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Overview of the CCI Criteria, Translation into Maturity Model and CCI4EU Survey

WP2: German Cancer Society & Karolinska CCC & TU Dresden

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To develop

- a joint understanding, definition & scope of Comprehensive Cancer Infrastructures (CCIs), and
- a set of criteria to assess & improve CCIs in all member states.

To embed the defined quality criteria in a maturity model (MM) to

- (1) assess CCI maturity** and
- (2) develop tailored interventions to increase the individual CCIs' maturity level.**

Create Working Groups



Define Criteria & QI



Include them in a Maturity Model



Agreed themes for CCIs

1. Structure of the Comprehensive Cancer Infrastructure
2. CCCs
3. Interfaces and QI
4. Discovery and Translational Research
5. Clinical Research
6. Outcomes Research
7. Screening and Early Detection
8. Patient Pathway

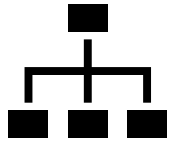
The CCI Maturity Model as the Golden Thread



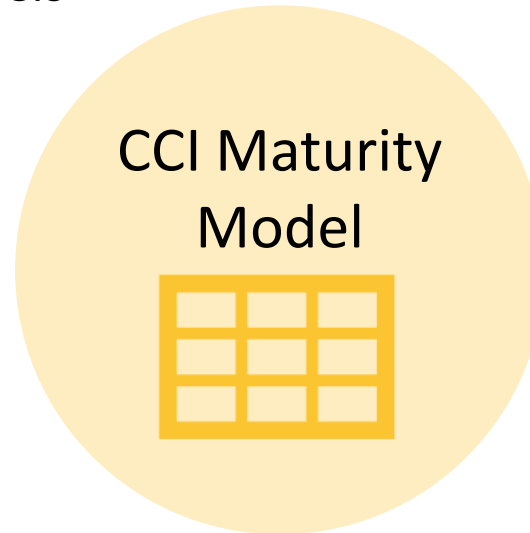
Assess the maturity
of (potential) CCIs



Transparent overview of the
maturity of CCI developments in
the MS incl. a scoring system



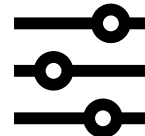
Structure the CCI criteria



Quickly identify themes/criteria
with potential for improvement



Overview of the effects of Capacity
Building Interventions (= reaching a
higher maturity level)



Define differentiated tailored
interventions for Capacity Building

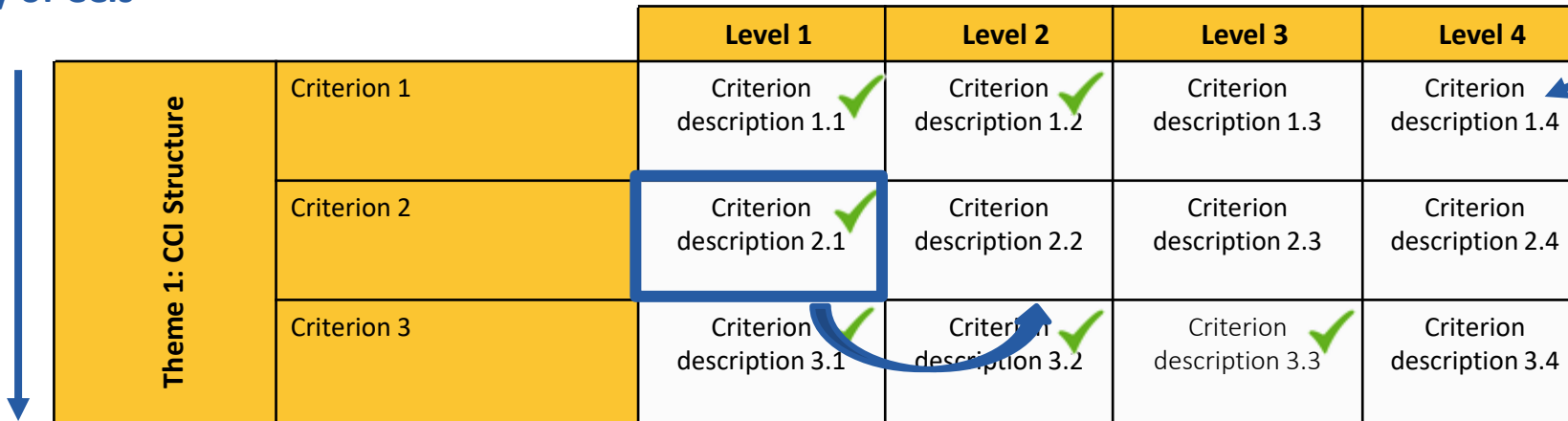


Data analysis and decision
on Deep Dives for Capacity
Building

What does the CCI Maturity Model look like?

