SCIENCE PROJECTS ONLINE WORKSHOPS (SPOWs)

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VICT-INOV METHODOLOGY FOR INNOVATORS

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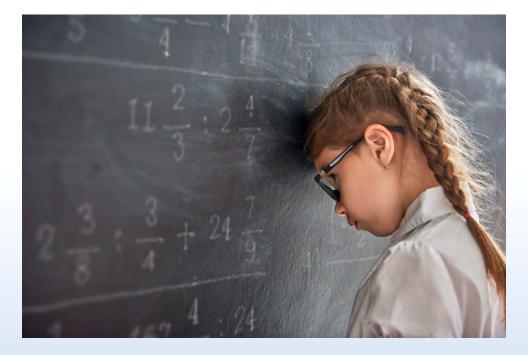
1° Session – 13 March 2023

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What is Design thinking?

For ale and approaches.











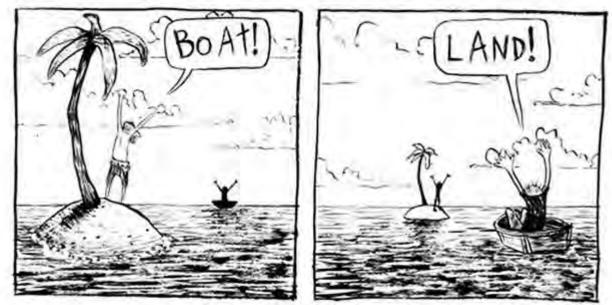
Design thinking methodology

Climate change, poverty, and

world hunger are often-cited

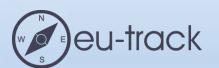
examples; they need to be

tackled from multiple angles.



Perspective...





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It is not an event.

It is a **mindset**.



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Design Thinking Advantages

* Students have the **opportunity** to **think critically** and **imaginatively**, **collaborate**,

communicate and engage their curiosity.

Students can develop into autonomous learners

who decide how they work and what solutions

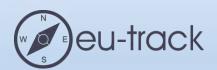
they want to create.Students can be **involved** in an **active** and

meaningful process that helps them show the real

application of disciplinary content.
It helps teachers differentiate and personalize

learning for each student.







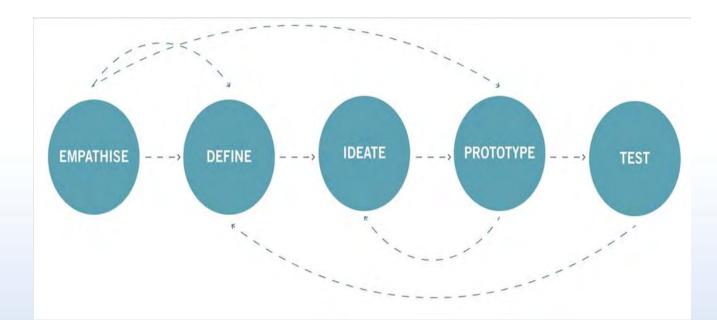




Design Thinking in brief

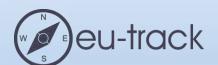
It is a **structured process** for **problem solving** to:

- identify challenges,
- gather information,
- generate potential solutions,
- refine ideas,
- **test** solutions.



The aim is to bring innovative solutions to the problems.









