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Technical Assistance for Turkey in Horizon 2020 Phase-II  
EuropeAid/139098/IH/SER/TR

# Horizon Europe Mission Cancer International Networking Event

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14 02 2022



REPUBLIC OF TURKEY  
MINISTRY OF INDUSTRY  
AND TECHNOLOGY



COMPETITIVE  
SECTORS  
PROGRAMME



TÜBİTAK



EUROPEAN UNION



# EU MISSIONS

CANCER

**Concrete solutions for our greatest challenges**



#EUmissions #HorizonEU #MissionCancer

# MISSIONS

Mission means a **portfolio of excellence-based and impact-driven R&I actions across disciplines and sectors**, intended to:



- achieve, ***within a set timeframe***, a measurable **goal that could not be achieved through individual actions**
- have **impact on society and policy-making** through science and technology
- be ***relevant for*** a significant part of the European population and a wide range of **European citizens**

**Adaptation to climate  
change, including societal  
transformation**

**Cluster 5, Cluster 2**



**Healthy  
oceans,  
seas,  
coastal  
and inland  
waters**



**Mission  
areas**



**Cancer**

**Cluster 1**

**Cluster 6**

**Cluster 5**

**Climate-neutral  
and smart cities**



**Soil health  
and food**



**Cluster 6**

# MISSION:

*is it really a completely new concept?*

## FET Flagships

aimed at large scale highly integrated activities, crossing research and innovation boundaries

## Focus areas



## Mission

*new features such as:*

- **strong engagement with citizens**
- **portfolio approach to R&I**

Missions are also much more encompassing than the Research & Innovation itself, and **include other areas of policy, regulatory change,** etc. to secure the success of the mission

**HORIZON 2020**

**HORIZON EUROPE**

## MISSION – BUDGET



- There is **no fixed budget** for each mission
- During the **first three years** of the programme, a **maximum of 10%** of the annual budget of **Pillar II** shall be programmed through specific calls for implementing the missions
- For the remaining part of the programme, and **only after a positive assessment** of the mission selection and management process, this **percentage may be increased**

## Support from Horizon Europe and other funding programmes

- **Horizon Europe:** up to 10% of health cluster available to support Cancer Mission directly with a budget of minimum €378 million for 2021-2023
  - Other parts of Horizon Europe: e.g. Health Cluster, European Innovation Council; European Research Council
- **EU4Health programme 2021-2027:** will fund many initiatives outlined in the Europe's Beating Cancer Plan, including activities proposed by the Cancer Mission, with €1.25 billion support until 2027.
- **Digital Europe Programme:** support of €250 million for cancer-related activities until 2027.

## Support from Horizon Europe and other funding programmes

- **Erasmus+ programme, Marie Skłodowska-Curie actions and European Institute of Innovation and Technology** expected to provide up to a total of €500 million for projects in education, training, research on cancer and on the promotion of healthy lifestyles.
- **Technical Support Instrument:** technical expertise to support Member States in institutional, administrative, and growth-enhancing reforms
- **Cohesion Funds:** support of health investments
- **Recovery and Resilience Facility:** support of health investments



# Conquering cancer: mission possible



Goal:

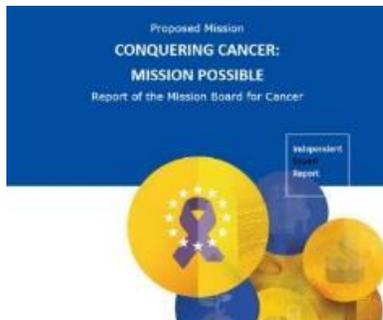
**“By 2030, more than 3 million lives saved, living longer and better”**

**Five intervention areas:**

1. understanding
2. prevention
3. diagnosis and treatment
4. quality of life
5. equitable access

