



General information

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Targetted topics: (maximum 3)

HORIZON-CL4-2024-HUMAN-03-01 : Advancing Large AI Models: Integration of New Data Modalities and Expansion of Capabilities

(HORIZON-CL4-2024-HUMAN-03-02 : Explainable and Robust AI)

SYENSQO – Top-tier specialty player



MARKET POSITION

MATERIALS	#1	High-performance polymers Leading position in thermoplastic composites <i>Battery Materials, Thermoplastic composites, Green Hydrogen, Renewable materials & Biotechnology</i>
	#2	Materials for civil aerospace
	#1	Materials for defense
CONSUMER & RESOURCES	#2	Specialty surfactants and polymers
	#1	Flavors & Fragrances; Natural Vanillin
	#1	Mining reagents
	#1	Biocides for recycled water



Competencies

1. What we may bring to the project(s) ?

- use case (chemistry / specialty materials)
- raw data with many modalities, mainly non-textual data (e.g. experimental data : process data + analytical/characterization data (new types of IR, NMR, photo, etc. ; public/bibliographic data ; safety data)

2. What we expect from the project ?

- Obtain a better process and better product.
- Security and privacy of data are critical (IP).

3. How ?

- Extension of the applicability of LLMs to chemistry, materials
- Data collection (from lot/sensors ...)
- Valorization of collected data with AI : complex analysis and interpretation of experimental data (e.g. new types of IR, NMR, photo, process data, etc.) coupled with pre-existing experimental data / bibliography. *Analysis is currently performed thanks to understanding related to researcher training and know-how in chemistry.*
- safety is key (chemical properties).