



D3.5: BioBeoBIP; a Comprehensive guide on the Blended Intensive Programme in Rotterdam 7-14 March 2025

BioBeo

Innovative Education for the BioEconomy



Co-funded by
the European Union



Introducing the BioBeoBIP

From March 7-14, 2025, RUAS BioBeo organises a Blended Intensive Programme at the Rotterdam campus of RUAS, Rotterdam University of Applied Sciences. We welcome students from Maynooth, Ireland, Primary Teacher Training and from Odisee Brussels (OUAS), Belgium, Secondary Teacher Training. Students (Primary and Secondary Teacher Training) from RUAS are involved as well. All together there will be 33 students participating in this week.

The BIP aims to bring bioeconomy closer to education during a vibrant week full of fascinating workshops, interesting lectures, excursions and a variety of assignments and activating methods.

The Blended part is an assignment in combination with the exploration of GreenComp, by JRC; the European Commission's science and knowledge service. And finding out what vision profile the students have on Bioeconomy, the Sustainable Development Goals (SDG's) and Circularity.

After the BioBeoBIP week, there will be an online evaluation, to be aware of what has been learned about Bioeconomy in relation to teaching.

A Comprehensive Guide on the Blended Intensive Programme in Rotterdam 7-14 march 2025.

The BioBeo Blended Intensive Programme offers a hybrid learning experience, combining online pre-course content and a one-week, in-person study visit to Rotterdam. The program is specifically designed for teacher training students who are preparing to teach Bioeconomy concepts, Sustainability and Circular Economy. Participants will engage in interactive lectures, hands-on workshops, site visits, excursions, group discussions, and case studies related to sustainability and green innovation in urban settings.

During the week in Rotterdam, participants will explore the city's sustainability initiatives, experience firsthand how bioeconomy practices are implemented in urban planning, waste management, agriculture, and education, and collaborate with experts, innovators, and local authorities. The program will also emphasize the interdisciplinary nature of sustainability education, showing how it can be embedded across different subjects and teaching methods.

We wish you lots of inspiration,
Hanneke Maasland, Karin Kreijkes & Janneke Verloop, Rotterdam University of Applied Science,
7th of March 2025, Rotterdam, The Netherlands

Definition of Bioeconomy

The BioBeo project defines bioeconomy for children as follows: "Bioeconomy is a way of using natural resources to produce food, energy, and products for living while taking care to protect the Earth at the same time. Using renewable, bio-based resources or gifts from the Earth, and reducing our waste in the bioeconomy supports a sustainable and healthy future for the planet and all living creatures. Each and every one of us needs to choose and use resources wisely and gently for the sake of our shared home- the Earth."

Objectives, aims and goals

The BioBeo Blended Intensive Programme (BIP) for Teacher Training Students aims to equip future educators with knowledge, practical skills, and a deep understanding of Circular Economy (CE) and Bioeconomy concepts in the context of sustainability. In the Blended part of the BioBeoBIP, we made use of GreenComp, the publication that is a Science for Policy report by the Joint Research Centre (JRC); the European Commission's science and knowledge service. It aims to provide evidence-based scientific support as input to the EU's policymaking process.

GreenComp consists of 12 competences (in **bold**)

organised into the four areas (in *italics*) below:

- *Embodying sustainability values*, including the competences

- **valuing sustainability**
- **supporting fairness**
- **promoting nature**

- *Embracing complexity in sustainability*, including the competences

- **systems thinking**
- **critical thinking**
- **problem framing**

- *Envisioning sustainable futures*, including the competences

- **futures literacy**
- **adaptability**
- **exploratory thinking**

- *Acting for sustainability*, including the competences

- **political agency**
- **collective action**
- **individual initiative**

Through this BioBeo Blended Intensive Programme (BIP), participants will:

- *Gain a comprehensive understanding of Circular Economy and Bioeconomy principles.
- *Learn how sustainability can be integrated into educational practices and curricula.
- *Develop competencies to communicate sustainability to students of various ages and educational levels.
- *Explore real-world applications of CE and Bioeconomy in Rotterdam and beyond.
- *Foster critical thinking and collaborative learning focused on ecological and economic sustainability.

*Understand the role of educators in promoting sustainability and driving eco-friendly innovations in their communities.

