

R4.1. DataScEd4CiEn STEAM Scenario Template

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Introduction

Title

A descriptive title that summarizes the aim of the scenario

Authors

Name and surname of the authors of the scenario with the affiliation school name

Summary of the scenario

Brief summary of the aims, objectives, problems, data science methodology and products to be implemented.

Age of the students

Description of the ages to which the scenario is planned

‘Data Science Content in STEAM for Civic Engagement and Social Justice from the Early Years’

Subjects and topics

Description of the subjects and topics which are engaged in the Data Science Education in STEAM for Civic Engagement and Social Justice

Real-life questions

Description of which are the real life questions that students will attempt to answer

Objectives the scenario

Description of the objectives planned for the Data Science Education scenario

Skills and competencies

Description of the skills and competencies that you are aimed to develop to your students with the implementation of the scenario

Teaching approaches and learning strategies/theories

Description of the STEAM methodology that you have designed for the DataScEd4CiEn scenario implementation (problem based learning, project based learning, inquiry based learning, design thinking, etc.)

Relating the national curriculum with the DataScEd4CiEn scenario

Description of the strength that the national curriculum provides to the development of the scenario, and the opportunities that the development of the scenario provides to innovate the national curriculum

Educational Scenario planification

Description of the lesson plan: name of the activity, subject, procedures, time, resources. Complete the next table and include the links to the Annexes section with the detailed description of the activity.

Lesson plan

Name of the activity	Procedures	Time/Annex
Lesson 1: Motivation to the project		
STEAM subject		
Expected learning outcomes		

Lesson 2:		
STEAM subject		
Expected learning outcomes		
Lesson 3:		

It can include any number of rows as necessary to describe all the lessons of the scenario and you can also link as many annexes as you want.

Timing

Describe for each category the time planned for its implementation

Preparation time:

Teaching time planned for each of the STEAM subjects

STEAM subject 1:
STEAM subject 2:
STEAM subject 3:
STEAM subject 4:
STEAM subject 5:
STEAM subject 6:

Assessment time:

Teaching resources (materials & technological tools)

Describe the teaching materials and technological tools to be used in the different lessons

Materials

Online tools

Evaluation

Initial assessment

If applicable in your country, describe the tool used for the initial evaluation of the students' data science knowledge in civic engagement and social justice in the topic of the scenario that you have planned and students' dispositions to learning data science. (Annexes used in the classroom are welcome)

Assessment tools

Describe the tools used for the assessment of:

- the students' data science knowledge in civic engagement and social justice in the topic of the scenario that you have planned,
- students' disposition to learning data science. (Annexes used in the classroom are welcome)