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Intensifying the fight against cancer – screening data

Presented by

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The voice of national and regional cancer leagues in Europe

Making a difference in cancer control since 1980:

We are a network of **34 cancer leagues and societies** across **28 European countries**, united in the fight against cancer.

Our members are trusted, non-profit cancer organisations providing the public with essential information, support and care.



Our vision:
A Europe free of cancer



ECL works across the cancer continuum



**Cancer is on
track to become
the leading
cause of death
in Europe
by 2035**



**Cancer
prevention**



**Vaccination
& early
detection**

**Patient
Support**



**Access to
medicines**



Bridging science and policy

ECL has a portfolio of ongoing **EU-funded projects** focused on cancer screening, health literacy, primary prevention, and patient support.



We collaborate with **75+ partners and leading experts from across Europe**, including from cancer leagues, research institutions, public health organisations, university hospitals and academia.

Our Goal

To translate research into EU policy and build bridges between patients, research and policy makers



To develop and pilot a new cancer screening data management system to be integrated into the **European Cancer Information System (ECIS)**.

ECIS is hosted by the Joint Research Centre (JRC) in Ispra, Italy.

Project Status: **CONCLUDED**
Duration: September 2022 to February 2024



Number of Consortium Partners: 8

Partner Countries: France, Belgium, Netherlands, Italy, Norway, Finland

International Agency for Research on Cancer



Objectives



1. Develop **performance indicators** that allow for a **comparison** between screening programs.
2. Enable the **collection of data outside** established screening programs.
3. Establish a monitoring system capable of identifying and quantifying information related to **inequalities**.
4. Propose **indicators** that cover **emerging screening approaches** and potential new cancer sites, ensuring the system remains adaptable to future developments.

Achievements



1. User-friendly **data collection tools** for **breast, cervical, colorectal,** and **lung cancer** screening programs, aligned with a new set of evidence-based **indicators**.
2. **Accessible Database** for data providers, offering easy access to tools and simplified data submission.
3. **Automated data analysis** through **interactive** graphs, tables, and more for a visually engaging and insightful experience.
4. A **pilot program** to submit and test the new system for further improvements.
5. Seamless **integration** of new data management system **into ECIS**, ensuring a cohesive and efficient platform.



Performance indicators

Indicator Categories	Indicators
1. Risk Assessment and Invitation	1. Invitation Coverage
2. Screening and Triage	2. Examination Coverage
	3. Participation Rate
	4. Retention Rate
	5. Test Result
	6. Positive Predictive Value Screening Test
	7. False Positive Rate
	8. Episode Sensitivity
3. Further Assessment	9. Compliance with Further Assessment
	10. Detection rate
4. Treatment	11. Compliance with treatment
5. Harms	12. Complications Screening Test
	13. Complications Further Assessment
6. Barriers and Inequalities	14. Participants Satisfaction with the Program
7. Opportunistic Testing	15. Opportunistic testing
8. Program Factors	16. Time from Screen Test to Notification of Result
	17. Time from Positive Screen to First Diagnostic Procedure
9. Impact Indicators	18. Cause-Specific Mortality
	19. Crude Incidence Rate
	20. Interval Cancer Rate



