

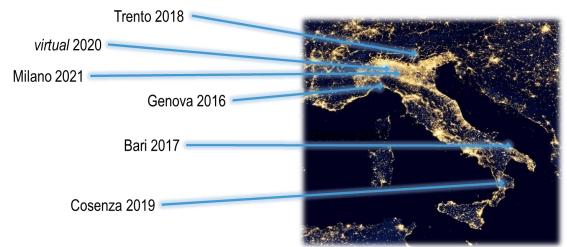


Gianluigi Greco – President of AlxIA

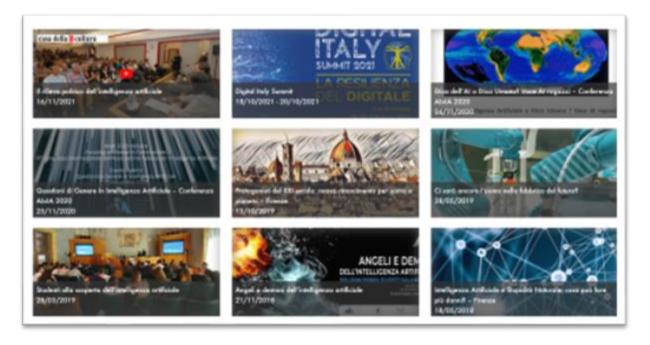


Italian Association for Al











An Al Society





Levels of Autonomy

The human defines the plan, the robot executes it



The human takes care of defining and executing a plan

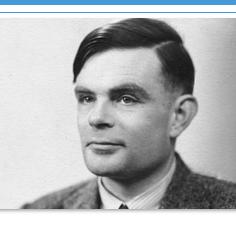
The robot defines and executes the plan



Intelligence vs Imitation

I propose to consider the question: «Can machines think?»

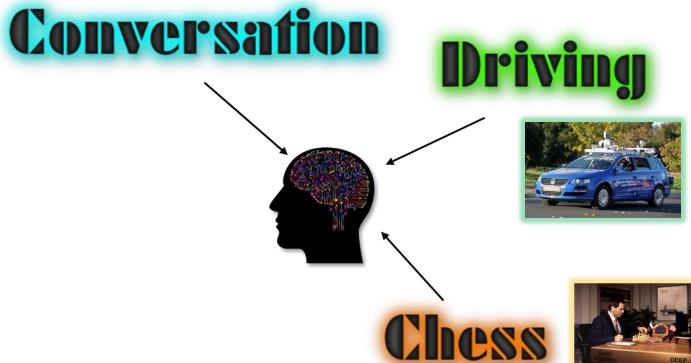
Computing Machinery and Intelligence, 1950







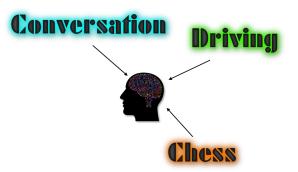








Al Topics



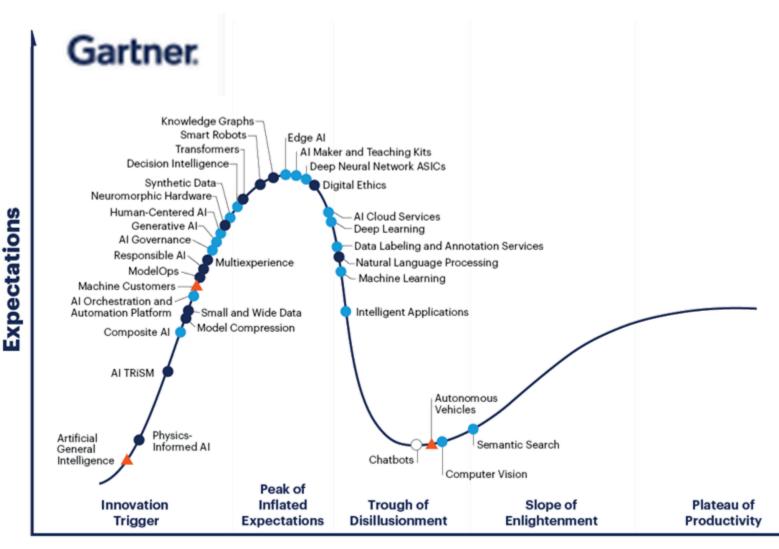
Symbolic Approaches

- Knowledge Representation and Reasoning
- Constraint and declarative programming
- Planning

