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CCI4EU

Comprehensive Cancer Infrastructures 4 Europe

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Summary

The main purpose of the Capacity Building (CB) foundation program is to establish a comprehensive set of interventions and resources accessible to all teams in all Member States (MSs) and Associated Countries (ACs). This program is designed to support the development and improvement of Comprehensive Cancer Infrastructures (CCI), by strengthening their research and innovation capacities.

Additionally, it will lay the groundwork for developing an online training course open to teams in all MSs and ACs, directed at the various CCI teams. Furthermore, it will form the basis and support the implementation of two types of onsite interventions: (a) Deep Dives in up to ten CCIs in MSs with targeted interventions involving expert consulting teams, and (b) 3 regional conferences aimed at widening participation countries to implement CB among teams from CCIs.

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1. Introduction

A Capacity Building (CB) intervention is defined as an initiative that strengthens an organization's ability to fulfill its mission by promoting strong governance and a sustained commitment to achieving results.

The deliverable D4.1 describes the design of a foundational CB program that encompasses a basket of interventions targeted to all Comprehensive Cancer Infrastructures (CCI) in a Member State (MS) or in an individual region within an MS. The collected materials and interventions of this CB program will be openly accessible to the public (WP5).

Appropriate interventions were identified by means of a literature review and structured expert interviews. Interventions may consist of different materials and activities including – but not limited to - checklists, Standard Operating Procedures, informative documents, templates or webinars, depending on the subject and context. Importantly, one single activity may not be sufficient to improve capacities in a given institution – rather a combination of interventions should be chosen to ensure a comprehensive and sustainable effect.

CB interventions may address various critical areas for improving CCIs, such as optimizing underutilized infrastructures, like clinical trial units or molecular boards, which are often not fully utilized due to limitations in staffing or training. These infrastructures could greatly benefit from CB interventions that support better collaboration, enhance staff training in specialized areas, and optimize their overall performance. Additionally, through access to best practices from similar institutions, such infrastructures can benefit from peer learning and twinning interventions, which facilitate the sharing of knowledge and experiences that can lead to improved practices and outcome.

Another key area in strengthening the capacity of a CCI is the role of patient pathways. The management of patient pathways is often fragmented or unclear in many centers, leading to inefficiencies in care delivery. A CB intervention could significantly benefit the patient pathway by clarifying and structuring the roles of patient pathway coordinators. Providing tailored training and tools enables coordinators and multidisciplinary teams to manage the patient journey more efficiently, ensuring patients receive the appropriate care at every stage of treatment. For this, materials such as the development of standardized templates, webinars on best practices in patient journey management, and comprehensive manuals that clearly outline the responsibilities and actions of coordinators are suitable.

To implement this Capacity Building process, we created a comprehensive CB program that includes a range of interventions validated by the participating experts, tailored to the specific needs of the centers and professionals involved. Among the interventions and materials provided are: webinars on the ESO platform, templates to improve document management and organization of centers, good practice examples from other centers, podcasts and webinars, as well as links to external resources. All of this information is currently being centralized in a user-friendly, open-access web platform, available to the general public (WP5).

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In summary, the Capacity Building interventions aim not only to offer one-time resources but to establish a continuous process of learning and improvement, matched to the specific needs of each center, with a focus on optimizing underutilized infrastructures and clarifying key roles such as the patient pathway coordinator or clinical trial unit for research. This integrated and collaborative approach ensures that CCIs can sustainably and effectively enhance their capacities in the long term.

2. Methodology

To create the index of materials and resources required for developing the CB pool of interventions, a participatory methodology was chosen, involving a literature review and structured interviews with key experts from various themes included in the maturity model.

Initially, the methodology for creating the CB involved a literature review of potential types of interventions and how best to apply them, depending on the specific objectives and circumstances of the recipient. These interventions include both online and onsite activities such as webinars, self-study materials, checklists and templates for specific tasks, expert consultations, gap and barrier analysis, peer reviewing and mentoring.

Following the literature review, it was decided, in agreement with the project management and other WP partners, to complement the gathered information by conducting structured interviews with experts ([Annex 1: Structured Interview](#)). Eight interviews, each approximately 45 minutes long, were conducted with key individuals covering clinical, research, organizational/policy-making, and patient perspectives (Table 1). To ensure regional diversity across Europe, experts were selected from the East (Poland), North (Norway), South (Italy, Spain, Greece), small countries (Ireland), and large countries (Germany).

In parallel, objectives for the CB were defined according to the criteria and maturity model developed in WP2 for all seven themes. To ensure compliance with timelines, WP2 provided criteria by theme in a sequential manner. Additionally, brainstorming sessions with experts in the different themes, as well as patient representatives, were conducted to detect previously unidentified needs.

Finally, a consensus face-to-face meeting among representatives of the participating institutions in WP4 was used to assign the most appropriate interventions to each objective, ensuring a tailored approach for each unique context and requirement.

Table 1: Experts interviewed

Expert Name	Expertise Ambit	Institution/Hospital	Country
Dr. Josep Maria Borrás	National Cancer Program	Institut Català d'Oncologia (ICO)	Spain
Dr. Iwona Logovska	Clinic Research	Maria Skłodowska-Curie Institute of Oncology (NIO-PIB)	Poland
Mrs. Kathi Apostolidis	Patient View	European Cancer Patient Coalition (ECPC)	Greece
Mrs. Patricia Doherty Mrs. Jacintha O'Sullivan Mrs. Julien O Grady Mrs. Audrey O Hallum Mrs. Jane Murphy Mrs. Deborah Cross Mrs. Val O'Brian	Nurse Education Program Nurse Research Surgery, Anesthesia and Critical Care	Trinity St James's Cancer Institute (TCD)	Ireland
Dr. Chistoph Ostgathe	Palliative Care	Friedrich-Alexander-Universität Erlangen-Nürnberg	Germany
Dr. Hege Elisabeth Giercksky Russnes	InPreD- research	Oslo University Hospital (OUS)	Norway
Dr. Mritxell Bellet	Clinical Care	Vall d'Hebrón Institute of Oncology (VHIO)	Spain
Dr. Verena Murphy	Business Development Clinical Trials	Irish Association for Cancer Research (IACR)	Ireland

The layout of the CB Program Index ([Annex 2. CB Program Index](#)) was structured based on the Maturity Model (MM) developed by WP2 as well as insights from the expert interviews. The index is divided into various dimensions. The first dimension, "Theme," includes the eight themes from the MM. The second dimension divides each theme into different "subthemes," along with the "objective" of each subtheme. Following this, a series of "Recommended Interventions" and "Recommended Materials" per subtheme is included. This selection of recommendations is based on the interviews with experts and several online and offline meetings with partners from WP4 and WP6, among others, to reach consensus.

Following several meetings with WP5, the group responsible for developing the project's e-tool, it was decided to add various tags to improve the organization, clarification, and usability of the materials on the website were added ([Annex 2. CB Program Index](#)). The newly associated categories include:

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- Description: Free text (to be completed upon selection of materials)
- Resources (Taxonomy filter): Dropdown menu featuring the four options suggested (Case studies, Learning, Planning, Templates)
- Topic: Dropdown menu including the six proposed categories (Data, Finance, Governance, ICT, Research, Clinical Practice)
- Target Audience: Suggested categories: Managers, Professionals, Patients
- Content Type: Dropdown menu featuring the six options suggested (Audio/podcast, Checklist, Document, External website, Organigram, Video/webinar)
- Materials that have been identified as useful in several themes/subthemes are marked here in yellow and will appear independently in the web tool.

