Disruptive technologies and regional innovation in order to promote public information access, transparency and good government. Looking for work proposals on this topic

Project summary

The project consists of the digitization of documentation, the extraction and offer public acces to structured data of the documentary fund from regional and local public authorities, as well as other institutions and non-profit entities through the use of "artificial intelligence" and other disruptive technology.

The ultimate goal is multiple:

• Make available to companies and general public free and up-to-date access to public information of any period that can be interest to them.

• Provide quality and useful information in order to develop the productive map and improve people's lifes.

• Provide the territory and regional responsibles and technicians with the necessary tools to deal with and make use of this documentation.

• Reach a solution to generate new documentation with similar standards.

The idea of the project could be related to the political objectives of InterrEg Europe:

1. Intelligent Europe. Sub-objective

a. Digitization for citizens, companies, research organizations and public administrations. In addition, the idea is part of the European Commission's flagship initiative "Shaping Europe's digital future".

We are looking for partners who are working on the same topics or sharing a similar proposal.

What political instruments does the project adress?

Local or regional public administrations should contribute to improving transparency, good governance and access to public information by ensuring the digitization and modernization of technology, as well as helping to create knowledge. In this way, the promotion of artificial intelligence and other disruptive technologies, such as process improvement, will promote the provision of quality services to citizens.

The aim is provide citizens with structured access to data that allows information exploitation contexts, but at the same time making available the original documents from which the content of the structured information in the data base has been extracted. Companies, research teams and entities, with the processing of this data and the resulting datasets must be able to develop new products and services that provide value, innovation, knowledge and business opportunities, but also transparency and evaluation of government.

In the case of the Diputació de Barcelona, the political instrument on which it is initially intended to act is the Official Gazette of the Province of Barcelona (BOPB), to replicate the actions to other management instruments such as decrees, the minutes of political sessions, public agreements and other similar document sets.

Research actions:

• Unstructured data processing, mainly image input and text extraction from these sources

• Provision of automated classification and document management algorithms.

o At this point it would be a question of looking for pre-trained models to solve two main challenges: classification and text synthesis.

• Ability to generate titles or summaries of documents available to the corporation without human intervention.

o At this point is the use of state-of-the-art artificial intelligence technologies specializing in natural language processing and text analysis called Transformers considered.

• Other innovative aspects arising from previous experiences.