

Tools for implementing Boundary Crossing

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Today's Goal

- Be acquainted with boundaries and BC
- Introduce BC tools/toolbox
- Incorporating BC into your own course using the tools
- Call for tools to be added



BC@WUR – who are we



Arnold Bregt

Dean of Education WU

Karen Fortuin

Program Director BMS

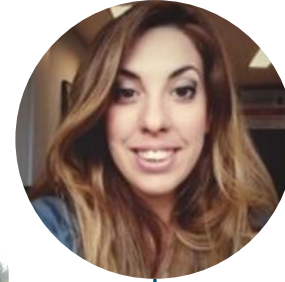


Judith Gulikers

Assistant Professor, ELS

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Education Coordinator, ELS



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Ramezzano**

Project assistant, ELS

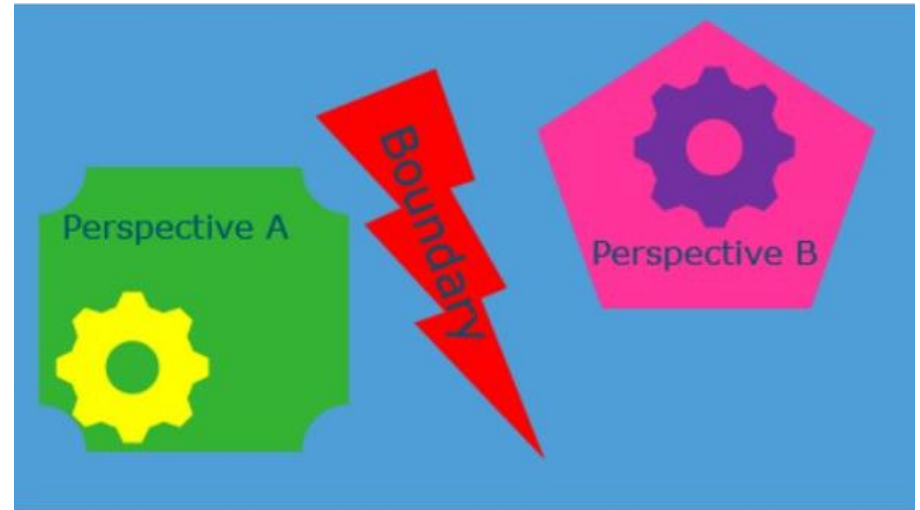
Cassandra Tho

Project assistant, ELS



Boundary=

Tension or challenge
experienced when people from
various practices meet or
interact



Boundary crossing competence

- The ability to learn and work together across practices
- “The ability to seek, recognise, appreciate and utilise tensions when different practices come together” (Fortuin et al., 2023)
- To create opportunities to co-create new ideas and practices and to grow as professional



Three boundaries and more...



Cultural



Academia-society



Disciplines

And perhaps many others that you experience in education?

BC Learning Mechanisms: What to do

■ Heavers to help learning and working across boundaries

(Akkerman & Bakker, 2011; Gulikers & Oonk, 2019; Oonk et al., 2020)



Identification	Recognising your own and others' perspectives, expertise and assumptions, underlying values and actively and openly searching for them
Coordination	Actively collaborating making use of each other's perspectives (instead of dividing the work); creating boundary objects to facilitate communication and (shared) understanding
Reflection	Perspective making and taking; Learning from each other's perspectives. Enriching your own view
Transformation	Co-creating something new (interpersonal) or growing as professional (intrapersonal)

Challenge: How to include BC in courses?

- Teachers struggled with incorporating BC into their courses
- Need for tools

Hence, BC Toolbox 😊

Boundary crossing toolbox

One of the most common request that we have received is for examples and materials on how to design and implement boundary crossing elements into courses and programmes. Do you also find it challenging to come up with boundary crossing learning activities to implement in class? Then look no further!

The BC team has collected examples of boundary crossing learning activities and materials. These are examples from fellow teachers. In the toolbox you will find examples and materials that you can use or draw inspiration from to implement BC in your own courses!

