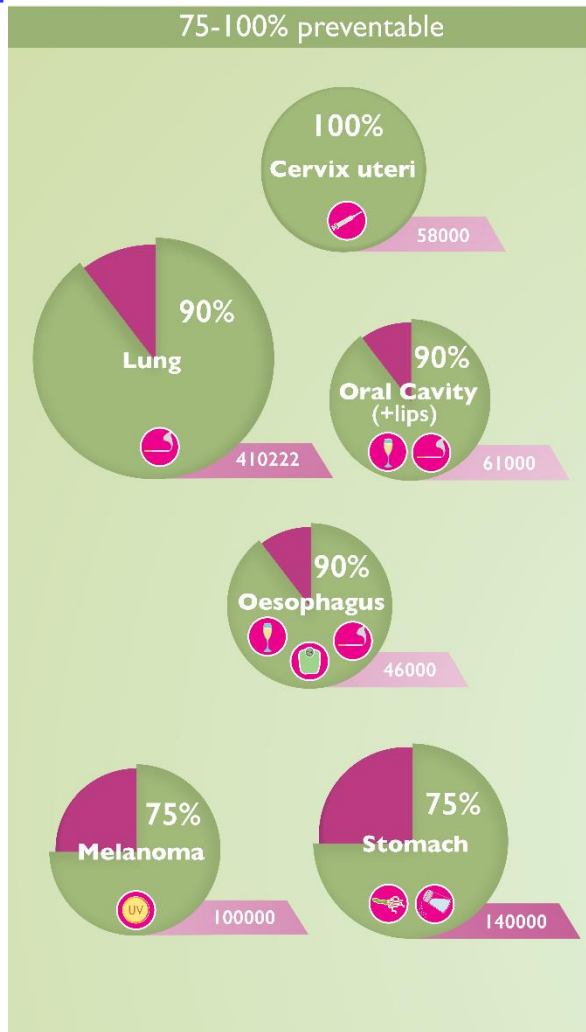
30-49 years    50-69 years    70+ years

# The need for cancer prevention: facing the economic burden

*No country can afford to treat its  
way out of the cancer problem*

- **Economic burden** in the 27 EU countries in 2009<sup>1</sup>:
  - €126 billion in total
  - Health care €51 billion; Productivity losses and lost working days €52 billion; Informal care €23 billion

# Cancer prevention: the potential for primary prevention in Europe



International Agency for Research on Cancer



**Cancer Type**
**% Preventable\***
**Prevention intervention / risk factors**
**Numbers of cancers in Europe**

\*Preventability estimates are for UK

2012 incidence estimates

# 4<sup>th</sup> Edition European Code Against Cancer

International Agency for Research on Cancer



European Code Against Cancer



HOME

12 WAYS

ABOUT CANCER

SCIENTIFIC JUSTIFICATION

ABOUT THE CODE

## European Code Against Cancer

12 WAYS TO REDUCE YOUR CANCER RISK

You are here: 12 ways



FIND OUT MORE ABOUT THE 12 RECOMMENDATIONS:



TOBACCO



SUN/UV EXPOSURE



SECOND-HAND SMOKE



POLLUTANTS



HEALTHY BODY WEIGHT



RADIATION



PHYSICAL ACTIVITY



BREASTFEEDING



DIET



HORMONAL THERAPY



ALCOHOL



VACCINATION AND INFECTIONS



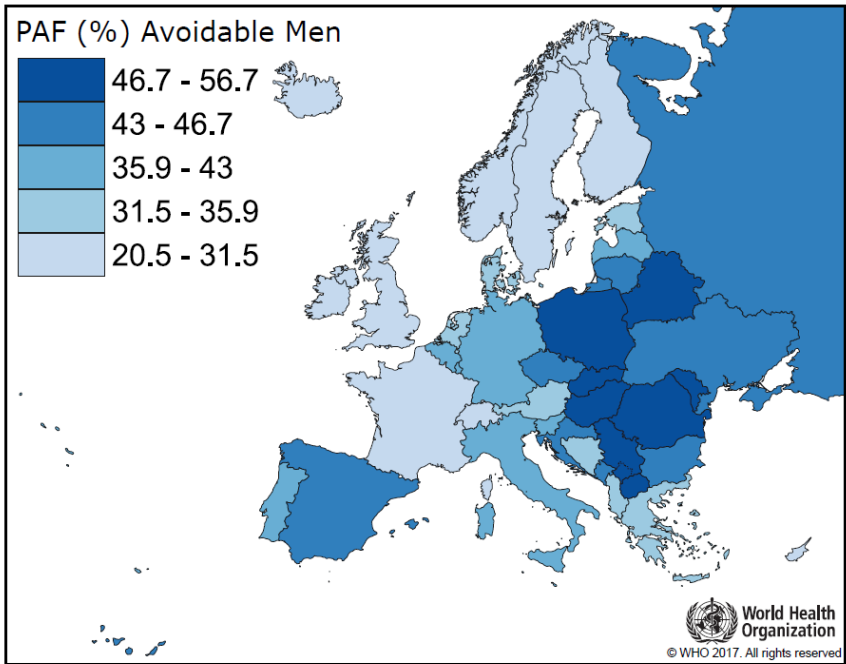
SCREENING

International Agency for Research on Cancer

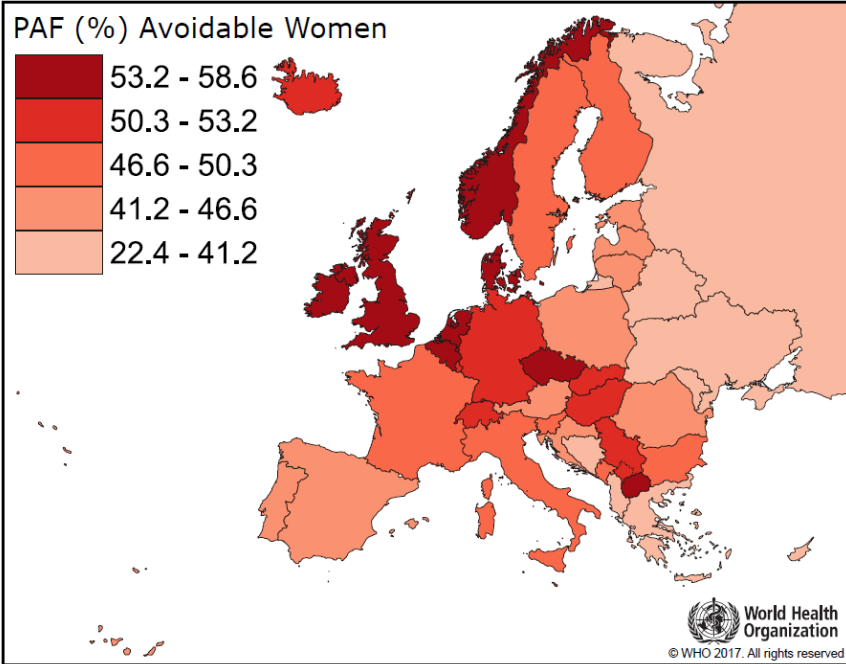


<http://cancer-code-europe.iarc.fr/index.php/en/>

# Avoidable fraction of cancers: six major risk factors



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.



