



# Virtual Human Twin (VHT) Models for Cancer Research

HORIZON-MISS-2026-02-CANCER-01

|                              |   |
|------------------------------|---|
| Program:                     | <b>Horizon Europe<br/>Cancer Mission</b>  |
| Típus:                       | <b>Research and<br/>Innovation Action</b> |
| TRL szint:                   | <b>nem releváns</b>                       |
| Támogatás projektenként:     | <b>8 - 9 M EUR</b>                        |
| Támogatott projektek száma:  | <b>4</b>                                  |
| Pályázati felület megnyílik: | <b>2026. február 10.</b>                  |
| Beadási határidő:            | <b>2026. szeptember 15.</b>               |
| Felhívás linkje:             | <a href="#">LINK</a>                      |

Proposals under this topic should aim at delivering results that are directed towards and contributing to all of the following expected outcomes:

- Researchers of different disciplines use advanced multiscale Virtual Human Twins (VHTs) to expand the knowledge and understanding of cancer onset and progression
- Healthcare professionals and researchers have access to advanced VHT-based solutions that model cancer onset and progression over time contributing to improve personalised treatments
- Researchers, healthcare professionals, innovators and citizens have access to cancer VHTs through the EU UNCAN.eu and the advanced Virtual Human Twin platforms.(...)

Applicants should take advantage of technological advances in (generative) AI tools which open new opportunities to collect, combine and analyse large datasets of diverse types, including multi-omics patient data, tumour molecular profiles, medical images and real word data.

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# Microbiome for early cancer prediction before onset of disease

HORIZON-MISS-2026-02-CANCER-02

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **15 M EUR**

Támogatott projektek száma: **1**

Pályázati felület megnyílik: **2026. február 10.**

Beadási határidő: **2026. szeptember 15.**

Felhívás linkje: [LINK](#)

Proposals should address all of the following:

- Development of microbiome diagnostics for earlier, better and personalised prediction and prevention of cancer before the onset of the disease if possible 2 years before the onset of the disease. Proposals should deal with several types of cancer if possible.
- Assessments of predispositions, AI risk modelling approaches and organ/body simulations.
- Collaboration with large cohorts/registries from different communities, usage of existing clinical data and generation of new data. These data could include other predictive signs such as sensations of fatigue, unusual pain, weight loss or other body changes.
- Citizen engagement could be included with data and sample collections as well as educational programmes.
- Comparison with other mini-invasive liquid biopsy tests concerning their prediction power, simplicity, cost-benefits and potential for commercialisation.
- Validation of the tests in an independent cohort and development of guidelines that help to manage risk factors such as lifestyle or diet.

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# Pragmatic clinical trials to optimise immunotherapeutic interventions for cancer patients with refractory cancer

HORIZON-MISS-2026-02-CANCER-03

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **6 - 9 M EUR**

Támogatott projektek száma: **4**

Pályázati felület megnyílik: **2026. február 10.**

Beadási határidő: **2026. szeptember 15.**

Felhívás linkje: [LINK](#)

Proposals under this topic should aim for delivering results that direct, tailor towards and contribute to all of the following expected outcomes:

- Patients with refractory cancers and their caregivers will have access to optimized and affordable immunotherapeutic interventions that increase their quality of life, across EU regions, Member States and Associated Countries;
- Healthcare professionals and academia will generate clinical evidence, by evaluating effectiveness of immunotherapeutic interventions in randomized or cluster-randomized academic investigator-initiated pragmatic clinical trials, how to best perform and deploy evidence-based treatment interventions that improve outcomes in real life for routine healthcare, including quality of life, for patients with refractory cancer who often present with co-morbidities;
- National healthcare providers, policymakers and authorities in European regions, Member States and Associated Countries will have the evidence to implement optimized and affordable immunotherapeutic interventions in their healthcare systems, including in everyday medical practice.

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# Earlier and more precise palliative care

HORIZON-MISS-2026-02-CANCER-05

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **5 M EUR**

Támogatott projektek száma: **3**

Pályázati felület megnyílik: **2026. február 10.**

Beadási határidő: **2026. szeptember 15.**

Felhívás linkje: [LINK](#)

Proposals should address all of the following:

- Develop innovative models for earlier, more precise/personalised and integrated palliative care, including digital remote tools, to predict patients' care preferences, to assign clear roles of carers and to avoid obstacles or insufficient access.
- Testing and validation of these models in real-world settings through implementation research and clinical trials.
- Attention should be given to address staff training, roles and adherence of conditions.
- Usage of AI and digital remote tools (such as explanatory videos, messaging, etc.) to allow real-time communication and to predict care needs and resources.
- Adoption of guidelines for optimal referrals, efficient and sustainable workforce allocation and retention (access to & dissemination of the guidelines should be provided through the ECPDC).

