

## Evaluation of Central Greece LEADER Rural Development Programme 2007-2013: Text Mining results

### Sources

The created Reading List (**Central Greece Leader Programme-RL**) contains 28 sources addressing LEADER-Rural Development Programme (RDP) 2007–2013 and Measure 41 (M41). It includes scientific documents, related sources and policy reports.

### Results

With polarity set to “Topics” and two active filters (English and Greek language), the reading list provided the following results with the top topics being shown in the figure below.



Figure 1. Polarity Scope of Topics a) in Greek language, b) in English language

It's interesting that in all cases the sentiment ranges from neutral to positive, but in the case of top 3 categories (rural development, rural area, development region) there appears to be a higher proportion of negative polarity. The topics that are included in the first chart are general and refer to regional development (economic, technological, urban, social). In the English language the topics of research have the most positive sentiment, while topics like region, comparison and indicator have the

highest proportion of negative sentiment. The most common topics are rural and local development.

With polarity set to “Keywords” and two active filters (English and Greek language), the reading list provided the following top Keywords. The keywords in the Greek language were referring mainly to regions, and so didn’t provide much insight. The top 2 keywords are rural development and Rural Development Program (RDP-ΠΑΑ). When looking at the English language, the LEADER keyword ranked second with positive polarity, while the sentiment is mainly positive for the majority of keywords.



Figure 2. Polarity Scope of Topics a) in Greek language, b) in English language

**Named entity**

In the case of PERSON named entities the results didn’t show particular person names. The majority of named entities were general (e.g. axis-άξονας, χρηματοδότηση) but we found a few positive remarks.

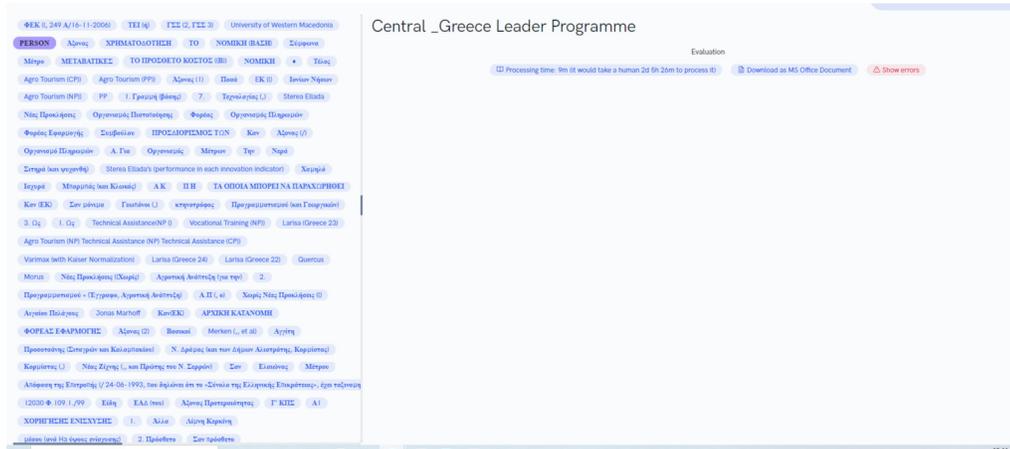


Figure 2. Named PERSON entities

Semex deemed the following to be the most positive quotes:

- **0.6249** It can be concluded from this study that what should be promoted in Greece is sustainable, viable and balanced, environmental protection along with establishing appropriate land use planning in rural areas so as to bring long-term economic growth. The new Programming Period for rural development and the new Common Agricultural Policy (CAP) can be regarded as the most important pillars in overcoming the economic crisis and creating a sustainable growth path besides shielding the economy of Greece (topic- **rural development (300 occurrences)**).
- **0.9744** In LEADER, local and regional vitality is promoted on the basis of the ideas and needs of the inhabitants. The sophistication of the action is that the development combines the competence and the place-based expertise of local residents. As a special feature, the non-profit, common-good viewpoint encourages to openness and to wider collaboration between different local actors (topic- **local development (106 occurrences)**).
- **0.7659** The significant difference observed in favor of business is mainly due to the concentration of large production units with research activity in the region, a fact which is considered a strong point and actually promising for research capability of the region as a whole. (topic- **research**).

### Conclusion

Polarity scores were provided separately for topics and keywords and the results obtained both at Greek and English language. In the English language the top topic and keyword results were more relevant, focused and useful than the outcomes in the Greek language, especially in the case of keywords. The results of the named PERSON entities were less insightful. In general, the analysis showed the positive sentiments for research activities and the Leader programme. However the limited

evaluation sources of the measure may have affected the outcome of the analysis especially in the Greek language. Overall, text mining can be a useful tool as long as there are a lot sources and preferably in English language.