[Go to the toolbox](#)



Contact person
Boundary Crossing @WUR

[Contact](#)

Go to

- > [BC@WUR home](#)
- > [Boundary crossing explained](#)
- > [Teachers' and student's experiences](#)
- > [Get involved](#)

Boundary Crossing Toolbox

- Hosted on SURF Edusources
- Open educational materials

edu**sources** Knowledge and expertise Find educational resources Communities Share Sign in NL | EN

Boundary Crossing

Boundary crossing competence, the competence to work together with others outside one's own scientific domain, institute, culture or context

COLLECTIONS (7) ABOUT THIS COMMUNITY

Visit website [↗](#)

Collection	Items
Knowledge Clips	4 items
Boundary Crossing Learning Mechanisms	11 items
Intercultural Boundaries	3 items
University-Society Boundaries	3 items
Showcases of Boundary Crossing	1 item
Learning Materials	12 items



Navigating to the BC toolbox

(1) Via BC@WUR website

The screenshot shows the BC@WUR website homepage. At the top, there is a navigation bar with the Wageningen University & Research logo and four menu items: Education & Programmes, Research & Results, Value Creation & Cooperation, and About WUR. The main content area features a large graphic with the text "Boundary Crossing @ WUR" and a list of related terms: co-creation, perspective taking, collaboration, challenges, transformation, societal perspectives, differences, learning, perspectives, disciplinary differences, and perspective making. Below this, there is a text block defining boundary crossing competence. To the right, there is a "Contact person" box for Boundary Crossing @WUR with a "Contact" button. At the bottom, there are three sections: "What is boundary crossing?" with a video thumbnail, "BC in practice" with a text block, and "Go to" with a list of links: "BC explained", "Teachers' and student's experiences", "Toolbox", and "Get Involved". A "Get involved with BC@WUR" button is also present.

WAGENINGEN
UNIVERSITY & RESEARCH

Education & Programmes Research & Results Value Creation & Cooperation About WUR

Boundary Crossing @ WUR

Boundary crossing competence is the ability to learn and work with others outside one's own scientific domain, institute, culture, or context. It allows you to recognise, seek, appreciate and utilise tensions that arise when learning or working with "others". It is regarded as one of the major competencies needed by future university graduates to respond better to emerging global challenges.

co-creation **perspective taking**
collaboration **challenges**
transformation **societal perspectives**
differences **learning** **perspectives**
disciplinary differences **perspective making**

Contact person
Boundary Crossing @WUR
[Contact](#)

What is boundary crossing?

BC in practice

Go to

- > BC explained
- > Teachers' and student's experiences
- > Toolbox
- > Get Involved

[Get involved with BC@WUR](#)

Learning across different practices (e.g. **BC@WUR experiences**)

(2) Via Edusources communities' page

The screenshot shows the Edusources Communities page. At the top, there is a navigation bar with the Edusources logo and three menu items: Knowledge & expertise, Find educational resources, and Communities. A "Share" button is also present. The main content area features two community cards. The first card is for "AnatomyTOOL", which includes an image of a human torso with internal organs, a description of the platform, and a "View" button. The second card is for "Boundary Crossing", which includes an image of a globe with hands, a description of the competence, and a "View" button.

edusources Knowledge & expertise Find educational resources **Communities** [Share](#)

AnatomyTOOL

AnatomyTOOL is a project and an identically named platform <https://anatomytool.org> aimed at collecting, unlocking and sharing openly licensed anatomy education...

[View](#)

Boundary Crossing

Boundary crossing competence, the competence to work together with others outside one's own scientific domain, institute, culture or context

[View](#)

Boundary Crossing Toolbox

- Tools are organised into collections

The screenshot shows a website interface with two tabs: 'Collections' (active) and 'About this community'. Below the tabs is a grid of seven collection cards, each with a green header and a white footer. The cards are arranged in three rows: the first row has three cards (KC, BC, IB), the second row has three cards (UB, SO, LM), and the third row has one card (BB). The 'SO' card is highlighted with a light gray background.

