

# CERCOM:

Circular Economy in Road Construction and Maintenance

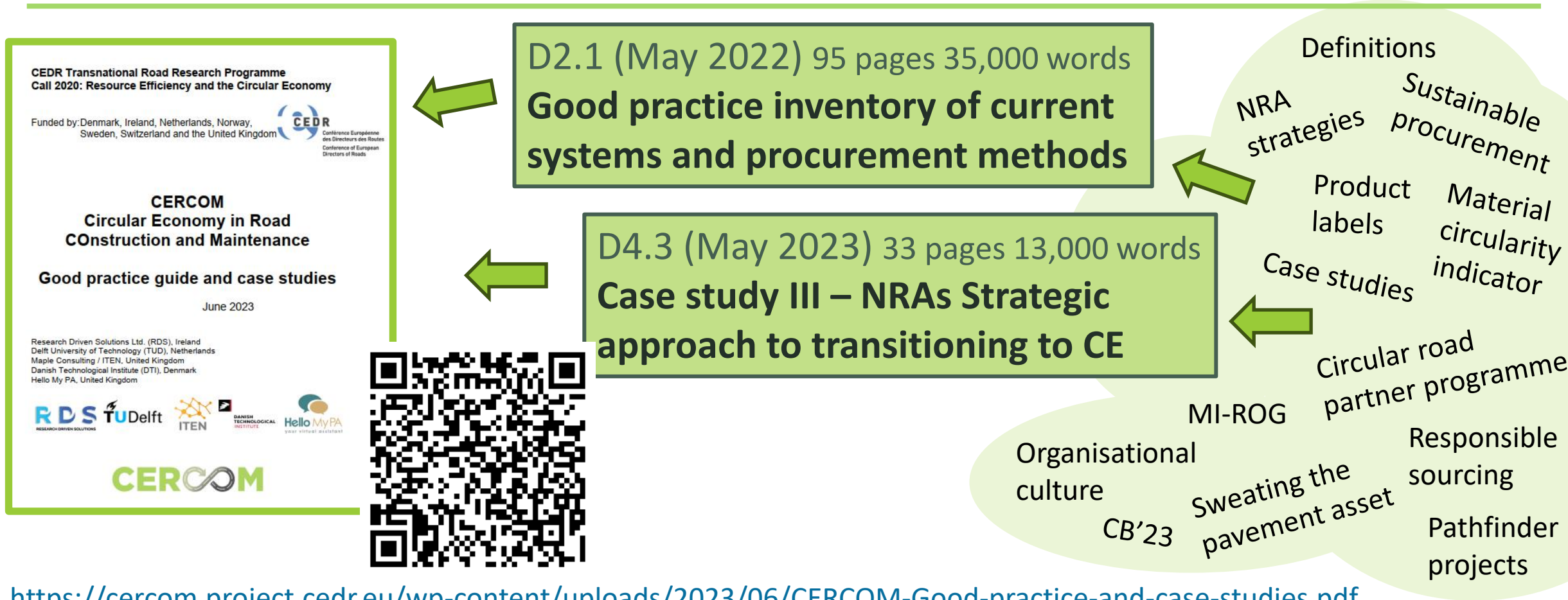
## Collaborative session 1: Linear to Circular economy

