



RawMaterials Hub  
Regional Center Greece



HELLENIC REPUBLIC  
MINISTRY OF  
DEVELOPMENT AND INVESTMENTS

# Empowering Raw Materials Industry through Artificial Intelligence

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## The future of industry is digital

Like electricity in the past, Artificial Intelligence (AI) is transforming our world.

Progress in technologies such as big data, artificial intelligence and robotics, the Internet of Things and high performance computing is already **transforming** the very nature of **work** and **society as a whole**.



Artificial Intelligence is **opening massive business opportunities** and **transforming value chains**.

It is therefore at the core of the renewed EU Industrial Policy and the Digital Single Market strategy.



There are several major **advantages** for the adoption of artificial intelligence in business, including:

- **allowing for data-backed, informed decision-making**
- **enhancing** existing products/processes and **creating** new ones
- **increasing** the efficiency of internal processes
- **optimizing** external operations
- proper **resources allocation** (freeing up staff from routine tasks)



The changes brought by AI also **raise concerns**. Workers **fear** they will lose their job because of automation, small companies **do not know** how to apply AI to their business, AI start-ups **do not find** the resources and talent they need in Europe, and international competition is fiercer than ever with massive investments in the US and China.



**The European strategy places people at the centre of the development of AI (human-centric AI). This strategy supports an ethical, secure and cutting-edge AI.**

Three pillars:

- 1) **increasing** public and private investments in AI,
- 2) **preparing** for socio-economic changes,
- 3 and **ensuring** an appropriate ethical and legal framework.

Rapid technological progress means that the **world of work** will be significantly transformed, sooner rather than later.

In particular, technological changes will modify the **skills** required of workers, meaning that potentially very large numbers of workers will need to up-skill.

Thus, more focus needs to be put on **life-long learning**.



**European Digital Innovation Hubs (EDIH)** will stimulate the broad uptake of AI, HPC and Cybersecurity as well as other digital technologies by industry

One-stop shops providing access to technical Expertise and experimentation **“test before invest”**

Training and skills development





**Digital Europe programme:** investments in digital capacities

**Horizon Europe programme:** Framework programme for Research and Innovation

**European Regional Development Funds (ERDF) post-2020:** support the construction and upgrading of hubs

**InvestEU Programme:** builds on the Investment Plan for Europe, the Juncker Plan.

**Several National Initiatives** covering a wide range of digital transformation technologies.



# ERA-MIN2 Joint Call 2019 RAW MATERIALS FOR SUSTAINABLE DEVELOPMENT AND THE CIRCULAR ECONOMY

28 November 2019 Call for proposals opens

**12 March 2020 Call for proposals ends**

30 June 2020 Communication of Call results

1 December 2020 Latest date for project start



## Five main topics:

- Supply of raw materials from exploration and mining
- Design
- Processing, Production and Remanufacturing
- Recycling and Re-use of End-of-Life Products
- Cross-cutting topics

<https://www.era-min.eu/node/486>

## Concluding Remarks

AI is a tool – although a highly sophisticated one.

But like any tool, AI still needs human interaction to function.

Let's reap the benefits of AI!



# Thank you for your attention!

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