The **themes** of the maturity model characterize specific **aspects of the maturity of CCIs**

Maturity levels reflect the maturity **of a CCI** in a theme / subtheme



		Level 1	Level 2	Level 3	Level 4
Theme 1: CCI Structure	Criterion 1	Criterion description 1.1 ✓	Criterion description 1.2 ✓	Criterion description 1.3	Criterion description 1.4
	Criterion 2	Criterion description 2.1 ✓	Criterion description 2.2	Criterion description 2.3	Criterion description 2.4
	Criterion 3	Criterion description 3.1 ✓	Criterion description 3.2 ✓	Criterion description 3.3 ✓	Criterion description 3.4

Criteria describe individual **aspects** along the themes that are **assessed** level by level

Subdivision of themes into criteria

Determination of **Capacity Building Programmes** to increase the maturity level of a CCI (deposit of best practices and recommended actions possible)

CCI Maturity Model Development & Assessment



Criterion	Target state	Proof of achievement of target
3. Requirements for PPs	PPs include tumour-specific characteristics	<p>The following points should be addressed in the PP (and if needed be elaborated in associated documents):</p> <ul style="list-style-type: none"> A reference to the underlying evidence-based guidelines (name, version, recommendation) must be made in the tumour-specific PPs. The PP must contain an algorithm for the identification of hereditary tumour diseases including, if necessary, human genetic examination and counselling. At least for the entities: Breast, ovarian, colorectal, renal and paediatric tumour. Tumour -specific environmental and lifestyle risks (e.g. asbestos, smoking, obesity) should be included in the PP and addressed in the communication/therapy (e.g. smoking cessation, vaccination). To prevent long term effects: specialised disciplines or questions that are very tumour/therapy-specific should be addressed in the PP (i.e. cardiologists for Herceptin-therapy, or information about and application of fertility-preserving measures)
	PPs support the enrolment of patients in studies and encourage the conduct of studies	<ul style="list-style-type: none"> The PP includes screening and obtaining informed consent for possible study inclusion along the entire PP. Studies in this context are among others: translational, clinical interventional and diagnostic studies, organisational, outcome research studies See also: criterion 2
	PPs include the patient perspective	<ul style="list-style-type: none"> The patient perspective must be included in the PP. This comprises, for example, the collection and use of PROs, the involvement of patient representatives, the concepts of patient-centred care, shared decision making

- Definition of criteria, target states and proof of achievements per theme
- Proof of achievement of target has been distributed to levels 1-4 of the CCI Maturity Model

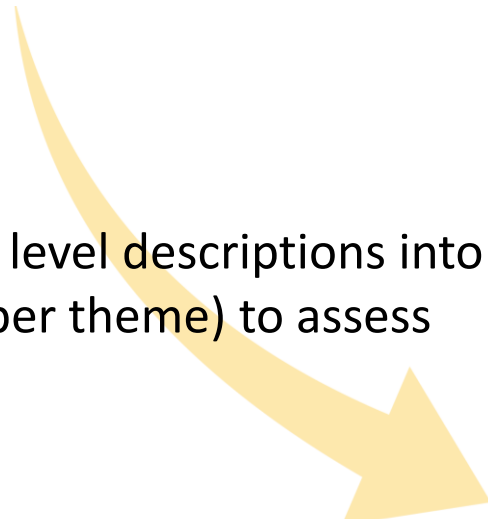
		Level 1	Level 2	Level 3	Level 4
Requirements for Patient Pathways	Patient pathways include tumour-specific characteristics		PP421 Initial discussions to formalise and systematically describe the <i>tumour-specific needs</i> in patient pathways within the CCI have taken place.	<p>PP431 The patient pathways contain a reference to the underlying evidence-based guidelines (name, version, recommendation).</p> <p>PP432 The patient pathway contains an algorithm for the identification of hereditary tumour diseases including, if necessary, human genetic examination and counselling (at least for the entities: breast, ovarian, colorectal, renal and paediatric tumour).</p>	<p>PP441 Tumour-specific environmental and lifestyle risks (e.g. asbestos, smoking, obesity, infectious factors) are included in the patient pathway and are addressed in the communication/therapy (e.g. smoking cessation, vaccination).</p> <p>PP442 Specialised disciplines or questions that are tumour/therapy-specific are addressed in the patient pathway with the aim to prevent long-term effects (i.e. cardiologists for Herceptin-therapy, or information about and application of fertility-preserving measures, specific topics for adolescents and young adults (AYA)).</p>
	Patient pathways support the enrolment of patients in studies and encourage the conduct of studies			PP433 The patient pathway includes screening and obtaining informed consent for possible study inclusion.	
	Patient pathways include the patient perspective		PP422 Initial discussions regarding the incorporation of the <i>patient perspective</i> in pathway development have taken place.	PP434 The <i>patient perspective</i> is included in the patient pathways.	PP443 A continuous evaluation and improvement process for the integration of the <i>patient perspective</i> in the patient pathway is established.
	Patient pathways include minimum technical, personnel and structural resources		PP423 Initial discussions regarding the inclusion of requirements for sufficient staff and adequate equipment have taken place.	PP435 The process for the inclusion of <i>requirements</i> for minimum technical, personnel and structural resources has been started (for example addressed in associated documents).	PP444 The inclusion of requirements for minimum technical, personnel and structural resources is implemented for all of the patient pathways used in the CCI.