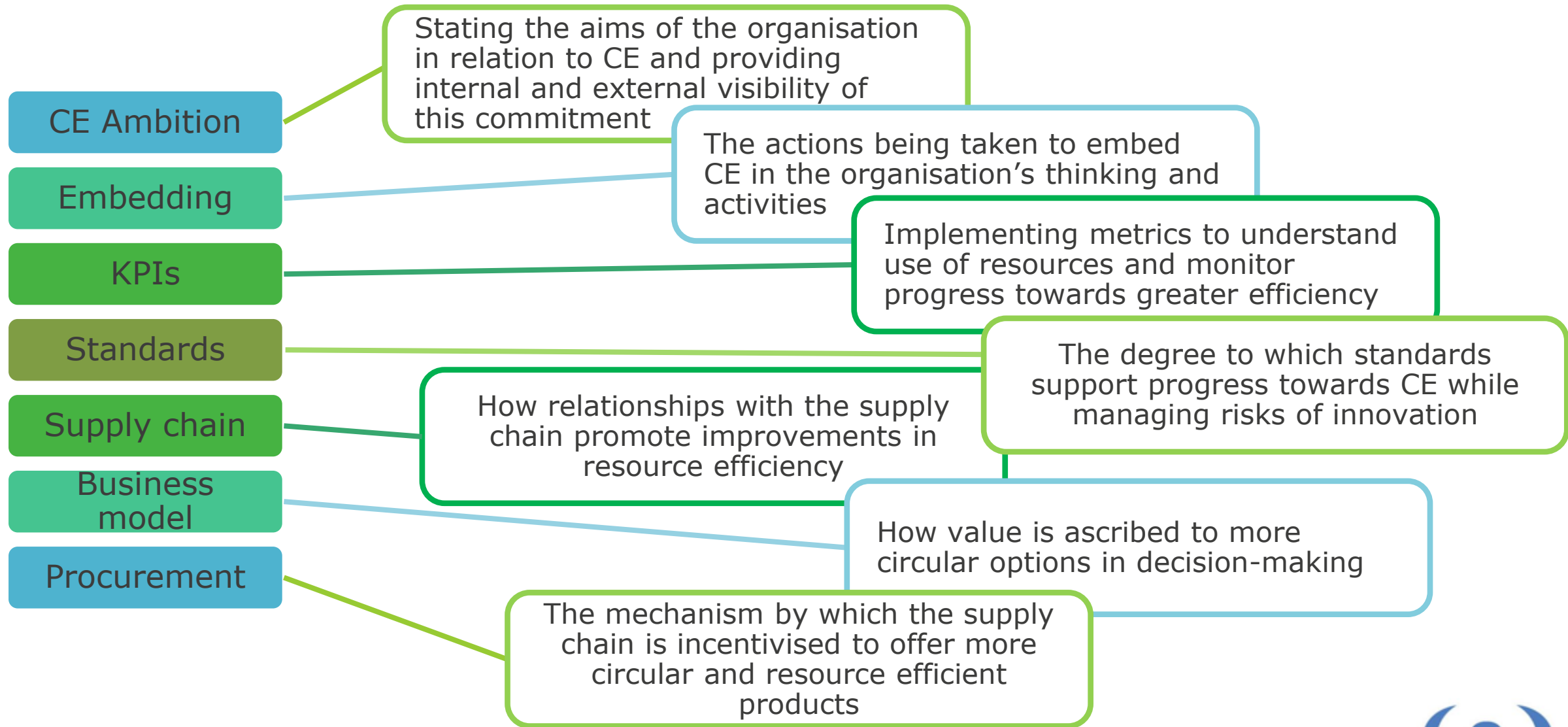
## Content of this session

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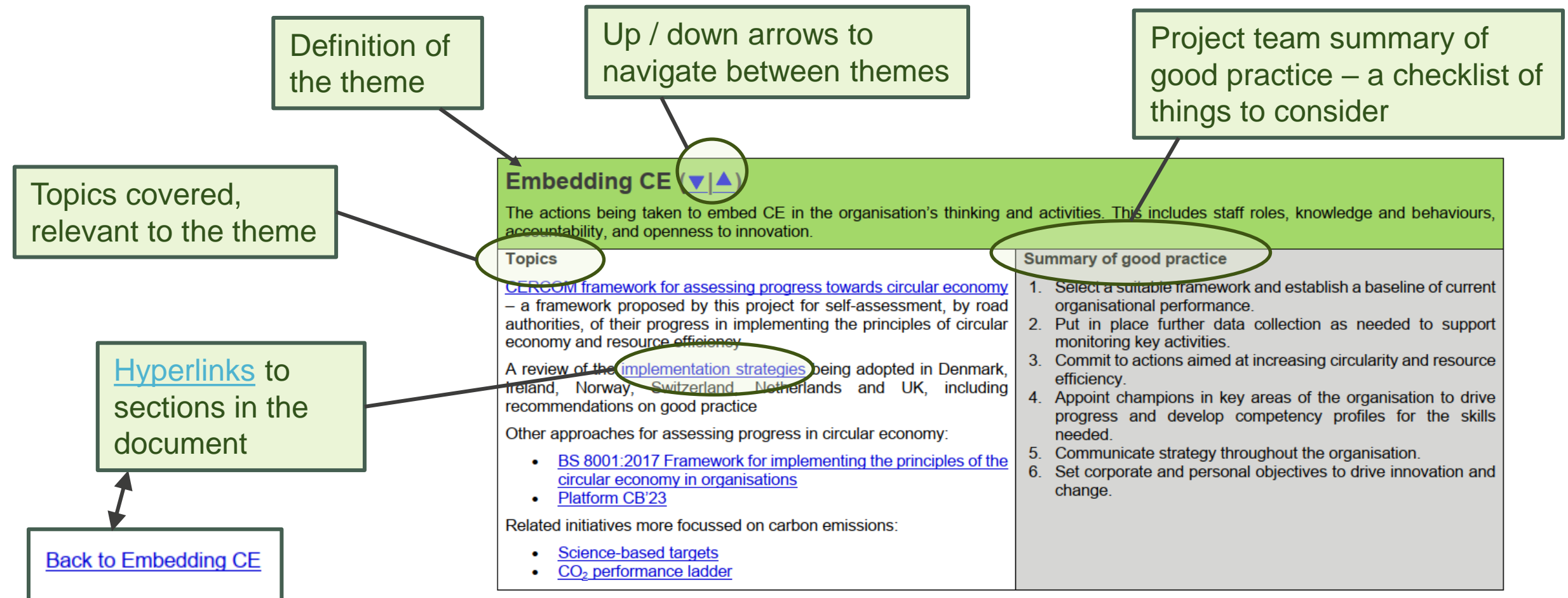
1. *Reminder of the interactive good practice guide*
2. *Recap of the assessment framework for maturity in circular economy*
3. *Putting the assessment framework into practice*
  - *Practical considerations for applying the framework*
  - *Look at one theme in detail (ambition in circular economy)*
  - *Small group discussion of current levels and input of assessments*
  - *Discussion of results*
4. *Advantages of this approach*

