



# LINGUATEC: Development of cross-border cooperation and LINGUATEC: Development of cross-border cooperation and knowledge transfer in language technologie

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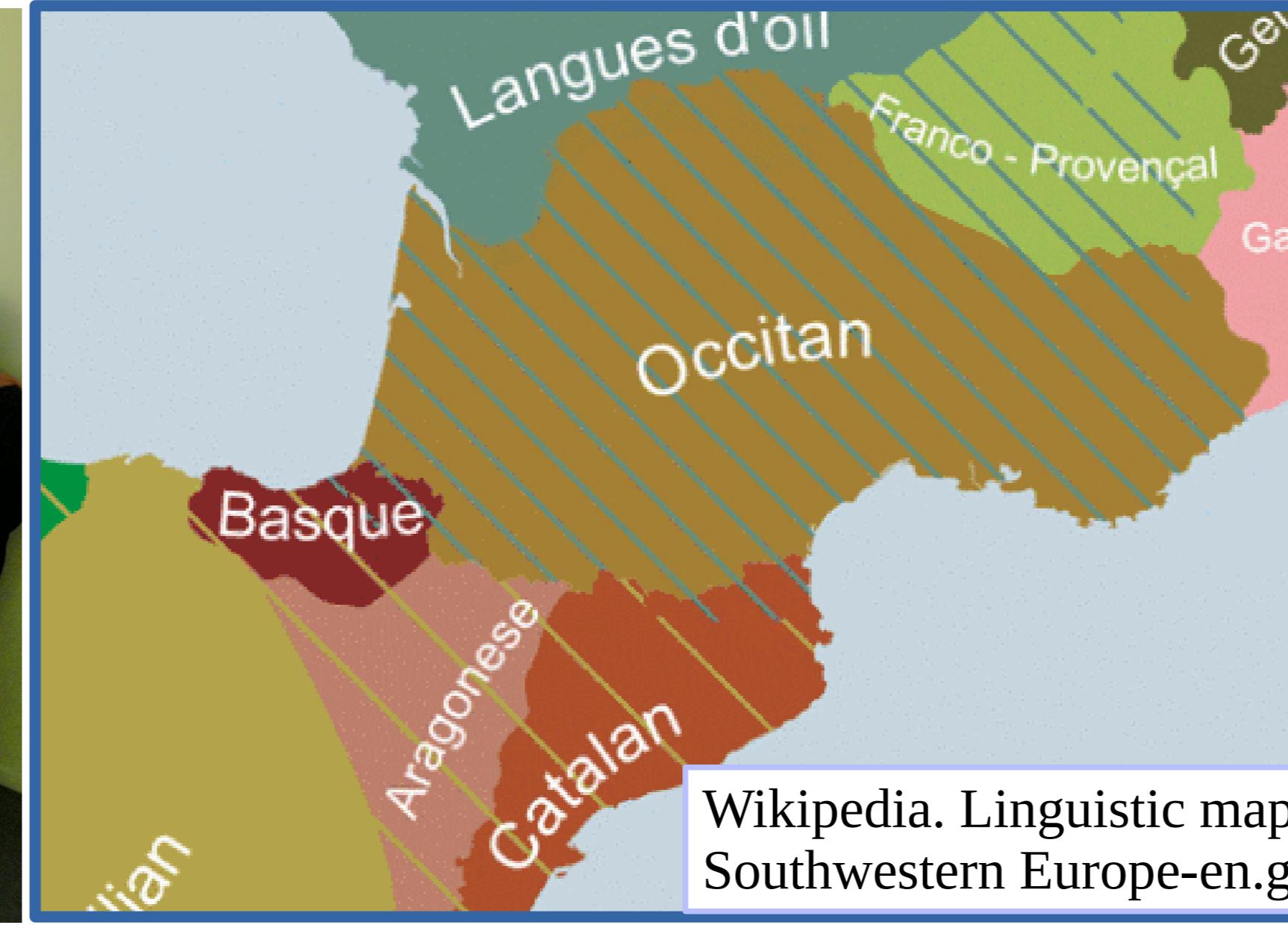
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### IDIOMAS Y PARTICIPANTES

#### Elhuyar Foundation(coordinator)

Non-profit foundation.  
Basque in specialized fields (journal, research books, dictionaries...).  
Research and NLP applications



#### LO CONGRÈS (Pau)

Regulating agency for Occitan.  
Computer tools (lexicography, lexicology, terminologiy, neology, phonology, ortography, grammar and toponymy).

#### CNRS (Toulouse)

Midi-Pyrenees Regional Delegation.  
Linguistics and NLP for Occitan and French.  
Building resources for Occitan language.

#### Aragón Turismo (Zaragoza)

Tourism Promotion and Management Society  
Entity in charge of the Aragonese language.  
Collaboration with the Aragonese  
Technological Institute (ITA)

#### Euskaltzaindia – Acad. of Basque Language

Language resources and consultation service on Euskara in the north of the Basque Country

#### IXA taldea – Univ. of the Basque Country

Advice/experience of 30 years in NLP  
Improved Spanish-Basque translation  
Translation system for Basque-French.

### RESOURCES TO BE CREATED

#### BASQUE

- Speech recognition: word recognition and classification
- Speech synthesis in Northern Basque .
- Improved translation of the Spanish-Basque pair
- Interactive digital tool on the rules of Basque Language Academy (Northern dialects).

#### ARAGONESE

- Speech synthesis in Aragonese.
- Improved machine translation in Spanish-Aragonese
- Online dictionary of Aragonese

#### OCCITAN

- Monolingual Occitan lexicon with flexed forms
- Bilingual lexicon with common words in other languages
- Morphosyntactic analysis and corpus construction
- Parsing and dependency corpus
- Speech synthesis for mobile devices
- Occitan Text Detector
- Text detector of text in Occitan variants
- Improved French-Occitan machine translation

### APPLICATIONS TO BE CREATED

Applications to facilitate interoperability between the languages of the Pyrenees.

Planned applications and responsible partner:

#### - LO CONGRES

Downloadable translation bar for Websites

#### - ELHUYAR

MT application for CMS

#### - ELHUYAR

Translation app between the languages of the Pyrenees:

Basque-French, Basque Spanish,  
French-Occitan and Spanish-Aragonese

#### - EUSKALTZAINDIA

Handbook of the Unified Basque.  
"Euskara Eskuz Esku Digitala".

#### - TURISMO DE ARAGÓN

On-line dictionary of Aragonese.

#### - LO CONGRÈS

Multilingual Semantic Search Engine.  
Measuring the vitality of Occitan, Basque and Aragonese

### Information and contact

- > <https://linguatec-poctefa.eu/proyecto/>
- > [j.aztiria@elhuyar.eus](mailto:j.aztiria@elhuyar.eus)