Sub-Symbolic Approaches

- Genetic Algorithms
- Neural Networks
- Deep Learning

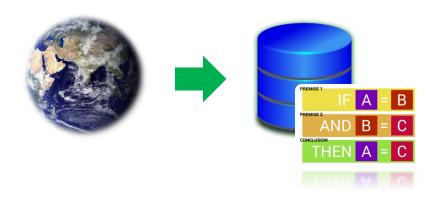


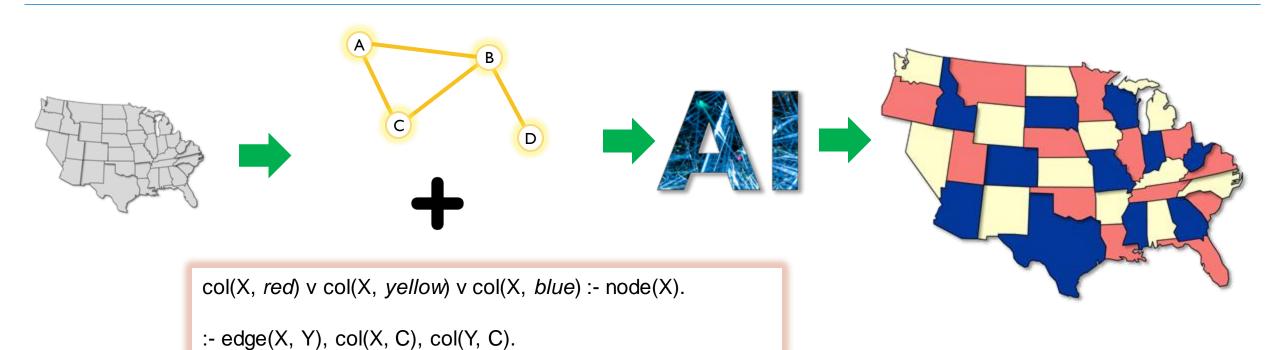


Time



Symbolic Approaches

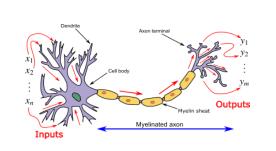


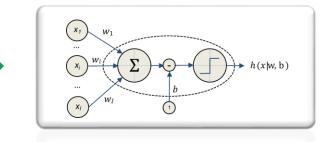


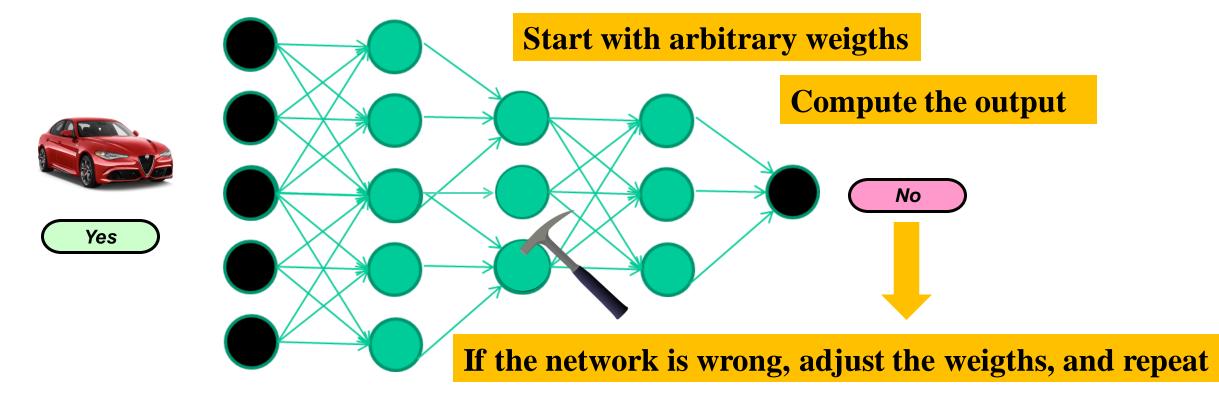


Sub-Symbolic Approaches











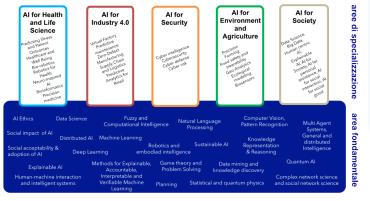


Gianluigi Greco – President of AlxIA



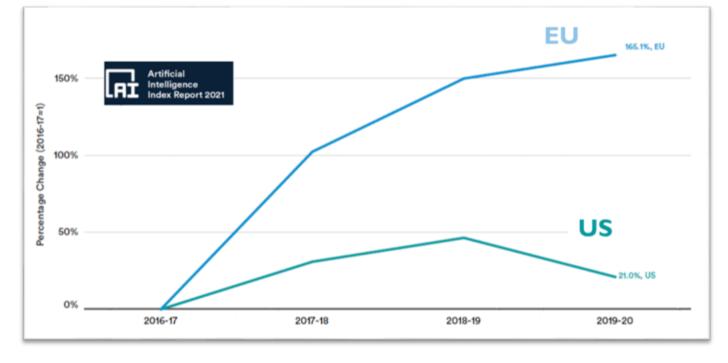
Università













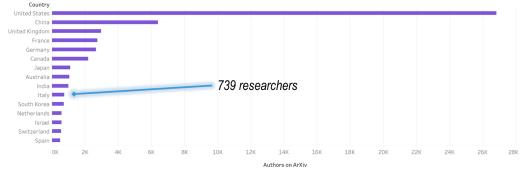
Global Al Talent Report 2020

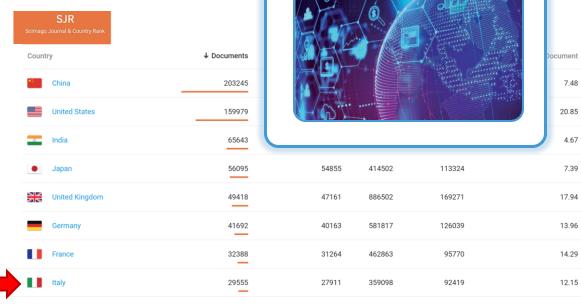
Ricerca

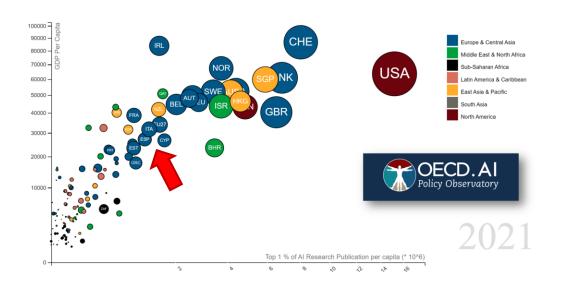


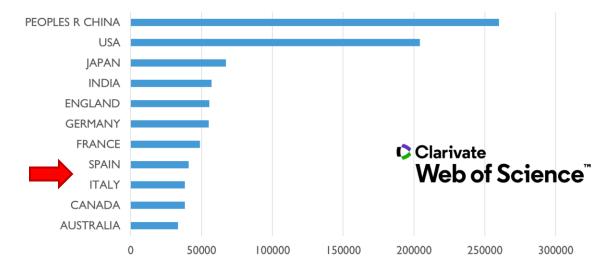
57,654 Total Authors End of 2019 52.69% Average Growth since 2007

Canada = Japan = Australia _____