## Interactive Good Practice Guide

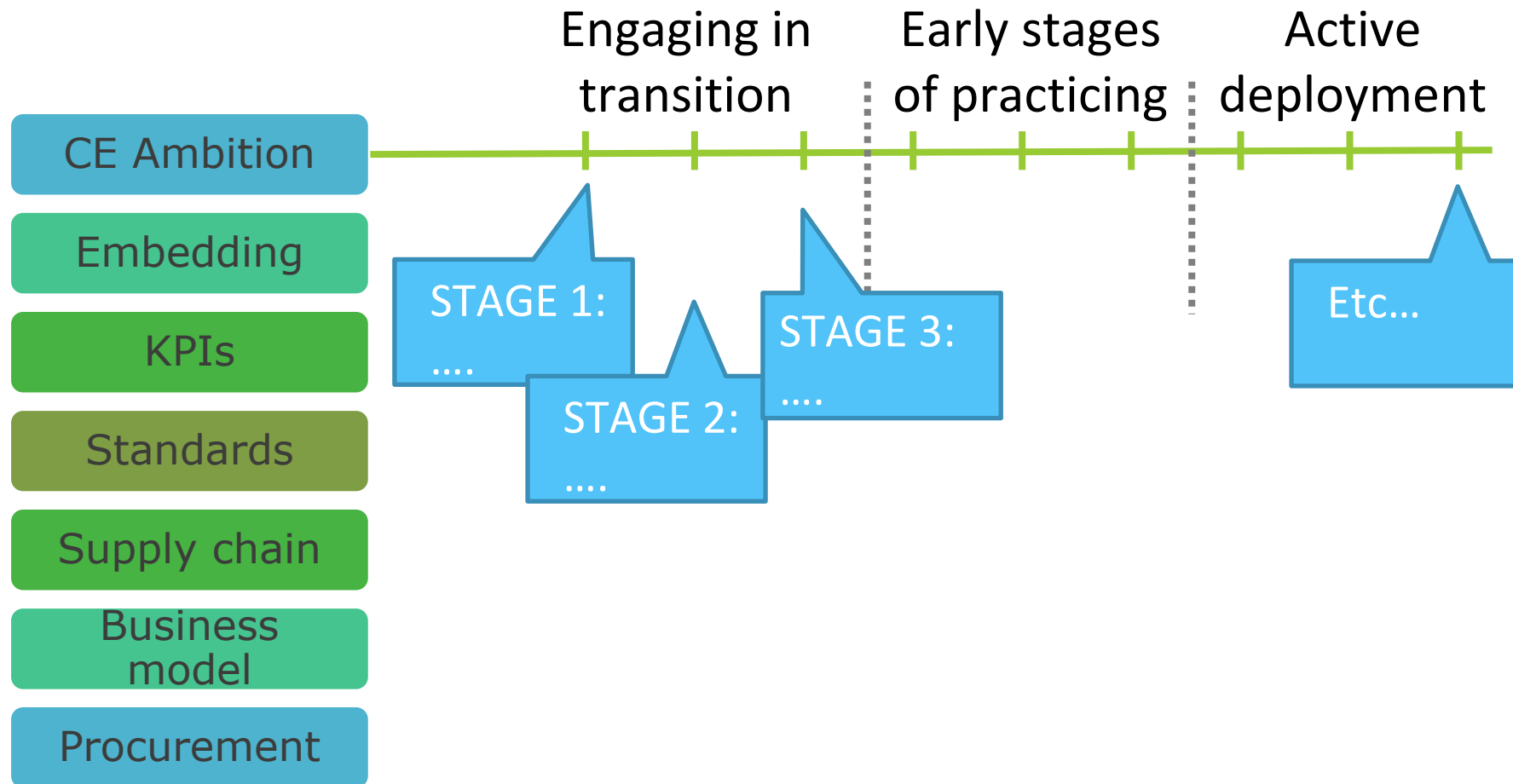




## Signposts material for each CERCOM