Learning outcomes

Upon completion of the BioBeoBIP, participants will gather:

Knowledge Acquisition: Participants will have a solid understanding of the concepts, theories, and practices of Circular Economy and Bioeconomy, along with the ability to contextualize these within the broader framework of sustainability.

Practical Skills: Students will develop the ability to integrate sustainability practices into their teaching methods, creating engaging, relevant, and innovative lessons for pupils.

Critical Thinking: Participants will be able to critically assess different approaches to sustainability in the context of education, policy, and business, and make informed decisions about integrating these topics into their future classrooms.

Networking: Participants will build connections with professionals, international peers, and experts in the sustainability field, creating a support network for future collaborations and teaching opportunities.

Action Plans: Participants will leave the program with a lot of inspiration for implementing Circular Economy and Bioeconomy education in their teaching environments, whether through specific lessons, projects, or extracurricular activities.

Global Perspective: Through the international setting of Rotterdam and diverse expert perspectives, students will gain a global outlook on sustainability challenges and solutions.

This program will empower teacher training students to be proactive leaders in the classroom, guiding the next generation of citizens towards an eco-conscious and sustainable future.

Methods

Blended Learning Approach: Participants will first engage with online learning modules that cover the basics of Circular Economy, Bioeconomy, and sustainability concepts.

Interactive Workshops: A series of hands-on, problem-solving workshops will take place throughout the program. These will focus on applying sustainability principles to classroom practices, such as parent involvement, lesson plans that teach about circular design or bio-based materials.

Field Visits: Students will tour innovative sustainable projects in Rotterdam, Delft and The Hague, such as circular economy start-ups, sustainable architecture, waste management systems, and urban farms. They will analyse the practical application of sustainability concepts in a city that prioritizes green policies.

Group Activities: Collaborative sessions will address real-world challenges in bioeconomy education, with students working in groups to design educational materials and strategies to teach sustainable practices to different age groups. For example an UN role game on Climate change will be enrolled.

Expert Talks: (Inter)national Bioeconomy experts, policymakers, and academics will provide lectures and discussions, offering insights into Rotterdam's green initiatives, business models, and governmental strategies that support Bioeconomy.

Where are we?

The Irish and Belgian students stay at the [Stayokay](#) in the cubical houses in Rotterdam. Built in 1984, the cube houses were designed by Dutch architect Piet Blom. In 2009, some of them were renovated and converted into a hostel.

Stayokay

Overblaak 85-87

3011 MH Rotterdam

check-in time 14:00 check-out time: until 11:00

Breakfast: Monday - Friday 07:30 - 09:30, Saturday - Sunday 08:00 - 10:00

Make your own lunch during breakfast

For packed lunches, guests will receive a bag at breakfast with a drink, piece of fruit, sweet snack and bags that they can fill themselves with products from the breakfast buffet. Thus, they can grab sandwiches/bread according to their needs and spread them with their own toppings to take away. All products from the breakfast buffet are available for this purpose.



RUAS Hogeschool Rotterdam, the location where most lectures and workshops are given.

Museumpark 40

3015 CX Rotterdam



Blue City

The place where the programme on Wednesday the 12th will take place.

<https://www.bluecity.nl/en>

Maasboulevard 100

3063 NS Rotterdam

+31 (0) 10 307 22 47

info@bluecity.nl

On walking distance from the Stayokay <https://ap.lc/uKvWY>

Maasboulevard 100

3063 NS Rotterdam



De Papaver, Delft, Sustainability Centre

<https://papaverdelft.nl/>

Korftlaan 6

2616 LJ Delft

015-364 92 38



Museon-Omniversum

Stadhouderslaan 37
2517 HV Den Haag

[Homepage](#) | [Website EN](#)

Museum-Omniversum Dome

President Kennedylaan 5
2517 JK Den Haag



Communication with Staff

Teachers of RUAS (Hogeschool Rotterdam)

Janneke Verloop: +31(0)644234823

Hanneke Maasland: +31(0)618293292

Karin Kreijkes: +31(0)614328605

Teachers of OUAS (Odisee Brussels)

Bart Hempen

Bram van der Broeck

Teachers of MU (Maynooth University)

Maire Nic an Bhaird

Laoise Ni Chleirigh

Lecturers

Evelyn Reinmuth (University of Hohenheim, Head of Bioeconomy Office)

Judit Horgas (IPA Parents International)

Linda Buijsman (Voedsel uit het bos, Forest Food)
Optional Kees Klomp (Windesheim University)

The programme

The 'blended' part of the BIP is a vision profile on your teaching about biobased economy and questions about the GreenComp, all send to you 2 weeks before the start.