Trasferimento Tecnologico





70 «Punti Impresa Digitale» - Camere di Commercio 20 Digital Innovation Hub (DIH) - Confindustria 8 Competence Centers - MISE European-DIH initiative



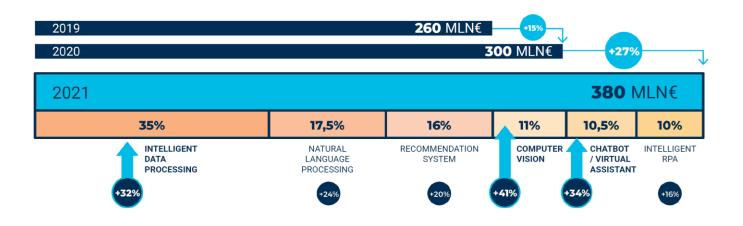








Industria





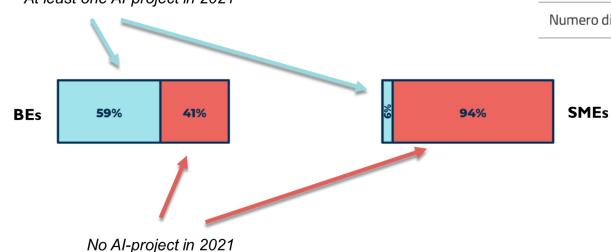








	Investimenti aziendali e risultati sull'IA				
	R&S industriale (€MIn, 2018)	74.162€	33.809 €	28.926 €	14.691€
At least one Al-project in 2021	R&S industriale (% del PIL, 2018)	2,23%	1,45%	1,22%	0,84%
Todat and the project in East	Numero di campioni digitali globali	8	7	33	0





SCHOOL OF MANAGEMENT
DIPARTIMENTO DI ELETTRONICA,
INFORMAZIONE E BIOINGEGNERIA



Osservatorio Artificial Intelligence

Ricerca 2021



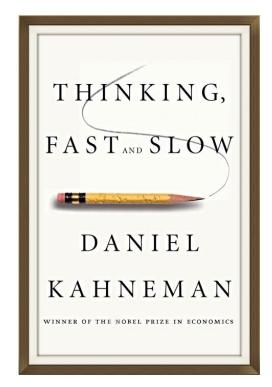
and a few final warnings...