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# Boosting mental health of young cancer survivors through the ECPDC

HORIZON-MISS-2026-02-CANCER-05

|                              |  |
|------------------------------|--|
| Program:                     | <b>Horizon Europe<br/>Cancer Mission</b> |
| Típus:                       | <b>Innovation Action</b>                 |
| TRL szint:                   | <b>nem releváns</b>                      |
| Támogatás projektenként:     | <b>7 M EUR</b>                           |
| Támogatott projektek száma:  | <b>1</b>                                 |
| Pályázati felület megnyílik: | <b>2026. február 10.</b>                 |
| Beadási határidő:            | <b>2026. szeptember 15.</b>              |
| Felhívás linkje:             | <a href="#">LINK</a>                     |

Proposals under this topic should aim to deliver results that are directed and tailored towards and contribute to the following expected outcomes:

- Through the European Cancer Patient Digital Centre (ECPDC), children, adolescent and young cancer patients and survivors as well as their caregivers have access to innovative tools and approaches to strengthen their mental health;
- Healthcare professionals have access to innovative tools to monitor the mental health of cancer patients and survivors
- Researchers and healthcare professionals have access and use reliable patient reported data to better understand mental health needs of cancer patients and survivors and provide effective care. (...)

The Commission will facilitate coordination. Therefore, successful proposals will be asked to join the 'Quality of life' cluster for the Cancer Mission and should include a budget for networking, attendance at meetings, and joint activities.

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# Development of a research capacity building programme on cancer with and for Ukraine

HORIZON-MISS-2026-02-CANCER-06

|                              |  |
|------------------------------|--|
| Program:                     | <b>Horizon Europe<br/>Cancer Mission</b>   |
| Típus:                       | <b>Coordination and<br/>Support Action</b> |
| TRL szint:                   | <b>nem releváns</b>                        |
| Támogatás projektenként:     | <b>5 - 6 M EUR</b>                         |
| Támogatott projektek száma:  | <b>5</b>                                   |
| Pályázati felület megnyílik: | <b>2026. február 10.</b>                   |
| Beadási határidő:            | <b>2026. szeptember 15.</b>                |
| Felhívás linkje:             | <a href="#">LINK</a>                       |

The successful proposal under this topic should aim to deliver results that are directed and tailored towards and contribute to all of the following expected outcomes:

- Together, a network of registered cancer charities and funding agencies support transnational research and innovation projects on quality of life of young cancer patients and survivors (age range 0-39, age at the time of first diagnosis), using their own financial resources.
- Projects supported by the network of charities and funding agencies will boost quality of life and long-term outcomes for young cancer patients and survivors, including improved physical, emotional, and social well-being.
- Researchers, innovators, and professionals from different disciplines and sectors ensure accessibility and re-usability of relevant digital data, to support the future UNCAN.eu research data platform, which is currently in preparation.

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# Improve the Quality of Life of older cancer patients

HORIZON-MISS-2026-02-CANCER-07

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **5 - 6 M EUR**

Támogatott projektek száma: **5**

Pályázati felület megnyílik: **2026. február 10.**

Beadási határidő: **2026. szeptember 15.**

Felhívás linkje: [LINK](#)

Proposals should address all of the following:

A capacity-building programme should be set up between EU Member States/Associated Countries and Ukraine, in order to support Ukraine to develop or to further improve research & innovation-related capacities of future or existing Cancer Infrastructures.

The capacity building programme should include the following components:

- Development of a joint-training programme, including distance-learning modules
- Twinning activities, including staff-exchange for the implementation of targeted research projects and access to cutting-edge services

The capacity building programme should cover at least the following areas;

- Enhanced involvement in quality scientific research, including development and implementation of clinical trials and other epidemiological studies and related training<sup>162</sup>;
- Better integration of research and care to improve patient outcomes. Particular emphasis should be given to cancer in children, adolescent and young adults;
- Improvement of digital capacity to support primary and secondary use of patient data, including through improvement of data exchange capacities<sup>163</sup> and cancer registries.

