

# The European AI-Based Personal Language Learning Assistant

A groundbreaking Erasmus+ project transforming second language education through AI-powered personalized learning across Denmark, Belgium, Slovakia, and the Czech Republic.



# The Challenge We Face

## Growing Barriers to Language Learning

Adult learners—especially migrants and refugees—struggle with limited access to personalized instruction. Class sizes are increasing, course hours are shrinking, and many learners juggle full-time jobs while trying to master a new language.

Research shows individualized tutoring yields learning gains equivalent to 3-15 months of schooling, yet high costs make it inaccessible to those who need it most.

## The AI Opportunity

Existing AI tools primarily serve widely spoken languages and lack pedagogical alignment with structured education. Our project addresses this gap by developing a free, unbiased AI tutor tailored to smaller linguistic communities.

With 70% of learners using digital tools daily and 75% expressing interest in AI tutoring, the demand is clear.

# Our Vision: AI That Empowers, Not Replaces



## Personalized Learning

Real-time pronunciation training, grammar feedback, and adaptive lessons tailored to individual progress and needs.



## Linguistic Inclusion

Supporting underrepresented languages—Danish, Dutch, Slovak, Czech—ensuring smaller communities aren't left behind.



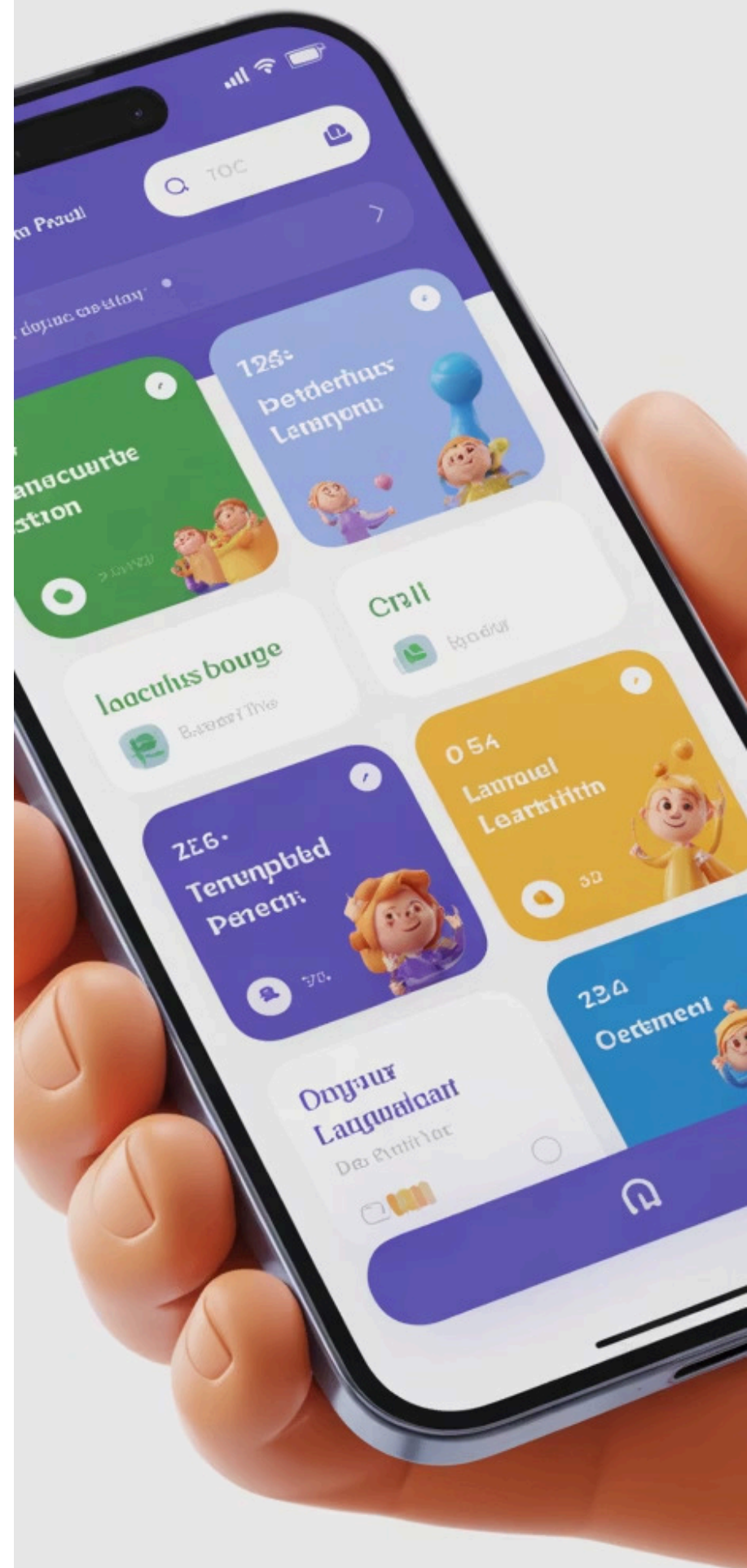
## Teacher Enhancement

AI complements human instruction, providing educators with tools to track progress and deliver differentiated support.



