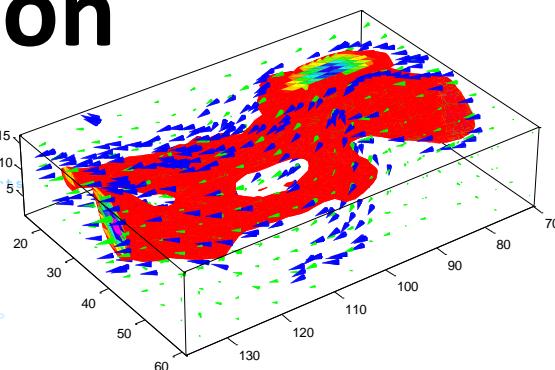
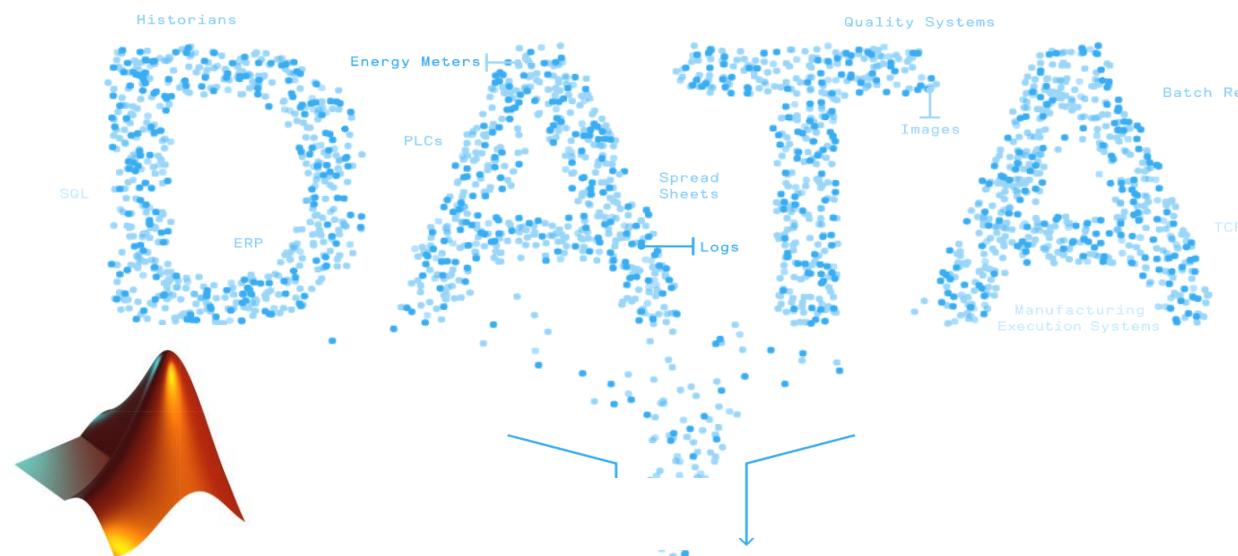




Introduction to Artificial Intelligence

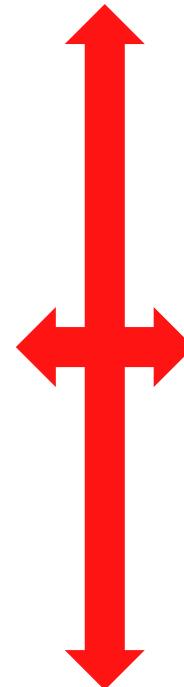
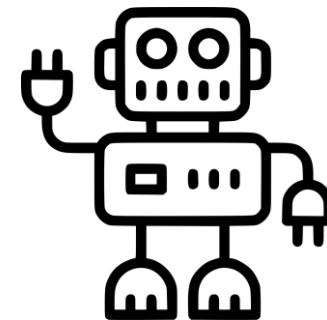
- 01-03 An Introduction



Dr Leo Chen
leo.chen@ieee.org
21/Feb/2024

Module Contents

- 1. Introduction**
- 2. Evolutionary Computation**
- 3. Artificial Neural Network**
- 4. Fuzzy Logic and Fuzzy Systems**
- 5. More AI Subsets**
- 6. AI and Industry 4.0**
- 7. AI Applications**
- 8. Labs**
- 9. Courseworks**



Chapter Contents

1. Definition of Artificial Intelligence

2. History of artificial intelligence

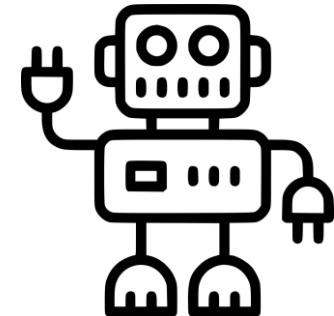
3. Key Drivers and Enablers

4. Related Concepts

5. National Importance and Strategies

6. Applications

7. AI Ethics



- Class Discussions
- Reading List
- FAQ
- Appendix
- Reference

What are the Drivers and Enablers?