To coordinate the team's efforts based on the available time, a prioritization system was introduced for developing/creating the different materials (Priority: high (1), medium (2), low (3)), along with a complexity system for obtaining/creating these materials (Complexity: easy (1), medium (2), hard (3)).

Materials were collected in a parallel approach, encompassing a web-based search to collect already existing materials on websites ((e.g., ISO, ERN, CCCs, ...) or contacting various hospitals and institutions (partners of the project), requesting materials to share in the framework of the CB foundational programme to improve the capacities of different centres.

For objectives where no available resources were identified, necessary materials have been or are being created– if needed in collaboration with other centres and experts. The prioritization system is utilized to ensure timely delivery of materials.

Once the collection/creation of materials is complete, the most suitable materials for each intervention are selected, validated (peer-reviewed) by experts in the different themes and subsequently uploaded to the project's online platform.

3. Conclusions

This report provides a summary of all the steps taken to design the CB Foundation program, as well as the index and methodology employed for the collection of various materials and resources that will be available on the project's digital platform.

Our next steps will be:

- Designing the CB route for each Deep Dive Program (WP5/WP6). Deliverable 4.2
- After the first visit of WP6 to the selected Deep Dives, we will re-assess the content of the program and provide/produce the materials that are felt to be missing as per their feedback (experts and CCIIs)

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Note: the index is available on the SharePoint created for the project, to provide access to all the partners to the most updated version of the program and thus, ensure coherence among the WPs .

Updates:

Version	Reason for update	Responsible	Revisors	Date
0	Creation	Alejandro Piris (VHIO), Claudia Valverde (VHIO), Magora Torres (VHIO), Christina Stangl (VHIO)	Co-Leads: Simon Oberst (OECI), Per Magnus Maehle (OUS), Ingrid Jenny Guldvik (OUS), Anders Øverbye (OUS) Participant Institutions: OECI, OUS, TUD, ICO, ECPC, DKG, KI, EORTC, DIGICORE, IARC, ACC, DKFZ, INT, Tartu, IGR, IOL	28/06/2024
1	Revision request by the European Commission.	Alejandro Piris (VHIO), Claudia Valverde (VHIO), Magora Torres (VHIO), Christina Stangl (VHIO)	Co-Leads: Simon Oberst (OECI), Per Magnus Maehle (OUS), Ingrid Jenny Guldvik (OUS), Anders Øverbye (OUS)	17/03/2025
2				

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Annex 1: Structured Interview

Structured Interviews with Experts (Intervention Validation)

Welcome, and thank you for participating in this project. You have been selected as an expert to assist in developing optimal interventions for enhancing capacity in European health centers. We'll focus on the interventions highlighted in bold from the provided PowerPoint presentation containing the project basics and intervention list.

To achieve our objective, we've designed a structured interview focusing on specific interventions deemed interesting by the team. This interview should not take more than 30 minutes.

Background:

1. Field of Expertise: Autocategorization

- Clinician: Medical Oncology/Pediatric Oncology/Hematology/AYAs/Surgery/RT Oncology/Pathology/Radiology/Nuclear Medicine/Nurse/Palliative Care/Psychology/Social Work/Preventive Medicine/Primary Care Ph/Genetic Counseling/Other
- Patient/Patient Advocate
- Administrative/Organizational: Quality Team/CEO/Director/Project Manager/Informatics/Policy Maker/Legal Advisor/Other
- Research: Basic/Translational/Clinical/Technology Transfer

2. Any prior experience in Capacity Building related to the listed themes? If yes, please describe the experience and the involved public.

Regarding the table of interventions:

1. Do you have any experience with any of these interventions as a trainer or learner?

2. From your prior experience, which intervention/s proved most valuable? Why?

For interventions in which the expert has experience:

1. What do you consider as the advantages of [specific intervention]?

(e.g., affordability, efficiency for simpler topics, live demonstrations...)

2. What do you perceive as the disadvantages of [specific intervention]?

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(e.g., expensive, technical issues, time-consuming...)

3. What material resources do you think are necessary for success in this intervention?

(e.g., internet connection, digital facilities...)

4. What human resources do you believe are necessary for success in this intervention?

(e.g., experts, technicians, nurses, physicians...)

5. Do you believe this intervention targets individuals, institutions, or systems? What audience is it aimed at: professionals, patients, administrative profiles, directors, or others?

6. Are there specific areas where you think this intervention could be more useful?

7. Do you think there might be any interesting interventions missing from the list? If so, which ones? Please share any previous experiences related to them.

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Annex 2: CB Program Index

THEME 1: Structure of the Comprehensive Cancer Infrastructure (CCI)								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Scope and members (structure) of the CCI	Structural and functional comprehensiveness	1st online course on CCI (live jul/24 or recorded), Templates, Gap and Barrier analysis, podcast on cross border collaboration	Governance Organigram Templates	Templates	Governance	Managers	Organigram	1.CCI Organigram Template 2.Governance Institut Curie en
			Checklist for areas and member information that could be included	Planning	Governance	Managers	Checklist	1.CCI Coordination Point, Coordination Board and Members
			1st online course on CCI (live 4/7/24 or recorded) Course: What does a CCI do? Link to E7, E9, E13, E30	Learning	Governance	Managers, Professionals	Video/webinar	1 https://www.e-eso.net/courses/24CC1#eso-desc 2 https://www.e-eso.net/sessions/3964
			Cooperation agreement example	Case studies	Governance	Managers	Document	1.Cooperation Agreement Example- ONCOZON 2.Cooperation Agreement for a Comprehensive Cancer Infrastructure or Network
Operational structure of the CCI	Setting a clear organizational approach	1st online course on CCI (live jul/24 or recorded), Templates	Foundational and procedures SOP template (Rules of procedure)	Templates	Governance	Managers	Document	1.Rules of Procedure SOP template (Magora) 2.Rules of procedure CCC-ER-EMN en
			1st online course on CCI (live 4/7/24 or recorded) Course: What does a CCI do? Link to E4					
	Assuring sustainability	1st online course on CCI (live jul/24 or recorded), Expert consultation, specific webinar on financial plan	List of experts for consultation (through contact point)	Planning	Governance	Managers	Document	ContactpointCCI4EU@vhio.net
			1st online course on CCI (live 4/7/24 or recorded) Course: What does a CCI do? Link to E4					
			Checklist/tips for financial plan	Templates	Finance	Managers	Document	
	Supporting coordination		Fundational description template for coordination point and board	Templates	Governance	Managers	Document	1.Foundational document_ Coordination Point and Board (Magora)
Tasks of the CCI	Having a clear strategic plan (link to Theme 3 interfaces)	Regional symposium on CCI (live jul/24 or recorded), Templates, gap & barrier analysis	Example of methodology for setting up a strategic plan Link to E42	Case studies	Governance	Managers	Document	1.HUVH_Strategic_Plan 2.CUR02_Brochure_Curie2030_English_v2_c
			Regional symposium on CCI (live jul/24 or recorded) Link to E8					
			Strategic plan checklist including assistential, reseach and educational aspects	Planning	Governance	Managers, Professionals	Checklist	1.Strategic_Plan_Checklist (Magora)
			Checklist of aspects to include in the strategic plan	Planning	Governance	Managers	Checklist	1.Strategic_Plan_Checklist for the further development of the CCI (Magora)
			List of resources (apps/programs) that could help to develop/monitor the strategic plan Link to E45	Planning	Governance	Managers	Document	1.Strategic_Planning_Tools (Magora)