CCI Maturity Model Development & Assessment



Level 2	Level 3	Level 4
PP421 Initial discussions to formalise and systematically describe the <i>tumour-specific needs</i> in patient pathways within the CCI have taken place.	PP431 The patient pathways contain a reference to the underlying evidence-based guidelines (name, version, recommendation).	PP441 Tumour-specific environmental and lifestyle risks (e.g. asbestos, smoking, obesity, infectious factors) are included in the patient pathway and are addressed in the communication/therapy (e.g. smoking cessation, vaccination). PP442 Specialised disciplines or questions that are tumour/therapy-specific are addressed in the patient pathway with the aim to prevent long-term effects (i.e. cardiologists for Herceptin-therapy, or information about and application of fertility-preserving measures, specific topics for adolescents and young adults (AYA)).
	PP432 The patient pathway contains an algorithm for the identification of hereditary tumour diseases including, if necessary, human genetic examination and counselling (at least for the entities: breast, ovarian, colorectal, renal and paediatric tumour).	
	PP433 The patient pathway includes screening and obtaining informed consent for possible study inclusion.	
PP422 Initial discussions regarding the incorporation of the <i>patient perspective</i> in pathway development have taken place.	PP434 The <i>patient perspective</i> is included in the patient pathways.	PP443 A conti the integration pathway is est
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Transferring the MM level descriptions into online surveys (one per theme) to assess CCI maturity



Tumour-specific characteristics

Target: Patient pathways include tumour-specific characteristics.

*[MM] Initial discussions to formalise and systematically describe the *tumour-specific needs* in patient pathways within the CCI have taken place.

1 Choose one of the following answers

- Yes
 No

2 **Tumour-specific needs:** underlying evidence-based guideline, algorithm for genetic risk identification, environmental (occupational, infectious factors) and lifestyle risks control, prevention of long-term side effects

*[MM] Which of the following applies to the patient pathways within the CCI?

1 Check all that apply

- The patient pathways contain a reference to the underlying evidence-based guidelines (name, version, recommendation).
- The patient pathway contains an algorithm for the identification of hereditary tumour diseases including, if necessary, human genetic examination and counselling (at least for the entities: breast, ovarian, colorectal, renal and paediatric tumour).
- Tumour-specific environmental and lifestyle risks (e.g., asbestos, smoking, obesity, infectious factors) are included in the patient pathway and are addressed in the communication/therapy (e.g. smoking cessation, vaccination).
- Specialised disciplines or questions that are tumour/therapy-specific are addressed in the patient pathway with the aim to prevent long-term effects (i.e., cardiologists for Herceptin-therapy, or information about and application of fertility-preserving measures, specific topics for adolescents and young adults (AYA)).

