

## EC Knowledge Centre on Cancer

**European Commission** – Joint Research Centre Directorate F – Health, Consumers and Reference Materials

SGPP Sub-group Meeting, 03 May, 2021

Joint Research Centre

# Cancer: the primary cause of death for Europeans under 65

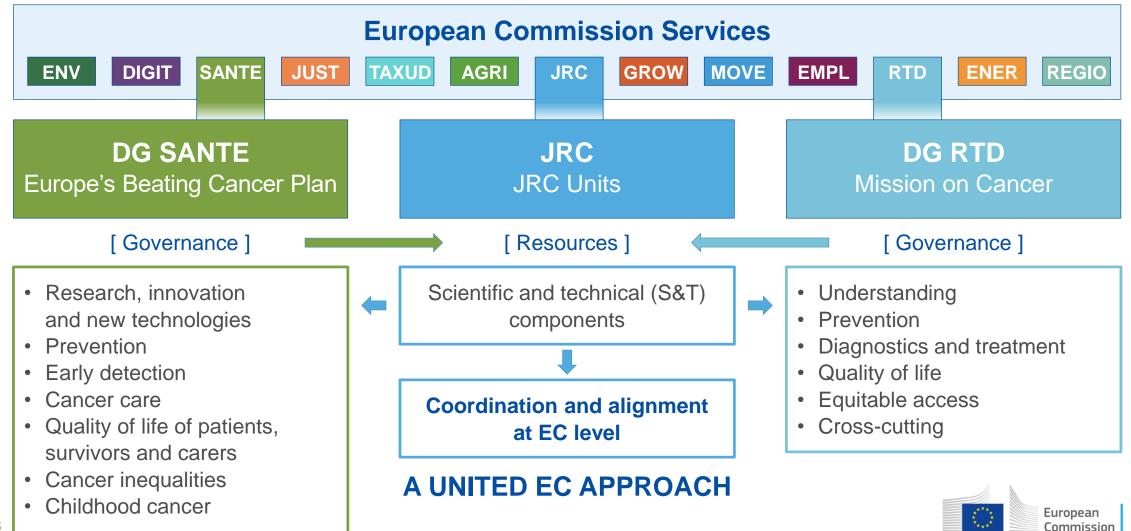
- 2.7 million new cases and 1.3 million deaths estimated for 2020 in the EU
- 1 in 2 people estimated to develop cancer and 1 in 5 to die because of cancer in the EU
- Cancer cost to the EU almost €97 billion in 2018

Up to 40% of cancers can be prevented

The European Union needs coordinated actions in the fight against cancer: EC Knowledge Centre on Cancer



## Cancer-related work in the European Commission



3

## Why the Joint Research Centre (JRC)?

- **Independent** of commercial, private, and national interests
- Provides politically neutral, evidence-based knowledge
- Proven track record in cancer prevention, screening, diagnosis and care
- Proven track record in cancer data, information and knowledge
- Scientifically and technically embedded in the Europe's Beating Cancer Plan and the new Mission on Cancer
- Collaborates with >1,000 external organisations, including all main cancer organisations and societies



## Roles of the EC Knowledge Centre on Cancer

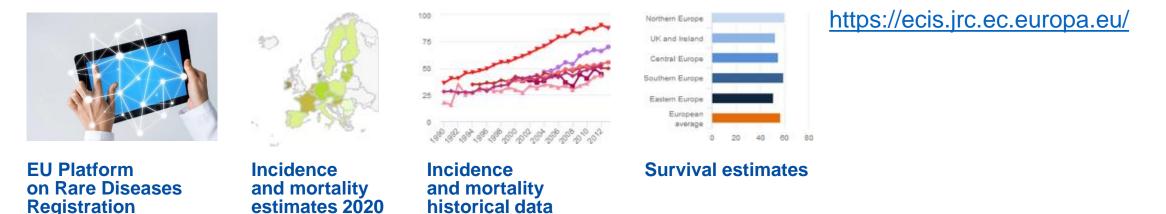
- Expand the European Cancer Information System which is THE reference point for monitoring the burden of cancer in Europe
- Develop and provide European Guidelines and Quality Assurance schemes for cancer prevention, screening, diagnosis, treatment and care
- Evidence-clearing house (via the Knowledge Gateway and Best Practices) for Cancer Prevention policies
- An **independent data broker**, fostering interoperability while expanding EC IT cancer systems, gateways, portals, platforms and databases



