

## **This project was funded by:**



**Erasmus +- Partnerships for Cooperation in Adult Education**

## **Project title: Potential of AI-supported learning platforms for people with low learning competences in adult education**



**We want to encourage people to take an important step in the application of digital education!**

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### **Presentation of the project management organisation "Europahaus Land Brandenburg e.V.**

Europahaus Land Brandenburg is an educational institution specialising in further education for people with low learning competences.

We have had good experiences with adaptive learning via an AI-supported learning platform, which makes it possible to teach even difficult topics in a simple and understandable way.

Whether for the next job, further education or simply for your own self-confidence - learning never stops!

### **How does adaptive learning work?**

Adaptive learning is a technology that adapts to your needs and requirements - it primarily describes personalised learning.

Adaptive learning creates a new, motivating form of knowledge transfer with integrated learning success assurance and learning success monitoring. Support and individual coaching replace classical frontal teaching. Learning becomes more attractive, more individual and more effective.

## **What are typical functions of a learning platform?**

In today's fast-paced world, adaptive learning platforms are a must for universities, schools and education companies that want to enable their learners to continuously grow in knowledge. By adapting to individual prerequisites and learning needs, they ensure that time and resources are not wasted. Adaptive learning platforms enable people with limited learning skills to learn and grow at their learning level. This type of learning platform adapts to the needs of each individual learner to ensure they get the most out of their education.

## **Overview of adaptive learning platforms (selection)**

The Learning Management System is intended to facilitate the organisation and administration of continuing education measures and to make the design of learning content as simple and clear as possible for learners.

The following criteria should be taken into account when deciding on a fee-based LMS:

- Pricing
- Implementation
- Language
- Hosting & Security
- Customer service

Company size and user interface are crucial when choosing a platform. Ultimately, the software must be easy and intuitive for your learners to use.

We have already mentioned some of the advantages of learning platforms. The provision, organisation and evaluation of learning content are enormously simplified by a platform. In addition, it offers numerous other advantages.

## **Advantages and disadvantages of AI-supported, adaptive forms of learning**

Adaptive learning is based on the collection and analysis of data left by users. This data provides the artificial intelligence with the information it needs, enabling it to suggest the pedagogical methods and types of content that meet the needs of the individual learner.

This learning method is perfect for individualising a training programme for people with limited learning skills.

Adaptive learning is important because it enables learners to maintain the level of knowledge they have acquired even after they have completed the course. This allows them to continue learning in an easier way and reach a higher level of competence.

AI is the future of learning - by guiding learning remotely, great progress can be made.

## **Ready for change? - The future of education through adaptive learning**

Adaptive learning methods are the future of education, also and especially for learners with low learning competences. Adapting this type of learning will ensure that this particular target group will absorb and retain more of what they learn and allow them to focus on their strengths and interests.

The traditional way of teaching, where the teacher/trainer stands in front of a group and passes on knowledge to the learners in a one-dimensional way, is no longer up to date.

Instead, teaching methodology must adapt to the new possibilities of artificial intelligence.

The combination of different applications such as adaptive learning platforms combined with an adapted methodology and evaluation enables a fundamental change of the learning experience up to the learning success control, both for learning impaired people and for teachers.

Adaptive learning and digital tools are the future of education. Learners and teachers will benefit from the possibility of customising courses and modules to the preferences and needs of the target group.

### **Learning & Development for a Changing World- Summary**

AI-powered adaptive platforms for learning and skill development must address an urgent need in today's world: the technological training of learners to increase the efficiency and effectiveness of people with learning disabilities to keep pace with a rapidly changing world.

To make the most of the partnership between people and machines, higher skills are now required of all employees. Adaptive learning is the future - it is time to adapt this training method to the needs of the learners.

Adaptive learning is a great way to provide a variety of content, especially for people with learning disabilities. However, it is important that the content is engaging and motivates learners to progress.

The results of studies show that adaptive learning methods can increase learning success many times over. This method adapts to the needs of the individual and thus ensures optimal support.

The future of education lies in AI-powered adaptive learning systems - and the promise is great. This advanced technology will enable educational institutions to achieve success for more people and provide access to education for people with limited learning skills.

### **Scaling impact and sustainably improving learning with adaptive learning.**

Compared to traditional learning methods, traditional online or face-to-face training, adaptive learning halves the training time and produces a higher level of competence in a shorter time.

For people with limited learning skills, the method generates sustainable competence through AI-supported learning, combined with constant repetition and refreshment. Many people do not know how much they could actually do - unconscious incompetence is a common problem that prevents many people from reaching their full potential.