THEME 2: Comprehensive Cancer Center (CCC)								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Certification according to CRANE criteria or OECl/DKH	Setting clear and functional Governance	Webinar on accreditation, template, guideline	Governance Organigram Templates	Templates	Governance	Managers	Organigram	1. Governance Organigram Templates 2.CCC2_Organigramm_2023; 3.Organigram_CCCC_Koordinierungsbereiche 4.OECl Governance Paper_08.04 5.OECl_Manual_V.3.2: https://www.google.com/url?sa=t&source=web&rct=j&opi=89978449&url=https://www.oeci.eu/Attachments/OECl_AD_MANUAL_3_2_2022.pdf&ved=2ahUKEw9qZjV5KuKAwW2V6QEHZYWDBIQFnoECBkQAQ&usq=AOvVaw3FQ5INyx6cNBDXhL578UJ
			Webinar on accreditation	Learning	Governance	Managers, Professionals	Video/webinar	1. The OECl Accreditation & Designation Programme: https://www.youtube.com/watch?v=gy2XAbzW100
			Guiding manual (CRANE, OECl?)	Planning	Governance	Managers	External website	1. OECl_Manual_V.3.2; Governance_and_Management: https://www.oeci.eu/PublisherMagazine.aspx?dtipo=10 2. https://accreditation.oeci.eu/practice/programme-structure/ , 3. https://accreditation.oeci.eu/wp-content/uploads/2022/11/AD-Paper-on-governance_13.04.2022.pdf
	Supporting multidisciplinary & Patient pathway	Networking promotion Refer to theme: Patient Pathways	Webinar on existing networks and EU programs		Planning	Governance	Managers	
	Development of Education & Training program	Webinar, podcast, template	Webinar on education for nurses	Learning	Clinical Practice	Managers, Professionals	Video/webinar	1 https://eso.video.primedtec.com/PrimeditecSession/Vdo/e/external/index.html?IdSession=2442&feedback=https%3A%2F%2Fwww.eso-net%2Fplayer%2Ftrace%3FsessionId%3D3932%26uniqueId%3D71de526-5626-4e09-8a8a-3e1a8bc80d4
			Webinar on education for patients	Learning	Clinical Practice	Managers, Professionals, Patients	Video/webinar	1 hcea guidelines color 1-25-2021.pdf (hcea.info)
			Example of educational program	Case studies	Clinical Practice	Managers, Professionals	Document	1.Patient Education course for professionals_IC 2. https://accreditation.oeci.eu/practice/central-onboarding-introduction-programme/
			Podcast of appraisal after educational activity	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	
			Podcast on ways to gather information on educational needs	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	
			Examples of written materials for patients	Case studies	Clinical Practice	Managers, Professionals, Patients	Document	1 Education Materials for Your Patients Cancer Handouts and Flyers American Cancer Society 2 UTEF booklet - April 23 version en*
	Promotion of Research & Innovation	Refer to Themes 4. Discovery & Translational research, 5. Clinical research, 6. Outcomes of Research						
	Clinical Cancer Registry	Regional symposium on CCI (live jul/24 or recorded), Expert consultation, specific webinar?, visit to expert	Regional symposium on CCI (live jul/24 or recorded) Link to E8					
			List of experts for consultation (through contact point)	Planning	Governance	Managers, Professionals	Document	
			List of centers/experts for mentoring (through contact point)	Planning	Governance	Managers, Professionals	Document	
	Participation in Prevention & Early detection	Refer to theme 7. Screening & Early detection	Check list with minimal information to be gather in the registry Link to E140	Planning	Governance	Managers, Professionals	Checklist	1. Checklist registry (minimum); https://encr.eu/ENCR-Recommendations 2. ESMO checklist by tumor: https://oncologypro.esmo.org/oncology-in-practice/practice-tools/esmo-checklists . 3. IPPAC types of registries: https://www.ipaac.eu/res/file/outputs/wp7/advancing-registries-data-integration-administrative-data-sources.pdf

THEME 3: Interfaces								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Interface Platform	Establish an Interface-Working Group (WG)	Template and checklist, podcast on the role of IF-GW	Template of foundational document (objective, mission function and checklist for areas and member information to be included)	Templates	Governance	Managers	Document	1. Foundational document_IF-GH (Magora)
			Examples Of Minutes templates (checklist)	Planning	Governance	Managers	Checklist	1. Interface-Working Group (WG) Minute (Magora)
			Podcast on the role of IF-WG	Learning	Governance	Managers	Audio/podcast	
Interface Topics	Launch a Common data infrastructure	Template, podcast on how to launch a common data infrastructure	data utilization concept (including coordinated specifications for data definition, collection, storage and analysis, as well as patient consent and participation in the concept, etc)	Learning	Data	Managers	External website	1. https://accreditation.oeci.eu/practice/the-integrative-approach-and-mechanisms-of-it-use/
			Podcast on how to launch a common data infrastructure	Learning	Data	Managers, Professionals	Audio/podcast	1. Paper_The Molecular Tumor Board Portal supports clinical decisions and automated reporting for precision oncology
			Link to data sets corresponding to the national/European/international standards/classifications (e.g. ICD-10, ICD-O, WHO, DICOM).	Planning	Data	Managers, Professionals	External website	1. ICD-11: https://icd.who.int/en 2. ICD-O: https://www.who.int/standards/classifications/other-classifications/international-classification-of-diseases-for-oncology 3. DICOM: https://www.siemens-healthineers.com/es/services/it-standards/dicom-conformance-statements-oncology-care 4. ORPHANET: https://www.orpha.net/en/disease
	Establish an overall research strategy (link to theme 1, 4 and 5)	Regional symposium on CCI (live jul/24 or recorded), Templates, Mapping the research in the CCI	Example of methodology for setting up a strategic plan Link to E12					
			already in theme 4					
			already in theme 4					
	Improve patient involvement and participation	Webinar (including MDT and patients)	List of resources (apps/programs) that could help to develop/monitor the strategic plan Link to E16					
			Webinar engage patients /professionals	Planning	Clinical Practice	Managers, Professionals, Patients	Video/webinar	1.Video_The Importance of Your Participation in Health Care A Call to Action for Healthcare Professionals
			+ Humanization of communication					2. Transcript_The Importance of Your Participation in Health Care A Call to Action for Healthcare Professionals
			List of patients associations with expert patients (in research) (through contact point) Link to E88, E133, E134	Planning	Clinical Practice	Managers, Professionals, Patients	Document	3.Video_The Importance of Your Participation in Health Care A Call to Action for Patients
			Checklist on potential activities for participation Link to E48	Planning	Clinical Practice	Managers, Clinicians, Patients	Document	4. Transcript_The Importance of Your Participation in Health Care A Call to Action for Patients
	Establish an educational and training agenda for professional groups (link to education in each subtheme)	Templates, mapping the existing education and training agendas	Templates of training agendas including (research, care, different professionals groups)	Templates	Clinical Practice	Managers, Professionals	Document	1. Training-plan-template (NHS England)
			Links to training modules	Learning	Clinical Practice	Managers, Professionals	External website	1. IARC: https://learning.iarc.fr/ 2. ESO: https://www.eso.net/ 3. ESMO: https://oncologypro.esmo.org/education-library/esmo-e-learning-and-v-learning 4. COURSERA: https://www.coursera.org/courses?query=oncology&utm_medium=s&utm_source=gg&utm_campaign=B2C_EMEA_coursera_FTC_OF_career-academy_pmax-multiple-audiences-country-multi-set2&campaignid=20882109092&adgroupid=&device=c&keyword=&matchtype=&network=x&deviceid=&adposition=&creativeid=&hide_mobile_promo&gad_source=1&gclid=Cj0KCQwtsy1BHD7ARlsAHOi4xB5SEMhOWm8R1MLmB-3sj95DRtBHDrswCFJQVLoJYHnaUzFQYBm4AhoZEAUw_wcB
	Establish a working group for QM	Mentoring, Webinar for internal auditors	methodology for developing guideline-based quality indicators (QIs)	Learning	Governance	Managers, Professionals	Document	1. Methodology for developing guideline-based quality indicators (QIs)-DKG 2. patient safety: https://www.e-eso.net/sessions/554
			course to train internal auditors	Learning	Governance	Managers, Professionals	Document	1. Internal audit procedure_VHIO_ENGLISH 2. clinical audit in practice; https://www.e-eso.net/sessions/3732
			List of centers/experts for mentoring (through contact point)	Planning	Governance	Managers, Professionals	Document	