**13 recommendations** for bold actions

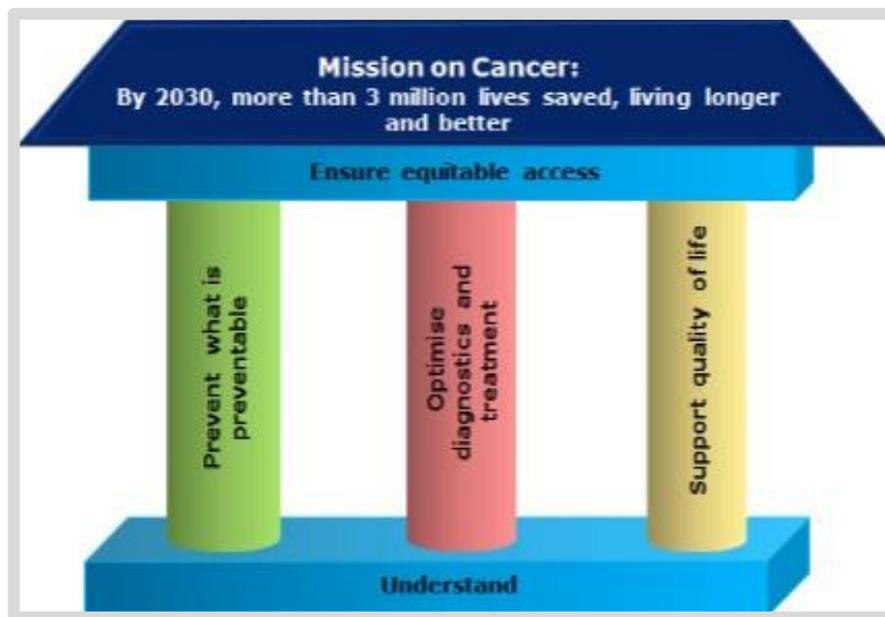
# MISSION CANCER



## Conquering Cancer: Mission Possible

13 recommendations

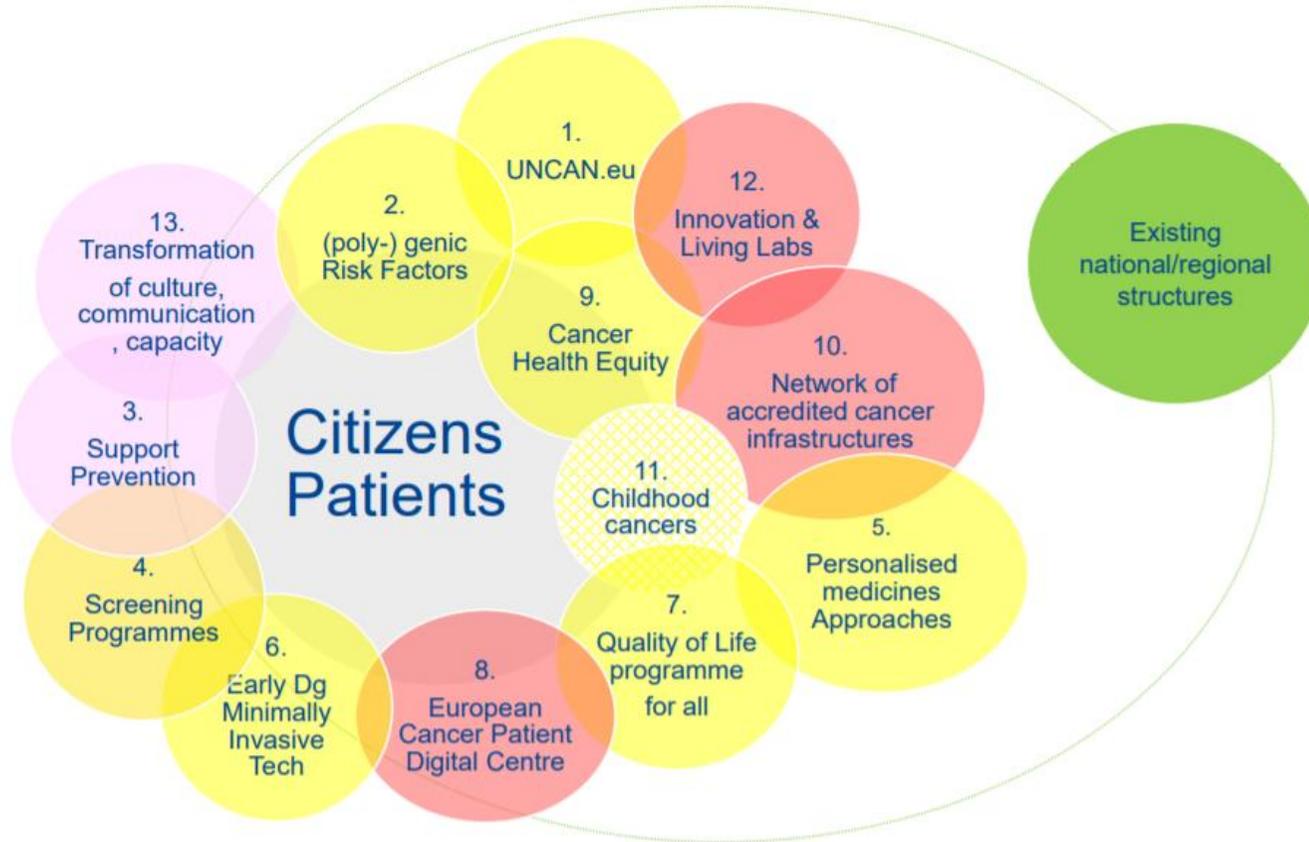
Targets by 2030: **more than 3 million lives saved, living longer and better**: achieve a thorough **understanding** of cancer, **prevent** what is preventable, optimize **diagnosis and treatment**, support the **quality of life** of all people exposed to cancer, and ensure **equitable access** to the above across Europe.



