Artificial Intelligence
Le opportunità nel contesto Europeo

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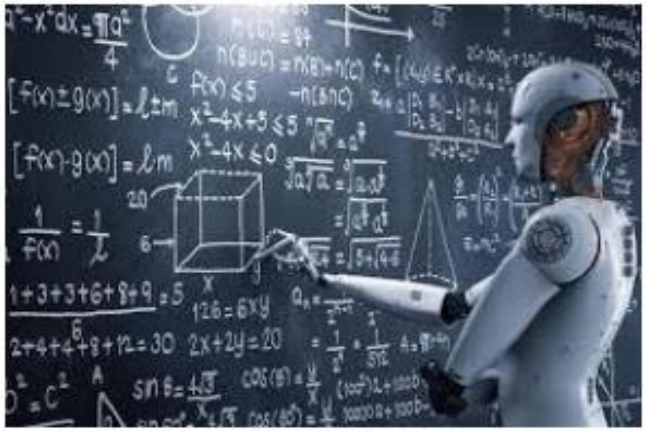
ARTIFICIAL INTELLIGENCE

AI is helping to solve some of the world's biggest challenges: from treating chronic diseases or reducing fatality rates in traffic accidents to fighting climate change or anticipating cybersecurity threats



Europe's private investments in AI totalled around €2.4-3.2 billion in 2016, compared with €6.5-9.7 billion in Asia and €12.1-18.6 billion in North America

EU Challenges in AI

- Staying at the forefront of in S&T
- Access to Data
- Inclusive: AI available/Usable for All
- Evolution of the Labour landscape & Skill gaps
- Acceptance/Ethical issues
- Safety/Liability issues

European policy evolution

10th April 2018
Signature of the Declaration of Cooperation on AI

25th April 2018
Publication of the COM 137 (2018) – Artificial Intelligence for Europe

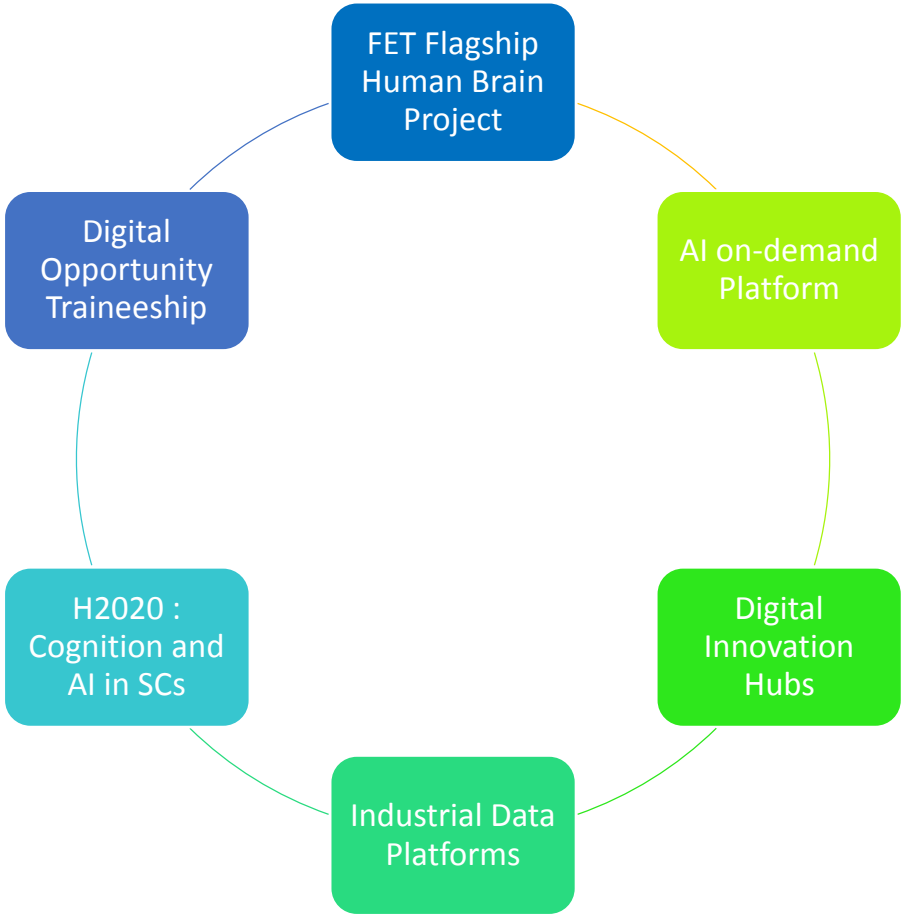
14th June 2018
Launch of the EU AI Alliance

27th June 2018
1st Meeting High Level Group on AI

27th - 28th September 2018
Council Meeting Competitiveness – Coordinated Action Plan on AI in early 2019