- **Drivers 驱动力/者**

One who or that drives something, takes on the **responsibility** and **accountability** for the *project deliverables*.

- **Enablers 推动力/者**

One who or that helps something to **happen**.

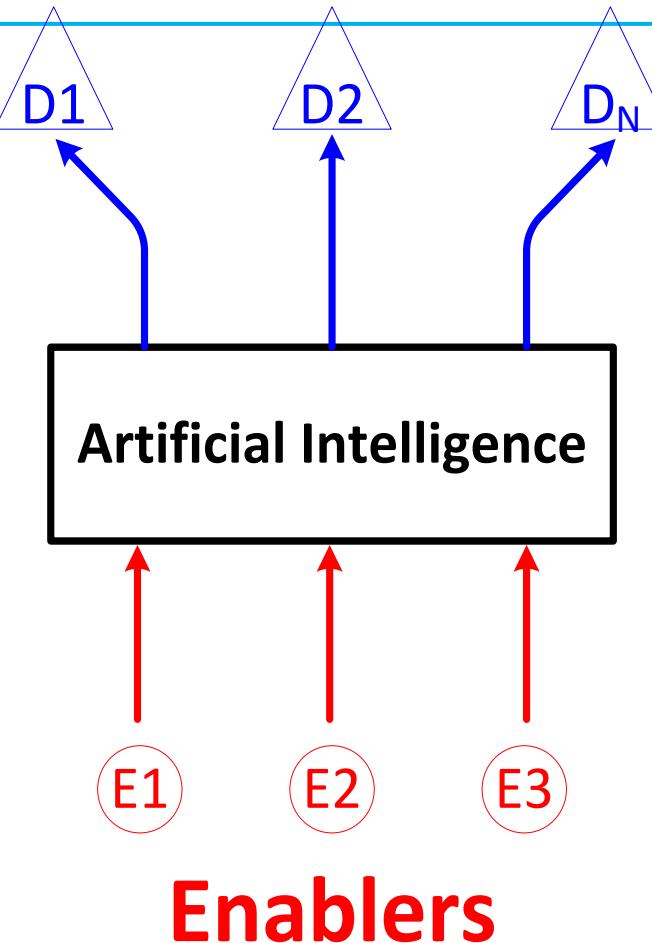
Section Contents

1. Key Drivers

2. Key Enablers

Drivers

— 2050



Enablers

1. Key Drivers

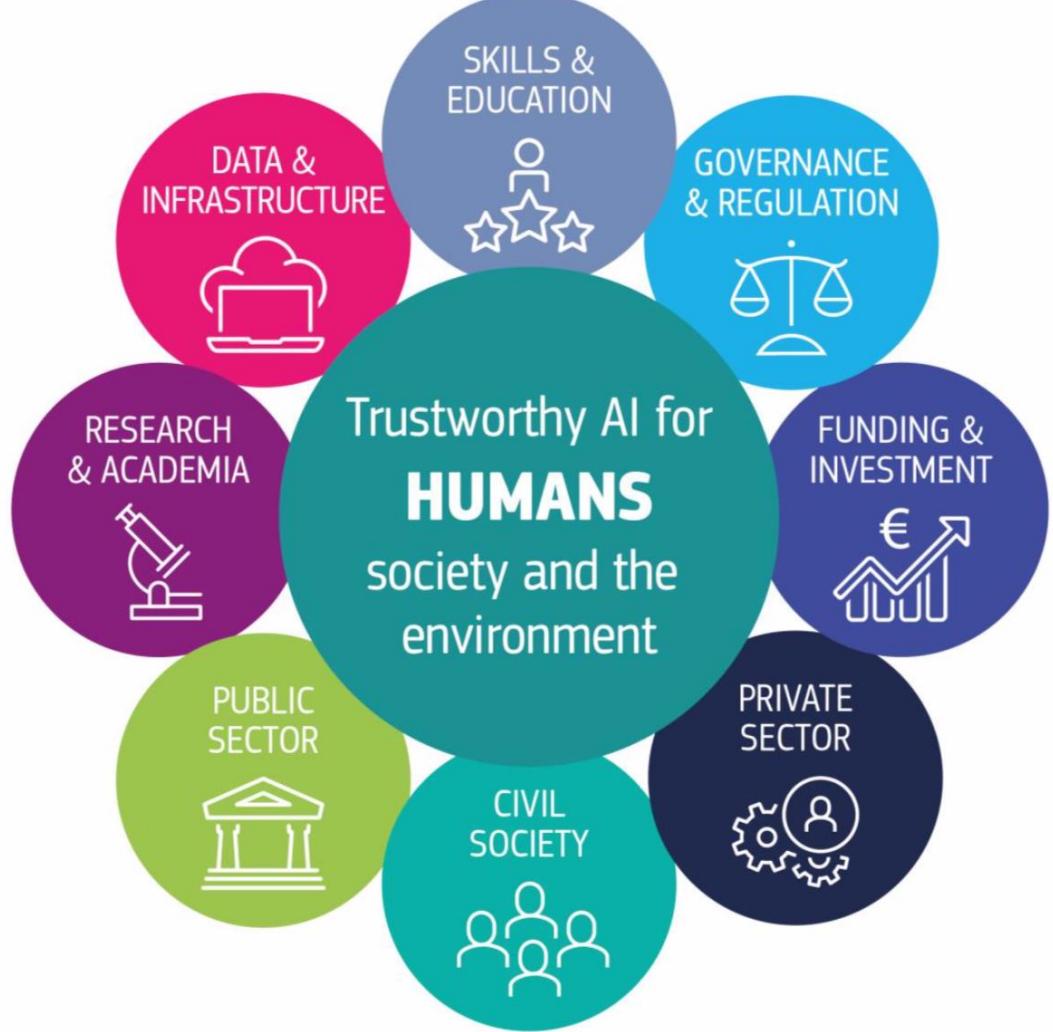
- 1) AI: Algorithms
- 2) Big Data from Industrial Applications
- 3) High performance computer (HPC)