# 13 Recommendations for bold actions

- 1 Launch **UNCAN.eu** – a European Initiative to Understand Cancer
- 2 Develop an EU-wide research programme to identify **(poly-) genic risk scores**
- 3 Support the development and implementation of **effective cancer prevention strategies** and policies within Member States and the EU
- 4 Optimise existing screening programmes and develop **novel approaches for screening and early detection**
- 5 Advance and implement **personalised medicine approaches** for all cancer patients in Europe
- 6 Develop an EU-wide research programme on **early diagnostic and minimally invasive treatment technologies**
- 7 Develop an EU-wide research programme and policy support to improve the **quality of life of cancer patients and survivors, family members and carers**, and all persons with an increased risk of cancer
- 8 Create a **European Cancer Patient Digital Centre** where cancer patients and survivors can deposit and share their data for personalised care
- 9 Achieve **Cancer Health Equity** in the EU across the continuum of the disease
- 10 Set up a network of **Comprehensive Cancer Infrastructures** within and across all EU Member States to increase quality of research and care
- 11 **Childhood cancers** and cancers in adolescents and young adults: cure more and cure better
- 12 Accelerate innovation and implementation of new technologies and **create Oncology-focused Living Labs** to conquer cancer
- 13 **Transform cancer culture**, communication and capacity building