Le azioni fino ad oggi

€1.5 billion EC investments into AI in 2018-20
BY 70% INCREASE OF ANNUAL INVESTMENT



AI in H2020 «Three Pillars»

Excellent Science

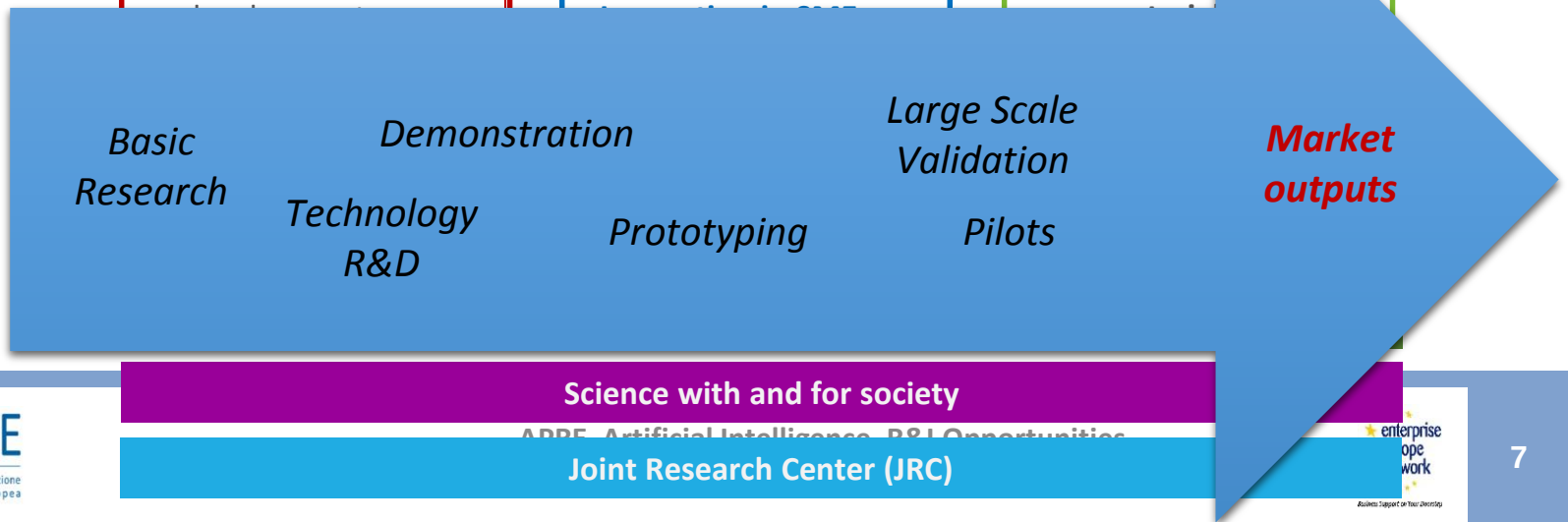
- **European Research Council**
  - Frontier research by the best individual teams
- **Future and Emerging Technologies**
  - Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie actions**
  - Opportunities for training and career

Industrial Technologies

- **Leadership in enabling and industrial technologies**
  - ICT, nanotechnologies, materials, biotechnology, manufacturing, space
- **Access to risk finance**
  - Leveraging private finance and venture capital for research and innovation

Societal Challenges

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research & the bioeconomy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated tr port**
- **Climate acti resource effi**



Science with and for society

Joint Research Center (JRC)

AI R&I in H2020

LEIT ICT

- **Robotics** (ICT 9/10)
- **Big Data and HPC**: Testbed and Data Economy (ICT 11/13)
- **NGI** (ICT 24)
- **Security and Resilience** in collaborative Manufacturing
- **Digital Platforms**

LEIT NMBP & SPACE

- **Systems for Flexible Materials** (DT FOF 12)
- **Techs for cognitive production plants** (DT SPIRE-06)
- **Nano-characterisation techs & Materials modelling** (DT NMBP 8/10)
- **EGNSS applications**

JOINT UNDERTAKINGS

- **ECSEL**
  -Implement AI and ML to detect similarities and anomalies
  -AI for precision medicine
- **IMI**
  -Big Data in oncology
  -Digital Health

AI R&I in H2020

Health

- AI after cancer treatments
- Ageing society
- Integrated Care Pilots
- Domotics

Food

- Aquaculture
- Agri-food systems and policies
- Food safety control across the value chain

Environment

- Earth observation for sustainable mining
- Well-being and health in cities

AI R&I in H2020

Transports

- Freight by water
- Drones
- Logistic solutions
- Interconnected transport

Security

- Techs for first responders
- Crime and terrorism
- Cybercrime
- Border and external solutions

Socio-economic

- Public services
- Big data for policy making
- EOC for public administration

Grazie per l'attenzione!

APRE

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