THEME 4: Discovery & Translational Research								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Organization of core research capacity	Up-to-date platforms & facilities + use plan link to theme 5 clinical research	podcast on organization of facilities (examples of success), checklist, template	Equipment use plan example (list of platforms, capacity, throughput time, how to access them, contact person, access to data, MAINTENANCE, CALIBRATION, etc) Link to E94	Case studies	Governance	Managers, Professionals	Document	1.Example Collaboration Model for MTU-ICT at OUS_ENG, 2.Mandate of the Prioritization Committee for Medical Technical Equipment (MTU) 3.SOP_MAINTENANCE AND CALIBRATION OF EQUIPMENT_english 4.example core facilities (https://www.ous-research.no/core-ous/)
			Podcast on organization of facilities (examples of success)	Case studies	Governance	Managers, Professionals	Audio/podcast	
			Quality plan for RESEARCH Link to E95	Case studies	Governance	Managers, Professionals	Document	1.QualityManual_Implementation_Research-Projects_English 2.Research ethics and research integrity in medical and health research projects_OUS_ENG, 3.Research procedure - health research projects_OUS_ENG
	Developing a biobank	Webinar on faults and pitfalls, paper, checklist, list of experts, mentorship	Checklist for data collection (type, date, collection method, etc)	Planning	Data	Managers, Professionals	Checklist	1.Biobank - Creation and organization of a general research biobank (OUS_NOR) 2.Biobank - Creation of specific research biobank (OUS_NOR) 3.Paper_Starting_a_Biobank 4.https://learning.iarc.fr/biobanking/ 5. IARC_Technical_Standards_Protocols_Biobank 6.ISBER_Best_Practices_Recommendations_2018
			Webinar on faults and pitfalls	Learning	Data	Managers, Professionals	Video/webinar	1.PODCASTS: https://www.bbmri-eric.eu/bbmri-eric/bbmri-eric-podcast/
			List of experts for consultation (through contact point)	Planning	Data	Managers, Professionals	Document	1.list of Biobank-experts_1.0
			List of centers/experts for mentoring (through contact point)	Learning	Data	Managers, Professionals	Document	
	Potentiating a Clinical Trial Unit and Office link to Theme 5. Clinical Research	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded),Podcast on examples of Success (Iwona LJ), mentorship, SOP	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E69,E85,E87,E93,E96,E104,E123,E126,E138,E144,E145,E178	Learning	Research	Managers, Professionals	Video/webinar	https://www.e-eso.net/courses/24C2a#eso-desc
			Podcast on examples of Success (Iwona LJ) Link to E97	Learning	Research	Managers, Professionals	Audio/podcast	Claudia: pending Iwona availability
			List of centers for visit (BBMRI)(through contact point) Link to E98	Planning	Research	Managers, Professionals	Document	
			SOP for founding procedures Link to E99	Planning	Finance	Managers, Professionals	Document	1.SOP_Elaboration_research_projects_application_financial_aid_english
	Setting a Molecular Tumor Board-> link to theme 8 patient pathway Improving the use of the produced data (link to theme 5 Clinical research)	Podcast, SOP, regional conference	Podcast on examples of Success Link to E103	Case studies	Research	Managers, Professionals	Audio/podcast	
			Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded + 3rd online course) Link to E63					
			Paper on experience Link to E106	Learning	Research	Managers, Professionals	External website	1.Paper_Multicenter Comparison of Molecular Tumor Boards in The Netherlands 2.Paper_Implementing and Tracking a Molecular Tumor Board
			Catalogue of standard operating processes Link to E108	Learning	Research	Managers, Professionals	Document	1.DTA_VHIO, 2.Data management plan in Research_OUS_ENG 3.Template DTA 4.DSA Template 5. DATA MANAGEMENT AND SHARING PLAN
			link to DMP tool	Planning	Data	Managers, Professionals	External website	1.Research and clinical trial databases (ESMO): https://www.esmo.org/research/research-groups-tools-and-database/databases 2.Research tools (ESMO): https://www.esmo.org/research/research-groups-tools-and-database/research-tools
			Template for Consent Form Link to E113	Templates	Governance	Managers, Professionals	Document	WIP, 1.DTA_VHIO, 2. Informed consent for all forms of studies (OUS-ENG)
			Link to GDP regulation agency to each member state Link to E114	Planning	Governance	Managers, Professionals	External website	1 https://www.norclin.no/en/gcp-e-learning-course/ 2 https://www.ema.europa.eu/en/human-regulatory-overview/research-development/compliance-research-development/good-clinical-practice/good-clinical-practice-inspectors-working-group