# 13 Recommendations citizens & patients centred



# Mission on Cancer: topics in 2021

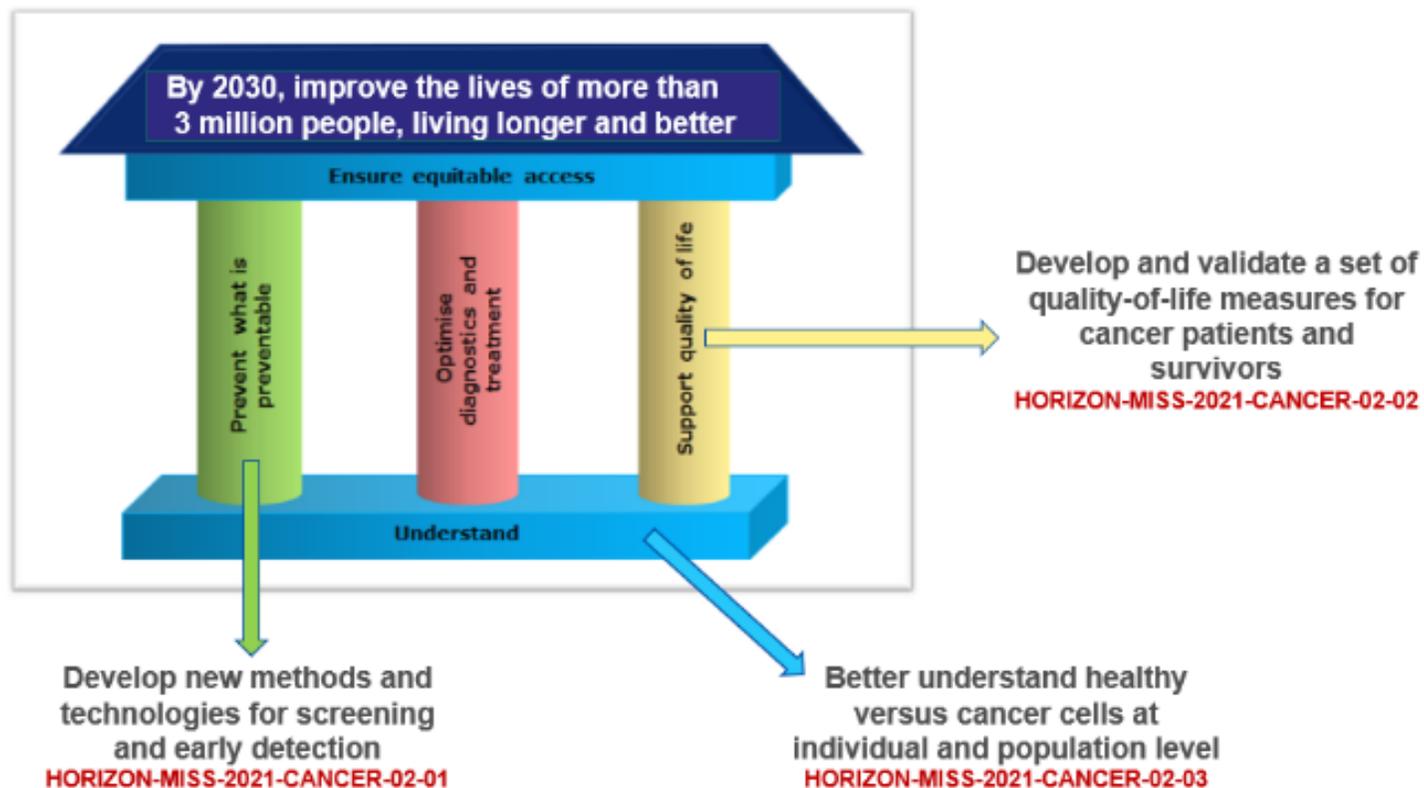
Opening: 22 Dec 2021

Deadline(s): 26 Apr 2022

**HORIZON-MISS-2021-CANCER-02-01: *Develop new methods and technologies for screening and early detection (RIA)***

**HORIZON-MISS-2021-CANCER-02-02: *Develop and validate a set of quality-of-life measures for cancer patients and survivors (RIA)***

**HORIZON-MISS-2021-CANCER-02-03: *Better understand healthy versus cancer cells at individual and population level (RIA)***



## Mission on Cancer: topics in 2021

Topics	Type of Action	Budgets (EUR million)	Expected EU contribution per project (EUR million) <sup>89</sup>	Number of projects expected to be funded
		2021		
Opening: 22 Dec 2021 Deadline(s): 26 Apr 2022				
HORIZON-MISS-2021-CANCER-02-01	RIA	60.00 <sup>90</sup>	4.00 to 15.00	10
HORIZON-MISS-2021-CANCER-02-02	RIA	11.00 <sup>91</sup>	Around 11.00	1
HORIZON-MISS-2021-CANCER-02-03	RIA	54.65 <sup>92</sup>	4.00 to 15.00	6
Overall indicative budget		125.65		

## Cancer Mission WP2021 topics

HORIZON-MISS-2021-CANCER-02-01: **Develop new methods and technologies for cancer screening and early detection**

**Closure: 26.04.2022; Indicative call budget: 60M€; Project size: 4 - 15M€; R&I actions**

**Scope:** Develop and **validate (TRL4)** non-invasive, or minimally invasive cancer screening and detection methodologies for everyday medical practice and population-based screening programmes, including enhanced participation of the target population. **End-user engagement.** Differences within and between countries and **regions** should be addressed.

### Expected outcomes:

- Healthy citizens and cancer patients will benefit from faster, earlier, more precise, personalised, accessible and affordable screening and early detection of cancer.
- Health care professionals will be able to deliver earlier, faster, more precise screening and early detection of cancer.
- Health policy makers will have the evidence to **review population-based** screening programmes and screening and early detection methodologies in **everyday medical practice**, and to include **new**, evidence-based screening and early detection methods, technologies and solutions.