Collection Code	Collection Name	Number of Materials
KC	Knowledge Clips	4 materials
BC	Boundary Crossing Learning M...	11 materials
IB	Intercultural Boundaries	3 materials
UB	University-Society Boundaries	3 materials
SO	Showcases of Boundary Crossing	1 materials
LM	Learning Materials	12 materials
BB	Building Boundary Crossing in...	6 materials

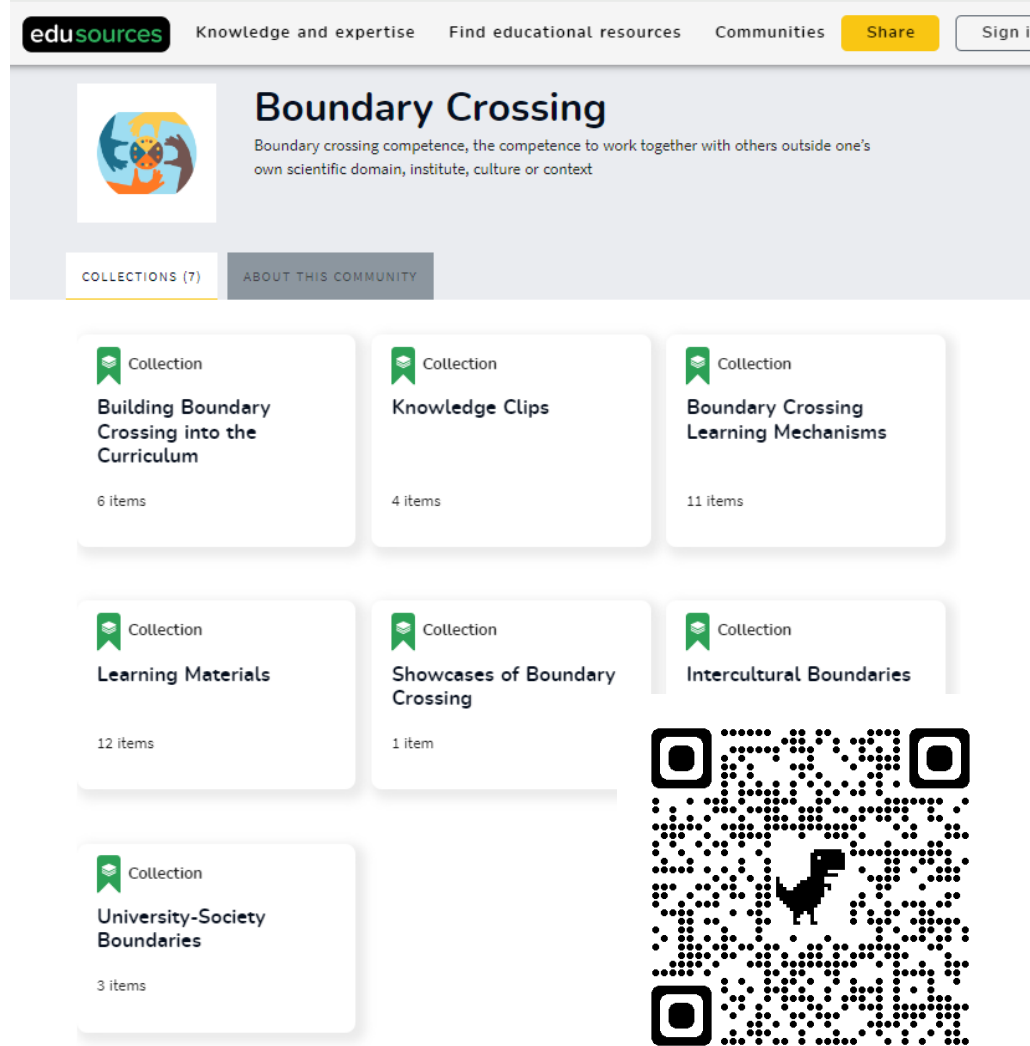
Let's look at some tools (40mins)



- Individually, take a look at the BC toolbox and the tools (10')
- In pairs/trios, pick a tool and discuss (30')
 - How you can implement the tool in your course/context
 - How the tool can be implemented in another course/context
 - Any feedback that you might have about the tool/toolbox
 - Can you think of any other tools?

Harvesting (10')

- First impressions of the toolbox
- Is there something else you might need?
- Any examples you want to share? Contact us!