Framework for conducting translational research	Establishing the regulatory framework	Template, links GCP courses						Good Clinical Practice Inspectors Working Group 1 European Medicines Agency (EMA)
			SOP for getting consent form Link to E115	Planning	Governance	Managers, Professionals	Document	WIP
			Checklist for documentantion for Ethical Committee aproval Link to E116	Planning	Governance	Managers, Professionals	Checklist	1. SOP_Consent_form_HUVH 1. Checklist for documentantion for Ethical Committee aproval (Magora) 2. European Code of Conduct for Research Integrity allea.org 3. https://whir.vallhebron.com/en/institute/committee-and-commissions/clinical-research-ethics-committee-ceim
			Template for Approval and initiation process (times,contacts, etc) Link to E117	Templates	Governance	Managers, Professionals	Document	1. European platform CTIS: https://www.ema.europa.eu/en/human-regulatory-overview/research-development/clinical-trials-human-medicines/clinical-trials-information-system
	Improving funding opportunities (link to theme 5)	Podcast on Grant support office	Podcast on Grant support office Link to E118, E173	Learning	Finance	Managers, Professionals	Audio/podcast	1. webinar How to write a Grant (ESO) https://www.e-eso.net/sessions/3285 2. webinar Writing a grant (ESO) https://www.e-eso.net/sessions/1849
			SOPs (Irene Mateo, pendieng response) Link to E119	Planning	Finance	Managers, Professionals	Document	1. Policy on Grant Application_EORTC
	Supporting innovation (link to theme 5)	Podcast on the work of a Technology Transfer Office, SOP	Podcast on the work of a Technology Transfer Office Link to E120	Learning	Governance	Managers, Professionals	Audio/podcast	1. https://open.spotify.com/episode/771m0xyl6mbf1tNAD3hu6A7ai-bald878c46c64697 2. Working with your Tech Transfer Office https://www.youtube.com/watch?v=CfA2koudkpo&t=1189s 3. https://www.kwf.nl/en/forresearchers/toolkitfordevelopment/jp-commercialization
			SOP foundational for TTO Link to E121, E175	Planning	Governance	Managers, Professionals	Document	WIP
			SOP for integrating innovations in the clinic Link to E122, E176	Planning	Governance	Managers, Professionals	Document	WIP 1. https://accreditation.oeci.eu/practice/translational-research-and-innovation/ , 2. preclinical studies and clinical impenetation: https://www.e-eso.net/sessions/2125
	Having a clear strategic plan	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), Template	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Example of strategic research plan (including other sciences) Link to E86	Case studies	Research	Managers, Professionals	Document	1. VHIR-Strategic-Plan_Research en
Networking	Involving academia, industry and patients in research	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), podcast on examples of success, webinar on involving patients in reseach, Webinar on existing networks and EU programs	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			List of patients associations with expert patients (in research) (through contact point) Link to E47					
Training and education	Improving education opportunities in translational research	Links to training modules, list of experts, examples of mentoring, Podcast on opportunities for career development	Links to training modules	Learning		Managers, Clinicians, Researchers	External website	https://accreditation.oeci.eu/practice/training-and-education-system/paper-writing https://www.e-eso.net/courses/23WM_benefits_of_fellowship https://www.e-eso.net/sessions/3965_for_nurses https://www.e-eso.net/sessions/3777
			Podcast on opportunities for career development	Learning		Managers, Clinicians, Researchers	Audio/podcast	1. Podcast How to join international research coalition (ESO) https://www.e-eso.net/sessions/3168 2. Choosing between an academic and clinical career: https://www.e-eso.net/sessions/3201 3. The role of clinician-scientists in modern oncology (ESO) : https://www.e-eso.net/sessions/3179
			List of centers with good examples of career development (through contact point)	Planning		Managers, Clinicians, Researchers	Document	1. OUS-CAM tool for competence assessment and career guidance for researchers in OUS .pdf

THEME 5: Clinical Research								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Organization of core research capacity	Up-to-date platforms & facilities + use plan link to theme 4 translational research	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), Templates	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Equipment use plan example (list of platforms, capacity, throughput time, how to access them, contact person, access to data,etc) Link to E56					
			Quality plan for RESEARCH Link to E58					
	Potentiating a Clinical Trial Unit and Office (link to theme 4)	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded),Podcast on examples of Success (Iwona L), perceptorship, SOP, Podcast on activity and importance of Quality and assurance Control	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Podcast on examples of Success (Iwona L) Link to E64					
			List of centers for visit (BBMRI) (through contact point) Link to E65					
			SOP for founding procedures Link to E66					
			Template for phase II/III/IV activity report	Templates	Research	Managers, Professionals	Document	1.GUIDELINE FOR CLINICAL INTERVENTIONAL AND OBSERVATIONAL STUDIES
			Template of guideline to clinical trial monitoring	Templates	Research	Managers, Professionals	Document	2.1-4 Clinical trials -08-application-process-approvals-and-start-up (NorCRIN)
			Example of referral system Link to E151	Case studies	Research	Managers, Professionals	Document	Claudia
	Setting a Molecular Tumor Board (link to theme 8 patient pathway)	Podcast, SOP, regional conference	Podcast on examples of Success Link to E68					
			Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Example of SOP MTB members and functioning Link to E70					
			Paper on experience Link to E71					
	Improving the use of the produced data (link to theme 4 Translational research)	podcast on examples of data use, link to DMP tool	Podcast on examples of data use Link to E72					
			Catalogue of standart operating processes Link to E73					
	Organizing institutional Review Board for clinical trials	Podcast on different models of organization	Checklist of data to be collected on research (num and type of clinical trials, setting, number of pts screened and included, ..)	Planning	Data	Managers, Professionals	Checklist	Data Management Plan - literature Claudia-> 'pemdng Cristina Pérez
			Podcast on different models of organization	Learning	Governance	Managers, Professionals	Audio/podcast	perndng OECl for contact person
	Promoting staff scientific productivity	Podcast on how to assure time protection in big centers	Example of SOP	Planning	Governance	Managers, Professionals	Document	Pending OECl for contact person
			Podcast on how to assure time protection in big centers	Learning	Governance	Managers, Professionals	Audio/podcast	1. Scientists need more time to think 2. Video Time Protection Claudia --> Pending availability Cristiana Rosales -- European Commission tool + contact from Netherlands (Sade Faneyte)+ Johanna Mattson & Alek Prat (director's perspective)
Framework for conducting clinical research	Establishing the regulatory framework (Link to theme 4)	Template, links GCP courses	Template for Consent Form Link to E75					
			Link to GDP regulation agency to each member state Link to E76					
			SOP for geting consent form Link to E77					
			Checklist for documetantion for Ethical Committee aproval Link to E78					
	Improving funding opportunities (link to theme 4)	Podcast on Grant support office	Template for Approval and initiation process (times,contacts, etc) Link to E79					
			Podcast on Grant support office Link to E80					
			SOPs (pending availability Irene Matrool) Link to E81					
			Podcast on the work of a Technology Transfer Office Link to E82					
	Integration of innovation (link to theme 4)	Podcast on the work of a Technology Transfer Office, Podcast on example of success spin off	SOP foundational for TTO Link to E83					
			SOP for integrating innovations in the clinic Link to E84					
	Having a clear strategic plan (Link to theme 4)	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), Template, podcast on stimulating research in difficult areas (ex. Palliative care)	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Example of strategic research plan (including other sciences) Link to E86					
			Example of strategies to study and implement personalised cancer care/medicine	Case studies	Research	Managers, Professionals	Document	SLIDES agnostic BREAST CANCER, Claudia-> interview with Benjamin Berret : on multisarc experience ESMO 2024

