

CCI4EU Capacity Building Action overview

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EUROPEAN UNION



HORIZON-MISS-2022-CANCER-01-02: **Strengthening research capacities of comprehensive cancer infrastructures**

Closure: **07.09.2022**; Indicative call budget: EUR 10 M; Project size: EUR 10 M; **Coordination & Support Action**

Scope:

- Offer an R&I-centred **capacity-building programme** to support existing and future comprehensive cancer infrastructures.
- Cooperation with the EU network of comprehensive cancer centres CRANE, being established through Europe's Beating Cancer Plan. Participating countries will be provided with recommendations. Support and roadmap for implementation and transferable best practices will be identified.

Expected outcomes:

- Research and health policy makers will benefit from support to further develop or set up comprehensive cancer infrastructures, leading to improvement in *research and access to care*.
- Research and healthcare professionals will benefit from a **better integration between research and care**;
- Researchers will benefit from innovative infrastructures to perform research and participate in studies.

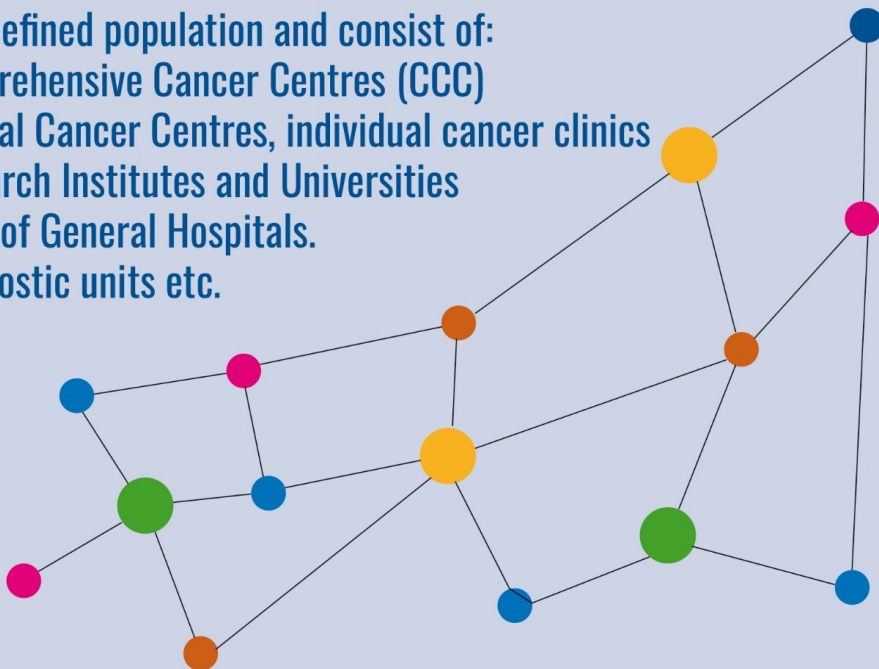
What is a Comprehensive Cancer Infrastructure? (CCI)

CCI A Comprehensive Cancer Infrastructure should also include public functions such as public health, screening, primary and community care, and population cancer registries. Other supporting infrastructures such as –omics and clinical trials platforms

CCN

Comprehensive Cancer Networks* serve a defined population and consist of:

- Comprehensive Cancer Centres (CCC)
- Clinical Cancer Centres, individual cancer clinics
- Research Institutes and Universities
- Units of General Hospitals.
- Diagnostic units etc.



* Including Comprehensive Cancer Care Networks according to GraNE WP 6 (CCCN)

Dimensions of Capacity Building

Individual

- Needs assessment
- Training
- Extending knowledge and competencies
- Processes for talent development and exchange

Institutional

- Needs assessment
- Gap analysis and identifying barriers
- Sharing excellent practices
- Building resources (data) and teams
- Changing corporate mindsets

Systemic

- Needs assessment
- Breaking down silos
- Bringing in outside expertise (twinning and teaming)
- Networking, governance and organisation
- Redesign of the system and sustainability

