## Cancer registries' data collection in the framework of the European Cancer Information System (ECIS)

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#### **ECIS** rationale



#### PROVISION OF TIMELY AND COMPARABLE DATA ON CANCER BURDEN ACROSS EUROPE

#### **Cancer burden indicators**

How many new cases?	INCIDENCE
How many deaths?	MORTALITY
How many survive and for how long?	SURVIVAL

- Cancer registries of the European Network of Cancer Registries as data source
- EC contribution: harmonisation of data and registration processes, collection, analysis and dissemination of cancer burden indicators

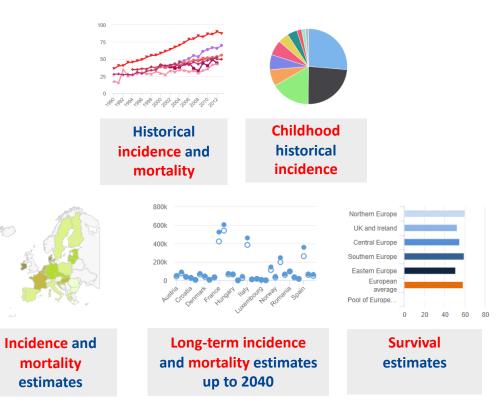




#### **The ECIS infrastructure**

- ENCR secretariat
- Secure portal for data submission
- Databases to store and manage data
- European-wide agreed procedures for cancer data quality checks and related software
- Computational routines
- Dissemination tools

#### https://ecis.jrc.ec.europa.eu/





#### ECIS database – previous 2015 data call

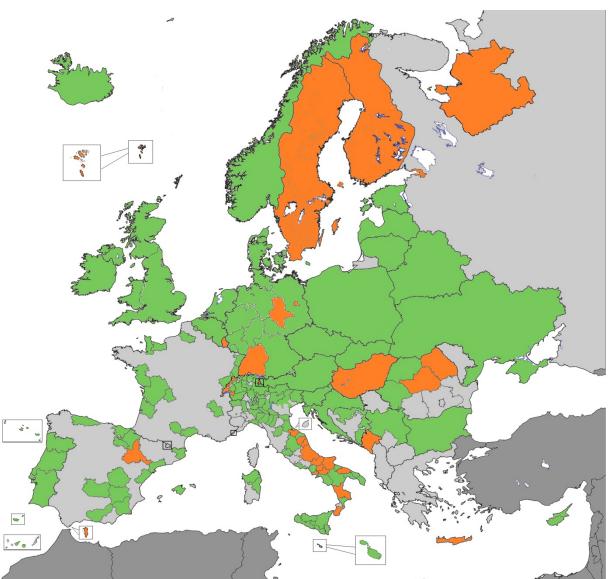
**149 CRs from 34 European** countries

more than 34,500,000 records in the database



Covering about 60% of the EU/(CH/NO/IS) population

Data submittedData not submittedData not available



#### **Documents and software tools**

ENCR recommendations
 How to code and report cancer cases



- Call for Data Protocol for European Population-Based Cancer Registries (2022)
   How to prepare files for submission to the ECIS 2022 data call
- JRC report "A common data quality check procedure for European cancer registries", Data Structure Converter and Quality Check Software
- How to perform data quality checks



Call for Data Protocol 2022					
	R	Required file	S		
Cancer incidence	Cancer mortality	Population	Life tables	Questionnaire	
<ul> <li>Record-level data</li> <li>39 variables in 5</li> <li>variable groups:</li> <li>Patient</li> <li>Tumour</li> <li>Follow up</li> <li>Stage</li> <li>Treatment</li> </ul>	<ul> <li>5–6 variables, data aggregated by:</li> <li>Sex</li> <li>Age</li> <li>Geographical area (where applicable)</li> </ul>		<ul> <li>Qualitative information</li> <li>Grouped by file type</li> <li>Context for the quantitative data</li> </ul>		

### ECIS data validation workflow 2022

Data workflow	Processes and tools used
Data submission	<ul> <li>Data files submission via secure submission portal</li> <li>Questionnaire submission via EU survey</li> </ul>
1 <sup>st</sup> phase validation 1 <sup>st</sup> feedback report	<ul> <li>Checks: completeness, consistency with the questionnaire and between the files, formatting</li> <li>New version of the files may be generated</li> <li>Resubmission of files may be asked</li> </ul>
2 <sup>nd</sup> phase validation 2 <sup>nd</sup> feedback report	<ul> <li>Quality Check Software: detailed univariate and multivariate checks, checks for multiple primary tumours</li> <li>Resubmission of files may be asked</li> </ul>
Data aggregation	

publication in CR-private webspace

CR verification



### Importance of file archiving: ECIS data call

- Guidance documents: updated versions, training materials, clarifications (e.g. via communication with the ENCR secretariat or "Ask an expert" ENCR)
- **Data files:** original datasets and updated versions
- Feedback reports and communication between the ENCR secretariat and Cancer Registries
- **Output of software tools**: e.g. Data Structure Converter and Quality Check Software

Facilitated workflow in the future Data Calls Improved long-term accessibility of cancer data



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# Thank you



European Cancer Information System: <u>https://ecis.jrc.ec.europa.eu/</u> European Network of Cancer Registries: <u>http://www.encr.eu/</u>



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#### EU countries

0 250 500

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1,000 Km