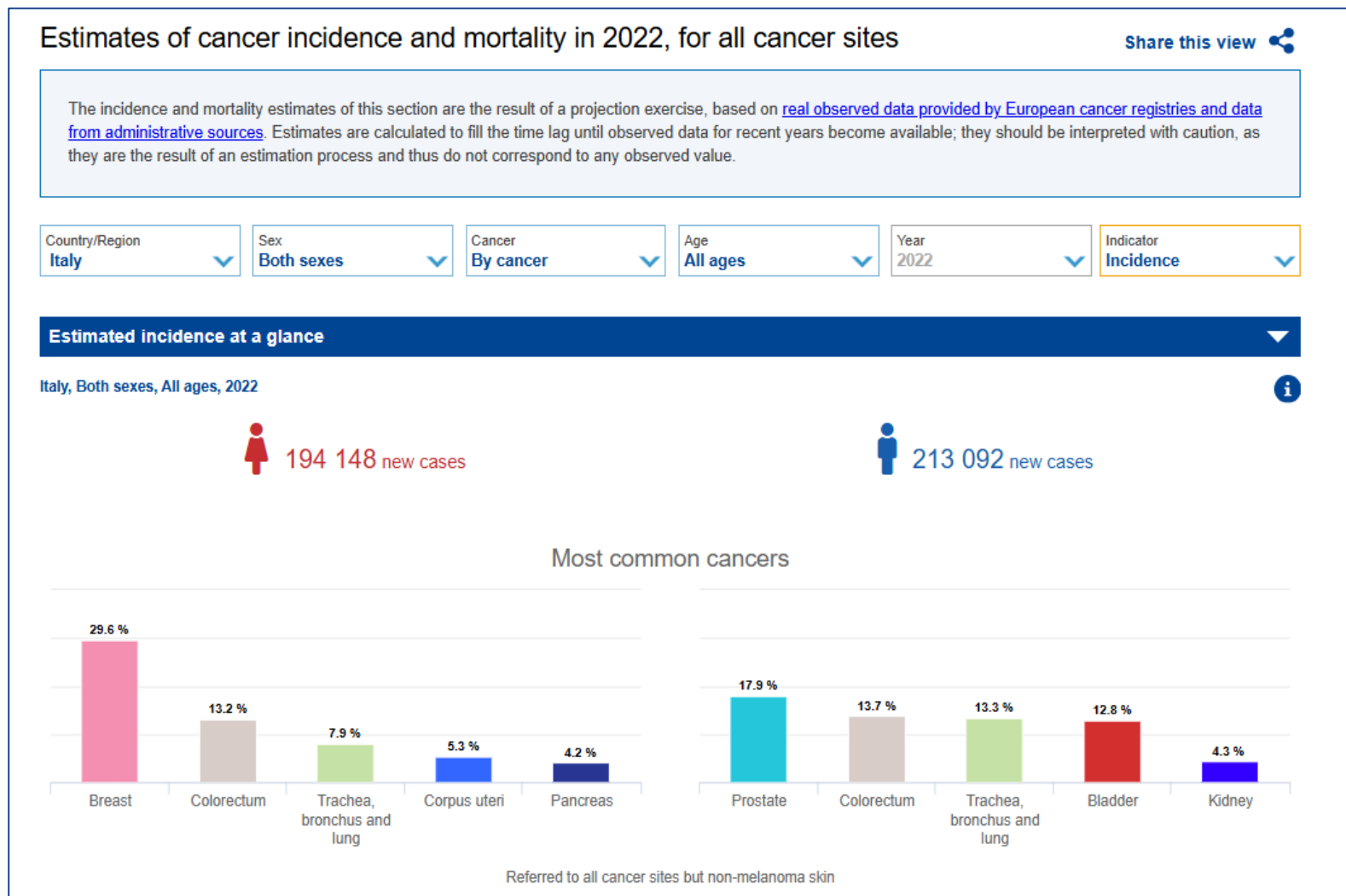
DATA WAREHOUSE

- **Landscape survey** on breast, cervical, colorectal and lung cancer screenings
- **Quantitative data collection tool & user guides** for breast, cervical, colorectal and lung cancer screening
- Example from Finland

Data Submission platform - Finland (national level)