The BioBeoBIP is from Friday the 7th until Friday the 14th. In the weekend we plan some Field trips in Rotterdam and Delft with examples of biobased entrepreneurship, sustainable solutions in architecture, circular economy start-ups and urban farming.

On Thursday we have a diner at the Stayokay in Rotterdam and on Friday the 14th, we have a UN role game and simulation on climate change. It will be an introduction in policymaking and solving problems in a collaborative environment, this can help to think out of the box and build empathy — crucial skills in a warming world.

Please find the Schedule on the next page.

Schedule Details

Friday 7 March

The programme starts at Friday 7 March at 15:00 at RUAS Museumpark 40 in room MPL02.326

The Belgian students can come straight to RUAS Museumpark and after the opening around 17:00 they go to the Stayokay. Introduction Crazy 88.

The Irish students come around 17:30 to the Stayokay, we welcome them at the Stayokay.

Saturday 8 March

We gather at 10:00 in the Stayokay, bring your lunch.

Bring your walking shoes for a 6 km sustainable walk through Rotterdam.

Sunday 9 March

We gather at 10:00 in the Stayokay, bring your lunch.

We walk through Delft to see innovative biobased examples.

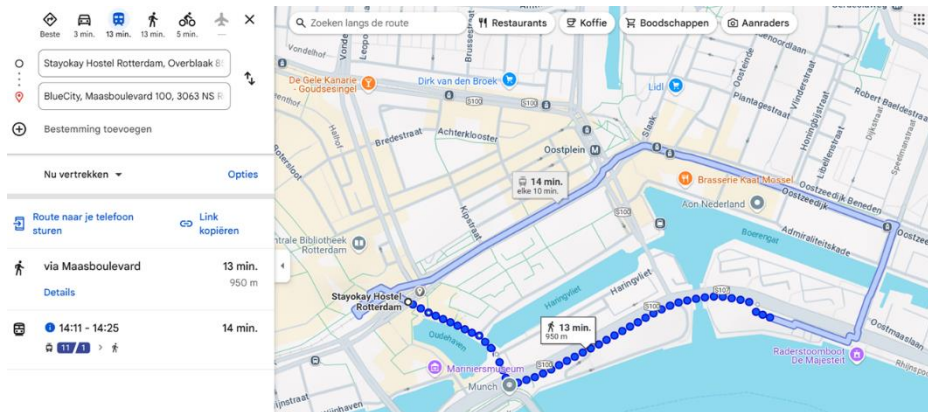
You can stay a bit longer in Delft if you like.

Monday 10 March, and Tuesday 11 March

We welcome you at 9:00 at Museumpark . Bring your lunch.

Wednesday 12 March

You can walk to Blue City, quite close to the Stayokay. Bring your lunch.



Thursday 13 March

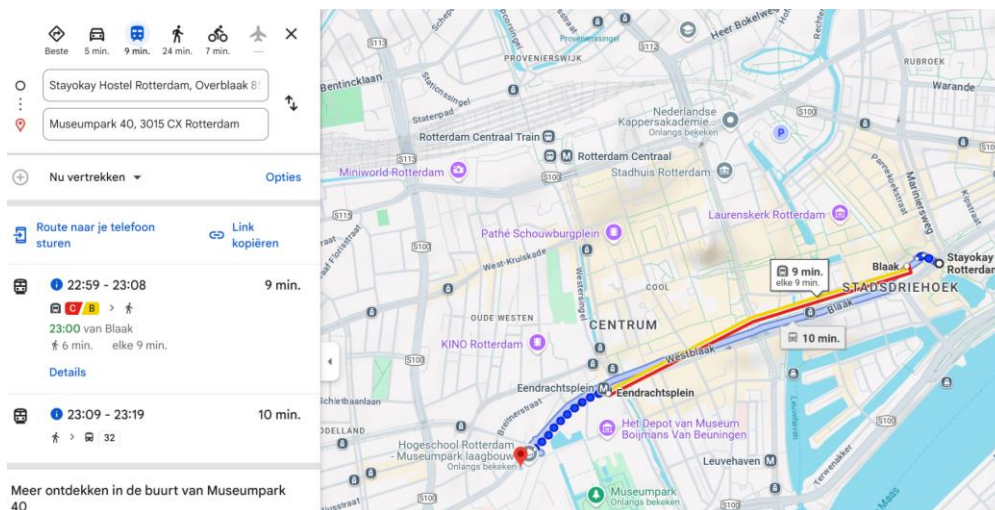
We start at Museumpark at 9:30, in the afternoon we go by bus to The Hague. Bring your lunch.