framework theme



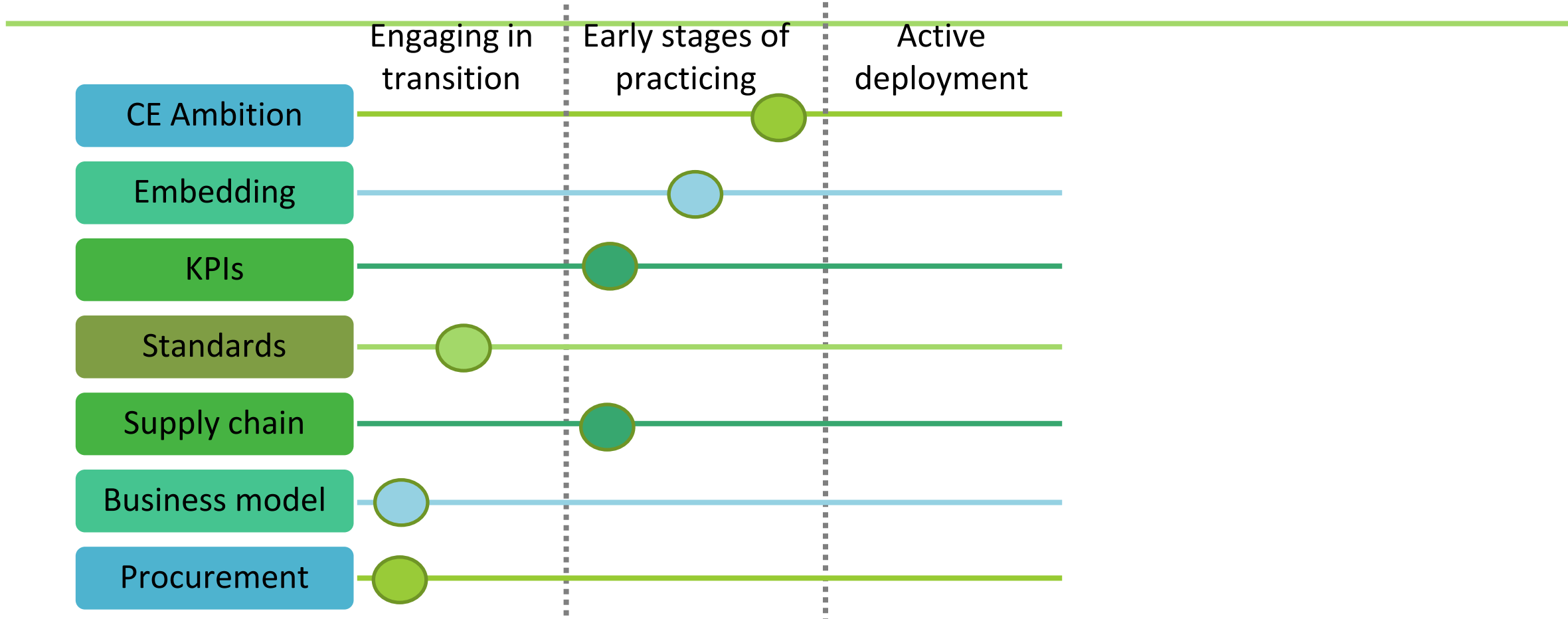
# Introducing the maturity assessment framework