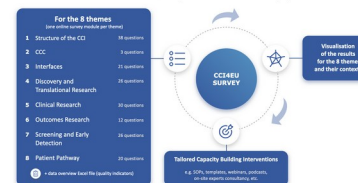
Using our Maturity Model in CCI4EU

Themes:

1	Structure of the Comprehensive Cancer Infrastructure (CCI)
2	Comprehensive Cancer Centres (CCC)
3	Interfaces between research and care
4	Discovery and Translational Research
5	Clinical Research
6	Outcomes Research
7	Screening and Early Detection
8	Patient Pathway

CCI4EU SURVEY

Self-assessment tool setting up and further developing Comprehensive Cancer Infrastructures (CCI)



Theme 1: Structure of the CCI Network

		Level 1	Level 2	Level 3	Level 4
Theme 1: Structure of the CCI Network	Criterion 1 & Target State	Criterion description 1.1	Criterion description 1.2	Criterion description 1.3	Criterion description 1.4
	Criterion 2 & Target State	Criterion description 2.1	Criterion description 2.2	Criterion description 2.3	Criterion description 2.4
	Criterion 3 & Target State	Criterion description 3.1	Criterion description 3.2	Criterion description 3.3	Criterion description 3.4



Home



Dashboard



Maturity Model



Admin

BUBBLE CHART

BAR CHART

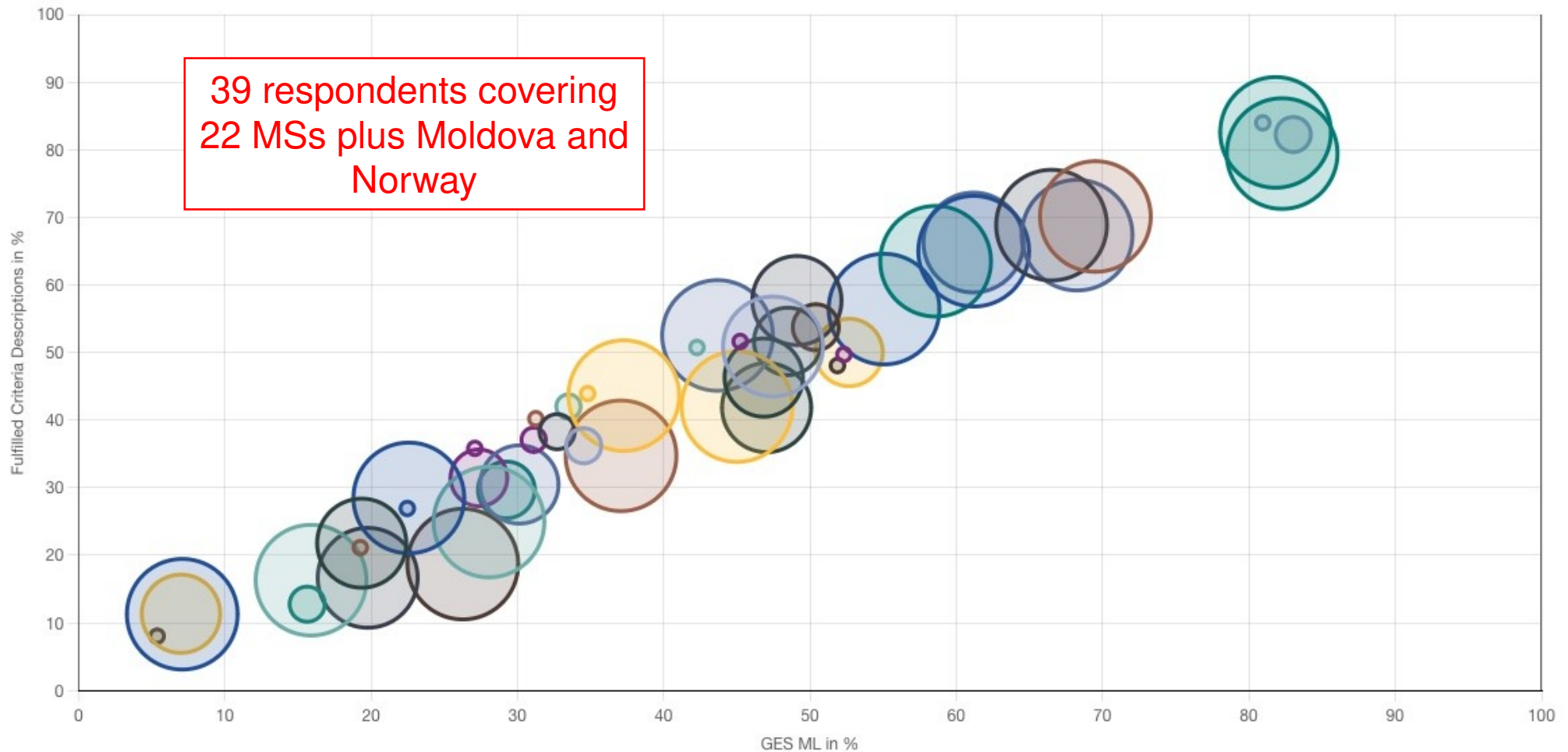
RADAR CHART

GEO CHART

CBI CHART

CBI DATA

Theme: All :: Criterion: All



hide all BG Bulgaria CY Cyprus CZ Czechia DE1 Germany, Lower Saxony DE2 Germany, Heidelberg DE3 Germany, Frankfurt-Marburg
DE4 Germany, North Rhine-Westphalia DE5 Germany, Hamburg EE Estonia EL1 Greece, Athens EL2 Greece, Piraeus ES1 Spain, Basque Country
ES10 Spain, Galicia ES1a_part of ES1_Spain_Basque Country ES1b_part of ES1_Spain_Basque Country ES1c_part of ES1_Spain_Basque Country ES3a Spain, Valencia
ES4 Spain, Cantabria ES5 Spain, Catalonia ES8 Spain, Madrid FI Finland FR1 France, Paris FR10 France, Siri Illiad FR4 France, En Hope Smart4CBT
FR6b Institute Curie FR7 Unicancer FR8 Montpellier FR9 South Rock Paediatric HR Croatia IE Ireland IT2 Italy, Veneto IT3 Italy, Lombardia
IT7 Italy, Campania IT8 Italy, Piemonte and Valle d'Aosta LT Lithuania LU Luxembourg LV1b Latvia, Riga MD Moldova MD1_Moldova

