AI- COSMIC

INTRODUCTORY GUIDE

TO

AI AND CODING

START

In the digital age, AI and Coding are integrated to many industries and is part of our daily lives and education.

What are the benefits of teaching AI and Coding at school?

- Gender gap solution
- Creative process
- Innovative learning
- Skills development
- Real-life situations

- Logical reasoning
- Critical thinking
- Problem-solving

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UNDERSTANDING AI

What is Artificial Intelligence?

Artificial Intelligence (AI) is a technology that gives computers and machines the ability to perform tasks usually done by living human beings.

Face ID

Voice assistant

Video games

Does AI have limitations?

AI has limitations in terms of creativity, emotions, common sense, robustness, autonomy and recognising biased information.

What are the 5 big ideas of AI?

1 Perception
Perception of the world through sensors

2 Representation and Reasoning
Different types of reasoning in the problem-solving process

3 Learning
Knowledge and improvement of performances

4 Natural Interactions
Consciousness and intuitions

5 Social Impact
Positive & Negative

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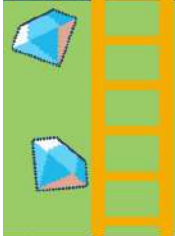
CODING AND ITS APPLICATION

What is Coding?

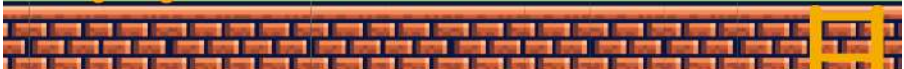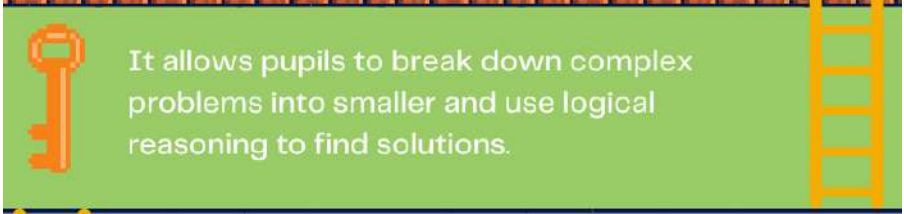Coding refers to creating instructions that a computer can understand and execute

Coding in the daily life

Coding prepares algorithms, which enable the development of tools used on a daily basis.

AI systems

Mobile Apps

Robots

Coding at schools

Coding has become essential in daily life and provide logical thinking skills required on the labour market.

It allows pupils to break down complex problems into smaller and use logical reasoning to find solutions.

Teaching coding in schools helps bridge the gap between technology and society and encourages innovation.
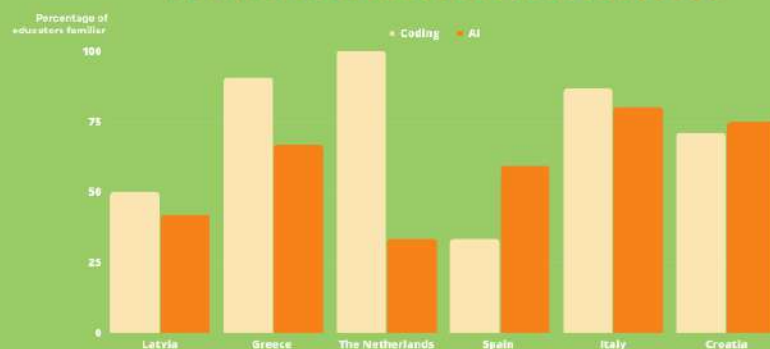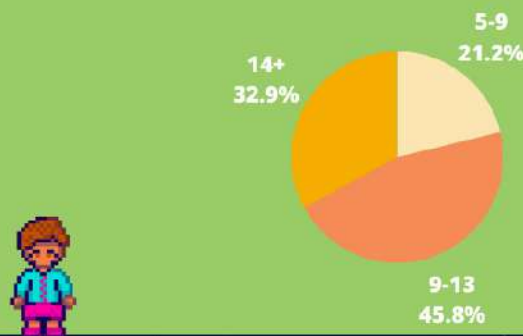
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THE POWER OF AI AND CODING IN EDUCATION

STATE-OF-THE-ART

How are educators familiar with digital tools using AI and Coding concepts in Europe?

Percentage of educators familiar

- Coding • AI

| 100 |
| 75 |
| 50 |
| 25 |
| 0 |

Latvia Greece The Netherlands Spain Italy Croatia

What is the targeted age group to introduce basic elements of AI and Coding?

14+
32.9%

5-9
21.2%

9-13
45.8%

How are educators familiar with AI and Coding ?

- Not familiar at all • Barely familiar • Somewhat familiar • Well familiar • Expert

Percentage of educators familiar

| 100 |
| 75 |
| 50 |
| 25 |
| 0 |

Croatia Italy Latvia Spain The Netherlands Greece

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STATE-OF-THE-ART

what are the tools used by educators?

KAHOOT	ROBLOX
BAMBOOZLE	QUIZZIZ
SLACK	MINECRAFT EDUCATON
PYTHON	QUIZLET

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