



Welcome to the AR4STE(A)M INFO EVPENT

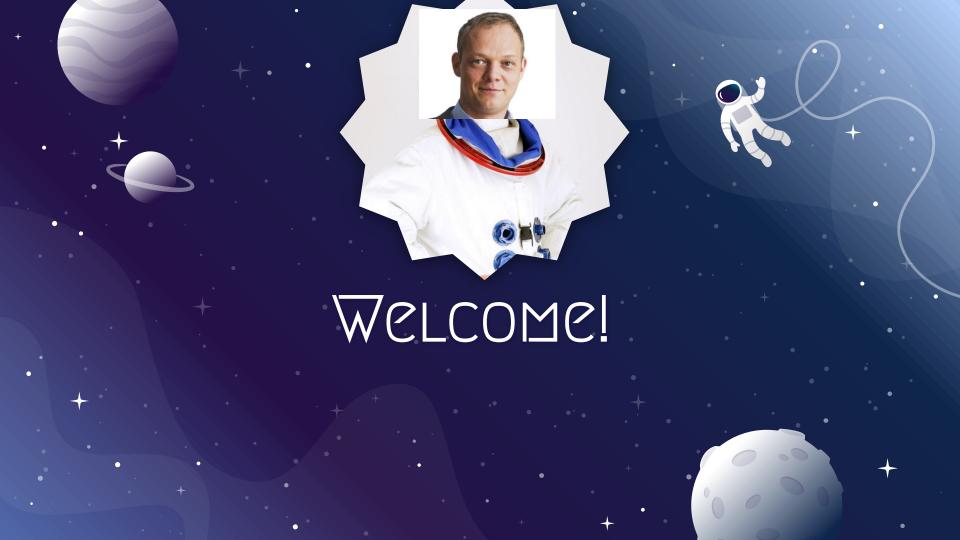




This project has been funded with support from the European Commission. This publication reflects the views only of the author, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Project number: 2019-1-DE03-KA201-059708









- * Is an Institute for research and information in education that delivers empirical educational research, digital infrastructure and targeted knowledge transfer.
- * Founded in 1951 in Germany

DIPF

- * Department of Educational Technologies
 Head of Unit: Prof. Dr. Hendrik Drachsler
- Project Lead and Scientific Research Partner
- * Focus: learning analytics, i.e. predictions and interventions for personalized learning
- * Al and AR tool development and testing



- ★ Effebi Association is a non-profit association founded in Italy 1978
- has been a reference point for people involved in the management and development of HR and organizational models mainly for the banking & financial sector.
- Multiplication Expert & very experienced with EU projects



ITT MARCO POLO

- ITT Marco Polo is a public upper secondary school based in Florence which addresses a technical education for tourism.
- * the school has invested in the adoption of new technologies and related pedagogical approaches.
- * Pedagogic Implementation Partner



HEARTHANDS SOLUTIONS (HESO)

- * Hearthands Solutions (HESO) is a dynamic consultancy from Cyprus responsible for dissemination activities in AR4STE(A)M.
- * HESO's service provision ranges from business development and public funding acquisition to custom implementation.



- * AEDE was founded by a group of teachers from Germany, Belgium, France and Italy in 1956 at a congress held in Paris and was attended by teachers from all over Europe.
- * Nowadays AEDE is a network of more than 10,000 teachers, heads, inspectors and officials in 21 national sections, from nursery school to university level.
- * Pedagogic Implementation Partner



AGORA NICKÉC

- ★ The Niekée school consists of two different learning concepts. Niekée VMBO and Agora.
- * At Niekée work is very practice oriented, at Agora (secondary education) you start working on your talents and interests from day one. Together with your coach you come up with personal challenges that match this.
- * Technical and Pedagogic Implementation Partner



SATON SAMANDIRA

- ★ Technical and vocational school in İstanbul.
- * The school provides vocational education in the fields of electronics and electricity, car mechanics, information tech., cooling and heating systems, logistic and transportation.
- * Technical Development and Implementation Partner





WHY ΔΒ4SΤΕΔΜ?

Our Project's Goals:

- ★ Grants school teachers innovative instruments and tools to overcome the traditional method of teaching and learning and to engage students to learn while enjoying.
- ★ Bridges a gap between technological advancement and efficient pedagogical methodologies.
- * Raises awareness on the importance of choosing STE(A)M studies for pursuing successful careers, and targets especially secondary school students and teachers.
- ★ Supports educational facilities in integrating immersive technologies and
- Game Based Learning for teaching STE(A)M within their curricula.



How?

Our Project's Outcomes:

- ★ Compendium of Gamification Strategies based on AR Technology for STE(A)M Learning — a collection of best practice and application examples
- ★ Online Teacher Training Program tailor-made MOOC & network building course based on inquiries regarding specific needs of teachers from partners' countries
- ★ Innovative STE(A)M Laboratories active collaboration of teachers & students, production of videos highlighting challenges & benefits.



- * Find AR explanations of terminology, but also tips, suggestions and practical examples of AR Apps suitable for STE(A)M education, supposed to inspire teachers and students
- ★ Best practice including scientifically strategies to reflect professional development with the purpose of improving curriculum and instruction with AR and gamification
- ★ Quick Access: An executive summary of the Compendium offers a shortened version of the above-mentioned publication and therefore a quicker access to the subjects of interest for teachers.



ONLINE TEACHER TRAINING

- ★ The program is based on inquiries regarding specific needs of teachers from partner countries, consulted on their knowledge
 and possible experience in using AR applications in their teaching process.
- ★ These needs are reflected in Identification of training needs and challenges for teachers in STE (A) M classes and the baseline for the development of our OTTP
- * A series of videos presents through animations the most relevant issues identified by teachers during this study and gave us an idea how to develop the course...











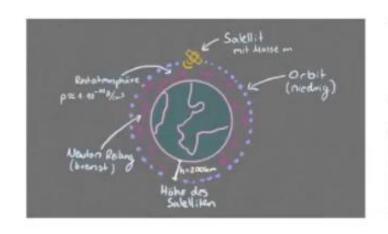








Bahnbewegung eines Satelliten



Gravitationsgesetz
$$\vec{F}_{6rqv}(\vec{\tau}) = G \frac{m_1 m_2}{r^2} \hat{e}_r$$

$$F_6 = F_p$$
 Bedriging for Bahnbewaging
 $\Rightarrow 6 \frac{M_E m}{r^2} = m \cdot \frac{v_o^2}{r^2}$
 $\Rightarrow v_o = \sqrt{\frac{6 \cdot M_E}{r^2}} \qquad v = R_{EHE} + h$





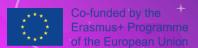




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ANY QUESTIONS?





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