



UNIVERSITÀ  
DEGLI STUDI  
DI PADOVA

**BA** Dipartimento di  
Biomedicina Comparata  
e Alimentazione

**Innovation  
in Teaching**

**a new way  
of learning**

**SAI** Supporting and Assessing Innovation

*Degree Programs Involved: Animal Care – Biotechnology for Food Science – Food Safety and Security*

## Problem-Based Learning



Students learn by solving real-world problems, developing teamwork and critical thinking, with the teacher acting as a guide in the process

innovative  
teaching

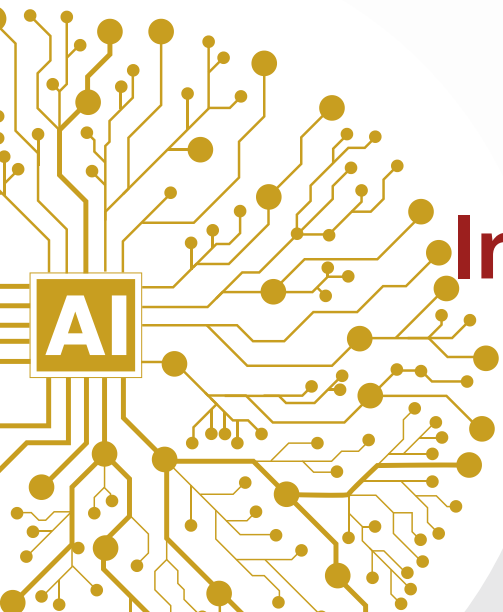
A central graphic featuring the words "innovative teaching" inside a speech bubble, which is itself inside a larger circle. A thick arrow points from this central graphic towards the right.

## Team-Based Learning



Methodology where teamwork drives learning to solve real problems, fostering collaboration and responsibility

## Artificial Intelligence

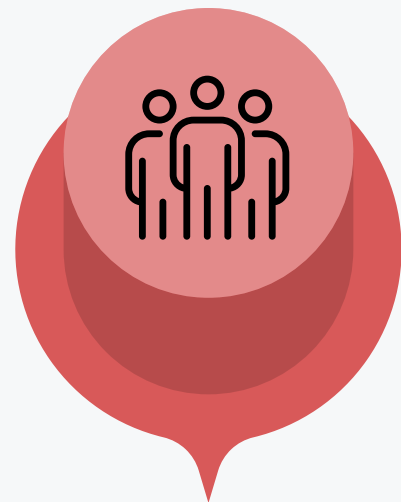


Teacher training and the Lucrezia app, an AI tutor to support international students and those from diverse backgrounds

# What happens in the classroom

a roadmap to understand the flow of a day with PBL or TBL

## Step 1 Students are divided into small groups



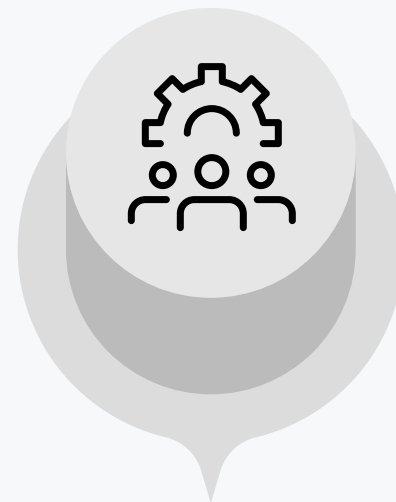
PBL and TBL teaching is based on small, engaged, and participating work groups

## Step 2 The professor "facilitates"



The professor plans the activities and assumes the role of guide and learning facilitator, encouraging the development of students' skills and competencies

## Step 3 Students work



Students are assigned material—a problem to be analyzed in groups, collaborating with their peers. The work will involve analysis, individual study, practical activities, and plenary sessions

## Step 4 Professors and students engage in discussion



Interaction with the professor and the group activates analytical and synthesis skills, leading to the development of competencies to be applied in professional contexts

## Outcome

Students learn a versatile method applicable to other disciplines, improving teamwork, critical thinking, peer collaboration, and practical knowledge in preparation for the professional world

# What are the benefits for students?

## Soft skills

- Teamwork
- Critical thinking
- Problem solving
- Group management
- Self-directed learning



## Applied skills and practicality

Opportunity to conduct team-based analysis of real-world professional situations



## Better results

Facilitation in studying and increased academic performance and career progression speed.