Theme	Engaging in transition to RECE			Early stages - practicing RECE			Active deployment of RECE		
	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	Stage 8	Stage 9
<b>CE ambition</b>	NRA has not committed to a transition to CE.	NRA has committed to a transition to CE but is yet to define CE within the context of its operations	NRA has committed to a transition to CE and a definition for what CE means in practice is in place	Policy to transition to CE and improve RE are under development.	Policy to transition to CE has been published. Targets for transition yet to be identified and developed.	Policy to transition to CE has been published. Targets for RE and CE elements, some developed & others under development	Strategy for transition and route map under development. Targets for RE and CE elements are in place	Corporate strategic plan and route map for the transition are published.	Strategic plan for transition & route map with timeline in place and embedded in the NRA. Targets for RE and CE, monitoring systems to track progress are developed.
<b>Embedding CE</b>	No staff awareness of CE.	Low staff awareness of CE and how it affects their roles. No innovation in RE and CE	Moderate staff awareness of CE and how it affects their roles. Ad-hoc initiatives to support innovation to deliver CE.	Growing staff awareness of CE and how it affects their roles. Initiatives are starting to occur that support innovation to deliver CE. Ad-hoc champions in some project teams, but not widely spread across projects	Corporate communication for internal & external audience, beginning to be shared. Initiatives to support innovation to deliver CE increasing. Champions in some project teams to enable CE thinking. Supporting instruments, tools and staff training are being developed	Clear communication, internally & externally, on commitment to CE. Corporate commitment to innovation initiatives to deliver CE. Champions in project teams are beginning to drive through change. Supporting instruments, tools and staff training are being developed and implemented.	Staff fully are engaged with CE. Commitment and investment in innovation in RE & CE. Champions in project teams are beginning to drive through change, are recognised, and supported by senior management. Supporting instruments, tools and staff training are fully developed and implemented. Business and personal objectives beginning to be developed. CE principles are defined and understood.	Staff fully are engaged with CE. Investment in innovation in RE & CE. Visible leadership at senior level, with named posts, e.g. "Director of CE", who are supported by champions in key roles. Supporting instruments, tools and staff training are fully developed and implemented. Progress in development of business and personal objectives for delivery of RE and CE. CE principles are embedded in process as 'business as usual'.	Staff fully are engaged with CE. Significant investment in innovation in RE and CE with forward plan to continue commitment. Visible leadership at senior level, with named posts, e.g. "Director of CE", who are supported by champions in key roles. Supporting instruments, tools and staff training are fully developed, implemented and embedded. Business and personal objectives are set for delivery of RE and CE. CE principles are embedded in process as 'business as usual', and subject to continuous improvement.
<b>Performance monitoring (KPIs)</b>	Inventory of the resources in use is incomplete, not up to date. No tracking occurs of selected and isolated aspects, e.g. RAP or CO2.	Work on creating up-to-date inventory is underway. Partial tracking occurs of selected and isolated aspects, e.g. RAP or CO2.	A partial inventory is available of the resources in use. Tracking occurs of selected and isolated aspects, e.g. RAP or CO2.	Systems to monitor improvements in RE & CE are being developed. Recognition of need to work with supply chain. On-going work on improving	RE & CE are monitored internally. Supply chain involvement increasing. Increasing detailed invent	RE & CE are routinely monitored internally, the supply chain is required to provide data	A common data standard has been developed. Under	A common data standard has been developed. Under	A common data standard has been developed. Under

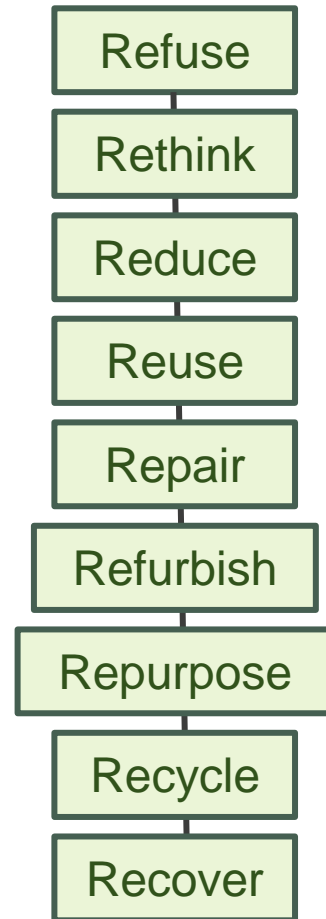
## Example of an assessment, May 2022





## Practical considerations for applying this approach

- Select an appropriate scope
  - Assessing the whole organisation may be too ambitious
- Involve personnel with knowledge of current practice
  - Consider external participants (supply chain and local stakeholders)
- Engage to draw out knowledge and reach consensus on current level
  - Workshops can be effective
  - List activities taking place and milestones achieved
  - Keep focussed on circular economy (if that is what you want to probe)
  - Record narrative and scoring



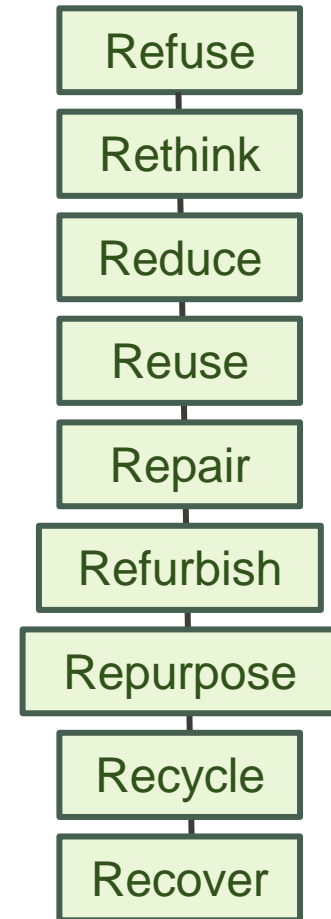
## Examine one theme: CE ambition

Definition of this theme:

- Stating the aims of the organisation in relation to CE, and
- Providing internal and external visibility of this commitment

Discussion in groups (10 min):

1. Is circular economy considered in your organisation?
2. What about resource efficiency?
3. Are you taking steps to improve CE / RE?
4. Do you have a policy for this?
5. Do you have, or are you considering KPIs / targets?
6. Do you have, or are you considering a strategy / roadmap?