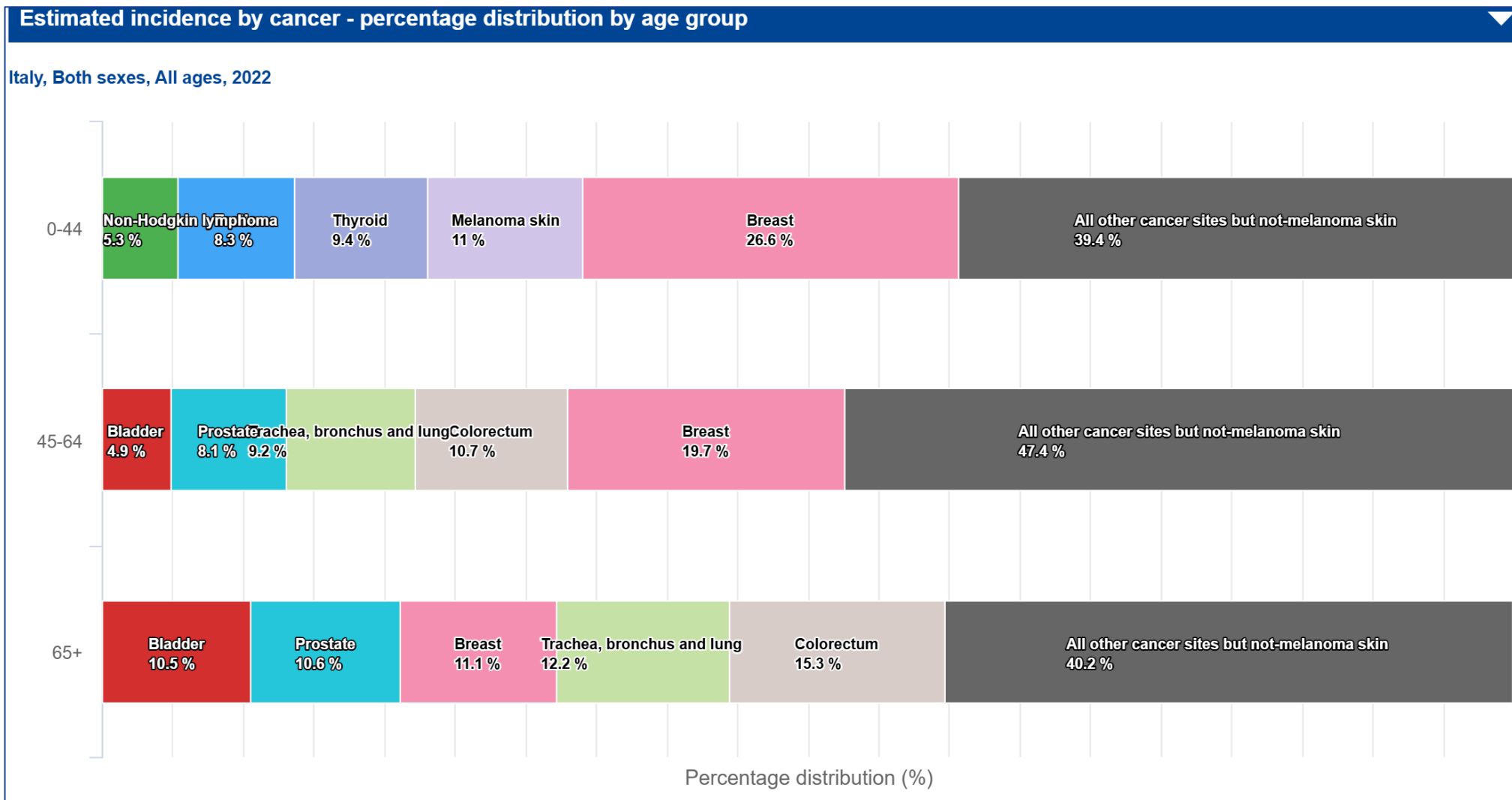
	Landscape survey	Quantitative tools	Indicators calculated
Breast cancer 	Fill out & submit form (Completed) Review status: Validated with consent of data providers	Fill out & submit form (Completed)  Template  Guide Review status: Under check, revision	Breast cancer indicators: [1]
Cervical cancer 	Fill out & submit form (Completed) Review status:	If you have datasets for multiple primary screening tests, please fill out different form for each test: • Fill out & submit form (Completed) • Fill out & submit a 2nd form (Completed)  Template  Guide Review status: 1: , 2:	Cervical cancer indicators: [1] [2]
Colorectal cancer 	Fill out & submit form (Completed) Review status:	If you have datasets stratified by sex please use separate form for each sex and each primary screening test. Otherwise use a single form for each primary screening test: • Fill out & submit form () • Fill out & submit a 2nd form () • Fill out & submit a 3rd form () • Fill out & submit a 4th form ()  Template  Guide Review status: 1: , 2: , 3: , 4: , 5:	Colorectal cancer indicators: [1] [2] [3] [4] [5]
Lung cancer 	Fill out & submit form () Review status:	If you have datasets stratified by sex please use separate form for each sex and each primary screening test. Otherwise use a single form for each primary screening test: • Fill out & submit form () • Fill out & submit a 2nd form () • Fill out & submit a 3rd form ()  Template  Guide Review status: 1: , 2: , 3:	Lung cancer indicators: [1] [2] [3]

