



# Horizon Europe

Call HORIZON-CL4-2022-DATA-01

Topic presentation HORIZON-CL4-2022-DATA-01-05

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# Basic characteristics of topic

HORIZON-CL4-2022-DATA-01-05: Extreme data mining, aggregation and analytics technologies and solutions.

<b>Specific conditions</b>	none
<b>Expected EU contribution per project</b>	5 MEUR (indicative)
<b>Indicative topic budget</b>	30 MEUR
<b>Type of Action</b>	Research and Innovation Action (RIA)
<b>Technology Readiness Level</b>	Start at TRL 3, achieve TRL 5 by the end of the project – see General Annex B.

## HORIZON-CL4-2022-DATA-01-05: overall context

Destination 3 – World leading data and computing technologies

Under heading “Strengthening Europe’s data analytics capacity”

Revisiting data mining in a new context (data for AI, data for human use)

Pushing the limits, aiming to refine “extreme” (huge, sparse, noisy, difficult) real-world data efficiently and transparently for final use by AI systems and/or people

## HORIZON-CL4-2022-DATA-01-05: Expected Outcome

Project results are expected to contribute to the following expected outcomes:

- provide better technologies, tools and solutions for **data mining** (searching and processing) of large, constantly growing amounts and varieties of data, and/or extremely **sparse/dispersed/heterogeneous/multilingual** data (stored centrally or in distributed/decentralized systems), in particular **IoT, industrial, business, administrative, environmental, scientific or societal** data.

## HORIZON-CL4-2022-DATA-01-05: Scope

The actions under this topic are expected to:

- provide ground-breaking advances in the **performance, speed and/or accuracy** as well as usefulness of data discovery, collection, mining, filtering and processing in view of coping with “**extreme data**”.
- discover and distil **meaningful, reliable and useful** data from heterogeneous and **dispersed/scarce** sources and deliver it to the requesting application/user with minimal delay and in the appropriate format.
- enable the development of **trustworthy, accurate, green and fair** AI systems where **quality** of data is as important as quantity and/or support industrial **distributed decision-making** tasks at appropriate level in the computing continuum (edge/fog/cloud).

## Links HORIZON-CL4-2022-DATA-01-05

Actions are further expected to:

- Integrate relevant technologies (big data, AI, IoT, HPC, edge/fog/cloud computing, language technologies, cybersecurity, telecommunications, autonomous systems etc.)
- foster links to the respective research, industrial and user/innovator communities (e.g. AI4EU, digital innovation hubs).
- use of European data sources (such as Copernicus, Galileo/EGNOS for satellite data) is encouraged in the use cases, where appropriate.

# Thank you



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