# CE ambition – at what level is your organisation?



## Engaging with transition

1. NRA has not committed to a transition to CE
2. NRA has committed to a transition to CE but is yet to define CE within the context of its operations
3. NRA has committed to a transition to CE and a definition for what CE means in practice is in place

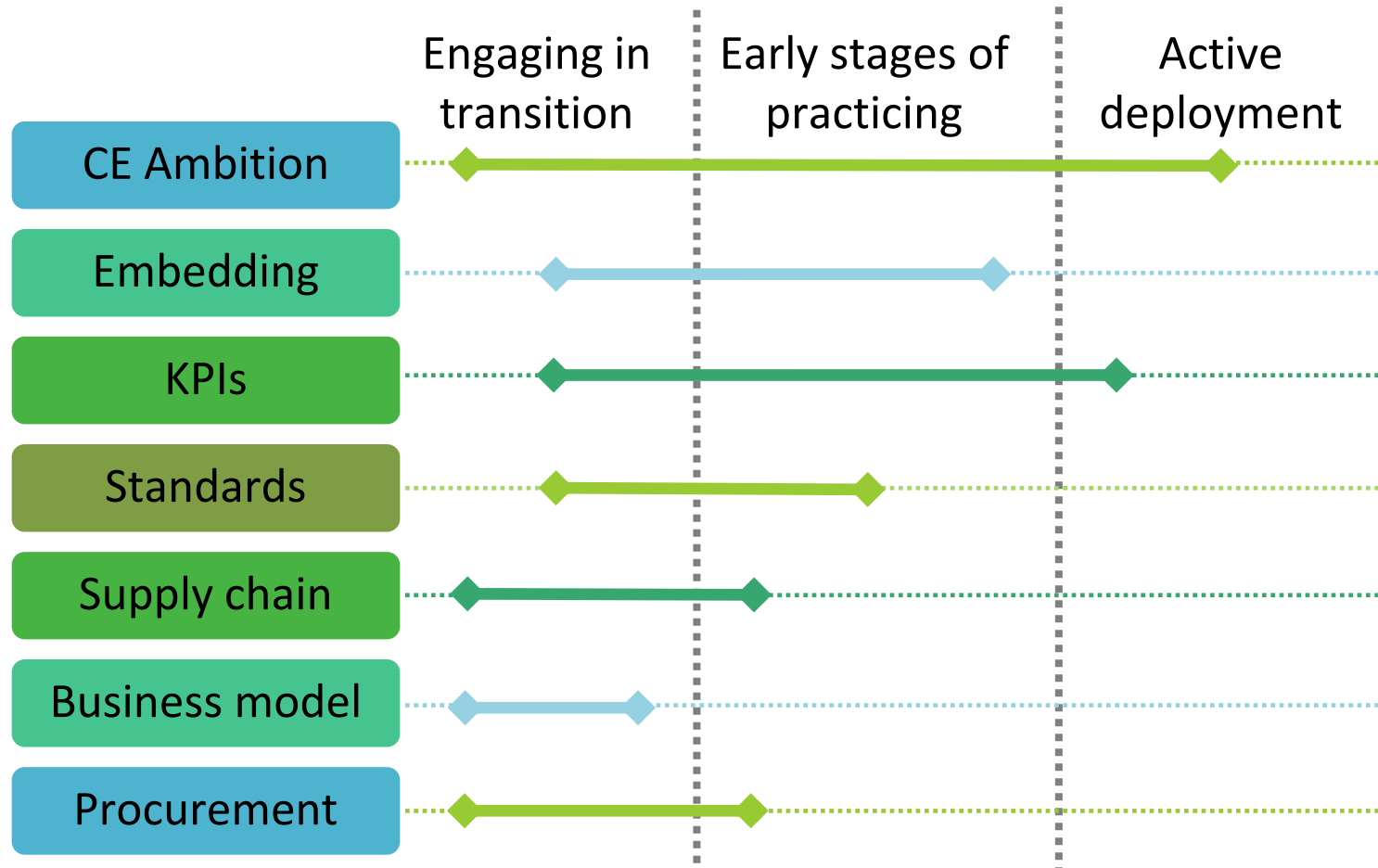
## Early stages of practicing

4. Policy to transition to CE and improve RE are under development
5. Policy to transition to CE has been published. Targets for transition yet to be identified and developed.
6. Policy to transition to CE has been published. Targets for RE and CE elements, some developed & others under development

