



# NEWSLETTER

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## Challenge Based Learning (CBL) in ASSISTANT

Challenge-Based Learning (CBL) is an educational approach that addresses real-world problems through collaboration and active learning. CBL encourages students to engage with real-world issues, which fosters a sense of purpose and relevance in their learning. When students see how their education applies to solving real problems, their motivation increases. By working on open-ended challenges, students are required to think critically, analyze situations, and develop innovative solutions. This prepares them for the complexities they will encounter in their careers and personal lives. CBL emphasizes teamwork, where students collaborate to address challenges, share ideas, and communicate effectively. These skills are crucial in today's workplace, where collaboration across disciplines is often necessary to solve problems.

### CHALLENGES

**Challenge**  
Big data:  
analysis and now  
casting of urban  
air pollution

**Challenge**  
Environmentally  
friendly  
agriculture

**Challenge**  
Agriculture  
Robotics for  
Plant Care

**Challenge**  
Digital Education:  
Enhancing Learning  
with Telepresence  
Robots

**Challenge**  
Artificial Intelligence:  
Predict SDG  
indicators from  
publicly available  
data

Traditional learning often relies on theoretical concepts, while CBL directly ties learning to real-world problems. This connection helps students see the practical application of their knowledge, making learning more meaningful. CBL encourages curiosity, self-directed learning, and adaptability. By confronting new and diverse challenges, students learn how to learn, fostering skills that will serve them throughout their lives. CBL leverages technology to access information, collaborate across distances, and present solutions. This prepares students for a technology-driven world, where digital literacy is essential. Many CBL projects involve challenges related to sustainability, ethics, and social justice. This helps students develop a sense of responsibility and awareness of global issues, preparing them to become socially conscious citizens.

CBL promotes creative thinking and innovation, as students are often tasked with coming up with original solutions to problems. This can drive a mindset of continuous improvement and curiosity.

Overall, CBL fosters an environment where students learn to connect theoretical knowledge to practical problems, equipping them with the skills they need to thrive in a dynamic and interconnected world.



*Looking to the sustainability ASSISTANT project is strongly connected with business organizations providing challenges for students.*

*Chat bots integration into education in ASSISTANT project brings added value to learners who need an assistance in real time. In the past few decades, technology has completely transformed the world around us. Indeed, experts believe that the next big digital transformation in how we live, communicate, work, trade and learn will be driven by Artificial Intelligence.*

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**PROJECT  
COORDINATOR**



**PROJECT PARTNERS**



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