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# Leveraging functional genomics to reveal novel targets for cancer treatment

HORIZON-MISS-2027-02-CANCER-01

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **7 - 8 M EUR**

Támogatott projektek száma: **4**

Pályázati felület megnyílik: **2027. február 10.**

Beadási határidő: **2027. szeptember 21.**

Felhívás linkje: [LINK](#)

Applicants should address all of the following activities:

- To identify and validate new targets for innovative therapeutic approaches, proposals by developing experimental models<sup>167</sup> and technologies for assessing the functional effects of tumour heterogeneity over time on disease pathways.
- To document mechanisms of the interaction between the multi-omics characteristics of the tumour, its microenvironment and the patient during the initiation and progression of disease using clinical data, as appropriate<sup>168</sup>. Sex and gender differences should be taken into account.
- To include state of the art approaches to combine and analyse FAIR (Findable, Accessible, Interoperable, Reusable) multimodal longitudinal patient data, making them available through the future UNCAN.eu research platform. The involvement of current EU research infrastructures offering life science resources<sup>169</sup> should be duly considered in the proposal workplan.

Applicants should take advantage of technological advances in functional genomics and structural biology approaches including but not limited to rapid gene sequencing, single-cell studies, spatial gene mapping, epigenetic analysis, liquid biopsies and functional precision oncology pipelines.

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# Clinical research by Comprehensive Cancer Infrastructures for the benefit of patients with common cancers across Europe

HORIZON-MISS-2027-02-CANCER-02

Program: **Horizon Europe  
Cancer Mission**

Típus: **Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **7 - 10 M EUR**

Támogatott projektek száma: **3**

Pályázati felület megnyílik: **2027. február 10.**

Beadási határidő: **2027. szeptember 21.**

Felhívás linkje: [LINK](#)

Proposals under this topic should aim to deliver results that are directed and tailored towards, and contribute to all of the following expected outcomes:

- Citizens afflicted by lung, bowel, breast or prostate cancer, will benefit from the outcomes of evidence-based, tailored, affordable and accessible clinical research programmes by comprehensive cancer infrastructures.
- Researchers, physicians, civil society, foundations, insurance companies, and innovators will seize opportunities to respectively co-create, support or commercialise outcomes of evidence-based, tailored, affordable and accessible clinical research outcomes for the treatment or care of patients afflicted by lung, bowel, breast or prostate cancer.
- National and regional healthcare providers, healthcare payers, policymakers and authorities in European regions, Member States and Associated Countries have the evidence to engage in piloting, scaling up or implementing suitable cancer control interventions for people at risk of or afflicted by lung, bowel, breast or prostate cancer.

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# Phase 1 including first-in-human clinical trials to test biomarker-guided medicines or multi-modal treatment interventions for patients with rare or very rare cancers or cancer subtypes

HORIZON-MISS-2027-02-CANCER-03

Program: **Horizon Europe  
Cancer Mission**

Típus: **Research and  
Innovation Action**

TRL szint: **nem releváns**

Támogatás projektenként: **7 - 9 M EUR**

Támogatott projektek száma: **3**

Pályázati felület megnyílik: **2027. február 10.**

Beadási határidő: **2027. szeptember 21.**

Felhívás linkje: [LINK](#)

Proposals under this topic should aim to deliver results that are directed and tailored towards, and contribute to all of the following expected outcomes:

- Patients with rare or very rare cancers or cancer subtypes have access to tailored, promising biomarker-guided medicines or multi-modal treatment interventions via participation in subsequent clinical trials or national or regional compassionate use programmes by health authorities;
- Researchers, physicians, innovators<sup>152</sup>, startup, spin-off and spin-out companies, SMEs, charities or foundations and other professionals from different disciplines and sectors have access to innovative technology, medical devices or promising biomarker-guided medicines for further validation or commercialisation;
- National healthcare providers, policymakers and authorities in European regions, EU Member States and Associated Countries have early safety and efficacy evidence to support further testing of affordable biomarker-guided medicines or multi-modal treatment interventions that benefit patients with rare or very rare cancers in their healthcare systems;

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# Improving equitable health outcomes and added value for and with cancer patients through health-economics research, health systems research and outcomes research