5 Capacity Building actions we took in CCI4EU



Included in the GES

Online Courses

- 10 newly-designed courses:
- 3 general courses
 - 7 more specific courses based on CCIs' demands

WP4

Content & experts' identification

WP5

Design & execution
Monitoring



Included in the GES

Conferences

3 conferences 2-day duration and with 100 delegates each

WP4

Content & experts' identification

WP6

Design & execution & Monitoring



Included in the GES

Deep Dives

A team of up to 10 multidisciplinary experts conducts up to 3 site visits (each for 3 days) over a period of 19 months for selected CCIs

Visit 1: situational analysis

Visit 2: plan to improve design

Visit 3: improvements check and tutorship

WP4

Content, choice of CCIs & experts' identification

WP6

Design & execution & Monitoring



Resource Center

Online platform with useful material for CCIs.
Possibility of extra on site/online visits to advanced CCIs for learning and sharing good practices, for specific themes/areas of the programme

WP4

Content & experts' identification

WP5

Design & development

Observerships

Teams of 3-4 specialists who visited mature CCCs for specific observations such as Early Phase Trials, Precision Cancer medicine

WP6

Design & execution & Monitoring

Implement onsite interventions

- (a) Deep Dives in up to 9 CCIs in MSs with targeted interventions involving teams of experts consulting
- (b) 3 Capacity Building Conferences oriented towards widening participating countries to implement CB among teams from CCIs

Deep Dives

- A Deep Dive is a tailored and structured intervention within a Comprehensive Cancer Infrastructure (CCI).
- The purpose is to help the CCI build their capacity in particular domains by providing expert consultancy advice
- It consists of 3 site visits to the CCI by multidisciplinary expert teams, according to the specific domains of intervention chosen for that Deep Dive site.

