SCIENCE PROJECTS ONLINE WORKSHOPS (SPOWs)

The Scientix project has received funding from the European Union's H2020 research and innovation programme – project Scientix 4 (Grant agreement N. 101000063), coordinated by European Schoolnet (EUN). The content of the paper is the sole responsibility of the authors and it does not represent the opinion of the European Commission (EC), and the EC is not responsible for any use that might be made of information contained.

VICT-INOV METHODOLOGY FOR INNOVATORS

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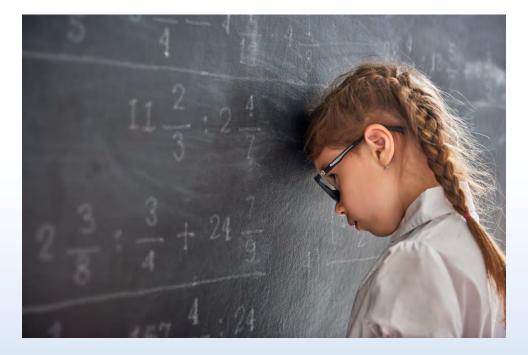
1° Session – 13 March 2023

Ref. code 618768-EPP-1-2020-1-EL-EPPKA2-CBHE-JP

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What is Design thinking?

For ale and approaches.











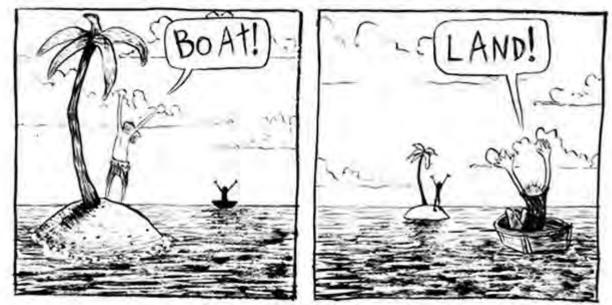
Design thinking methodology

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.







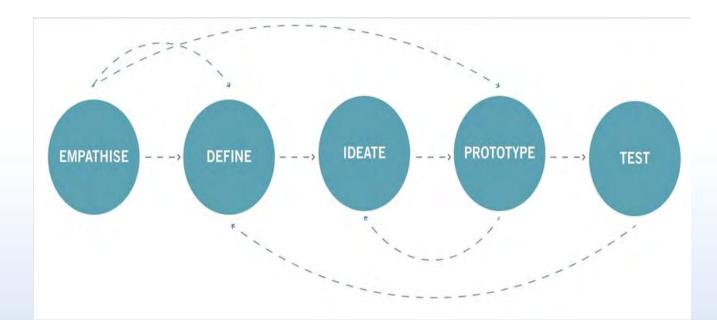




Design Thinking in brief

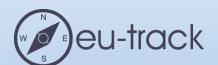
It is a **structured process** for **problem solving** to:

