

# Horizon Europe 2022

## Call factsheet



### Methods for exploiting data and knowledge for extremely precise outcomes (analysis, prediction, decision support), reducing complexity and presenting insights in an understandable way (RIA)

The actions under this topic are expected to exploit “extreme data”; complexity/diversity/multilinguality of data; the dispersed data sources; sparse/missing/insufficient data/extreme variations in values) to push the frontiers of analytics, prediction, simulation and visualisation to provide extremely precise, timely and useful results from data and knowledge, to support (human or automated) decision-making, saving lives or otherwise providing great positive impact (economic, societal, environmental) compared to traditional methods of decision making.

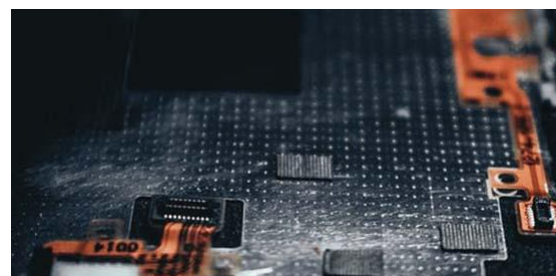
#### Scope:

The integrity and ethical aspects of the outcomes should be in line with the principles of responsible/trustworthy AI. The use of European data sources (such as Copernicus, Galileo/EGNOS for satellite data) is encouraged in the use cases, where appropriate. Analytics should be transparent, trustworthy, flexible, fit for the purpose and user needs, intuitive, and (when necessary) provided as efficient and scalable “Analytics-as-a-Service”, including, where appropriate, federated analytics on distributed/decentralized data. Prediction should be extremely precise and/or span over a longer time period and/or account for uncertainty factors. Simulation should allow precise replication and modeling of the real phenomenon or system (generating accurate synthetic data, when appropriate), with minimal differences and/or minimize the footprint/cost of the simulation model while generating useful data (considering context), exploiting augmented reality when appropriate. Visualisation should be interactive (and facilitate human interaction and collaboration), intuitive, accessible and allow people (with different needs, interests, and backgrounds) to understand complex phenomena by a smart selection of parameters, the anticipation of user needs/interest and by novel ways of combining visual and non-visual elements and/or augmented reality.

#### Topics:

Improving automated ways for extracting meaning and providing insights from data extremely fast and/or accurately in order to optimize decision making (ranging from crisis/emergency management to predictive maintenance) or action planning, as well as demonstrating how these improvements can have great positive impacts for society, people, economy, or the environment.

Call overview, Produced 05/10/2021. Visit our website [www.opencalls.space](http://www.opencalls.space)



Horizon Europe

**The indicative budget for this category is EUR 32.50 (Million).**

#### Reference:

**HORIZON-CL4-2022-DATA-01-01**

Research and Innovation

Opening: 23 Nov 2021

Deadline: 05 Apr 2022

#### Countries



all

#### Technology



Copernicus, Galileo/EGNOS

#### Activities



Improve extreme data management

#### Contact



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