# **SURVEY PILOT PERSEIAS**

BACKGROUND INFORMATION (NOT PART OF SURVEY):

**Implementation context:** testing of the pilot PERSEIAS generated after the focus groups with the students. The PERSEIAS will be tested with a sample of students from 10 to 16 secondary schools in each case study. According to WP2, these PERSEIAS are expected to be effective tools to generate a fluid two-way dialogue between students and the researchers during the performance and to provide student reflections about researchers as role models, gender inequalities and ethical issues in STEM careers and scientific research.

**Main objectives of the survey:**

* Explore perceptions and attitudes of student audiences towards the PERSEIA (enjoyment, interest, value, competence).
* Explore whether the performances are able to generate a two-way dialogue between students and researchers and stimulate students’ reflections about the different topics PERSEIAs aim to include (i.e., those addressed during previous focus groups: gender inequality and girl’s barriers in STEM; science-related stereotypes; two-way dialogue between scientists and the society; ethical issues in scientific research; the role of entrepreneurial and multidisciplinary research careers in labour market).

**Survey format:** online survey combining Likert scales with some open-ended items (10 minutes approx.). To be implemented after PERSEIAs implementation.

**Pre-visit Survey**

This survey is being done for a European research project called ‘PERFORM’. We would be very interested to learn your views. Your responses will be kept confidential and used for research purposes only. This is not a test and will not be used for school assessment. If you have any difficulties completing this form, please email Dr Eric Jensen, Associate Professor, University of Warwick: e.jensen@warwick.ac.uk.

Name of school: [single line text]

Email address:

Gender:

Age: [open to write number of years in]

What comes to mind when you think of ‘science’? [single line text]

What comes to mind when you think of a ‘scientist’? [single line text]

Have you been to a museum in the last 12 months? [Yes; No; Unsure]

FOLLOW-ON – IF NO:

 Have you ever been to a museum? [Yes; No; Unsure]

Have you been to a science festival in the last 12 months?

FOLLOW-ON – IF YES:

 Did you attend with your family, with your school or both?

[Please choose one: Only with family; Only with School; With both family and school]

Science is irrelevant to my life

Science helps to solve the world’s problems

Science is not for me.

Scientific knowledge is important for my future career

Science is usually boring

If I wanted to, I could be a scientist

‘The benefits of science always outweigh its risks’

 *What comes to mind when you think of an ‘ethical scientist’?*

*What comes to mind when you think of a ‘male scientist’?*

*What comes to mind when you think of a ‘female scientist’?*

*Finally, consider the following scenario: For 15 years, John/Maria has worked for the Chemical Company, which sells fertilizers and pesticides to farmers. Thanks in part to John/Maria’s work, the company has a new pesticide that protects corn from insects far more effectively than anything else on the market. But, John/Maria worries that the pesticide might have negative impacts on the environment when it’s used.*

1. *Would John/Maria know enough to decide whether to release the pesticide? (yes/no/unsure) Why or why not? (open-ended)*
2. *What should John/Maria consider before releasing the pesticide? (open-ended)*
3. *Do you think it would be ethical for him/her to release it to market? (yes/no/unsure) Why or why not? (open-ended)*
4. *Do you think John/Maria is a scientist? (yes/no/unsure) Why or why not? (open-ended)*

Thank you very much for completing this survey. You will be asked to complete one more survey after an upcoming performance event at your school.

**Post-visit Survey**

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What comes to mind when you think of ‘science’? [single line text]

What comes to mind when you think of a ‘scientist’? [single line text]

Science is irrelevant to my life

Science helps to solve the world’s problems

Science is not for me.

Scientific knowledge is important for my future career

Science is usually boring

If I wanted to, I could be a scientist

‘The benefits of science always outweigh its risks’

 *What comes to mind when you think of an ‘ethical scientist’?*

*What comes to mind when you think of a ‘male scientist’?*

*What comes to mind when you think of a ‘female scientist’?*

[SECTION BREAK]

We would now like to ask you some questions about the performance event you recently went to at school:

Please describe the performance event you attended in your own words. [open response – small paragraph box]

What, if anything, do you feel you gained from the performance?

[open response – small paragraph box]

What, if anything, do you feel you learned from the performance?

[open response – small paragraph box]

How long ago did you have the performance: [earlier today; yesterday; up to one week ago; more than 1 week ago]

* 1. IF YESTERDAY OR LATER, THEN ASK: Did you tell your family about the performance event? (YES/NO/UNSURE)
	2. IF YES, THEN ASK: What did you tell your family about the event? (CAN'T REMEMBER TICK BOX + OPEN-ENDED)

Did you talk to any of the performers during the event? (yes; no; unsure)

Do you agree with the following statements?

[Close-ended item categories for all below: “strongly agree”, “agree”, ‘neutral’, “disagree” and “strongly disagree”; ‘Don’t know / no opinion’]

The performance was boring.

I enjoyed the performance.

The performance was confusing.

The performance was a waste of time.

I actively participated in the performance event.

I think this performance event is important for my scientific learning.

What, if anything, did you like about this performance?

What, if anything, did you dislike about this performance?

The performers are scientific experts.

I trust the scientific information in the performance I attended.

*Finally, consider the following scenario: For 15 years, John/Maria has worked for the Chemical Company, which sells fertilizers and pesticides to farmers. Thanks in part to John/Maria’s work, the company has a new pesticide that protects corn from insects far more effectively than anything else on the market. But, John/Maria worries that the pesticide might have negative impacts on the environment when it’s used.*

1. *Would John/Maria know enough to decide whether to release the pesticide? (yes/no/unsure) Why or why not? (open-ended)*
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3. *Do you think it would be ethical for him/her to release it to market? (yes/no/unsure) Why or why not? (open-ended)*
4. *Do you think John/Maria is a scientist? (yes/no/unsure) Why or why not? (open-ended)*

Thank you very much for completing this and the previous survey. Your responses will be very helpful for understanding the views of people like you, and for evaluating the performance event you attended. If you have any follow-up questions or encountered any problems completing this survey, please contact Dr Eric Jensen, Associate Professor, University of Warwick: e.jensen@warwick.ac.uk.