Networking	Involving academia, industry and patients in research, as well as primary care	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), podcast on examples of success, webinar on involving patients in research , SOP, podcast on existing networks and EU programs, podcast on involving primary care in research	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			SOP for regulating access to clinical trials Link to E190	Planning	Research	Managers, Professionals	Document	
			List of networks of interest in oncology research	Planning	Research	Managers, Professionals	Document	
			List of centers interested in networking by area (through contact point) Link to E182	Planning	Research	Managers, Professionals	Document	
			MoU template Link to E184	Templates	Research	Managers, Professionals	Document	1.MoU-template.pdf; 2.MoU_template_example.pdf; 3.RI-VIS MoU template Reserach Infrastructure.docx;
			Example of referral system Link to E102					
Training and education	Improving education opportunities in clinical research	Links to training modules for doctors, nurses and patients, list of experts	Links to training modules	Learning		Managers, Professionals	External website	https://www.norcrin.no/en/gcp-e-learning-course/
			List of patients associations with expert patients (in research) (through contact point) Link to E47					
Patient involvement	Improving patient involvement	Podcast on examples of success	List of patients associations with expert patients (in research) (through contact point) Link to E47					
			Podcast on examples of success Link to E179	Case studies	Research	Managers, Professionals, Patients	Audio/podcast	Claudia contact Enric Barba (patient) and Greek patient-> pending answer
			Checklist on potential activities for participation Link to E48					
			Example of educational materials for patients	Case studies	Research	Professionals, Patients	Document	https://www.nih.gov/health-information/nih-clinical-research-trials-you/educational-resources : Info on clinical trials and clinical research, Slovenia; https://www.cancer.gov/research/participate/clinical-trials
ICT (Link to theme 6 Outcome Research)	Clinical Research Cancer Registry	Regional symposium on CCI (live jul/24 or recorded), Expert consultation, specific webinar?, visit to expert	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			List of centers/experts for mentoring (through contact point)	Planning	ICT	Managers, Professionals	Document	
			Check list with minimal information to be gather in the registry Link to E33					
			Template for clinical trial annual report (num pts included, num trials, type, etc)	Templates	ICT	Managers, Professionals	Document	Balance sheet_inclusions_may_2024 in-> pemding Cristina Pérez

THEME 6: Outcome Research								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Engagement and commitment of stakeholders	Understanding the importance of outcome research	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded),podcast on patient voice integration on PRO assessment	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Podcast on patient voice integration on PRO assessment (Cinzia Brunelli),	Case studies	Clinical Practice	Managers, Professionals, Patients	Audio/podcast	Expected end of September
Standardization collection of outcome data	Clinical Cancer Registry	Regional symposium on CCI (live jul/24 or recorded), Expert consultation, specific webinar (IARC), visit to expert(Netherlands)	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			List of expert sites offering a visit(through contact point)	Planning	Data	Managers, Professionals	Document	
			List of experts for consultation (through contact point)	Planning	Data	Managers, Professionals	Document	
			Check list with minimal information to be gathered in the registryPREMS and PROMS not included in these checklist Link to E206	Planning	Data	Managers, Professionals	Checklist	
	Using outcome data to improve care and research	webinar on shared decision making process and outcomes discussion, podcast on example of success	Webinar on shared decision making process and outcomes discussion Link to E205	Learning	Data	Managers, Professionals, Patients	Video/webinar	1.Podcast sheredecision making breast cancer (ESO): https://www.e-eso.net/sessions/3531 2.Webinar Why, what and how of patient reported outcomes measures in oncology (ESO): https://www.e-eso.net/sessions/2723 3. https://accreditation.oeci.eu/practice/shared-decision-making/ , 4. https://accreditation.oeci.eu/practice/the-cancer-patient-partnership-group/ , 5. https://accreditation.oeci.eu/practice/recognising-the-expertise-of-patients-and-evaluating-the-involvement-process/ , 6.supporting shared decision making in breast cancer: https://www.e-eso.net/sessions/3587
			Description of patient reported measurements and process outcomes, link to validated methods for specific populations (ex. geriatric and AYAs),	Learning	Data	Managers, ProfessionalsPatients	Document	1.ECO_Report_PROMs_January2024; 2.proms_premis_panorama_of_experiences_in_other_countries_vf.pdf; 3.Paper_PROMsAYAs; 4. https://www.kreftregisteret.no/en/The-Registries/clinical-registries/Breast-Cancer-Registry-of-Norway/Quality-objectives/ 5. https://qol.eortc.org/questionnaires/ 6. https://eso.video.promeditec.com/PromeditecGestioneVideo/external/index.html?idSessione=1833&feedback=https%3A%2F%2Fwww.e-eso.net%2Fplayer%2Ftrace%3Fsessionid%3D3D3096%26uniqueid%3D05f1b381-bc49-4765-9cf0-97f79778e5c4 7.PRO_eESO_Slides
			Examples of decision support tools.	Case studies	Data	Managers, Professionals Patients	Document	1.Paper_Decision Support Systems in Oncology_ASCO
National/Regional Cancer Registry	Linking CCI Data to National/Regional Cancer Registry (population-based Cancer Registry)	podcast on ways to link population-based cancer registry to Outcome data	Podcast on ways to link population-based cancer registry to Outcome data	Learning	Data	Managers, Professionals	Audio/podcast	PPT_CCI4EU_HBCR_ICO_ICs.pptx
ICT	Facilitating access to data	Links, template	Tips for data handling Link to E186	Case studies	Data	Managers, Professionals	Document	https://eclair-europe.org/ , request for data from cancer registry Slovenia
			Examples for legal framework for data sharing Link to E190	Case studies	Data	Managers, Professionals	Document	ex PCMEU 1.Questions_and_Answers_on_the_European_Health_data_Space.pdf; 2.DTA_VHIO; 3.Info_Data_Usage_Cancer_Registry_Slovenia; Cancer Registry 4.Policy on Data Sharing_EORTC
			SOPs for telemedicine	Planning	Data	Managers, Professionals	Document	1.Recommendations for the use of Non Face-to-Face Care channels for healthcare professionals; 2.Telemedicine_Professionals; 3.Telemedicine_Organizational Recommendations

			Examples of platforms for case discussion (ex. CPMP)	Case studies	Data	Managers, Professionals	External website	https://elixir-europe.org/
			List of experts for consultation (through contact point)	Planning	Data	Managers, Professionals	Document	
THEME 7: Screening and Early detection								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Organization and structure	Setting a clear organizational approach	Templates (coverage, referrals if positive, area..) for governance and coordination of cancer screening service delivery, podcast on ways of linking data to cancer registry	Examples of Governance Organigram Templates	Case studies	Governance	Managers, Professionals	Document	1.CanCon_Guide_4_Screening_LR.pdf. 2_Group of Chief Scientific Advisors on cancer screening SAPEA findings for European Commission
			Podcast on ways of linking data to cancer registry	Learning	Data	Managers, Professionals	Audio/podcast	
			Examples: sharing good practices of service delivery	Case studies	Clinical Practice	Managers, Professionals	Document	1. EU Mission: cancer-prevention-early-detection-and-screening-ki0924102enn 2.SAPEA report on cancer screening in EU 3.Potential costs to consider for lung cancer screening programmes 4.Performance of colorectal cancer screening in the European Union Member States: data from the second European screening report 5.Lung-cancer-screening-Building-resilience-and-sustainability- 6.Lung-Cancer-Screening_Readiness-Assessment-Tool_EN-1 7. Canada_Elimination-cervical-cancer-action-plan 2020-30-EN 8.Advancing progress in the implementation of effective high quality cancer screening (ALL) BOOK-1 9.A_short_guide_to_cancer_screening_WHO 10 Screening Best Practices: https://www.europecancer.org/screening/impact/resource/cancer-screening-best-practices.html 11. Cancer Screening Data: https://www.europecancer.org/screening/impact/cancer-screening-data.html
			Podcast on types of screening (opportunistic, age ranged) with pros/cons,	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	1. ECL Screening Guide_2018.pdf. Claudia contact people in expert meeting (sep)
			Webinar on implementation of lung cancer screening (CRTeb Checa)	Learning	Clinical Practice	Managers, Professionals	Video/webinar	1.https://www.lungcancerpolicynetwork.com/network-webinar-explores-different-approaches-to-implementing-a-lung-cancer-screening-programme 2. http://proyectocassandra.com/ 3. https://health.ec.europa.eu/non-communicable-diseases/cancer/europes-beating-cancer-plan-eu4health-financed-projects/projects/replace_en