## Job market

Practical preparation for the challenges of the professional world on multiple levels

# What are the benefits for professors?

## Multi - and interdisciplinary approaches

Multidisciplinary exchange / replicability of the method in other courses



## Guide

Becoming a guiding figure for students and developing a relationship of trust



## Improvements

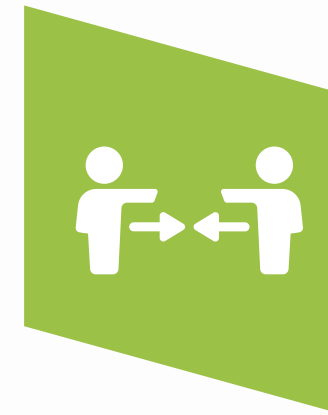
Increased teaching effectiveness and job satisfaction



# Challenges in the process

## Specific challenges

Identify the specific challenges of each degree program and determine the most effective teaching methods to overcome them



## Bias

Overcome bias and the well-established teaching and learning methods ingrained in the experience of both professors and students

## Continuity

Successfully coordinating the various activities efficiently throughout the entire degree program

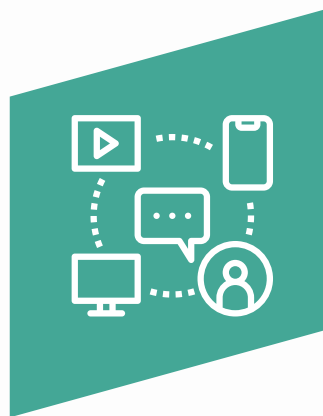


## Motivation

Motivate students to move beyond the role of passive recipients and become active contributors to the learning process

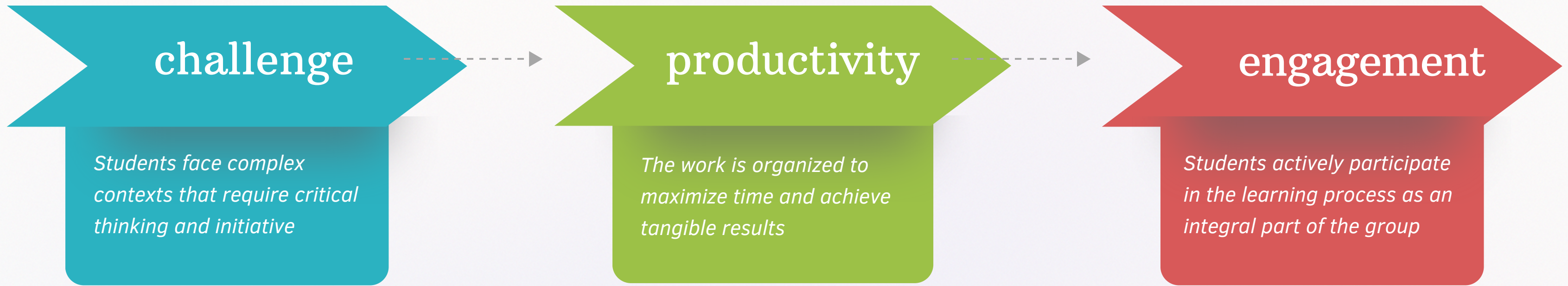
## Inter - and multidisciplinary approaches

Transform teaching delivered through independent disciplines and courses into an inter- and multidisciplinary approach

