

Presentation of WP 2

*Innovative science education methods
based on performing arts*

Helena and Oriol

The Big Van Theory

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WP Objectives

- *To generate PERSEIA: drama-based activities addressing the human dimension of science, young people's interests in STEM and the RRI values.*
- *To generate a participatory process based on PERSEIA, involving young people, teachers and early career researchers*
- *To up-scale resulting PERSEIA methodological approach to informal teaching and learning contexts, and specifically to science museums.*

WP Tasks

- **T 2.1.** *Inclusion of the “human dimension” of science and the values embedded in RRI in performance-based activities*
- **T 2.2.** *Participatory process with young people, teachers and early career researchers*
- **T 2.3.** *Pilot PERSEIA scaled up into informal context: implementation in science museums*

WP Tasks

- **T 2.1.** *Inclusion of the “human dimension” of science and the values embedded in RRI in performance-based activities*

Who?

Science Communicators: SMS, LAC, TBVT
High school students (focus groups)

When?

Until february 2017

How?

Working with focus groups
PERSEIA generation by science communicators
PERSEIA execution by science communicators

Task 1 Deliverables and Milestones

Deliverable	Deadline (M)
D 2.1) Final protocol of tested methods to transform a performance-based activity into a PERSEIA	2017 February

WP Tasks

- **T 2.2.** *Participatory process with young people, teachers and early career researchers*

Who?

Science Communicators: SMS, LAC, TBVT, AJA
Teachers (NS)
Early career scientists (NS)
High school students (30 students)

} Working groups

When?

Until the end of the project

WP Tasks

- **T 2.2.** *Participatory process with young people, teachers and early career researchers*

How?

Participatory workshops with working groups

1. Selection of relevant scientific topics that address societal challenges: TBVT
2. Critical thinking and self-reflection: AJA-TBVT
3. Interaction between arts and the scientific method: UAB-TBVT
4. Gender issues (leadership, entrepreneurship, digital skills): TBVT-UNESCO
5. Performing skills: LAC-SMS-TBVT

Design and rehearsal of PERSEIAs in each school

Execution of PERSEIAs in each school

WP Deliverables and Milestones

Deliverables and Milestones	Deadline (M)
D 2.2) Final protocol of tested methods to generate a transformative participatory educational process by using science and arts-based education approaches	2018 May
MS 5) Inclusion of the RRI values	2017 December

WP Tasks

▪ **T 2.3.** *Pilot PERSEIA scaled up into informal context: implementation in science museums*

Who?

Science Communicators: SMS, LAC, TBVT
Science museum facilitators from ECSITE network
(1 museum each case study)

When?

Last 8 months of the project

How?

Knowledge-transfer workshop based on the previous findings.



WP Deliverables and Milestones

Deliverables and Milestones	Deadline (M)
D 2.3) Guidelines for PERSEIA adaptation to science-museums	2018 October

Connection of WP with RRI

RRI values will be included in every task of WP 2:

- Discussion in focus groups (T2.1)
- Participatory workshops with students and scientists (T2.2)
- Topics included in PERSEIAs (T2.1 and 2.2)
- Knowledge transfer workshops in science museums (T2.3)

RRI values include:

- ☐ *Gender inequality; girls barriers in STEM*
- ☐ *Science related stereotypes*
- ☐ *Dialogue between scientists and society*
- ☐ *Ethical issues in scientific research*
- ☐ *Science careers in labour market*

What does WP leader expect from partners?

- *Good and fluent communication between partners*
- *Meet deadlines*
- ***SMS and LAC:** Implementation of case study in their countries*
- ***AJA:** Co-working with the generation of participatory workshops*
- ***UNESCO:** Advise and help partners with gender issues*



What might other partners expect from WP leader?

- *Advise*
- *Help*
- *Straigh and fluent communication*