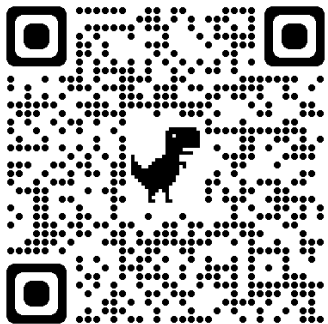
eduSources Knowledge and expertise Find educational resources Communities [Share](#) [Sign in](#)

Boundary Crossing

Boundary crossing competence, the competence to work together with others outside one's own scientific domain, institute, culture or context

[COLLECTIONS \(7\)](#) [ABOUT THIS COMMUNITY](#)

- Collection**
Building Boundary Crossing into the Curriculum
6 items
- Collection**
Knowledge Clips
4 items
- Collection**
Boundary Crossing Learning Mechanisms
11 items
- Collection**
Learning Materials
12 items
- Collection**
Showcases of Boundary Crossing
1 item
- Collection**
Intercultural Boundaries
- Collection**
University-Society Boundaries
3 items



BC Website

- BC explained
- Teachers' and students' experiences
- News items
- Events
- Sign-up for BC Newsletter

WAGENINGEN UNIVERSITY & RESEARCH

Education & Programmes Research & Results Value Creation & Cooperation

Home > Education & Programmes > Boundary Crossing @ WUR >

Boundary Crossing @ WUR

Boundary crossing competence is the ability to learn and work with others outside one's own scientific domain, institute, culture, or context. It allows you to recognise, seek, appreciate and utilise tensions that arise when learning or working with "others". It is regarded as one of the major competencies needed by future university graduates to respond better to emerging global challenges.

reflection co-creation perspective taking
collaboration challenges
transformation societal perspectives
differences learning perspectives
disciplinary differences
disciplinary perspective making

Innovation

Contact Boundary Crossing @WUR
Contact Form

What is boundary crossing?

Learning across different practices (e.g. backgrounds, disciplines, cultures etc.) can be enriching both for yourself and for the challenge you are faced with. However, can a diverse group of students from different practices be expected to automatically learn with and from one another and work across the differences that exist between them? The answer is no. Explicitly supporting and challenging students to make use of their differences in a positive way, can help to co-create new ideas as well as gain a better understanding of themselves and their own perspective. Incorporating boundary crossing in your education can help doing this.

More about BC

BC in practice

There is much learning potential when boundaries are acknowledged and crossed, but how to go about it in education? How can students be facilitated to recognise, seek, appreciate, and utilise boundaries for the better? What can we learn from existing examples and experiences in education?

BC@WUR experiences

We have put together a collection of examples and experiences of BC@WUR. Feel free to explore them to gain inspiration for your own work.

Examples & experiences

Toolbox

Do you want to incorporate BC in your education? At course or curriculum level? We have created an open and online toolbox with learning activities, assessments, examples and tools! Feel free to explore, get inspired and use or adjust the tools to fit your course!

If you have new tools to be added to the toolbox, please contact us!

BC@WUR Toolbox

Go to

- > BC explained
- > Teachers' and student's experiences
- > Toolbox
- > Get involved

Get involved with BC@WUR

Learn how

Stay up to date

Interested to stay updated on BC@WUR? Sign up to stay updated via our quarterly newsletter!

Sign up for newsletter

BC@WUR events

- > BC Ambassadors Meeting
March 5, 2024

News about BC@WUR

- Boundary Crossing & Personal Leadership Course in the new Bachelor Marine Sciences: The first round!
February 7, 2024
- BC@WUR: What's next for 2024?
February 6, 2024



What are you going to do after this session?

- ORANGE = 1 thing that you are going to implement in your work
- YELLOW = 1 question that still needs to be answered

Take a photo of it for yourself, stick the post-it on the door when you are leaving this room



For more information on BC

- *(Paper) Developing a boundary crossing learning trajectory: supporting engineering students to collaborate and co-create across disciplinary, cultural and professional practices* (Fortuin et al, 2023) <https://doi.org/10.1080/03043797.2023.2219234>
- *(Paper) Boundary Crossing and Boundary Objects* (Akkerman & Bakker, 2011) <https://doi.org/10.3102/00346543114044>
- *(Website) Boundary Crossing @ WUR: <https://www.wur.nl/en/education-programmes/boundary-crossing.htm>*
- *(Resource) BC Toolbox: <https://search.edusources.nl/en/communities/boundary-crossing/>*
- *(Resource) Boundary Crossing Knowledge Clips: <https://search.edusources.nl/en/collections/1d229307-01de-418a-ad92-c0e246070568>*

Let's start crossing boundaries today!

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