## Active deployment

7. Strategy for transition and route map under development. Targets for RE and CE elements are in place
8. Corporate strategic plan and route map for the transition are published
9. Strategic plan for transition & route map with timeline in place and embedded in the NRA. Targets for RE and CE, monitoring systems to track progress are developed

# Comparison with initial assessments, May 2022



## 6 participating NRAs:

Vejdirektoratet, DK  
 Transport Infrastructure  
 Ireland, IE  
 Statens Vegvesen, NO  
 Swiss Federal Roads  
 Office, CH  
 Rijkswaterstaat, NL  
 National Highways, UK

## Advantages of this approach

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- Increased circularity / greater resource efficiency is needed for:
  - Reducing in carbon emissions
  - Reducing waste
  - Becoming more material resilient
- We need to get on an improvement trajectory
  - Measurement and engagement are the first steps
  - The supply chain will only invest in new solutions where the standards, business models and procurement incentives point to it
- The seven themes are all important aspects for success

## Suggested next steps

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NRA's commit to assessing their progress using the CERCOM assessment framework

Each participating NRA will:

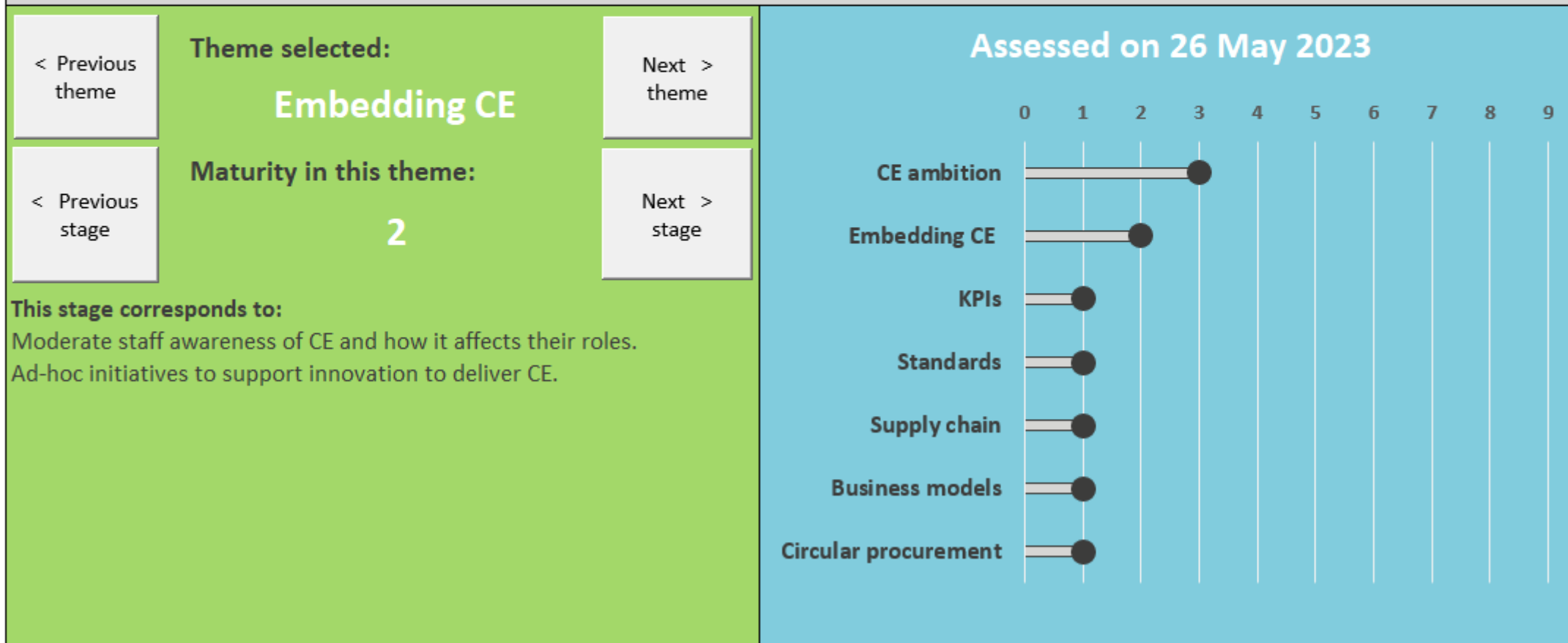
- Identify a part of their organizational activity for assessment
- Hold a workshop to assess each theme and record progress and narrative
- Carry out further consultation as necessary
- Identify actions and time scales relevant to your NRA – agree an **action plan**
- Set a timescale for review and reassessment
- Share experience with other CEDR members