Incidence – Men/Women



[https://ecis.jrc.ec.europa.eu/explorer.php?\\$0-0\\$1-IT\\$2-All\\$4-1,2\\$3-All\\$6-0,85\\$5-2022,2022\\$7-7\\$CEstByCancer\\$X0_8-3\\$CEstRelativeCanc\\$X1_8-3\\$X1_9-AE27\\$CEstBySexByCancer\\$X2_8-3\\$X2_-1-1](https://ecis.jrc.ec.europa.eu/explorer.php?$0-0$1-IT$2-All$4-1,2$3-All$6-0,85$5-2022,2022$7-7$CEstByCancer$X0_8-3$CEstRelativeCanc$X1_8-3$X1_9-AE27$CEstBySexByCancer$X2_8-3$X2_-1-1)

Incidence – Age



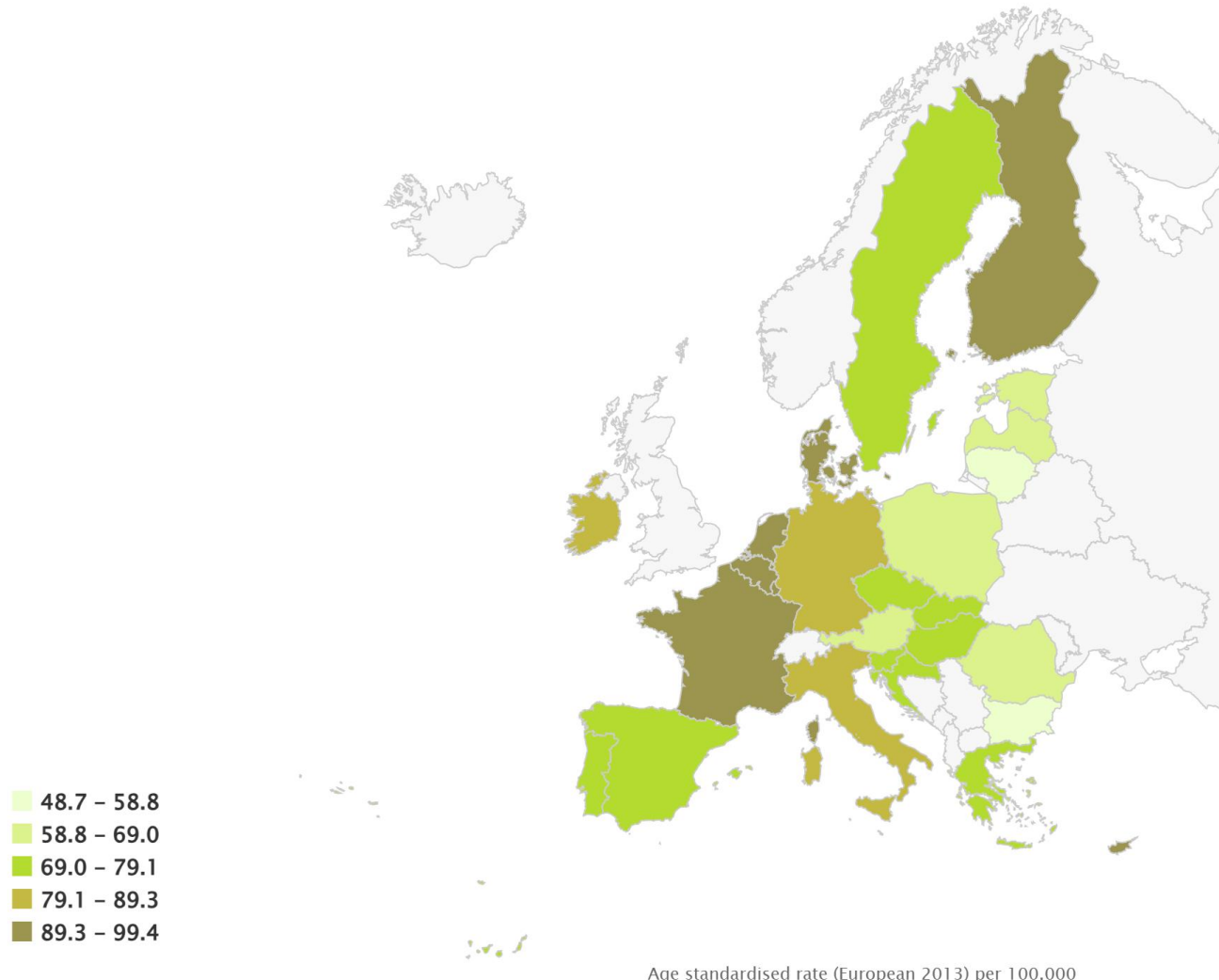
[https://ecis.jrc.ec.europa.eu/explorer.php?\\$0-0\\$1-IT\\$2-All\\$4-1,2\\$3-All\\$6-0,85\\$5-2022,2022\\$7-7\\$CEstByCancer\\$X0_8-3\\$CEstRelativeCanc\\$X1_8-3\\$X1_9-AE27\\$CEstBySexByCancer\\$X2_8-3\\$X2_-1-1](https://ecis.jrc.ec.europa.eu/explorer.php?$0-0$1-IT$2-All$4-1,2$3-All$6-0,85$5-2022,2022$7-7$CEstByCancer$X0_8-3$CEstRelativeCanc$X1_8-3$X1_9-AE27$CEstBySexByCancer$X2_8-3$X2_-1-1)