Screening programs, protocols and guidelines	Disseminating recommended screening practices in the country/region	Podcast on types of screening (opportunistic, age ranged) with pros/cons, webinar on implementation of lung cancer screening (CRTEb Checa)	Link to guidelines for screening	Planning	Clinical Practice	Managers, Professionals	External website	<p>1. A_short_guide_to_cancer_screening_WHO.pdf;</p> <p>4. New_EU_approach_on_cancer_detection__screening_more_and__screening_better.pdf;</p> <p>5. EU_guidelines_CRC_screening_and_diagnosis.pdf (Cite: European Commission, Directorate-General for Health and Consumers, Executive Agency for Health and Consumers, World Health Organization, Karsa, L., Patnick, J., Segnan, N., European guidelines for quality assurance in colorectal cancer screening and diagnosis, Karsa, L.(editor), Patnick, J.(editor), Segnan, N.(editor), Publications Office, 2010, https://data.europa.eu/doi/10.2772/1458)</p> <p>6. EU_guidelines_BC_screening.pdf (Cite: European Commission, Directorate-General for Health and Consumers, Broeders, M., Wolf, C., Perry, N., European guidelines for quality assurance in breast cancer screening and diagnosis, Broeders, M.(editor), Wolf, C.(editor), Perry, N.(editor), Publications Office, 2006.) ;</p> <p>7. EU_guidelines_CervicalCancer_screening.pdf (Cite: European Commission, Directorate-General for Health and Consumers, Arbyn, M., Anttila, A., Jordan, J., European guidelines for quality assurance in cervical cancer screening, Arbyn, M.(editor), Anttila, A.(editor), Jordan, J.(editor), Publications Office of the European Union, 2008, https://data.europa.eu/doi/10.2772/44215);</p> <p>8. NCCN Guidelines: https://www.nccn.org/guidelines/category_2</p> <p>9. Pilot uterine cervical screening with self sample</p> <p>10. PSA Prostate Cancer</p> <p>11. Best practices Cx Screen_WG IARC 2023</p> <p>12. WLHIV_CC~Access increase WHO 2023-1</p> <p>13. https://cancer-screening-and-care.jrc.ec.europa.eu/en</p>
			Template for report on screening program results (service providers and role, patient population targeted and reached, screening modality and further link to system)	Templates	Data	Managers, Professionals	Document	<p>1. Sample report_CervicalCancer_Cancer Council.pdf</p> <p>2. Example Report Breast Cancer Screening Survey_Patients</p> <p>3. Example Report Breast Cancer Screening Survey_Professionals</p>
			Template of gap-barrier analysis for improvement plan	Templates	Clinical Practice	Managers, Professionals	Document	<p>1. GAP_Analysis_Template</p> <p>2. Gap_Analysis.pdf</p>
			Examples of materials for primary care (UK algorithm)	Case studies	Clinical Practice	Managers, Professionals	Document	<p>1. Referral of Suspected Lung Cancer by Family Physicians and Other Primary Care Providers</p> <p>2. CRC_Screening_Norway_Info.pdf</p> <p>3. CRC_Screening_Norway_Invitation</p> <p>4. CRC_Screening_Norway_Instruction.pdf</p>
Training and education	Improving education opportunities in screening	Links to training modules, list of experts	List of experts for consultation (through contact point)	Planning	Clinical Practice	Managers, Professionals	Document	
			Materials for patients and physicians for counseling	Planning	Clinical Practice	Managers, Professionals	Document	<p>1. BC_Screening_Norway_Info.pdf;</p> <p>2. CervicalCancer-Screening_Norway_Info.pdf;</p> <p>3. Leaflet_Breast_Screening_Slovenia.pdf;</p> <p>4. Self Sampling HPV_WHO 2022</p> <p>6. Screening Invitation Brochure Ca Cx_Netherlands</p> <p>7. https://learning.iarc.fr/edp/courses/sp-intro-cancer-prevention-and-early-detection/</p> <p>8. https://learning.iarc.fr/edp/courses/teaching-toolkit-cancer-research-for-cancer-prevention/</p> <p>9. https://learning.iarc.fr/edp/courses/ecis-self-paced-programme-improving-the-quality-of-cancer-screening/</p>

								10.https://learning.iarc.fr/edp/courses/challenges-and-opportunities-for-primary-cancer-prevention-self-paced-module/ 11.https://www.wcrf.org/preventing-cancer/cancer-prevention/what-we-know-about-preventing-cancer/
			Citizen awareness campaigns in screening and early detection	Planning	Clinical Practice	Managers, Professionals, Patients	External website	1.https://www.youtube.com/watch?v=Fxy6naTDnY&t=105s 2.EU Commision Video Cancer Screening * Subtitles
Research in screening and early detection	Potentiating research and implementing results	Podcast on Grant support office (link to theme 4 and 5), podcast of example (breastmilk, others_) risk stratification	Podcast on Grant support office Link to E80					
			Podcast of example (breastmilk, others_) risk stratification	Case studies	Data	Managers, Professionals		1. Video CC4EU Cristina Saura
			SOP foundational for TTO Link to E83					
			SOP for integrating innovations in the clinic Link to E84					
			Template for health economic analysis.	Templates	Finance	Managers, Professionals	Document	1.HEA. SCIENCE. 2017
Networking	Involving academia, industry and patients in research, as well as primary care	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded), podcast on examples of success, webinar on involving patients in reseach (link to patient involvement in theme 5) SOP, exisiting networks and EU programs,podcast on involving primary care in reseach	Regional symposium on Clinical Trials & Clinical Research (live sept/24 or recorded) Link to E63					
			Podcast on examples of success Link to E135					
			SOP for regulating access to clinical trials Link to E127					
			List of networks of interest in screening and early detection	Planning	Clinical Practice	Managers, Professionals	Document	1.https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/eu-mission-cancer_en 2.https://www.cancerresearchuk.org/funding-for-researchers/research-opportunities-in-early-detection-and-diagnosis/international-alliance-for-cancer-early-detection 3.https://eatris.eu/projects/early-cancer-detection-europe-ecade/
			List of centers interested in networking by area (through contact point) link to E129					
			Podcast on involving primary care in research	Learning	Research	Managers, Professionals	Audio/podcast	Claudia will contact
			MoU template Link to E130					
ICT	Facilitating access to data	SOP, links	Link to European Information Cancer System for indicators	Planning	ICT	Managers, Professionals	External website	https://ecis.iarc.ec.europa.eu/
			Example of protocol for data extraction Link to E154					
			Example of SOP for describing sources of information and their integration	Case studies	ICT	Managers, Professionals	Document	
			SOP for - EXAMPLE TOOL for patient to access to their medical record	Learning	ICT	Managers, Professionals	Document	1.https://catsalut.gencat.cat/ca/serveis-sanitaris/la-meva-salut/index.html#googtrans(ca en)
			SOP for data-sharing Link to E155					