Empathy phase

1- Drawing the framework of problem

2-Searching the problem





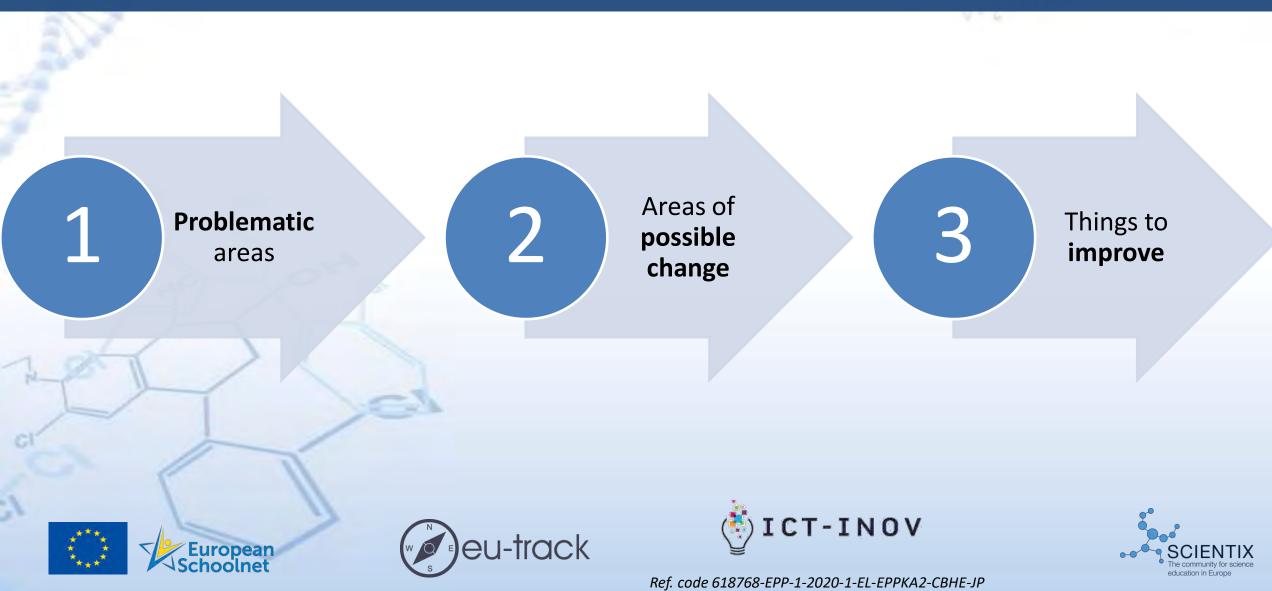
3- Reporting



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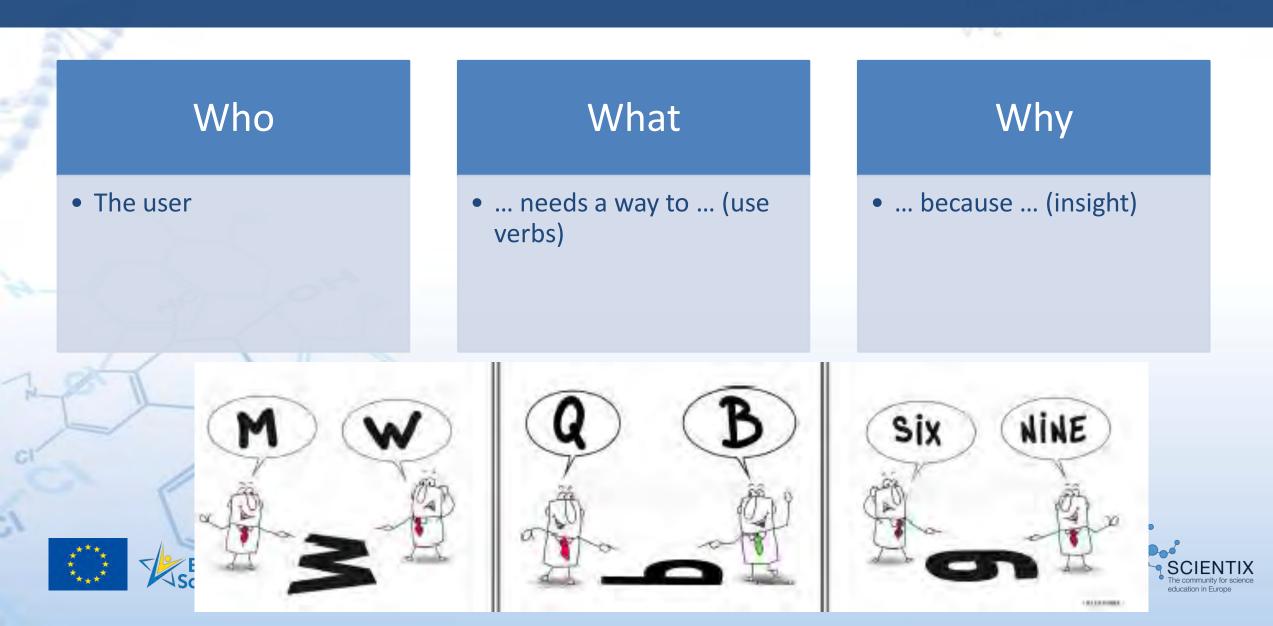
Empathy Phase (1)

CIEL and CHAN



Define phase

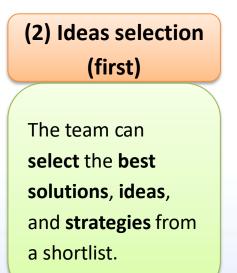
1+E and EBAN



Ideate phase

(1) Ideas' classifications

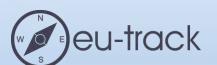
Once the Ideation session is complete, the ideas must be collected, categorised, refined, and narrowed down.



(3) Ideas selection (second)

After **voting** the **best idea**, the team can start to **create** the **blueprint** for their **prototype**.





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Prototyping is the art of **showing instead of telling**.

Usually, **students** in groups try **build** a **rough model** of their final solution found.

The model is a visual representation of what the concept should look or feel like.



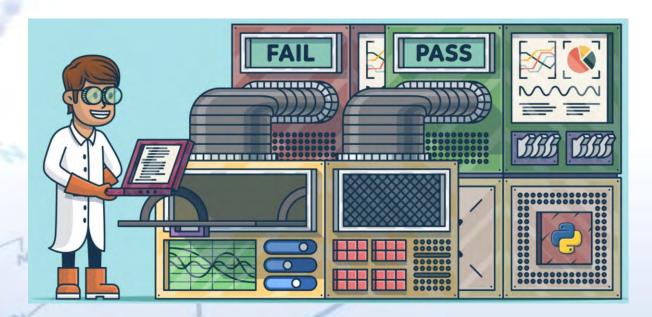








Test phase



Testing solutions allows to improve them – user feedback allows to determine what is right (and wrong)

with the design.









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Thank you for your attention!

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