Incidence within Europe



Estimated incidence by country

EU27, Both sexes, Breast, All ages, 2022



[https://ecis.jrc.ec.europa.eu/explorer.php?\\$0-0\\$1-All\\$2-All\\$4-1,2\\$3-29\\$6-0,85\\$5-2022,2022\\$7-7\\$CEstByCountry\\$X0_8-3\\$X0_19-AE27\\$X0_20-No\\$CEstBySexByCountry\\$X1_8-3\\$X1_19-AE27\\$X1_-1-1\\$CEstByIndiByCountry\\$X2_8-3\\$X2_19-AE27\\$X2_20-No\\$CEstRelative\\$X3_8-3\\$X3_9-AE27\\$X3_19-AE27\\$CEstByCountryTable\\$X4_19-AE27](https://ecis.jrc.ec.europa.eu/explorer.php?$0-0$1-All$2-All$4-1,2$3-29$6-0,85$5-2022,2022$7-7$CEstByCountry$X0_8-3$X0_19-AE27$X0_20-No$CEstBySexByCountry$X1_8-3$X1_19-AE27$X1_-1-1$CEstByIndiByCountry$X2_8-3$X2_19-AE27$X2_20-No$CEstRelative$X3_8-3$X3_9-AE27$X3_19-AE27$CEstByCountryTable$X4_19-AE27)

Europe's Beating Cancer Plan – early detection



- Update EU Council recommendations on cancer screening and **expand to new sites**
- Ensure that **90% of the EU population** who qualify for breast, cervical and colorectal cancer screenings **are offered screening by 2025**
- Make improvements in the three key areas of **access, quality and diagnostics**
- Update the **European Cancer Information System** to monitor & access cancer screening programmes
- Prepare a **3rd report on the implementation** of the Council recommendation

Facilitated by CanScreen-ECIS



EU CanScreen Project

This project has received funding from the European Union's EU4HEALTH Programme under the Grant Agreement No. 101162959.



**Co-funded by
the European Union**

About the project



- Goal is to reduce the cancer burden in Europe through **effective, sustainable screening programmes**.
- It directly supports Europe's Beating Cancer Plan which aims to ensure 90% of eligible citizens are offered **breast, cervical, and colorectal** screening.
- Beyond these, EUCanScreen also works on newly recommended screenings for **lung, prostate, and gastric cancers**.
- The project also pushes forward innovation: **personalised screening**, use of **AI, big data**, and stronger **quality assurance**.

The project



- **ECL** is involved in WP4 on **Sustainability**
- **ISPRO** as co-Leader WP9 on **risk-based approaches**

ECL's Role

- Set up European **cancer screening network** and engagement of **Governmental Advisory Board** (GAB)
- **Stakeholder mapping** and engagement
- Organise 2 Cancer Screening Sustainability **Workshops**
- Leadership **training** in cancer screening

<https://www.dypede.gr/eucanscreen/>

- 90+ Partners
- Budget of €38.7 million
- June 2024 – May 2028 (48 months)
- Current Stage: 15 / 48 Months | 31% implementation

Challenges and solutions



- **Coordination** across 29 countries – aligning timelines, legal frameworks, and institutional practices.
- **Handling sensitive health data** securely and harmonising formats.
- **Aligning** national practices and ensuring high-quality, comparable data.
- **Integrating lung, prostate, and gastric cancer programmes** where systems are less established.
- **Reducing inequalities** and engaging vulnerable or hard-to-reach groups.
- Adopting AI, big data, and personalised approaches while maintaining **quality assurance**.