A Deep Dive is composed of **3 site visits**:

1. **Detailed diagnosis** → Situational analysis
2. **Intervention** → Design of the step change improvement
3. **Follow-up** → Site to report back and gain further focused advice

We delivered 3 regional conferences



1st conference: Warsaw, Poland - 10/11 October 2024

Bringing research insights into clinical implementation

Chairs: Giovanni Apolone, Mef Nilbert, Simon Oberst, Iwona Lugowska

- 161 applications received
- 102 selected participants

2nd conference: Brussels, Belgium - 9/10 April 2025

Accelerating cancer research and innovation in comprehensive cancer infrastructures

Chairs: Maja Čemažar, Mef Nilbert, Johan Van Lint

- 135 applications received
- 102 selected participants



3rd conference: Madrid, Spain - 15/16 October 2025

Effective Patient Pathways

Chairs: Claudia Valverde, Yvonne Wengstöm, Alexandre Brutti

- 118 applications received
- 115 selected participants

Online Courses

WHAT DOES A COMPREHENSIVE CANCER INFRASTRUCTURE DO?

CCI4EU online course

4 July 2024
14.00 – 18.00 (CEST)
Live online course

Simon Oberst, DK
Eva Jolly, SE

www.e-ESO.net

CLINICAL TRIALS AND CLINICAL RESEARCH

CCI4EU online course

15 October 2024
13.30 – 16.30 (CEST)
Live streaming
Pre-recorded materials available 1 month before

Iwona Lugowska, PL
Josep Tabernero, ES

www.e-ESO.net

MOLECULAR DIAGNOSTICS AND PRECISION MEDICINE

CCI4EU online course

4 December 2024
12.00 – 17.30 (CET)
Live online course

Olli Carpen
Rui Henrique
Anna Sapino

www.e-ESO.net

COST OF HEALTH CARE AND DRUGS

CCI4EU online course

28 February 2025
13.00 – 17.00 (CET)
Live online course
Pre-recorded materials available from 3 February

Mark Lawler
Wim van Harten

www.e-ESO.net

PATIENT EMPOWERMENT AND PATIENT-CENTRED CARE

CCI4EU online course

19 March 2025
13.00 – 17.30 (CET)
Live streaming

Alexandre Brutti
Della Nicotina

www.e-ESO.net

DATA SHARING AND EXCHANGE

CCI4EU online course

15 April 2025
13.00 – 17.30 (CEST)
Live streaming

Andre Dekker
Xosé Fernández

www.e-ESO.net

BRINGING RESEARCH INSIGHTS INTO CLINICAL IMPLEMENTATION

CCI4EU First Capacity Building Conference
10-11 October 2024 – Warsaw, Poland

Recorded materials are now available on the website!
www.e-eso.net/courses/24C1

ACCELERATING CANCER RESEARCH AND INNOVATION IN COMPREHENSIVE CANCER INFRASTRUCTURES

CCI4EU Second Capacity Building Conference
9-10 April 2025 – Brussels, Belgium

Recorded materials are now available on the website!
<https://www.e-eso.net/courses/25C2>

EFFECTIVE PATIENT PATHWAYS

CCI4EU Third Capacity Building Conference
15-16 October 2025 – Madrid, Spain

Recorded materials are now available on the website!
<https://www.e-eso.net/courses/25C3>

EARLY CANCER DETECTION, SCREENING, AND PREVENTION

CCI4EU online course

4 June 2025
12.30 – 16.40 (CEST)
Live streaming

Ugo Pastorino
Joachim Schüz

www.e-ESO.net

PATIENT CENTERED CANCER OUTCOME RESEARCH

CCI4EU online course

16 September 2025
13.00 – 15.10 CEST
Live streaming
Pre-recorded materials online and available by 20 July 2025

Cinzia Brunelli
Olaf Garin

www.e-ESO.net

DEVELOPING RESEARCH SKILLS FOR YOUNG RESEARCHERS

CCI4EU online course

25 September 2025
12.30 – 14.30 CEST
Live streaming
Pre-recorded materials online and available by 31 July 2025

Matteo Lambertini
Marco Tagliamento

www.e-ESO.net

HOW TO OPTIMIZE MOLECULAR DIAGNOSTICS IN PRACTICE?