Assessment  
is only the  
START of  
the process



This framework allows road authorities to assess their progress in implementing the principles of circular economy and resource efficiency. It was produced as part of the CERCOM project (deliverable D2.1), funded by CEDR as part of the 2020 transnational research programme. Further details at: <https://cercom.project.cedr.eu/>

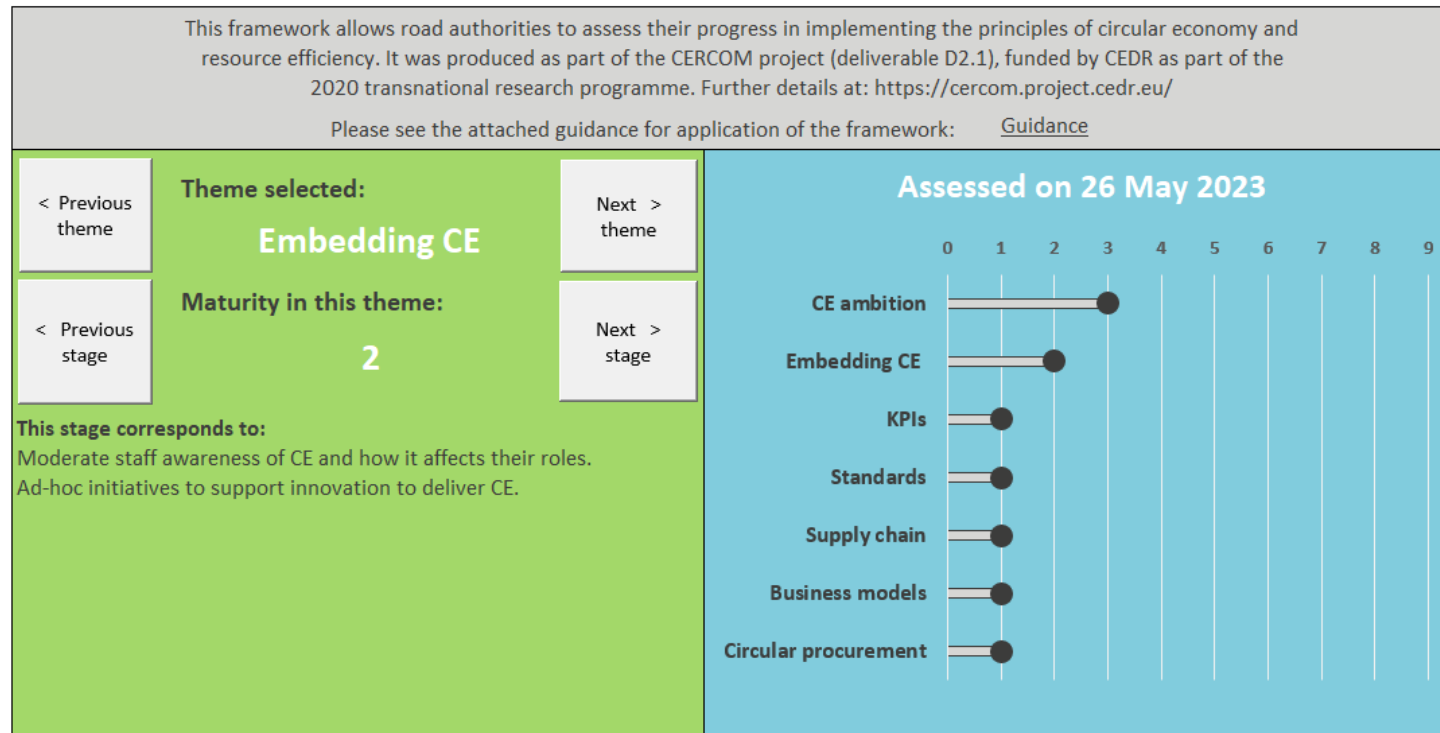
Please see the attached guidance for application of the framework: [Guidance](#)



# Accessing resources



## Framework for assessing progress in transitioning to circular economy



The Excel tool, video and other resources are on the project website

Follow links in **ANNEX B** of the **RESOURCE PACK** under the **organisational capability** heading



<https://cercom.project.cedr.eu/wp-content/uploads/2023/10/CERCOM-D5.1-Resource-Pack-to-Support-NRAs-Embed-RE-CE-Principles.pdf>