Overview of the Maturity Model for a (potential) CCI *(example data)*

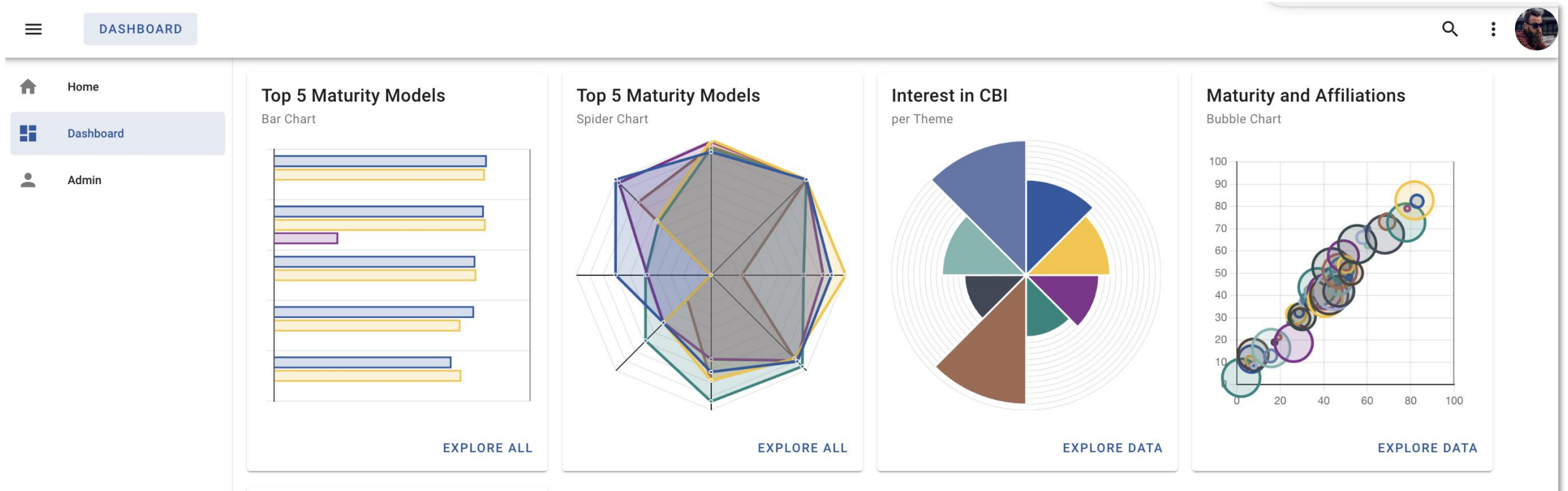
Populating the CCI
Maturity Model



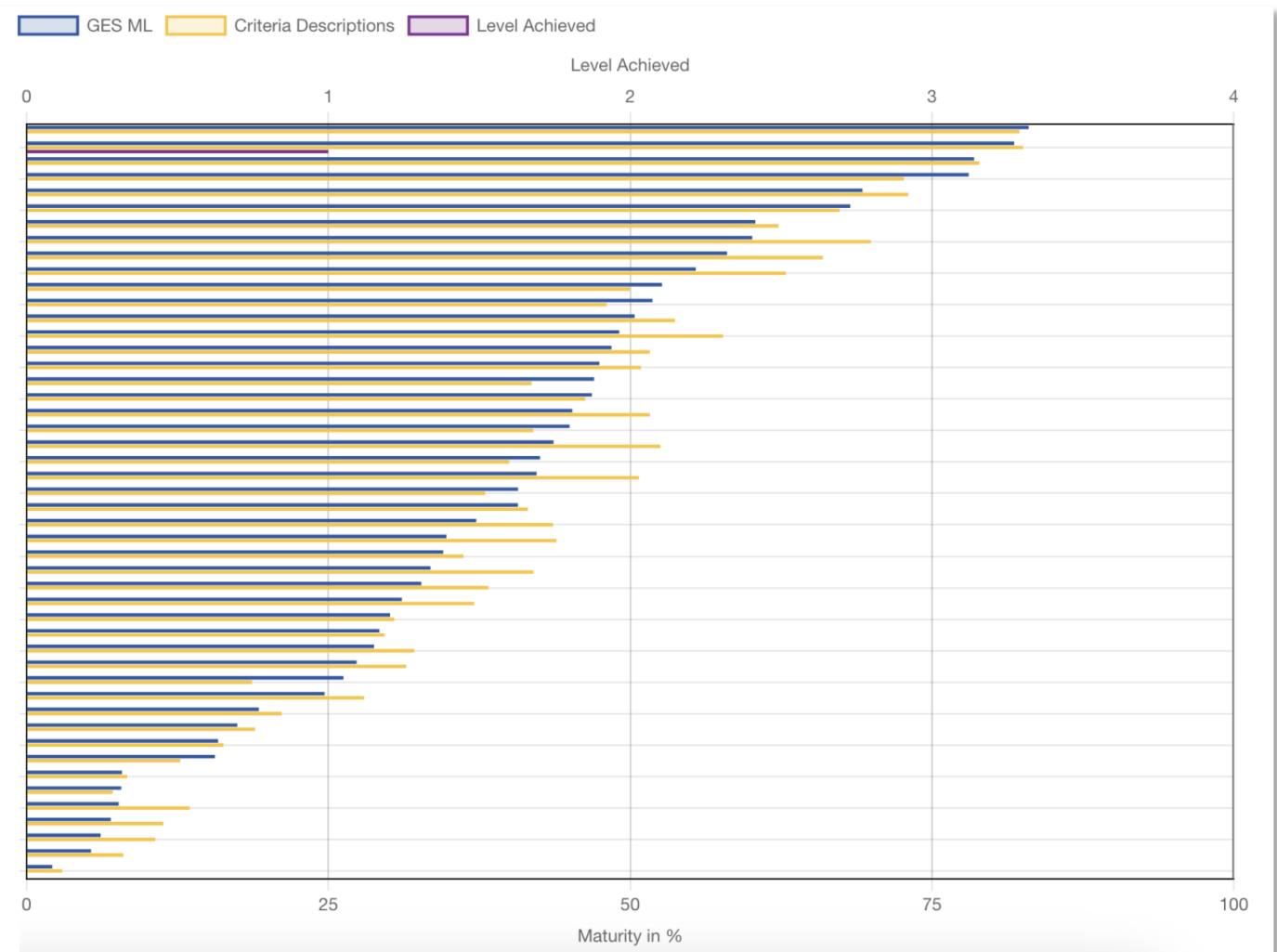
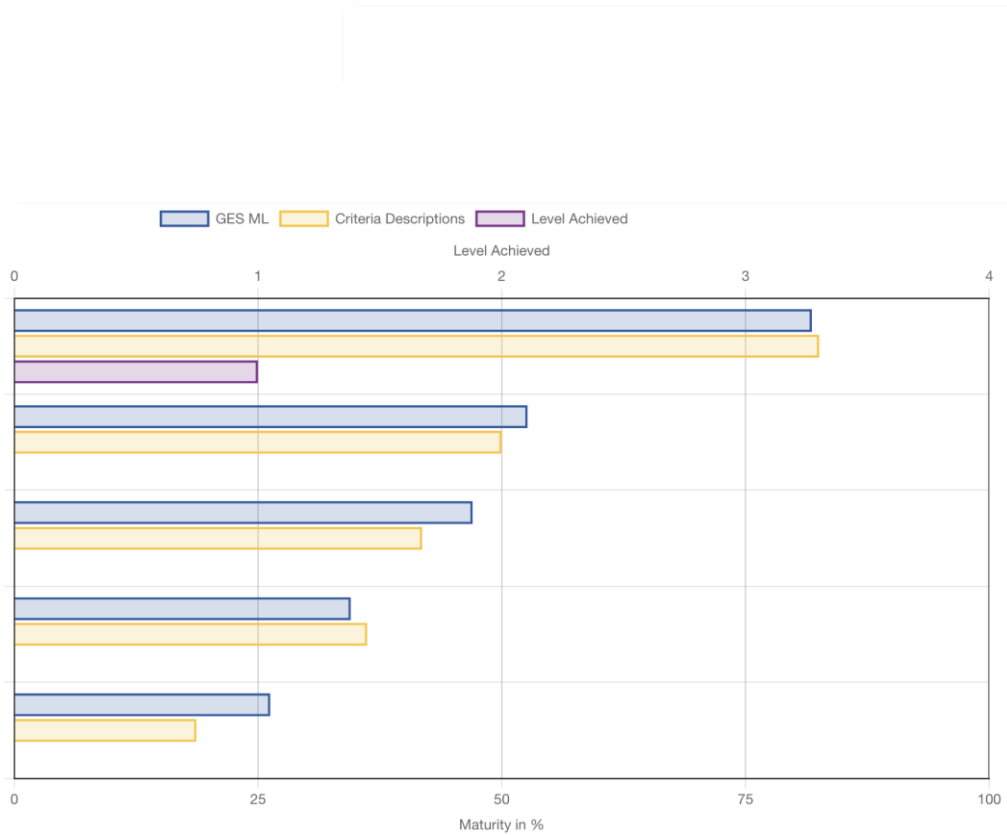
	Level 1	Level 2	Level 3	Level 4
Structure of the CCI	3 of 15 	1 of 15 	0 of 12 	1 of 7
Comprehensive Cancer Center (CCC)	1 of 1 	1 of 1 	2 of 2 	1 of 1
Interfaces	4 of 10 	3 of 15 	3 of 13 	1 of 11
Discovery & Translational Research	11 of 11 	12 of 14 	6 of 16 	1 of 12
Clinical Research	6 of 9 	9 of 14 	4 of 19 	1 of 15
Outcomes Research	3 of 4 	5 of 8 	3 of 9 	0 of 6
Screening & Early Detection	12 of 13 	6 of 13 	5 of 14 	2 of 15
Patient Pathway	2 of 3 	9 of 13 	7 of 14 	3 of 14