CCI4EU online course

4 November 2025
12.30 – 17.30 CET (connection at 12.00)
Live online course

Laura Mezquita
Richard Rosenquist Brandell

www.e-ESO.net

Past courses are available on the platform for continued use

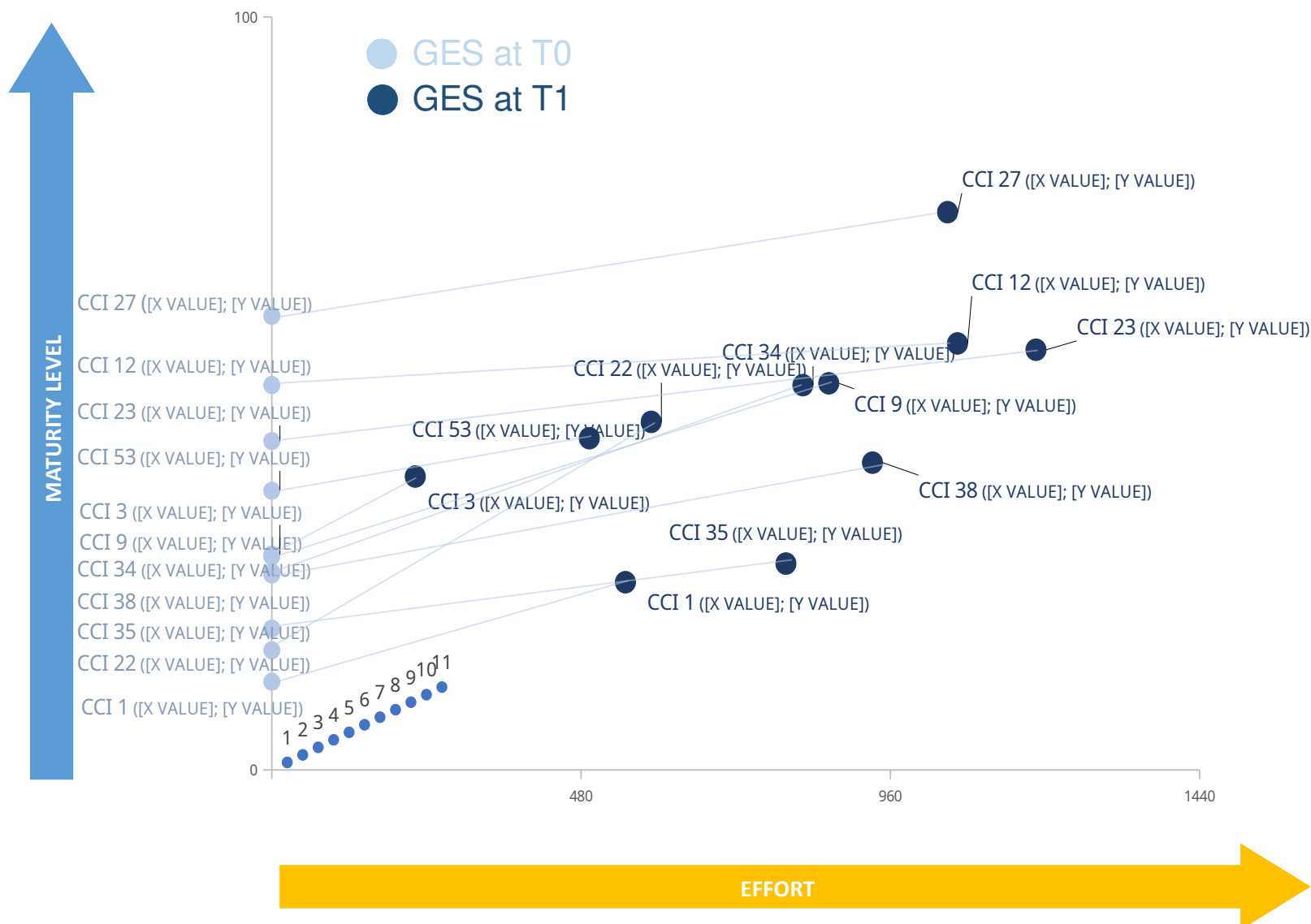


Overview Maturity Level Improvement $T_0 - T_1$ | CCI with DD



		Theme 1 Structure of CCI's	Theme 2 CCC	Theme 3 Interfaces	Theme 4 Discovery & Transnational research	Theme 5 Clinical research	Theme 6 Outcomes research	Theme 7 Screening & early detection	Theme 8 Patient Pathways	Δ ML	Hours per 1% increase in ML
CCI 22	CROATIA	+71	+25	+58	+6	+16	+6		+60	+30	19,4
CCI 12	SPAIN BASQUE	+3		+33	+2		+6			+6	192,8
CCI 1	BULGARIA	+19	+50	+13	+4	+6	+6	+3	+5	+13	41,5
CCI 3	CZECHIA	+47		+8	+4		+13		+11	+10	21,5
CCI 23	IRELAND	+36	+50	+2				+4	+5	+12	97,7
CCI 27	ITALY PIEDMONT	+1		+17	+30	+16	+38	+6	+3	+14	76,2
CCI 34	NORTH PORTUGAL	+55		+33	+11	+31	+31	+7	+30	+25	33,2
CCI 9	ESTONIA	+64	+25	+44	+16		+6	+3	+27	+23	37,6
CCI 35	ROMANIA					+31			+38	+9	92,3
CCI 53	MOLDOVA					+13		+8	+35	+7	70,6
CCI 38	SLOVAKIA	+24	+50	+13	+2	+3		+7	+20	+15	62,8
AVERAGE		+29	+18	+20	+7	+11	+10	+3	+21	+15	68

 Theme selected for DD



This graph illustrates the **evolution** of the **11 CCIs** that completed the **Deep Dive**, throughout the program

Generally, the steepness of the curve is higher the lower is the starting point (T0)

=

**The less mature
CCI's take less time
to improve their
maturity level**

1. Over 270 validated materials added to the online Resource Centre.
2. 300 experts (most aged under 45) trained during the 3 regional conferences
3. 662 experts trained in the 10 online courses
4. 1,367 experts receiving advice/training from 10 expert consultancy Deep Dives
