





				wor	king	form	1	
	Overview target group; undergoing relevant bachelor/master	case studies	course	design studio	excursion	practical course	service learning	workshop
01	Five essentials for successful circular biobased construction	100000		10000	1000			
02	initiatives Cooperation models in circular economy			Н	-			
02	Cooperation modes in circular economy							
03	Role-play in initiation teams							
04	CBCI - Back to the future							
05	Basics biobased structural and facade materials & construction methods							
06	Prototyping testing of biobased and circular construction							
07	Circular and biobased ambitions in construction projects; an integrated approach to the tendering process							
08	Circular and biobased ambitions in construction projects; Part 1: initiative and feasibility phase							
09	Part 1: instance and reasonity phase Circular and biobased ambitions in construction projects; Part 2: project definition							
10	Circular and biobased ambitions in construction projects; Part 3: procurement			Н				
11	Circular and biobased ambitions in construction projects;	+		Н				
12	Part 4: implementation Rules & regulations in the circular and	+		Н				
	biobased construction industry	-		_				
13	Circular & biobased design approach, using an iterative design process							
14	Measuring circularity characteristics of circular and biobased construction	\top		Т				
18	Measuring the social and societal impact of circular and biobased building							
19	In situ testing of biobased and circular construction							
22	Excursion Living Lab Leuven, Ghent - Belgium							
23	Excursion Living Lab Emergis, Kloetinge - The Netherlands							
24	Excursion Exhibition Kamp C, Westerlo - Belgium							
	tarnet mouse undersolne relevant marter							
-	target group: undergoing relevant master							
15	Cooperation models in circular construction projects							
16	Social economy and corporate social responsibility							
17	Flexibility and end-of-life calculators							
20	Life cycle assessment of circular and biobased construction							
21	Overview and application of circular assesment tools							

1	wo	rk si	ze		skills													
	dnoub	quo	individual	academic learning	analysing	a questioning attitude	critical awareness	designing	evaluating	formulating a	observing	ordering and structuring	perspective taking	reasoning	reflection	serving	situation awareness	sound decision making
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07

Circular and biobased ambitions in construction projects; an integrated approach to the tendering process

Experiences of front-runners and living labs for the design of the procurement and tendering process to realise circular biobased ambitions.

keywords

biobased building

circular building

BOOK CRCSHONO21

overview



Introduction to the procurement framework for circular biobased buildings.

skills



- perspective taking
- situation awareness
- reflection

characteristics



- individual
- course / workshop

duration

2 x 60 minutes





target group



Bachelor and master students from various fields of study for whom circular construction with biobased materials is unknown territory.

prerequisites



learning outcomes



- · The student can summarise the most important message that everyone should heed when starting a tendering procedure for circular biobased buildings.
- The student can describe the four steps of the tendering process from the white
- · The student can illustrate for each of the four steps an example from the white

- The student can explain why starting the tendering process with the end in mind is quintessential in a tendering process for circular biobased buildings.
- · The student can comment each of the focus areas in the initiation procedure for circular biobased buildings.
- The student can comment each of the focus areas in the definition procedure for circular biobased buildings.
- · The student can comment each of the focus areas in the tendering procedure for circular biobased buildings.
- · The student can comment each of the focus areas in the realisation procedure for circular biobased buildings.

Chapter 7 | Blueprints Blueprints | Chapter 7

setup - teacher preparation

Lesson 1:

- Watch the two minutes introductory video on the Circular biobased construction industry as published by CSTC WTCB BBRI on YouTube: https://youtu.be/vtBeyPj4OZw
- Read the white paper "Circular and bio-based ambitions in construction projects; an integrated approach to the tendering process".
- Take a look at the corresponding slideshow.
- Collect the questions prepared by the students and use them to complete a Kahoot! (kahoot. com) or Whooclap.(whooclap.com) quiz.
- Optional: Watch the corresponding video lecture.

setup - student preparation

Lesson 1:

- Study the white paper "Circular and biobased ambitions in construction projects; an integrated approach to the tendering process".
- Design two multiple choice questions that can be integrated into a Kahoot! (kahoot.com) or Whooclap (whooclap.com) quiz.
- Share the questions you prepared with the teacher.

Lesson 2:

The students prepare in teams of two an essay of maximum two pages wherein they explain the topics referred to in Learning Outcomes 4-8. Students from year two or above can be requested to explain the topics based on previously studies construction projects.

teaching setup

Lesson 1. Lecture

STEP 1: The teacher and the students together watch the introductory video on the Circular biobased construction industry as published by CSTC WTCB BBRI on YouTube: https://youtu.be/vtBeyPj4OZw

STEP 2: The teacher provides a short lecture guided by the slideshow concerning the white paper "Circular and bio-based ambitions in construction projects; an integrated approach to the tendering process".

STEP 3: The teacher organises a Kahoot! (kahoot.com) or Whooclap (whooclap.com) quiz based on the questions he collected from students.

Lesson 2. Workshop

STEP 1: The teacher assigns some teams to share their findings in a five minutes presentation.

STEP 2: Students fire questions at the presenting peers.

STEP 3: Students provide feedback on the team that did the presentation.

STEP 4: The teacher offers feedback on presentation, questions, anwers and possible comments.

variations

The students study the material independently based on the materials provided (white paper, presentation, video lecture) and share their work according to Lesson 2 of the preparation student setup.

references

White paper - Circular and bio-based ambitions in construction projects; an integrated approach to the tendering process,pdf.

White paper - Circulaire on biobased ambities in bouneprojecten; een integrale sampak van het aanbestedingsproces.pdf.

Arans, ETJ. (2020, 14 december). Explanimation Circular Bio-based Construction Industry (CBCI) [Video], YouTube, Gerandpleegif op 2 juni 2020, van https://www.pountube.com/watch/v=rtfleeff-402/w

Scherpenison, M., Borola, P., Barennen, K., Beaujean-Kaijsten, A., Torfs, S., Konter, M., Lefevre, L., Van Eenenmaan L., & Quanjel E. (2021). Creadate on bioSaurd ambries to beomprejactor. En integral a surpack was their authenticitypersen: Erraringen was koplegen on firing labs woor het inrichten van het riskoop en ausabenticitygenesse om circulative biobased ambries water is kunner medices (White paper 23. CBC).

Scherpenisse, M., Roeda, P., Barentsen, K., Bessiean-Kuijsten, A., Torfs, S., Koster, M., Lefevre, L., Van Emensuam I., & Quanjel E. (2021). Circular and bio-based ambitions in construction projects: An integrated approach to the tendering process (White paper 2). CBCI.

White paper - Circular and his-based ambitions in construction projects: an integrated approach to the tendering process - Video Animation.mp4



For more information: scan the QR-code, or go to the url: edu.nl/jrgcq



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