The methodology considered in the project is designed to identify and address unconscious incompetence so that you can realise your full potential.

## **Adaptive learning with AI, for example Area9 - an advanced digital learning platform ?**

Adaptive learning with AI provides tools & services to make learning more effective and motivating for these people too. Learners see immediate results tailored to their individual needs.

By combining different factors such as self-assessment, learning work and interaction with the system, the learning platform offers learners the best possible support at all times. The intuitive user interface is barrier-free and adjusts to the individual learning level so that intensive learning is possible.

Over- or under-challenging does not occur and thus the use has a positive effect on the user's motivation to learn.

The developers work with learners of all ages and organisations of all kinds to deliver measurable results, constantly expand the platform and develop better content.

With the software "Rhapsode" from Area9 we were able to test an intuitive learning platform. The access is intuitive, the predefined learning contents are simply explained and the learning success control is perceived unconsciously by the learner, which is perceived very positively by people with learning problems.

### **Practical applications of a selected adaptive AI-supported learning platform**

All practical applications realised in the project are available in the handout and online.

The primary intention of these different offerings was to test whether AI learning software can improve learning outcomes for people with learning difficulties of various kinds.

The software offers a decisive advantage for cognitive learning. It enables the teaching, consolidation and review of competences at a much higher level than was previously the case.

When learning in connection with numbers, facts, contexts, structures, procedures, causes and effects as well as processes, this learning platform is of an extraordinary quality and of high benefit for all learners, especially in the target group of people with learning disabilities.

For learning content that depends on empathy, feelings, self-perception and perception of others, emotions, the platform is less suitable. Here, interaction with real people is still preferable to using learning software.

All practitioners recommended the use of the Area9 Rhapsode learning platform under certain conditions.

### **Conclusion- When should you choose AI-powered adaptive learning platforms?**

- When results have consequences.
- When time is of the essence in learning.
- When the target group is heterogeneous.
- When turnover in learning is high.

- When learning content needs to be repeated over time.
- When information and learning content change in a timely manner.
- If you want evidence of learning success.

The handout, resulting from the project, is meant to convey to the interested parties what a learning platform is and what advantages it offers in training learners with low learning competences, what different types of platforms there are and how you can find the right one for your companies/educational institutions.

**The following tips should be considered when choosing an adaptive learning platform:**

- ❖ The existing trends in e-learning such as micro-learning, blended learning, adaptive learning and video learning will continue. However, they will continue to develop in the form of new tools and learning methods and thus promise even better learning success. This is because learning can be adapted even better to the individual daily routine of the learners, both in terms of content and organisation.
- ❖ Everyone can determine the place of learning, the learning time and the learning system themselves - a freedom that learners, employees, students and customers will no longer want to do without.
- ❖ Only invest your money in solutions that you have thoroughly tested and already proven to be effective. This way you ensure that you cover all the needs of your (educational) enterprise.

**Conclusions from the project work:**

- ❖ Modern learning platforms are essential for the education of people with low learning skills.
- ❖ It is important for teachers not only to provide learners with the necessary knowledge, but also to give them orientation and freedom.
- ❖ At the same time, it is important to enable the harmony of personal development and learning success.
- ❖ Adaptive learning platforms ensure a tidy and attractive learning landscape.
- ❖ A learning platform offers both teachers and learners the opportunity to access training materials - no matter where you are or how much time you have.
- ❖ Features such as video conferencing and social networking as part of an adaptive learning platform can make learning more interactive and engaging.
- ❖ The vast majority of learning platforms allow courses to be created and delivered online without having to worry about the technical aspects of setting up a website or hosting.

Adaptive learning is a proven, effective method used successfully by millions of learners in almost every field.

Although adaptive learning is not the cure for all challenges, it is a highly effective, efficient and complementary solution and a way to use e-learning for the target group of learners with low learning competences.

Learning platforms are a great option for professional development or internal training. Take a look at the list of e-learning platforms to get an idea of possibilities. Further market analyses and comparisons would exceed the scope of services from the project.

When looking for the best learning platform, you should consider several factors. Ease of use, mobile accessibility, cost and technical support are important points that can influence your decision. Each type of learning platform has its own advantages, so choose the one that best suits your needs.

It is time for adaptive learning, one of the truly transformative approaches to cross-target education. This publication is designed to give you an insight into the possibilities and opportunities of adaptive learning and to encourage you to explore this topic.

For inspiration, assistance and questions, please use this handout.

The project management organisation "Europahaus Land Brandenburg e.V." is also available to you at any time.