5. 40 clinicians and researchers involved in observerships
6. For those CCIs which received the Deep Dives, the levels of maturity increased in every Deep Dive and in every theme, over the period October 2024 to November 2025. Across all Deep Dives, the average maturity level increased from 32 to 46 points (out of 100), with individual gains ranging from +6 to +30 points.

Levels of Maturity also increased in the non Deep Dive CCIs.

1. The methodology of mixed expert teams deployed in expert consultancy works
2. The CCI4EU Maturity Model is a proven tool for measuring progress
3. Creating a CCI/network and bringing parties together is beneficial in itself
4. Integrating research and clinical care is a key aim and output
5. By helping the least mature CCIs, the gaps in inequalities can be lessened
6. Local CCIs lack resources for change
7. Political engagement (regional or national) is a critical success factor in successful change

1. The Maturity Model
 - Completed by 56 Infrastructures/Networks over the 8 domains, giving their level of maturity
 - Probably simpler to use than the MM in EUNetCCC
 - Not as detailed as a certification according to Standards
2. The model of “Deep Dive” Consultancy
 - We convened 95 hand-picked oncology experts and trained/orientated them in 10 CCIIs
 - It's a novel model in EU Actions, but a well-trodden path in the commercial world
 - It is evaluating well and seems to have impact
 - It is an alternative to Twinning (which is 1 CCC on 1 CCC) because the experts come from many centres bringing diverse experience
3. The Resources Centres (website) and ESO platform of online courses
 - This has assembled more than 270 authenticated resources

Thank you for your attention