## Accessible & Free

Mobile-friendly, intuitive design ensures accessibility for learners with limited digital literacy and unstable living conditions.



# A Powerful Partnership



## VSKdansk (Denmark)

Project coordinator with 25+ years expertise, serving 6,000+ learners across 11 municipalities. Leads project management and needs analysis.



## DTU Engineering Technology

Leading AI development with expertise in NLP, speech recognition, and adaptive learning systems. Ensures technical excellence.



## Catholic Education Flanders

Belgium's largest educational network, leading educator training through Train-the-Trainer workshops reaching 2,200+ schools.



## Vages-grow (Slovakia)

Specializing in refugee support, providing Slovak language courses to 400+ Ukrainian refugees and conducting comprehensive needs analysis.



## Kurzy Zebra (Czechia)

Expert in small-group instruction and digital learning, managing dissemination and ensuring long-term sustainability across networks.



# Project Journey: 36 Months of Innovation

1

## Months 1-8: Understanding Needs

Comprehensive surveys and focus groups with 500+ learners and 100+ educators identify linguistic challenges, digital readiness, and AI requirements.

2

## Months 8-26: Building the AI

DTU develops NLP models, speech recognition, and adaptive learning algorithms. Iterative testing ensures pedagogical alignment and user-friendliness.

3

## Months 27-30: Training Educators

Four-day Train-the-Trainer workshop in Belgium equips 20 master trainers who cascade knowledge to 100+ educators across partner countries.

4

## Months 30-36: Scaling Impact

National multiplier events, best practice handbook, and sustained website ensure long-term accessibility and adoption across Europe.

## Project Timeline

For Milestone



# Budget Allocation: €400,000



■ AI Development   ■ Management   ■ Dissemination   ■ Teacher Training   ■ Needs Analysis

Strategic investment prioritizes technical development (43%) while ensuring robust training (11%), comprehensive dissemination (18%), and rigorous needs assessment (8%). Project management (20%) guarantees quality oversight across all activities.

# Expected Impact: Transforming Language Education

**500+**

## Learners Engaged

Direct participation in surveys, focus groups, and pilot testing across four countries.

**120+**

## Educators Trained

Master trainers and workshop participants equipped with AI teaching competencies.

**24/7**

## Learning Access

Free, mobile-friendly AI tutor providing personalized support anytime, anywhere.

**4**

## Languages Supported

Danish, Dutch, Slovak, and Czech—addressing underrepresented linguistic communities.

## Long-Term Benefits

- Enhanced learner progress through adaptive, personalized feedback
- Improved teacher efficiency with AI-powered analytics and differentiated instruction
- Increased digital literacy among educators and learners
- Sustainable integration into institutional teaching frameworks
- Scalable model for AI adoption in adult education across Europe







# Innovation at the Core



## Pedagogical Innovation

AI employs Socratic questioning and explicit feedback, developing critical thinking alongside language skills—not just automating exercises.



## Co-Creation Approach

Direct educator involvement through structured needs analysis, iterative testing, and collaborative refinement ensures real-world relevance.



## Sustainable Design

Train-the-Trainer model creates multiplier effect, while open-access resources ensure continued impact beyond project duration.



**Addressing the Gap:** While existing AI tools serve major languages, our project pioneers AI development for smaller linguistic communities, ensuring linguistic diversity and cultural inclusion in digital education transformation.



# Alignment with EU Priorities

1

## Digital Transformation

Strengthens digital readiness through AI-enhanced learning and comprehensive teacher training, directly supporting the Digital Education Action Plan (2021-2027).

2

## Flexible Adult Learning

Provides high-quality, accessible education for migrants, refugees, and adults with limited formal education through self-paced, adaptive pathways.

3

## Educator Competence

Builds AI literacy and digital pedagogy skills through structured Train-the-Trainer program, ensuring sustainable capacity building.

## European Values

The project embodies EU commitment to **multilingualism**, **inclusion**, and **equal opportunities**. By supporting smaller linguistic communities and prioritizing accessibility, we reinforce Europe's "unity in diversity" while advancing digital education goals.

## Compliance & Ethics

Full alignment with the European AI Act, particularly Article 4 on AI literacy. Training ensures responsible AI use, ethical implementation, and informed decision-making among educators and learners.

Join Us in Shaping the Future

# AI-Powered Language Learning For Everyone, Everywhere

**Project Duration**

October 2025 –  
September 2028

36 months of  
collaborative  
innovation

**Total Investment**

€400,000 Erasmus+  
funding

Strategic resource  
allocation

**Contact**

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"This project is our chance to develop something truly useful and share what we learn with colleagues across Europe. We believe AI can be a game-changer, not replacing teachers but empowering both educators and students."