THEME 8: Patient Pathways								
Subtheme	Objective	Recommended interventions	Recommended materials	Resource	Topic	Target audience	Content type	Materials
Patient pathways structure	Preparing the content of PP	Templates, webinars/lists of patient engagement tools/ patient-centered pathways, SOP (who is responsible for creating and updating)	Patient Pathway Design Tool	Learning	Clinical Practice	Managers, Professionals, Patients	Video/webinar	https://tu-dresden.de/bu/wirtschaft/wwf/digital-health/forschung/digital-health-learning-labs-1/hpmo-modeller-de-fx-digital-health
			1.Patient Pathway Development Method 2.Tumour-specific Patient Pathway Templates (including MTD and other actors with their relations, in accordance to guidelines, long term follow up, integrations of PROMs and research, genetic counseling needs, and expected timelines, data collection points)	Templates	Clinical Practice	Managers, Professionals	Document	2.1.PP_template_pancreas_IPAAC 2.2.PP_template_colon_IPAAC 2.3.PP_template_lung_CraNE 2.4.PP_template_lung_CraNE_patient-centred-elements
	Updating and dissemination of PP- include case manager	SOP, podcast on the importance of PP for professionals, podcast for patient	SOP PP development and dissemination plan	Planning	Clinical Practice	Managers, Professionals	Document	IPAAC_patient-pathway-guide
			Podcast on the importance of PP for professionals	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	#2 Patient Pathways for Healthcare Professionals 10 Minutes Pathways to Digital Health
			Podcast for patient	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	https://www.youtube.com/watch?si=SCQ_dy3SuPUOHx7l&v=FXVnV7YnpU6feature=youtu.be
			Template for pathway coordinator role description	Planning	Clinical Practice	Managers, Professionals	Document	1.Coordinator position description _OUS_ENG.docx
			Example of plan to integrate research in PP	Case studies	Clinical Practice	Managers, Professionals	Document	Claudia
	Supporting multidisciplinary	podcast on TEAM building	Podcast on TEAM building	Learning	Clinical Practice	Managers, Professionals	Audio/podcast	1. https://www.teambonding.com/podcast/ 2. https://blog.outbackteambuilding.com/tag/podcast Podcast with Elia
			Foundational and SOP for MDT	Planning	Governance	Managers, Professionals	Document	1.Compilation from Set of Standards CCCN 2.Example_tumour board minutes
			Check list for needs for MDT	Planning	Clinical Practice	Managers, Professionals	Checklist	1.General checklist for the requirements for a multi-disciplinary Team (MDT) board in a cancer reastrv https://oncologypro.esmo.org/oncology-in-practice/practice-tools/esmo-checklists
			Template for "welcome" guideline for patients	Templates	Clinical Practice	Managers, Professionals	Document	1.Example_CancerCenterGuidebook_UCSF 2.Example_new-patient-guide_MGH 3.ESMO Cancer guides: https://www.esmo.org/for-patients/patient-guides/patient-guides-by-language/cancer-patient-guides-in-english
	Facilitating access to and interaction with support disciplines		Example on screening tools to integrate support disciplines in PP (psychology, palliative care, etc)	Case studies	Clinical Practice	Managers, Professionals	Document	Nutrition: 1.MUST, 2.MNA Short Form, 3.PG-SGA Neuro-cognitive function including psychological issues (e.g. 4.HADS, 5.distress-scale Supportive and palliative care (6.ESAS) 7. https://accreditation.oeci.eu/practice/the-implementation-of-an-interdisciplinary-care-meeting-to-offer-holistic-care/ 8.screening and addressing psychological and sexual needs: https://www.e-eso.net/sessions/3511 9.template distress thermometer for psycho-oncology

Patient pathways implementation	Improving the attention to special populations: AYAs, geriatric patients		Templates for specific aspects to bear in mind for special populations +Free email-based courses on AYA cancer Care	Templates	Clinical Practice	Managers, Professionals	Document	1.https://www.peternac.org/about-us/news-and-events/news/details/new-free-courses-in-adolescent-and-young-adult-aya-cancer-care 2.geriatric patients: https://www.e-eso.net/sessions/1483 3.AYAs: https://www.e-eso.net/sessions/2074
	Promoting patient participation	webinar on decision sharing	Webinar on shared decision making process and outcomes discussion Link to E150	Learning	Clinical Practice	Managers, Professionals Patients	Video/webinar	1. Video CC4EU Shared Decision Making
	Promoting PROMs evaluation-> link to theme 6 outcome research	webinar examples of success	Templates for process Link to E149 Link to QoL tools	Learning	Data	Managers, Professionals	External website	1.iPAAC_patient-reported-outcome-measure-cancer-care-implementation-framework Myopath - ANDERS 1. https://qol.eortc.org/questionnaires/
	Survivorship	podcast examples of success	Template for "back to normal life" guideline for patient	Templates	Clinical Practice	Managers, Professionals, Patients	Document	1.https://www.cancercouncil.com.au/wp-content/uploads/2021/11/Question-checklist_LWAC-2021.pdf 2.https://www.dph.ncdhhs.gov/chronic-disease-and-injury/cancer-prevention-and-control/cancer-survivor-checklist-finished-treatment/download?attachment 3.Examples Institute Curie: Example_Back to normal life_Physical activities_IC 4.Example_Back to normal life_SupportiveCare_IC 4.survivorship for patients(https://www.e-eso.net/sessions/1383) 5_needs: https://www.e-eso.net/sessions/2049 6. https://www.cancer.eu/other-focus-pwpg-publications/ 7.exercise promotion materials: https://www.exerciseismedicine.org/eim-in-action/moving-through-cancer/ 8.paper for physicians: https://journals.lww.com/acsm:mse/fulltext/2019/11000/exercise_guidelines_for_cancer_survivors.23.aspx 9. https://crane4health.eu/wp-content/uploads/2024/08/D8.4-Models-and-good-practices-to-improve-cancer-survivors-return-to-work-in-the-MS.pdf
	Including access to research in PP -> link to theme 5. Clinical research: networking and Patient involvement							
Patient pathway evaluation	Evaluating and improving the PP	SOP , podcast on example of how to apply PP evaluation concept	SOP on quality MTD meetings	Planning	Clinical Practice	Managers, Professionals	Document	1. SOP_Quality_MTD_HUVH
			Evaluation framework for Patient Pathways	Planning	Data	Managers, Professionals	Document	1. PatientPathwayEvaluationFramework.pdf
			Link to quality indicators CRANE, ECO, OECI	Learning	Clinical Practice	Managers, Professionals	External website	1.ESMO-Checklist-General-Quality-Issues-for-Patient-Treatment 2.General-Quality-Issues-for-Patient-Treatment-Workflow.pdf, 3. https://accreditation.oeci.eu/practice/collaborative-multidisciplinary-working-within-the-hospital-the-oval-table/ 4.PRO in oncology: https://www.e-eso.net/sessions/2723