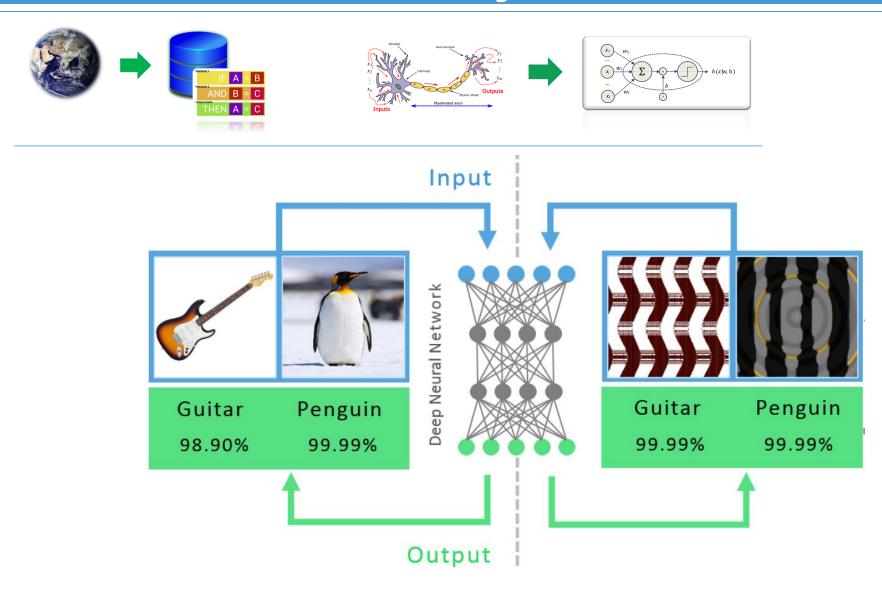
Artificial intelligence and its ecosystem

Gianluigi Greco – President of AlxIA



Trustworthy Al







Ai Act





Article 17 Quality management systems

1. Providers of high-risk Al systems shall put a quality management system in place that ensures compliance with this Regulation. [...]



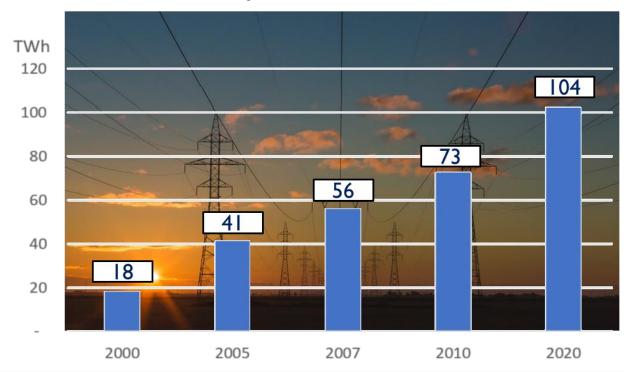
Article 10 Data and data governance

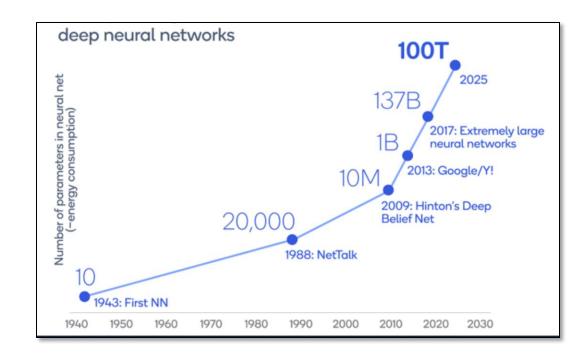
3. Training, validation and testing data sets shall be relevant, representative, free of errors and complete. They shall have the appropriate statistical properties, including, where applicable, as regards the persons or groups of persons on which the high-risk Al system is intended to be used. These characteristics of the data sets may be met at the level of individual data sets or a combination thereof.



Green Al

Power consumptions of the data centers in the EU





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Associazione Italiana per l'Intelligenza Artificiale