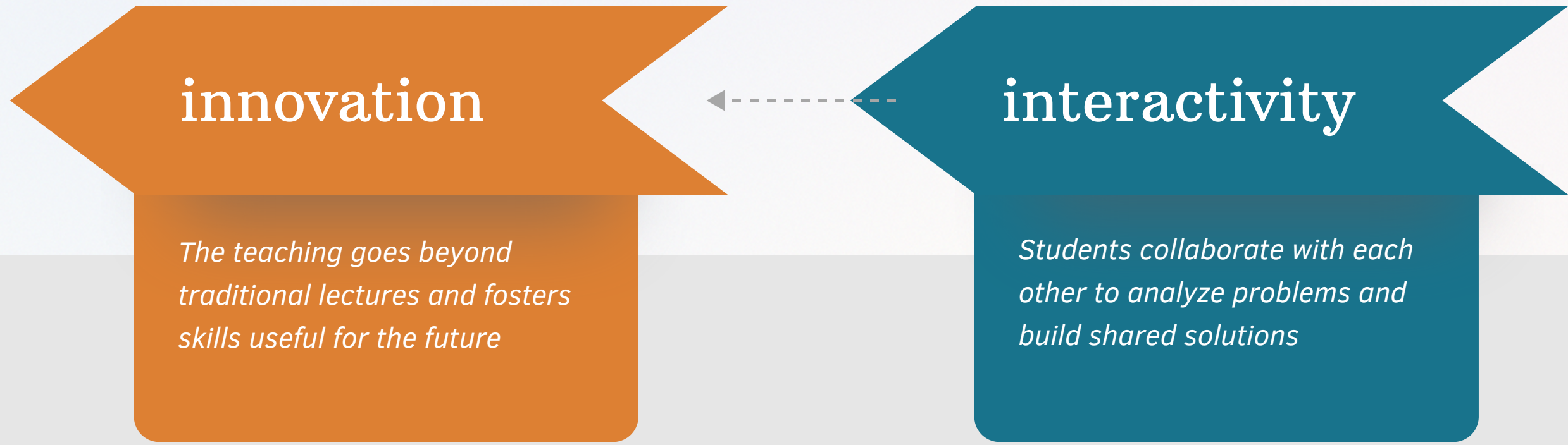


## Practicality

Connect and anchor the teaching process to real professional contexts



## 5 WORDS FOR BCA TEACHING



# IDEAS GROW TOGETHER



SMILLA CAVATONI – Alumna BCA

