

Introduction

Can computers see like us?

In this workshop, students (8-12) step into the role of AI scientists. They will collect real-world data (traffic signs), train an AI model to recognize them, and discover why diverse data is crucial for fair technology.

Key Goals

- **Collect:** Traffic sign datasets.
- **Train:** AI using Teachable Machine.
- **Share:** With European partners.
- **Debate:** AI ethics & trust.

Resources

- **Tool:** Teachable Machine.
- **Platform:** eTwinning.
- **Data:** Photos of signs/faces.
- **Tech:** Tablets/Laptops.



Training AI

Science & Data



**Co-funded by
the European Union**

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Target Group: 8-12 y.o.
SmAile Project

Learning Outcomes

Knowledge:

- How ML training works.
- Data bias & limitations.

Skills:

- Dataset creation.
- Scientific collaboration.

Values

- Digital responsibility.
- Cultural awareness.
- Critical thinking.

1. Data Collection

Exploring Traffic Signs: Students photograph local signs and categorize them. They upload these to a shared folder to swap data with schools in other countries.

2. Training

Teachable Machine: Using the collected images to train a computer model. **The Test:** Does the AI recognize a stop sign from France if it was trained on signs from Italy?

3. Ethics

Debate: "Can AI replace human reasoning?" Students discuss cases where AI made mistakes and reflect on the need for human supervision.

Reflection: Padlet activity on "Trust & Technology."