

# ITER Data Fusion Lab

## An interdisciplinary project in Physics, Data Science and Environmental Sustainability

### Educational Objectives

- Clearly understand the functioning of ITER nuclear fusion
- Use data analysis and digital tools to explore realistic energy scenarios
- Critically reflect on the environmental, ethical and technological impact of fusion energy

### Methodologies Used



### Inquiry-Based Learning



### Project-Based Learning



### Service Learning



### Data Storytelling

### Achieved Results



Exploratory data analysis (EDA)



Predictive models (linear regression)



Clear and interactive data visualisations



Comparison with real Eurostat and pwiDB (IAEA) data

Complete materials available on GitHub:

<https://github.com/cveronic/iter-data-fusion-lab>

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### Student's blog

<https://www.ecomentality.it>

### School's site

<https://www.liceocalini.edu.it>

### MOOC's site

 scuolafutura.pubblica.istruzione.it

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**EFT Lombardia – Scuola futura – PNRR**

Le Équipe Formative Territoriali promuovono azioni di formazione del personale docente...

<https://scuolafutura.pubblica.istruzione.it/>



This educational activity is officially included in the national MOOC of ScuolaFutura - Ministry of Education and Merit: "Sensors, graphs and discoveries: playing and exploring data at school" (ID path: 257576).