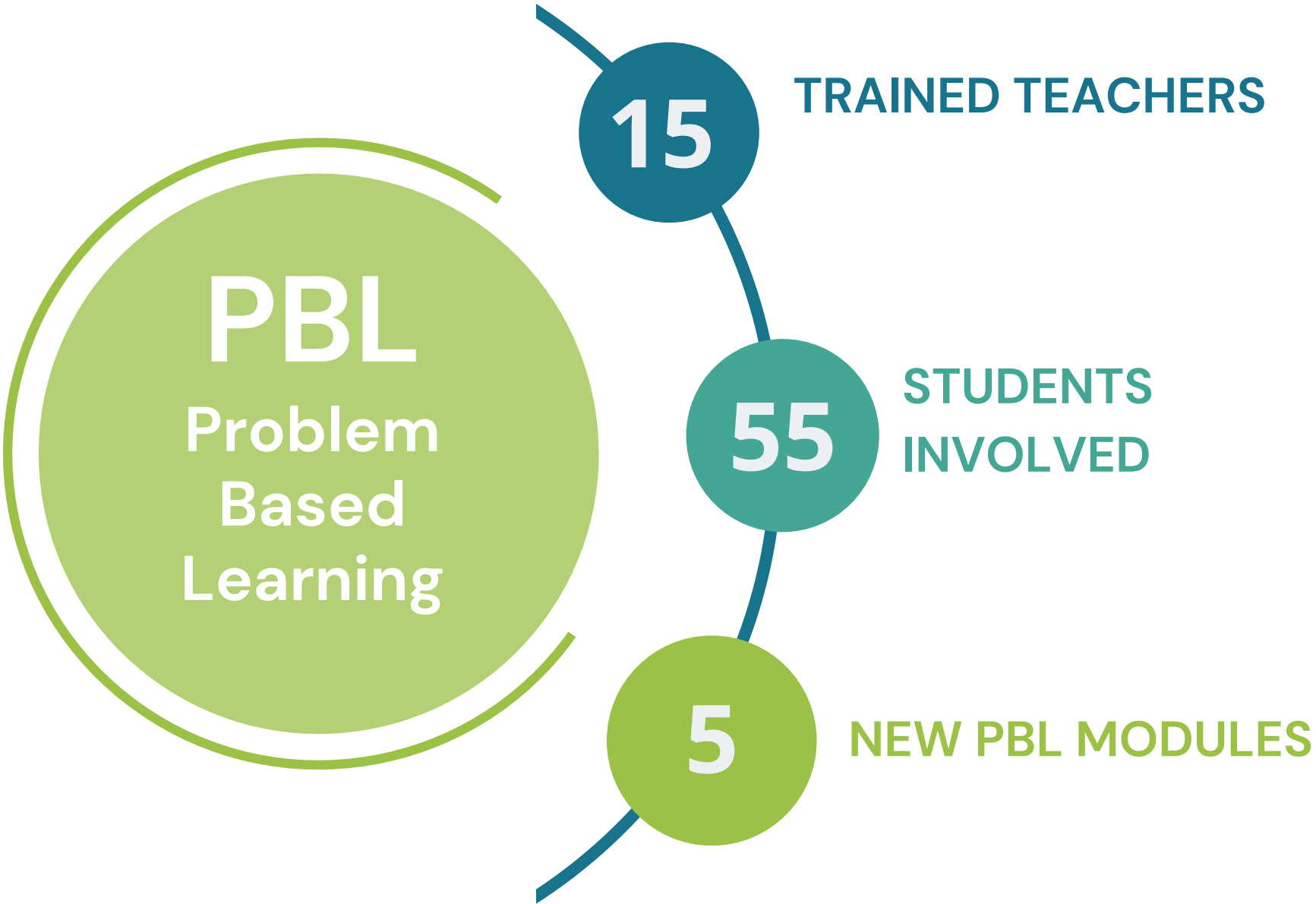
*“Compared to traditional lectures, here **solutions are built together**. One person’s thinking stimulates another’s: this is how true understanding happens.”*