Dashboard overview

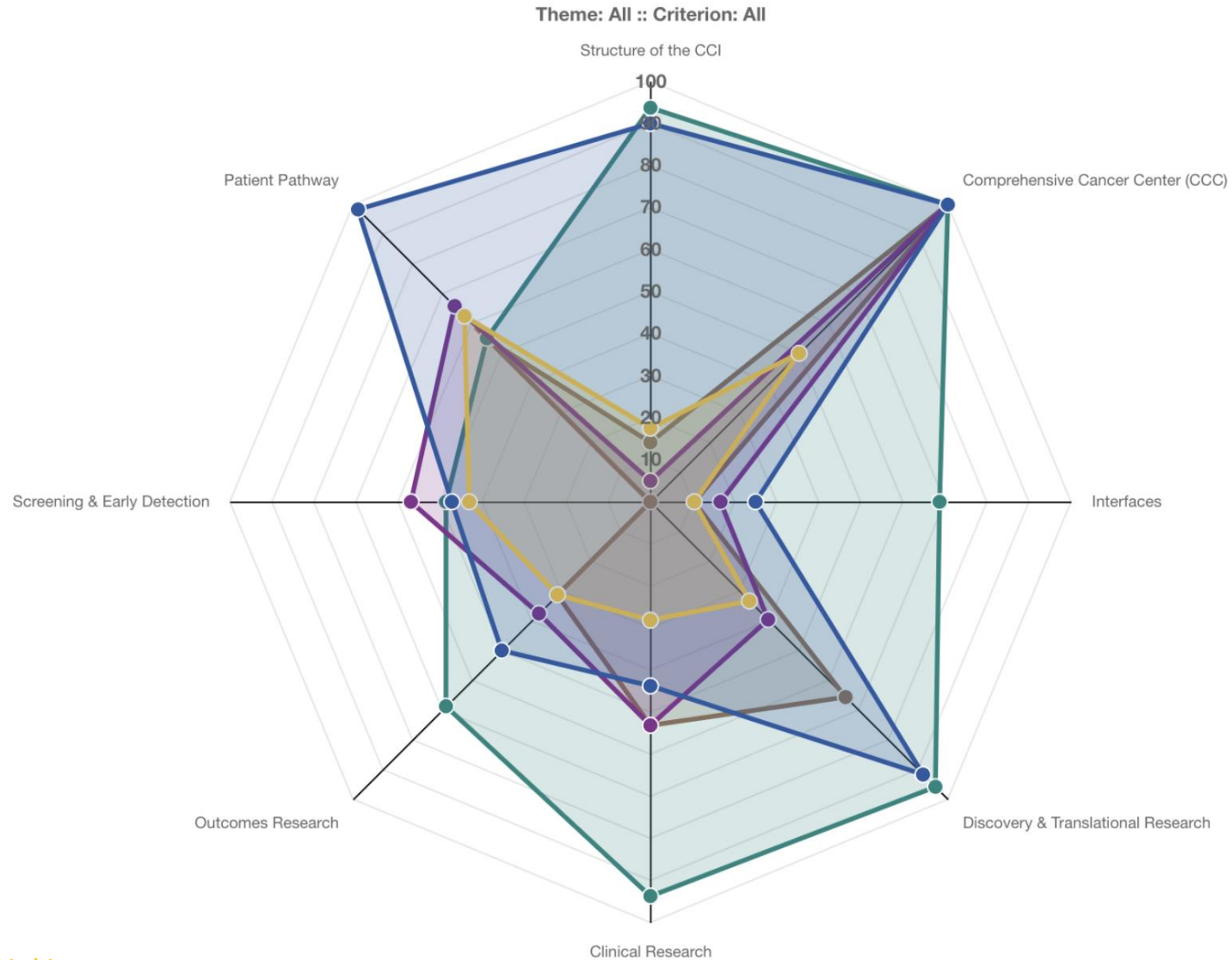
Overall: 38 potential CCIs included in the CCI Maturity Model web tool



