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# WP4

# TWIN ACTIVITY

## PARTNERS INVOLVED

	P1- Universidade Nova de Lisboa (UNL), PT
	P2- King's College London (KCL), UK
X	P3- Université Libre de Bruxelles (ULB), BE
	P4- Maastricht University (UM), NL
X	P5- Universidade Agostinho Neto (UAN), AO
	P6- Universidade Eduardo Mondlane (UEM), MZ
	P7- Universidade Katyavala Bwila (UKB), AO
	P8- Universidade de Lúrio (UniLurio), MZ

## TWINING ACTIVITY REPORT

### ACTIVITY DETAILS

**A training method of proven high impact in engineering is Project Based Learning (PrBL).** Getting familiar with the strength and weaknesses of PrBL as well as the methodology required for its implementation was estimated as very useful for the Universidade Agostinho Neto (UAN), as a complement to a previous training received from the Maastricht University on Problem Based Learning (PBL).

**Engineering training at the Université libre de Bruxelles (ULB) is mainly project based** as from the first year of studies on, with Péter Z. Berke actively participating in such pedagogical approaches for over a decade. Tools and methods of PrBL are developed and used on a daily basis at ULB, making it the ideal partner for presenting this training approach.

**An interactive oral presentation showing practical examples of implementation** of over 2 hours long given by Péter Z. Berke on 28<sup>th</sup> February 2020 was **followed by a discussion session as means of presenting and explaining PrBL at UAN.**





Photos of the activity in the Aula of the Faculty of Architecture

**Specific topics treated in the presentation** were: (i) explaining the relevancy of PrBL, specifically in the training of engineering students, (ii) the principles of PrBL (including the context, the ingredients required for the implementation as well as statistics showing the mainly positive impact of this methodology), (iii) examples of purely project based training in the first and second year of engineering studies, (iv) examples of training activities that incorporate PrBL but are not exclusively project based in the fourth and fifth (last) year. Additionally to encouraging interaction with the public by allowing and asking for questions during the presentation, **tailored interactive activities were also incorporated** to reflect upon the strength and weaknesses of PrBL in a general sense, as well as to discuss opportunities and bottlenecks of the implementation of this approach at various curricula of UAN (considering the attendees came from several Faculties, including Architecture, Engineering, Tourism, etc).

Completed by	Péter Z. Berke and all attendees of the presentation
Location	Faculty of Architecture of UAN
Dates	28/02/20
Objectives	Interactive oral presentation of PrBL followed by a discussion on the possible implementation of this approach at UAN

The **expected outcomes** of this activity include a first interactive reflection on the possible implementation of project based training activities on different scales, i.e. on the scale of a single course transformed to PrBL, on the scale of larger joint efforts between professors. As **important by-product** of the discussion following the presentation also led to the identification of enhancing industry-university collaboration as possible means for (i) creating authentic project scenarios relevant to the industries for which students will work after graduating and (ii) potential financial and training support of industrial partners. This kind of university-industry joint effort is already a common practice at ULB.

Although no poll was filled by the attendees to objectively assess the **quality of the performed activity** based on predetermined criteria, considering the intensity of the interaction with the public during and after the presentation and that the activity therefore ended almost 2 hours later than initially planned, it is safe to say that not only was it appreciated and stirred attendees up, but it potentially could lead to further specific activities at UAN on the topic.

## AGENDA

The following activities were completed as part of the activity:

Date	Time	Activity	Participants
FRI 28/02/20	9:00 to 13:30	<i>At the aula of the Faculty of Architecture of UAN</i> Interactive presentation of PrBL in engineering at ULB Discussion on the opportunities and bottlenecks of the implementation of PrBL at UAN Walking lunch and networking	Péter Berke (ULB) All participants (UAN)
SUN 08/03/20		Reporting activity	Péter Berke (ULB)

## GENERAL OBSERVATIONS

The **public attending** the activity was **highly motivated** and the **interaction** with them was **easy and dynamic**.

The **discussion session about the potential implementation** of PrBL at UAN was much longer than expected and covering questions broader than only this pedagogical method, including training practice and student employability in a general sense.

On demand of the attendees not only the **material used during this activity** (slides, videos), but also the **material intended for the subsequent workshop at UKB** supervised by Péter Z. Berke (that took place from 02/03/20 to 06/03/20) **were shared**.

## SPECIFIC ISSUES & ACTIONS

**ISSUES AND PROBLEMS:** one main issue was identified, the late dissemination of the final details of the activity to potentially interested UAN participants (the venue as well as the date were changed). This led to several attendees arriving late.

**PROPOSED FUTURE SOLUTION:** the dissemination will be single-go not needing subsequent corrections of the timing and venue (with regular weekly reminders), at least one month prior to the activity.

Issue identified	Actions to be taken
Not optimal dissemination of the activity to potentially interested UAN attendees.	Fixed venue and date disseminated at least one month prior to the activity by UAN.



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**IDENTIFIED OPPORTUNITIES FOR THE FUTURE:** a clear interest in getting a practical training in Application for Project Funding (APF), the topic of the workshop given by Péter Berke at UKB, was expressed unanimously by the UAN attendees. Although the current framework project does not allow for this workshop to be repeated at UAN (the UDI-A project ends in April 2020), it is an identified future opportunity to get this training for UAN within a different future project. It is worth emphasizing that the slides and working documents of this workshop have been copied to a UAN computer so as to be shared UAN wide, which is believed to be a very useful step.

## DATE & SIGNATURE

09/03/2020



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Prof. Péter Z. Berke on behalf of ULB



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Prof. Any Samacuva Ulundo Sesoko on behalf of UAN

**University Development and Innovation - AFRICA is a Project coordinated by NOVA, which intends to promote the capacitation of four African Universities: two from Angola, Universidade Agostinho Neto (Luanda) and Universidade Katyavala Bwila (Benguela), and two from Mozambique, Universidade Eduardo Mondlane (Maputo) and Universidade Lúrio (Nampula).**

**It aims to empower these Higher Education institutions to play an effective impacting role in fostering sustainable and inclusive development in their region and country. The Project has officially started in November 2017 and will finish in April 2020.**

**Other European partner universities in this project are: Maastricht University, King's College London, Université libre de Bruxelles (ULB).**