VIRGINIA BERGAMI – Alumna BCA

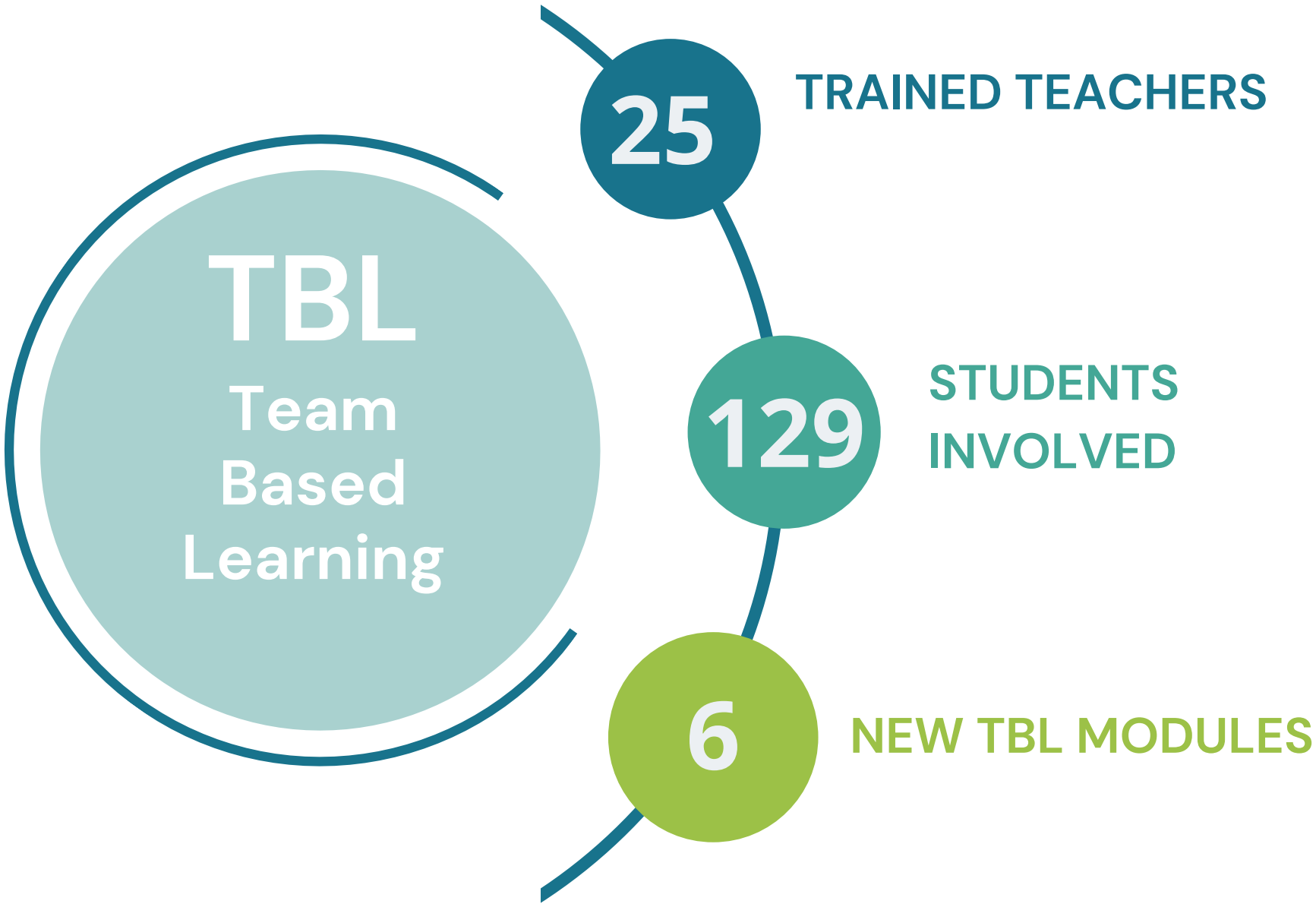
*“We develop soft skills and decision-making abilities. It’s not just about learning, but about **training to find solutions** in real-world contexts.”*



# 2025: FACTS AND FIGURES



Degree Programs involved:  
• Animal Care



Degree Programs involved:  
• Food Safety and Security  
• Biotechnologies for Food Science

# HOW THE LEARNING EXPERIENCE CHANGES

THE DATA COMPARE THE PERCEPTIONS  
OF STUDENTS BEFORE AND AFTER  
EXPERIENCING INNOVATIVE TEACHING  
METHODOLOGIES

+17%

## STUDY METHOD

I was systematic  
and organized in my  
study  
(31% / 48%)

+17%

## INTER DISCIPLINARITY

I connect what I  
learn in different  
courses  
(77% / 94%)

+12%

## FOCUS

I can see the  
relevance of what  
we are taught  
(80% / 92%)

