General information

Organisation name : *GEOLSemantics*
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Targetted topics: (maximum 3)

☐ **HORIZON-CL4-2021-DATA-2022-01-05** Extreme data mining, aggregation and analytics technologies and solutions

☐ **HORIZON-CL4-2022-DATA-01-01** Methods for exploiting data and knowledge for extremely precise outcomes (analysis, prediction, decision support), reducing complexity and presenting insights in understandable way

☐ **HORIZON-CL4-2021-HUMAN-01-27** AI to fight disinformation

Competencies

Technology solutions publisher for textual data comprehension, our mission is to extract relevant data in order to structure them according to your needs. The solution combines several technologies such as NLP and AI for industry, smart cities and digital purposes. Applicable solution to all kind of sources (traditional media, social networks, documents, blogs, speech transcription) and formats. Our main competences focus on information superiority around national projects in which we participated to extract and understand information into structured data, to localize events in time and space, to generate alerts with data visualization and events summary as well as an interlingual information system.

1. The skills the organisation bring to the projects

2. ☐ Transform textual information into « structured data » with events geo-chronolocated (ex: smart city,

3. ☐ Generate alerts through identified events related to people or organizations to customize according to user's needs

4. ☐ Extract information from identified events and geo-chronolocate these events by giving GIS coordinates

5. ☐ Gather information corresponding to the same event by enriching new relevant informations details

6. ☐ Deep interlingual comprehension by connecting agents, actions, objects, means, locations, dates, circumstances, etc.

7. ☐ Text comprehension of multilingual textual data with graphic abstract in your own language

8. ☐ Textual data system which allows queries in natural language on various languages with explanation of the relevance of the search result in the user language

3 EXAMPLES OF RESULTS

GEOL Semantics Intelligence

horizon europe pcp

1 Geo-Chronolocated Event

Tweet:
Le Prochain Nissapero sera donc demain soir au Bateleur dans le #VieuxNice
Date d'émission : 23-07-2019 16:04:02

GEOL Semantics Intelligence

Résultats des analyses		Interface applicative
Concepts	**Données structurées**	
Evènement	Type: *organisation de fête* Nom: **Nissapéro**	*Organisation de fête* (Nissapéro)
Dates	*Début:* **2019-07-24** *Fin:* **2019-07-24**	Le 24-07-2019 entre 17:00:00 et 23:59:59
Heures	*Début:* **17:00:00** *Fin:* **23:59:59**	
Lieu	Nom: **Le Bateleur** *Latitude:* **43,6953725** *Longitude:* **7,275844199**	

DONNÉES

2 Interlingual Search Engine

GEOL SEARCH

Example of Arabic, English & French documents identified in response to a French query.

3 Semantic Understanding with Results Presentation in the User's Language

...اقترنت مليكة العروض بالاخ معز غرسلاوي وانتقلت العروض إلى سويسرا
.اعتقلت الاخت العروض من طرف الشرطة البلجيكية في 11 ديسمبر 2008 في بلجيكا

LE RÉSULTAT

Union / Mariage — Déplacement — Arrestation

deuxième partenaire | premier partenaire | lieu d'arrivée | Personne ou objet deplacé | est arrêté | agent de police | date ponctuelle | action-place

Personne: معز غرسلاوي **Moez Garsalloui**
Lieu: سويسرا **Suisse**
Personne: مليكة العروض **Malika al-Aroud**
Agent: الشرطة **Police**
Date: 2008-12-11
Lieu: بلجيكا **Belgique**