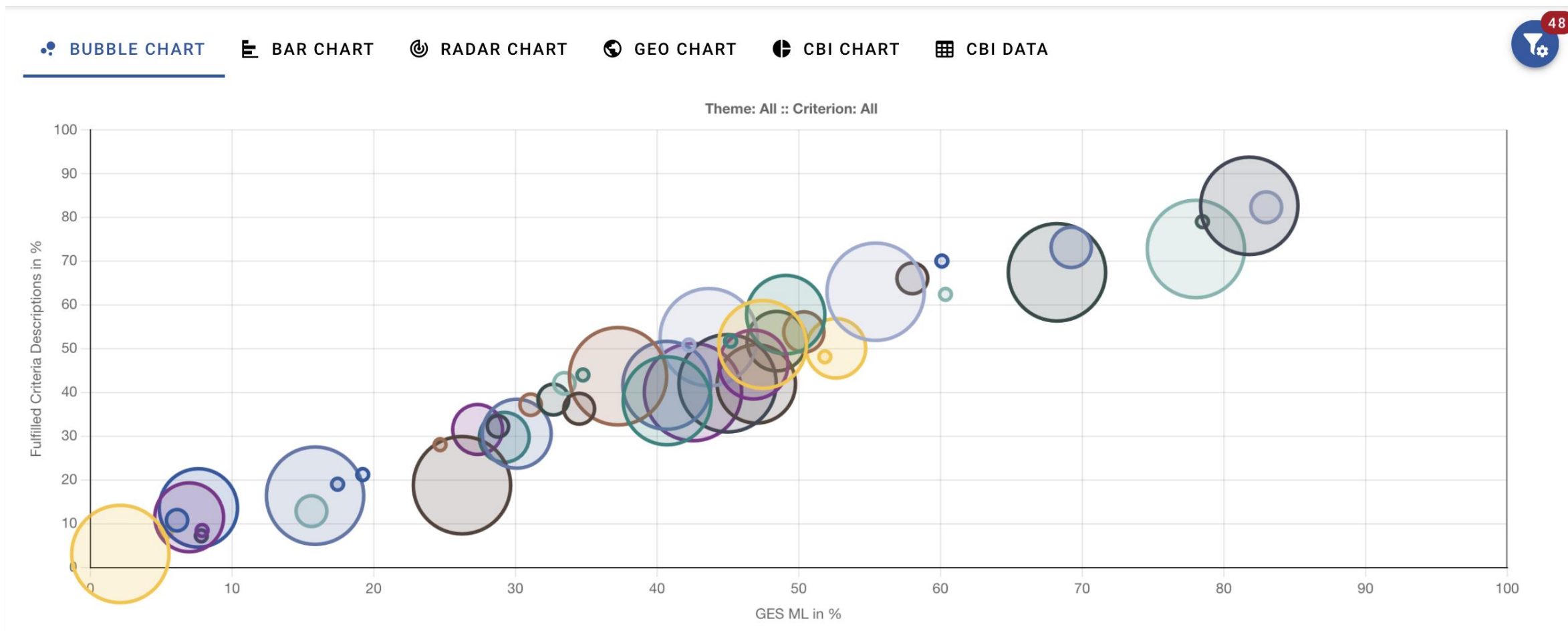
Dashboard view – Bar Chart



Dashboard view – Spider Chart

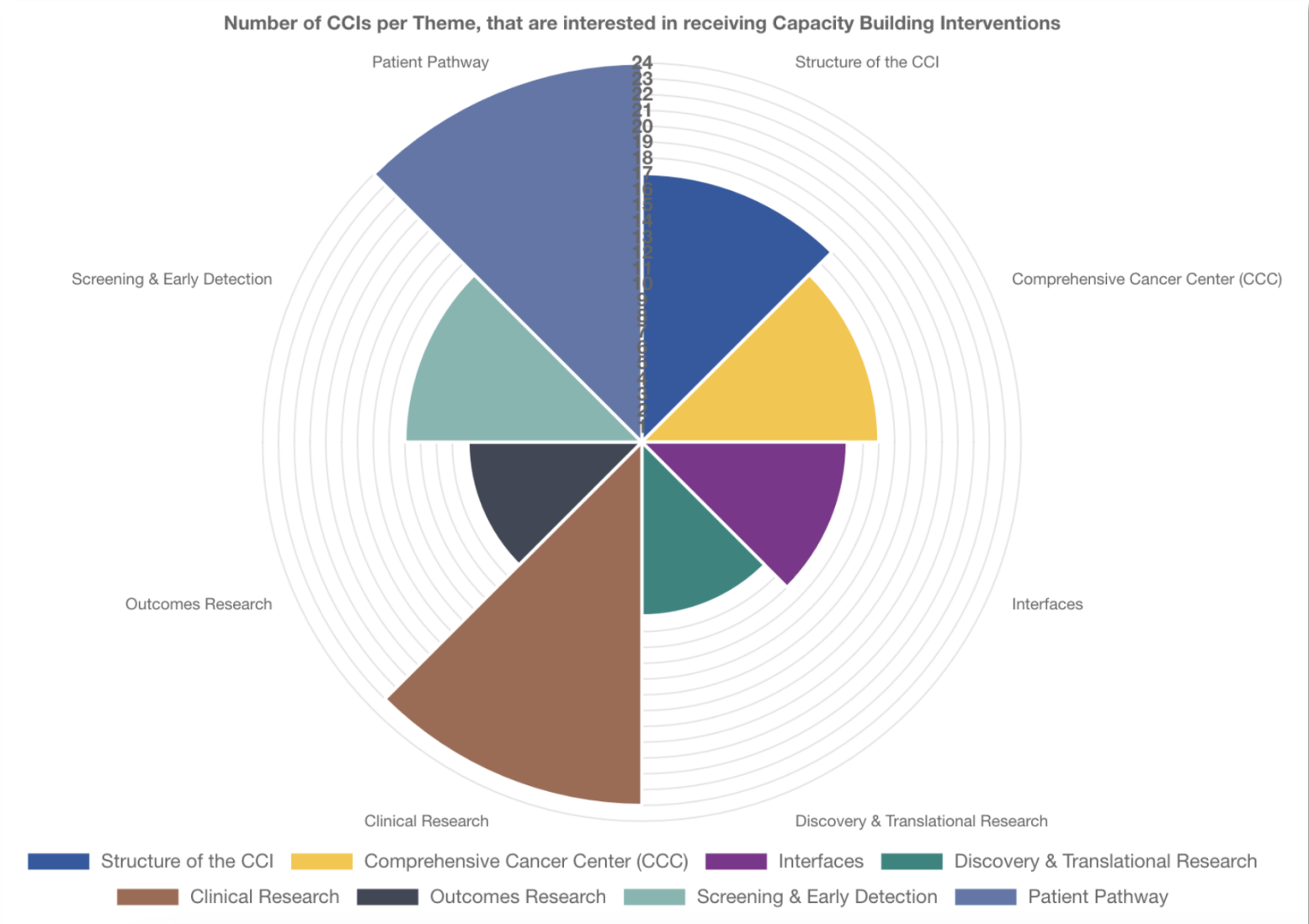


Dashboard view – Bubble Chart



Dashboard view – CBI Chart

Overview of the interest in Capacity Building Interventions per theme of all the (potential) CCIs



Dashboard view – CBI Data Overview

CBI Priorities & Affiliated Institutions

Search



Structure of the CCI	Comprehensive Cancer Center (CCC)	Interfaces	Discovery & Translational Research	Clinical Research	Outcomes Research	Screening & Early Detection	Patient Pathway
3	1 CBI	3	1	1 CBI	1	1	1 CBI
7	0 CBI	0	8 CBI	8	8 CBI	1	8
1	0	0	0	0 CBI	0	0 CBI	0 CBI
1	0	0	0 CBI	0 CBI	0	0 CBI	0
1	1	1 CBI	1 CBI	1	1 CBI	1	1
			10	10	10 CBI	10	10 CBI
			2	2 CBI	2	2	2 CBI
			2	2	1	1 CBI	1
		CBI	9	9	9	9 CBI	9

The respondent(s) to this theme are part of... *

☑ Check all that apply

Please choose **all** that apply:

- ...some independent institutions informally collaborating.
- ...all independent institutions informally collaborating.