+7%

## COOPERATION

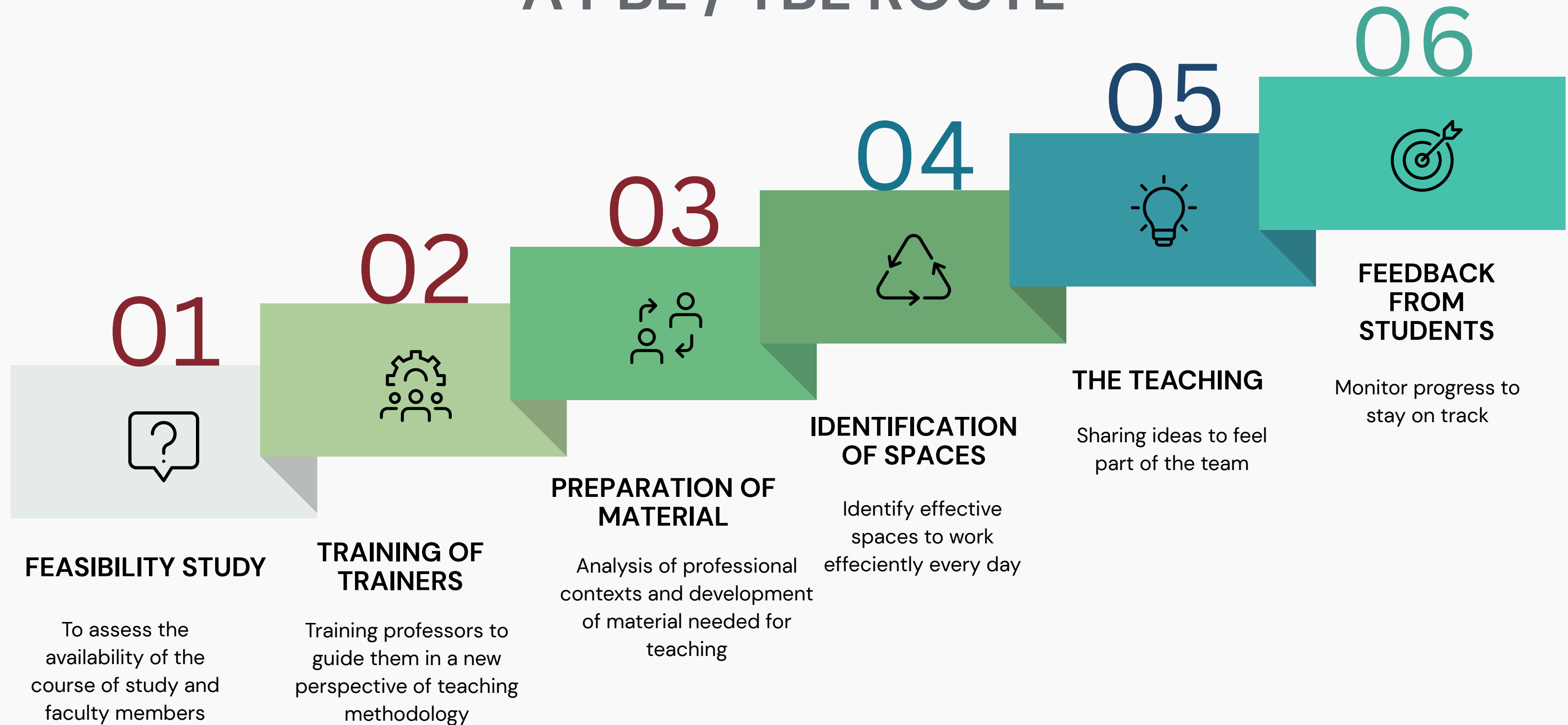
Students support  
each other and try  
to help each other  
when necessary  
(71% / 78%)

+15%

## INTEREST

I find most of what I  
learned in the  
courses interesting  
(75% / 90%)

# THE STEPS TO BUILD A PBL / TBL ROUTE





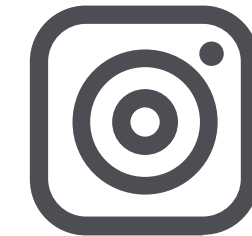
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