Quality of Life

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## Cancer Mission WP2021 topics

HORIZON-MISS-2021-CANCER-02-02: **Develop and validate a set of quality of life and patient preference measures for cancer patients and survivors**

**Closure: 26.04.2022; Indicative call budget: 11 M€; Project size: 11 M€; R&I actions**

**Scope:** Develop a framework of **newly defined, harmonised and systematic surveys**. To be launched **across all MS and Associated Countries** and reviewed with researchers, care providers, health insurance companies, industry as well as policy makers so that more timely, supportive and affordable care can be provided and relevant policy measures can be taken.

**Pilot newly defined, harmonised and systematic quality of life surveys** across the EU-27 and Associated countries, reflecting both its diversity (social, cultural, geographic, demographic, health and social protection systems) and unique differences in incidence and mortality of cancer indications. **NB The selected beneficiaries must provide the results from the survey, including validation of the metrics, within 2 years from the start of the project for the purpose of developing EU policies and programmes.**

### Expected outcomes:

- Cancer patients, survivors and caregivers will benefit from enhanced quality of life, more effective and less burdensome treatments with better supportive care and counselling approaches.
- Health care professionals, supportive workers, counsellors and industry will be better aware of the (unmet) needs.....
- Regulators and institutions will have a set of metrics, which they can include in decision making....
- Health Policy Makers will have a set of metrics at their disposal, which they can include in their health information.... systems.
- Labour market and social protection policy makers will benefit from additional evidence to consider.....



EUROPEAN UNION

Understanding

EU MISSIONS  
CANCER 

## Cancer Mission WP2021 topics

HORIZON-MISS-2021-CANCER-02-03: **Better understanding of the impact of risk factors and health determinants on the development and progression of cancer**

**Closure:** 26.04.2022; **Indicative call budget:** 56.65M€; **Project size:** 4 - 15M€; **R&I actions**

**Scope:** Boost better understanding of cancer, **new dimension** and level of investment in innovative research, including high-potential, potentially disruptive and high-risk projects. Demonstrate access to and use of multiple comprehensive databases in and **well beyond health** research and health domains. **Synergies** with the Partnership for the Assessment of Risk from Chemicals (PARC), the “Human Biomonitoring 4 EU” initiative (HBM4EU) and the European Human Exposome Network.

### Expected outcomes:

- Researchers and health professionals will **understand which risk factors and determinants** spur the development and progression of cancer and how.....
- Researchers and innovators from different disciplines and sectors will **support the development of the UNCAN.eu** platform by producing, integrating and correlating comprehensive data from multiple sources (ensuring accessibility and re-usability of data, models and tools created).
- Health Policy Makers use the improved understanding of risk factors and determinants in the design of **cancer-related health policies**.....

# Cancer Mission WP2021 – to note on implementation

- Proposals will be **evaluated on scientific merits**- see Horizon Europe evaluation (sub)criteria.
- Applicants are expected to **liaise with other EU-funded initiatives and projects** whenever relevant.
- Applicants should **budget for networking activities**; details to be added during grant preparation.
- During the grant agreement preparation, the **Commission will explain and facilitate this**.
- Pay attention to **topic footnotes**.

*Due consideration should also be given to other relevant EU-funded initiatives....*

*Furthermore, all projects funded under this topic are strongly encouraged to participate in networking and joint activities with other ongoing projects under the mission on cancer and other cancer relevant projects, as appropriate....*

*The Commission may facilitate Mission-specific coordination through future actions. Therefore, proposals should include a budget for the attendance to regular joint meetings and may consider covering the costs of any other potential joint activities without the prerequisite to detail concrete joint activities at this stage....*

*The funded actions should build upon resources made available by the Knowledge Centre on Cancer, and complement actions under the future Innovative Health Initiative, EIT Health Knowledge Innovation Community initiatives, and the Digital Europe programme (Cancer Imaging Initiative, Genomics)*

# Submission and evaluation process?



# Admissibility

## Same general admissibility conditions

- Applications must be submitted before the call deadline, **electronically** via the Funding & Tenders Portal
- Applications must be **complete, readable, accessible and printable**, and include a **plan for the exploitation and dissemination of results**, unless provided otherwise in the specific call conditions.

## Proposal page limit

Substantial reduction in maximum length:

- RIAs and IAs type of actions: limit for a full application is **45 pages**
- CSAs: limit is **30 pages**
- Exceptions, if any, would be specified in the call text.