And back to the Stayokay, where we offer you a dinner at 18:45.

Friday 14 March

The final UN role game with World Climate Simulation int the Atrium, Museumpark

You are offered a lunch.



After the BioBeoBIP there will be an online evaluation and reflection, you will be asked about the learning outcomes and the impact of the programme on your teaching.

The Schedule BIP 7-14 March 2025

Time	Friday 7th March	Saturday 8th March	Sunday 9th March	Monday 10th March	Tuesday 11th March	Wednesday 12th March	Thursday 13th March	Friday 14th March
	Rotterdam Museumpark MP.L02.326	Rotterdam	Delft	Rotterdam Museumpark MP.L01.448 & MP.L01.331	Rotterdam Museumpark MP.L01.448 & MP.L01.331	Rotterdam Blue city Maasboulevard 100	- Rotterdam Museumpark - The Hague - Stayokay	Rotterdam Museumpark Atrium
9.00				9:00-10:30 Evelyn 'Definition of Biobased Economy' Room: MP.L01.448 & MP.L01.331	9.30-11:00 Maire & Laoise 'the concept of a bioeconomy through Art based Methodologies'	9:0-13:00 Bart & Bram: 'Workshop Biomimicry' Blue City room	9.00 – 13.00 Linda Buijsman 'Food forest permaculture lecture'	10.00-15.00 Michiel & Hanneke 'UN role game World Climate Simulation'
10.00		10:00 Gather at the Stayokay	10.00 – 16:00 Hanneke 'Exploring the - sustainable- city of Delft'. Gathering at the Stayokay	Pause 11:00 -12:30 Judit workshops	11:00 100 min Island Game: Terra Nova mini-society		Room: MP.L01.448 & MP.L01.331	Room: Atrium
11.00		10:45 – 15.00 Karin, Hanneke, Janneke Walking through sustainable Rotterdam and Schiedam		12:30-13:30 Lunch	12:00 Hanneke Wrap-up Blended assignment		12:00 lunch	12:30 lunch
13.00			13:00 Lunch at the Papaver	13:30 -17.00 Judit workshops @parental participation Activating methods	13:30 Lunch	13:00 Lunch	13.00 Bus to The Hague	
14.00	15.00 – 17.00 Welcome Introductory activity Hanneke, Karin, & Janneke Crazy 88 Janneke		Assignment Biobased house Green wall by Central Station 16:00	MP.L01.448 & MP.L01.331	14:00 - 16:00 Kees Klomp 'Lecture about bioeconomy'	14:00 Blue City Excursion	14:00-15:30 Museum Exhibition: Assignment The imposing Pillars of Hope, we can bring man, material and nature back into balance.	15:00 Finalizing BIP
15.30	Room: MP.L02.326					15:30 Karin 'Circulair Economy assignment'	Omniversum 15:30-16:30 Biodiversity below water	
						Finalize/wrap up in Blue City room	17:00 Back by bus to Rotterdam	
18.00					Dinner staff		18:45 Dinner Stayokay	



What to bring?

- Clothing and toiletries
- Comfy boots and raincoat
- Pen and paper
- Water bottle (Dutch tap water is of high quality)
- Lunch: made in the Stayokay, except Friday 14 March
- Bank card or credit card
- Student card or university card

BioBeoBIP evaluation

The BioBeoBIP will be evaluated online within two weeks after finishing the BIP.

Conclusion

We hope the BioBeoBIP in Rotterdam will inspire you to teach your pupils about the importance to take good care of our World.' Be as biobased as possible and be an example as teacher'.

Kind regards,

Karin Kreijkes

Hanneke Maasland

Janneke Verloop