- 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





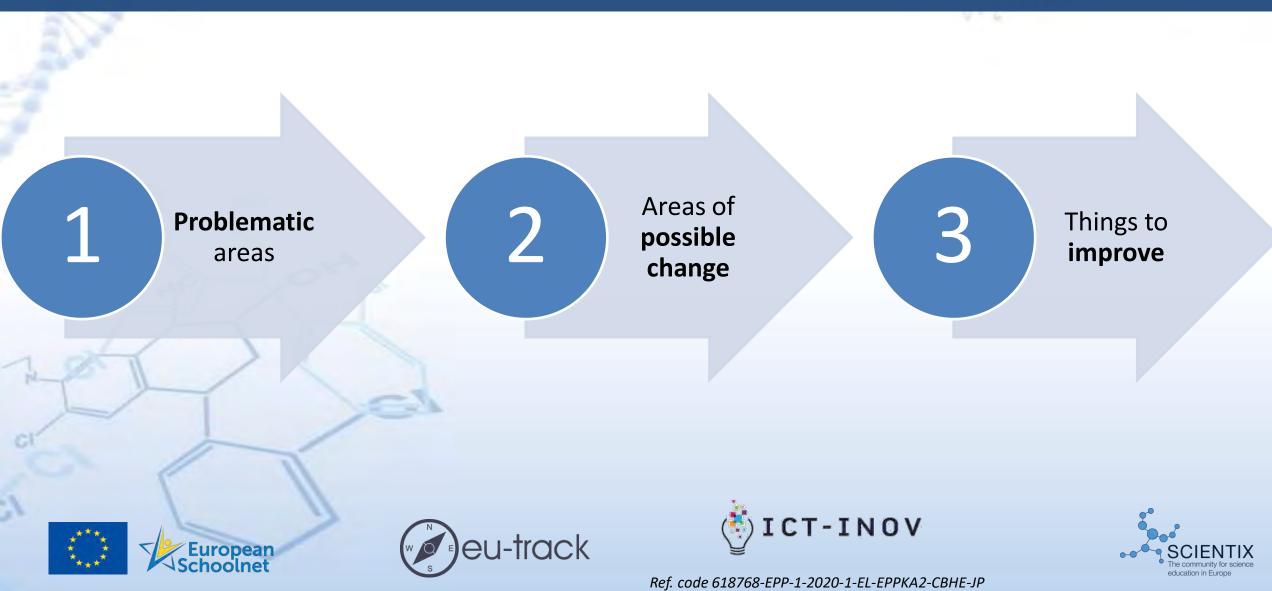
3- Reporting



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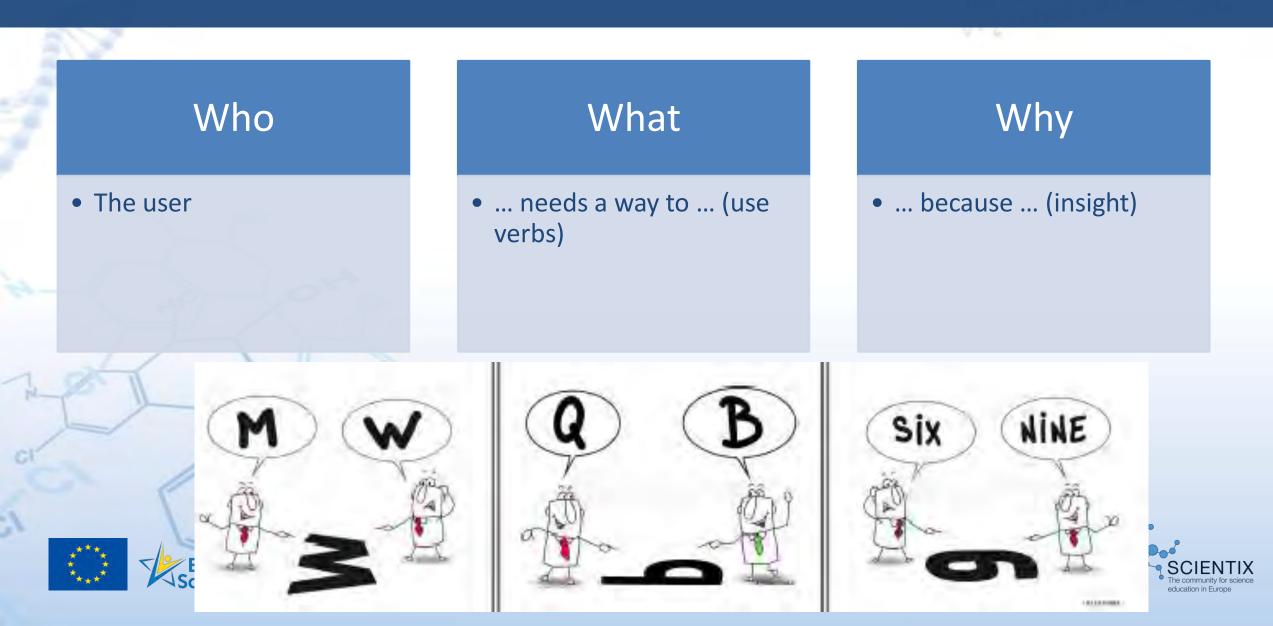
Empathy Phase (1)

CIEL and CHAN



Define phase

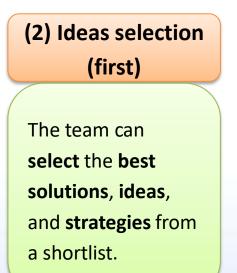
1+E and EBAN



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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(HI + red (II + w)



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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