## Eligibility

### Consortium composition (collaborative projects)

- at least one independent legal entity established in a Member State, and
- at least two other independent legal entities each established either in a different Member State or an Associated Country.

# Who is eligible for funding?



## EU COUNTRIES

- Member States (MS) including their outermost regions
- The Overseas Countries and Territories (OCTs) linked to the MS.



## NON-EU COUNTRIES

- Countries associated to Horizon Europe (AC)
- Low and middle income countries: See [HE Programme Guide](#).
- Other countries when announced in the call or exceptionally if their participation is essential



## SPECIFIC CASES

- Affiliated entities (LTP) established in countries eligible for funding.
- EU bodies
- International organisations (IO):
  - International European research organisations are eligible for funding.
  - Other IO are not eligible (only exceptionally if participation is essential)
  - IO in a MS or AC are eligible for funding for Training and mobility actions and when announced in the call conditions

## Activities eligible for funding – Type of actions





# Maximum funding rates

		Types of action		
		IA (Innovation Actions)	RIA (Research and Innovation Actions)	CSA (Coordination and support actions)
Profit		70 %	100 %	100 %
Non for profit		100 %	100 %	100 %

*Other funding rates may be set out in the specific call conditions*



## Application form (proposal template)



### Same structure

The proposal contains two parts:

- **Part A** (web-based forms) is generated by the IT system. It is based on the information entered by the participants through the submission system in the Funding & Tenders Portal.
- **Part B** is the narrative part that includes three sections that each correspond to an evaluation criterion. Part B needs to be uploaded as a PDF document following the templates downloaded by the applicants in the submission system for the specific call or topic.



## Evaluation (award) criteria

Same criteria as in H2020

Same three award criteria:

**‘Excellence’**, **‘Impact’** and **‘Quality and efficiency of the implementation’**.

### Adapted following lessons learnt

- The number of **‘aspects to be taken into account’** have been **reduced**, ensuring that the same aspect is not assessed twice
- **Open Science** practices assessed as part of the scientific methodology in the excellence criterion
- **New approach to impact**: Key Impacts Pathways (KIPs)
- The assessment of the **quality of applicants** is assessed under ‘implementation’, rather than as a separate binary assessment of operational capacity
- Assessment of **management structures** has been removed.



# Evaluation criteria (RIAs and IAs)

## EXCELLENCE

- ✓ Clarity and pertinence of the **project's objectives**, and the extent to which the proposed work is ambitious, and goes beyond the state-of-the-art.
- ✓ Soundness of the proposed **methodology**, including the underlying concepts, models, assumptions, inter-disciplinary approaches, appropriate consideration of the **gender dimension** in research and innovation content, and the quality of **open science practices** including sharing and management of research outputs and engagement of citizens, civil society and end users where appropriate.

## IMPACT

- ✓ Credibility of the **pathways** to achieve the expected **outcomes and impacts** specified in the work programme, and the likely scale and significance of the contributions due to the project.
- ✓ Suitability and quality of the **measures to maximize expected outcomes and impacts**, as set out in the dissemination and exploitation plan, including communication activities.

## QUALITY AND EFFICIENCY OF THE IMPLEMENTATION

- ✓ Quality and effectiveness of the **work plan**, assessment of risks, and appropriateness of the effort assigned to work packages, and the resources overall.
- ✓ Capacity and role of each **participant**, and extent to which the **consortium** as a whole brings together the necessary expertise.

*Proposals aspects are assessed to the extent that the proposed work is within the scope of the work programme topic*

# References

- **EU Mission on Cancer**
  - Horizon Europe rules apply (participation of UK, CH, Associated and Third countries)
  - Read the implementation plan before applying:
  - [Commission Communication](#) with [Implementation plan](#) (29 September 2021)
  - [Horizon Europe mission work programme 2021-2022](#) (June 2021, updated 15 December 2021)
  - Mission calls for proposals are accessible via the [Funding & Tenders Portal](#)
  - **Contact your [national contact point \(NCP\)](#)**
- [Proposed Horizon Europe Health Partnerships](#)
- [Europe's Beating Cancer Plan and EU4Health programme](#)
- [Digital Europe programme](#)
- [EIT Health KIC](#)
- [Knowledge Centre on Cancer \(KCC\)](#)
- [HaDEA](#)



# Q&A

Time to ask your  
questions!

Teşekkür ederim!

Thank you!



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