## ECIS – European Cancer Information System

- Provides the latest information on indicators that quantify cancer burden across Europe
- Permits the exploration of geographical patterns and temporal trends of incidence, mortality and survival data across Europe for the major cancer entities
- Supports research and public-health decision-making in the field of cancer,

and serves as a **point of reference** and information for **European citizens** 





### **European Commission Initiative on Breast Cancer**

- Provides essential levels of quality care, equally accessible across Europe
- Offers clear and independent guidance on screening, diagnosis and care to healthcare providers and citizens/patients, based on the latest scientific evidence available



European guidelines on screening and diagnosis



International guidelines on breast cancer care



European quality assurance scheme

https://healthcare-quality.jrc.ec.europa.eu/



## Health promotion and NCDs prevention

- The <u>Knowledge Gateway</u> reliable and up-to-date information on cancer determinants and related policies
- Work on <u>best practices</u> related to cancer determinants
- A toolkit to limit marketing of unhealthy food, non-alcoholic and alcoholic beverages to minors
- School Food and Nutrition in Europe: policies, interventions and their impact
- Front-of-pack nutrition labelling schemes: a comprehensive review





Marketing of unhealthy foods to children can influence their food preferences, diets and health © European Union 2019



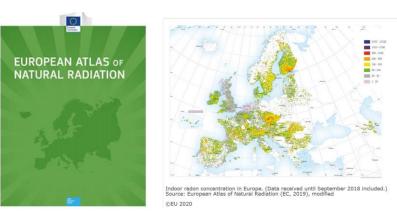


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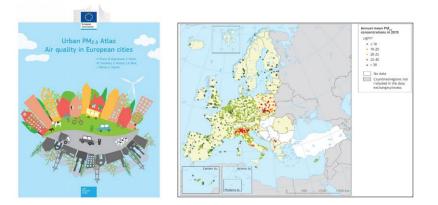


# A holistic approach to tackling cancer will require connecting the datasets

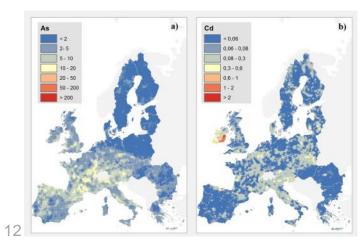
#### **Radon concentration**



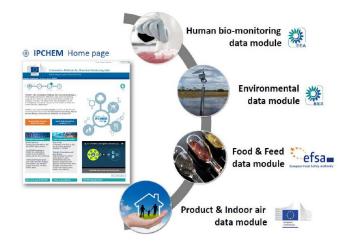
### **PM2.5 concentration**



#### Heavy metals in soil



### **Chemical occurrence data**

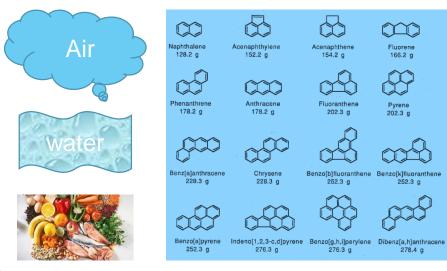


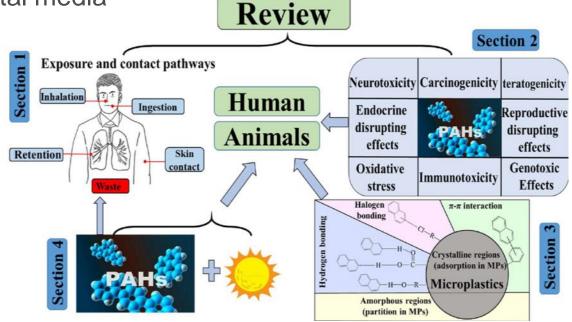


## Looking horizontally for combined exposure

Humans are exposed to carcinogens through different exposure pathways and through different environmental media

- Same carcinogen in different environmental media
- Different carcinogens
- E.g. polycyclic aromatic hydrocarbons (PAHs)







## Thank you



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