

**Erasmus+ AGTn Steam****TPM and LTT3 Italy 6 - 12 November 2022**

The programme includes:

- (a) The Project Meeting aiming at discussing management of the project. The meeting will start on Sunday the 6<sup>th</sup> of November in the afternoon at POST – Perugia Officina per la Scienza e la Tecnologia – science center and will continue on Monday morning till lunchtime at Planetario Danti at ITTS A. Volta
- (b) The Training Sessions lasting 5 days organized by PSIQUADRO jointly with ITTS A. Volta and taking place at Planetario Danti from Monday the 7<sup>th</sup> of November in the afternoon till Saturday the 12<sup>th</sup> at lunchtime.

Two excursions are planned: the first to visit the Perugia historical city center and the second to visit Assisi historical city center. Visits will focus on cultural connections with the training program.

**Formats**

- (a) Introduction 45 minutes by an expert - Followed by practical workshops develop in parallel
- (b) Presentation of case studies followed by applications of the same techniques

**Locations**

- Perugia Officina Per la Scienza e la Tecnologia – POST Science Centre
- Planetario Danti and ITTS Volta – Planetarium and Technical High School

**Excursions**

- Perugia city center and museums
- Assisi (*Note: departure times to and from Assisi will be confirmed accordingly to the autumn schedule of public transports*)

**Social events in the evenings**

Social events are under development and will be communicated in the programme release one month before the meeting.

<b>Day 1 – Sunday 6 Nov 22 - 15.00 – 17.30 - <a href="#">POST Science Centre – Perugia Officina per la Scienza e la Tecnologia</a></b>
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**15.00** – Welcome and Introduction to the Science Centre

**15.30 – 16.00** Warm up activities: Introducing myself – icebreaker game

**16.00 – 17.30/18.00** Welcome by the project coordinator and first part of the TPM

- Conveying a message from the Director of DDE Larissas (coordinating organization)
- Budget, financial aspects and reporting (pptx 25 slides)
- Questions, free discussion

**20.00** - Dinner in the city center

**Day 2 - Monday 7 Nov 22 - 9.00 – 17.30 - [ITTS VOLTA](#) and [PLANETARIUM](#)**

*The day is organized into two parts: 9-30 – 12.30 (TPM 2nd part); 14.30 – 17.30 (LTT first session)*

**9.00 – 9.30** Welcome by the headmaster Prof. Fabiana Cruciani.

**9.30 – 10.00** Space and STEAM education - Why we are in a Planetarium and what process is going on to turn it into the new **Volta SpaceLab**: from stargazing to space science and technology careers for young generations.

*Prof. Leonardo Alfonsi (Physics teacher at Volta and scientific director at Psiquadro social enterprise)*

**10.00 – 11.00** School Visit

*Organization of school workshops and presentation of facilities - Introductory and interactive tour of school laboratories and the Ignazio Danti Planetarium.*

**11.00** coffee break

**11.30 – 12.30** Project Meeting second part

- Evaluation of the progress of the project so far. Brief introduction by the coordinator and free discussion afterwards:
  - are the goals of the project achieved so far?
  - how were teachers helped to create educational scenarios?
  - are the results disseminated to the students?
  - if not, what should be changed?
  - are we happy with our participation and our contribution in the project?
- Next activity planning

**12.45 – 14.15** lunch break at school canteen or in the planetarium

**14.30 – 15.00** LTT opening: Introduction of the basic educational concepts that will be explored during the week. Schedule and goals of the LTT activities

**15.15 – 16.00** The Erasmus + at Volta: how we are engaging students with space, math and computer science and coding

*Prof. Paolo Cantarella (IT teacher at ITTS Volta), Prof. Claudia Cardinali (IT teacher at ITTS Volta) Prof.ssa Barbara Marcugini (Math teacher at ITTS Volta),*

**16.15 – 17.00** Storytelling and STEM education a case study: The Moon landing 50<sup>th</sup> anniversary and the scenario workshop educational method used by the ITTS Volta.