- ...some independent institutions formally collaborating (e.g., unilateral agreements, conventions).
- ...all independent institutions formally collaborating (e.g., unilateral agreements, conventions).
- ...one institution only.

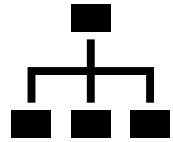
The CCI Maturity Model as the Golden Thread – Status Quo



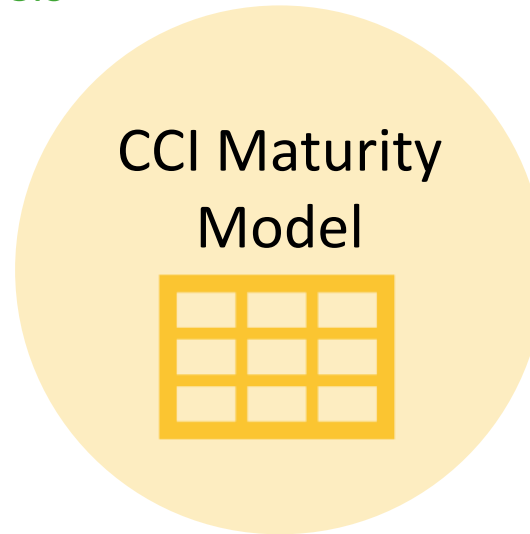
Assess the maturity of (potential) CCIs



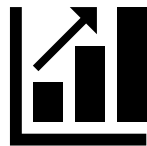
Transparent overview of the maturity of CCI developments in the MS incl. a scoring system



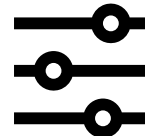
Structure the CCI criteria



Identify themes/criteria with potential for improvement



Overview of the effects of Capacity Building Interventions (= reaching a higher maturity level)



Define differentiated tailored interventions for Capacity Building



Data analysis and decision on candidates for Deep Dives for Capacity Building

Thank you very much for you attention!

Any questions?