HORIZON-MISS-2027-02-CANCER-04

|                              |   |
|------------------------------|---|
| Program:                     | <b>Horizon Europe<br/>Cancer Mission</b>  |
| Típus:                       | <b>Research and<br/>Innovation Action</b> |
| TRL szint:                   | <b>nem releváns</b>                       |
| Támogatás projektenként:     | <b>5 - 7 M EUR</b>                        |
| Támogatott projektek száma:  | <b>3</b>                                  |
| Pályázati felület megnyílik: | <b>2027. február 10.</b>                  |
| Beadási határidő:            | <b>2027. szeptember 21.</b>               |
| Felhívás linkje:             | <a href="#">LINK</a>                      |

Expected outcomes:

- People at risk of cancer, cancer patients and their caregivers/families benefit from access to more effective and cost-effective, national or regional, cancer control programmes across EU Member States and Associated Countries.
- Researchers, physicians, innovators, SMEs and other professionals from different disciplines and sectors have access to national, regional or local data on healthcare spending (such as expenditures, resource allocations, organisation and type of healthcare interventions, and for which cancer indications, infrastructure, medical prescriptions, drug pricing, drug sales, reimbursement data from health insurers, population-based cancer registries or other cancer-centred registry data, longitudinal epidemiology data) for research and commercial purposes.
- National or regional healthcare systems, healthcare providers, policymakers and authorities in European regions, EU Member States and Associated Countries have the evidence to improve equitable health outcomes of cancer patients by addressing direct and indirect costs, delivering value-driven cancer care and tackling organisational challenges of a rapidly-changing, dynamic cancer control landscape.

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# Pre-commercial procurement of affordable solutions for healthcare systems in the areas of cancer technologies, cancer medical devices, or cancer medicines

## HORIZON-MISS-2027-02-CANCER-05

Program: **Horizon Europe  
Cancer Mission**

Típus: **Pre-commercial  
Procurement**

TRL szint: **nem releváns**

Támogatás projektenként: **8 -10 M EUR**

Támogatott projektek száma: **3**

Pályázati felület megnyílik: **2027. február 10.**

Beadási határidő: **2027. szeptember 21.**

Felhívás linkje: [LINK](#)

### Expected Outcome:

- Public procurers, possibly in cooperation with private ones, in the area of cancer-centred healthcare stimulate the competitive development of market-ready, affordable, innovative solutions.
- The chosen solutions take into consideration the needs of cancer patients living with and beyond cancer through research that supports end-user engagement using participative research models.
- Procurers create opportunities for European health, technology and medical devices, industrial actors (including start-ups, spin-offs, spin-outs, scale-ups, SMEs) to bring to the market affordable innovations that are cost-efficient, safe and have demonstrated improved health outcomes for cancer patients living with and beyond cancer.
- Procurers facilitate the commercialisation of innovative solutions for and with cancer patients by their successful suppliers through providing them with first customer references for the validation and first pilot deployment.
- Policymakers, healthcare providers and professionals, cancer patients and their carers – each in their respective areas – exchange and adopt good practices and the best treatment, technology and medical device solutions that the market can deliver through participative research.

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# Support a Young Cancer Survivor Quality of Life (QoL) research programme by cancer charities and funding agencies

HORIZON-MISS-2027-02-CANCER-06

|                              |  |
|------------------------------|--|
| Program:                     | <b>Horizon Europe<br/>Cancer Mission</b> |
| Típus:                       | <b>Coordination Support<br/>Action</b>   |
| TRL szint:                   | <b>nem releváns</b>                      |
| Támogatás projektenként:     | <b>3 M EUR</b>                           |
| Támogatott projektek száma:  | <b>1</b>                                 |
| Pályázati felület megnyílik: | <b>2027. február 10.</b>                 |
| Beadási határidő:            | <b>2027. szeptember 21.</b>              |
| Felhívás linkje:             | <a href="#">LINK</a>                     |

Proposals under this topic should aim to deliver results that are directed and tailored towards and contribute to the following expected outcomes:

- Together, a network of registered cancer charities and funding agencies support transnational research and innovation projects on quality of life of children (age range 0-14, age at time of first diagnosis), adolescents (age range 15-19, age at time of first diagnosis) and young adults (age range 20-39, age at time of first diagnosis), cancer patients and survivors using their own financial resources.
- Projects supported by the network of charities and funding agencies will boost quality of life and long-term outcomes for young cancer patients and survivors, including improved physical, emotional, and social well-being.
- Researchers, innovators, and professionals from different disciplines and sectors ensure accessibility and re-usability of relevant digital data, to support the future UNCAN.eu research data platform, which is currently in preparation.

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