*Prof.ssa Francesca Farinelli (Teachers of Literature at ITTS Volta)*

**17.00 – 17.30** Discussion and presentation of the next day schedule

**Day 3 - Tuesday 8 Nov 22 - 9.00 – 17.30 - [ITTS VOLTA and PLANETARIUM](#)**

**9.00 – 9.30** Warm up exercise

**9.30 – 10.30** Introduction to the workshops of the day: how storytelling and news can inspire STEAM activities in the classroom. Example from the ongoing AGTn at Alessandro Volta. Organization of the working groups. The team will be divided in 4 working groups each of them will have the same task but each of them has to come up with a different solution:

- (a) Identify a relevant breaking or current news related to space science and technology
- (b) Identify possible connection with ancient Mediterranean myths or technologies (Greece, Ancient Rome and Egypt) (e.g.: The new mission ARTEMIS ad the Myth of ARTEMIS, or the stories related to the Moon and its observation in the ancient Greece)
- (c) Develop an educational activity inspired by identified topic. The educational activity can be: a workshop, a science demonstrations, the development of a multimedia content etc... each group can choose its wo didactical tool)

**10.30 - 11.30** News search on the web possibility

**11.30 – 11.45** Coffee break

**12.00 – 13.00** Creating connection between the news and the steam topic relevant to your class

**13.15 – 14.30** lunch break at school canteen or in the planetarium (TBD)

**14.45 – 15.30** Quick feedback from the working groups. Suggestions to tackle possible issues

**15.45 – 16.00** Coffee break

**16.00 – 17.30** Developing the format of the educational activity

**Day 4 - Wednesday 9 Nov 22 - 9.00 – 12.30 - [ITTS VOLTA and PLANETARIUM](#) – 13.30 – 18.00 Launch and tour of Perugia Historical City Center**

**9.00 – 9.15** Warm up exercise

**9.30 – 11.00** Continuing the educational activity development

**11.00 - 11.15** Coffee break

**11.30 – 13.00** Presentation of the activities: each of the 4 working groups presents its results In a slot of 20 minutes: a 5' presentation of the education module rational and structure and a 15' for comments and questions from the other participants are delivered.

**13.00 – 13.30** Transfer to the Perugia city centers

**13.30 – 14.45** Lunch in the city center

**15.15 – 17.30/18.00** Start of the historical city Center visit till 17.30

**Day 5 - Thursday 10 Nov 22 - 9.00 – 17.30 - [ITTS VOLTA and PLANETARIUM](#)**

**9.00 – 9.15** Warm up exercise

**9.45 – 10.30** Introduction to the European project toolkit Our Space Our Future and introduction to the works in parallel

The team will be divided in 4 new groups each of them will have a different task of adaptation and development of new activities inspired by 4 of those taken from the Our Space Our Future toolkit, namely:

- (a) a space bingo,
- (b) an interview with scientist,
- (c) a science show, and
- (d) a tinkering activity.

**10.30 - 11.00** Quick feedback from the groups shared within the full team

**11.00 – 11.15** Coffee break

**11.20 – 13.00** Continuing the work in groups

**13.15 – 14.30** Lunch break at school canteen or in the planetarium (TBD)

**14.45 – 15.30** Quick feedback from the working groups and suggestions to tackle possible issues

**15.45 – 16.00** Coffee break

**16.00 – 17.30** Groups continue to work of activities adaptations

**Day 6 - Friday 11 Nov 22 - 9.00 – 17.30**

**9.00 -11.00** Presentation of the adaptation of the activities and comments developed during the previous day.

**11.30** departure to Assisi

**13.00** Lunch in Assisi

**14.30 – 18.30** Visit of Assisi historical city center

**18.30** Departure to Perugia

**Day 7 - Saturday 12 Nov 22 - 9.00 – 12.00 - [ITTS VOLTA and PLANETARIUM](#)**

**9.00 – 10.00** Wrap up a week of Space ad STEAM education + Introduction to ESERO Resources

*Leonardo Alfonsi (Psiquadro)*

**10.00 – 11.00** Feedback from the groups and suggestions for further development

**11.00 – 11.15** Coffee break

**11.15 – 12.00** What's next: closing session by the project coordinator.

Short online evaluation of 3<sup>rd</sup> LTTA in Italy.

Certifications of attendance.