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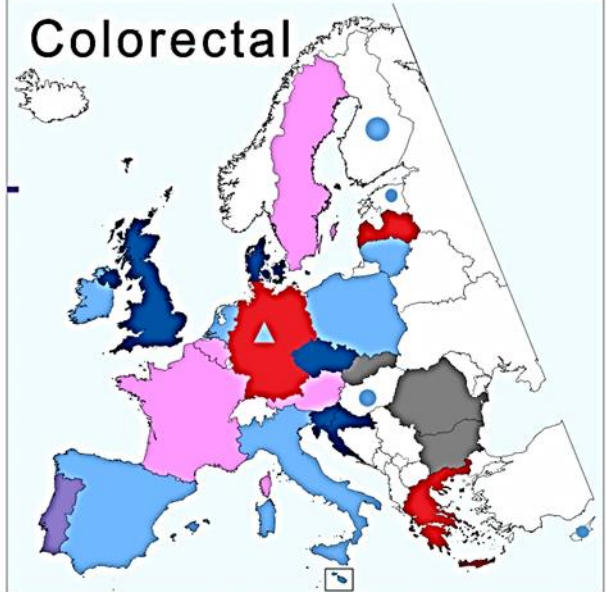
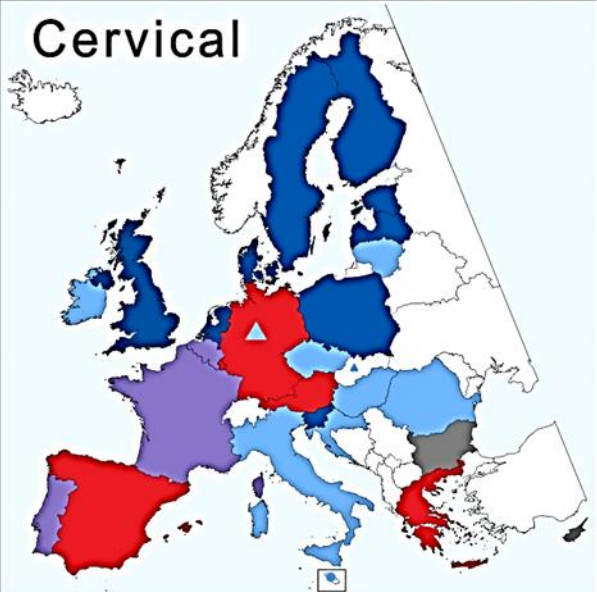
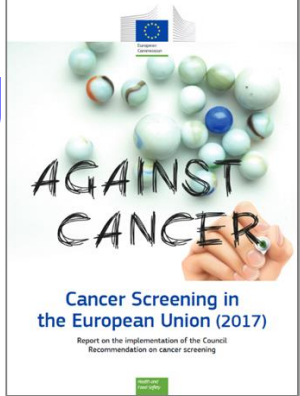
39% preventable

48% preventable

*smoking, alcohol, diet, BMI,  
physical inactivity, UV*



# Status of implementation of cancer screening programmes in the 28 EU Member States



<p><b>Population-based programmes</b></p> <ul style="list-style-type: none"> <li><span style="color: darkblue;">■</span> Rollout complete</li> <li><span style="color: lightblue;">■</span> Rollout ongoing</li> <li><span style="color: blue;">●</span> Piloting</li> <li><span style="color: blue;">▲</span> Planning</li> </ul>	<p><b>Population-based, Regional</b></p> <ul style="list-style-type: none"> <li><span style="color: pink;">■</span> Rollout complete</li> <li><span style="color: purple;">■</span> Rollout ongoing</li> </ul>	<p><b>Non-Population-based programmes</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">■</span></li> </ul>	<p><b>No programme</b></p> <ul style="list-style-type: none"> <li><span style="color: grey;">■</span></li> </ul>
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# Cancer Prevention Europe: a shared mission

- Research into **optimising implementation** of known preventive interventions; “return on investment”
- **Dissemination and research translation** to inform policy and practice
- **Innovation in identifying risk factors and novel targets** for prevention
- **More cooperation and added value among European countries:**
  - With long-term vision and dedicated agenda
  - More effective coordination and implementation of research
  - Sustainable and shared infrastructures
  - Shared capacity for research training and quality improvement
  - “Beyond research” – evaluation, advocacy, dissemination

# Cancer Prevention Europe: the community (where are the centres of excellence?)

- **Includes many professional domains:** *epidemiology, public health, cancer registries, clinical science, general practice, health services, health psychology, social sciences, implementation science, high-technology education and e-learning, basic and applied laboratory sciences*
- **Found in many settings:** *institutes of public health, universities and primary care settings in addition to those within the specialised cancer centres/institutes*
- Complementary to and collaborative with  
**Comprehensive Cancer Centres**

# Cancer Prevention Europe: consortium members

## CORE MEMBERS

IARC (Secretariat)

Danish Cancer Society

Karolinska Institute

University of Stirling & CRUK

Imperial College

UK Translational Cancer Prevention Network

German Cancer Research Center

European Institute of Oncology

Wageningen University & WCRF

\*The Maria Skłodowska Curie Memorial Cancer  
Centre and Institute of Oncology

Consortium  
Agreement has  
now been signed,  
including annual  
financial  
commitment

**OPEN TO NEW PARTNERS!**

International Agency for Research on Cancer

# Conclusions

- Cancer prevention is **vital to cancer control** in the coming decades but is neglected
- Cancer prevention **research is under-funded**, fragmented and lacks strategic vision
- A **strategic plan for cancer prevention is required** encompassing research, planning, implementation and evaluation
- Cancer Prevention Europe can provide a **rallying point for diverse stakeholders** to shape the future cancer prevention agenda
- Partners for Cancer Prevention Europe needed