Other highlighted drivers (driving factors)^[37]:

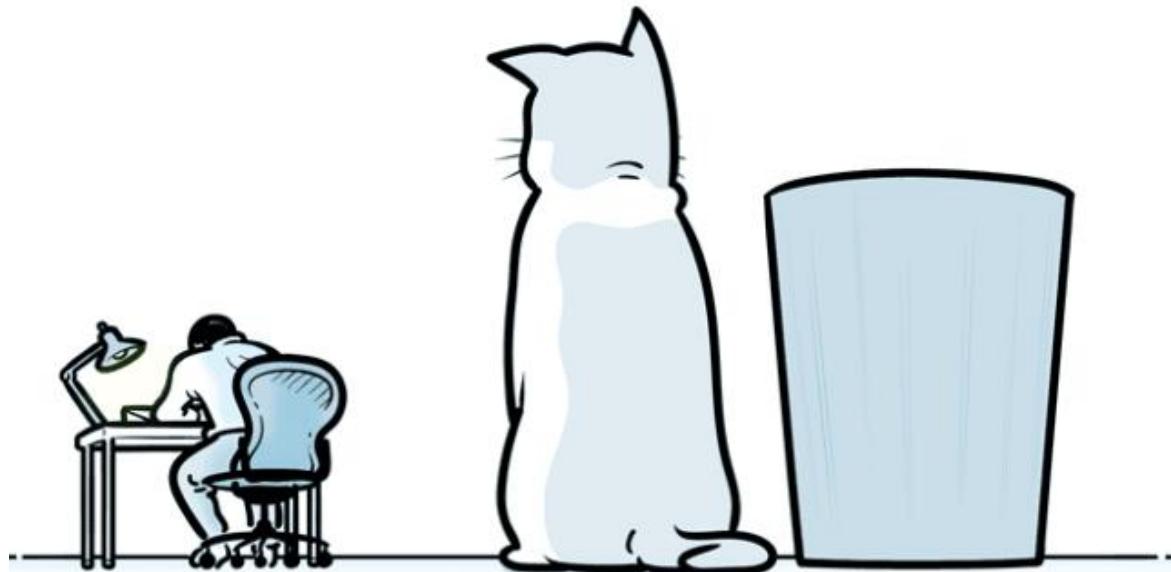
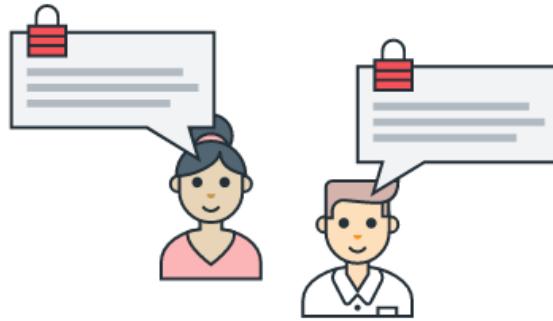
- *Capital (funding and investment)*
- *Talent (researchers)*
- *Applications (industrial applications)*
- *Responsibility (ethics)*

2. Key Enablers

These are the **8 enablers** for Europe's Trustworthy Artificial Intelligence suggested by the European AI Alliance. [38]



Thanks and Questions



Introduction to Artificial Intelligence

- 01-03 An Introduction

Thanks and Questions
This is the Last Page

Dr Leo Chen
leo.chen@ieee.org
21/Feb/2024