

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

Kepa Sarasola, Jean-Baptiste Coyos

► **To cite this version:**

Kepa Sarasola, Jean-Baptiste Coyos. LINGUATEC: Development of cross-border cooperation and LINGUATEC: Development of cross-border cooperation and knowledge transfer in language technologie. Nexus Linguarum Cost Action 1rst planary meeting, 2020, Praga, Czech Republic. artxibo-02494780

HAL Id: artxibo-02494780

<https://artxiker.ccsd.cnrs.fr/artxibo-02494780>

Submitted on 29 Feb 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

LINGUATEC (2018-2020)

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

Itziar Aldabe, Josu Aztiria, Francho Beltrán, Myriam Bras, Klara Ceberio, Itziar Cortes, Benaset Dazeas, Erramun Osa, Kepa Sarasola, Aure Séguier, Jean Sibille, Joseba Zabaleta

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, terminology, neology, phonology, orthography, 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.

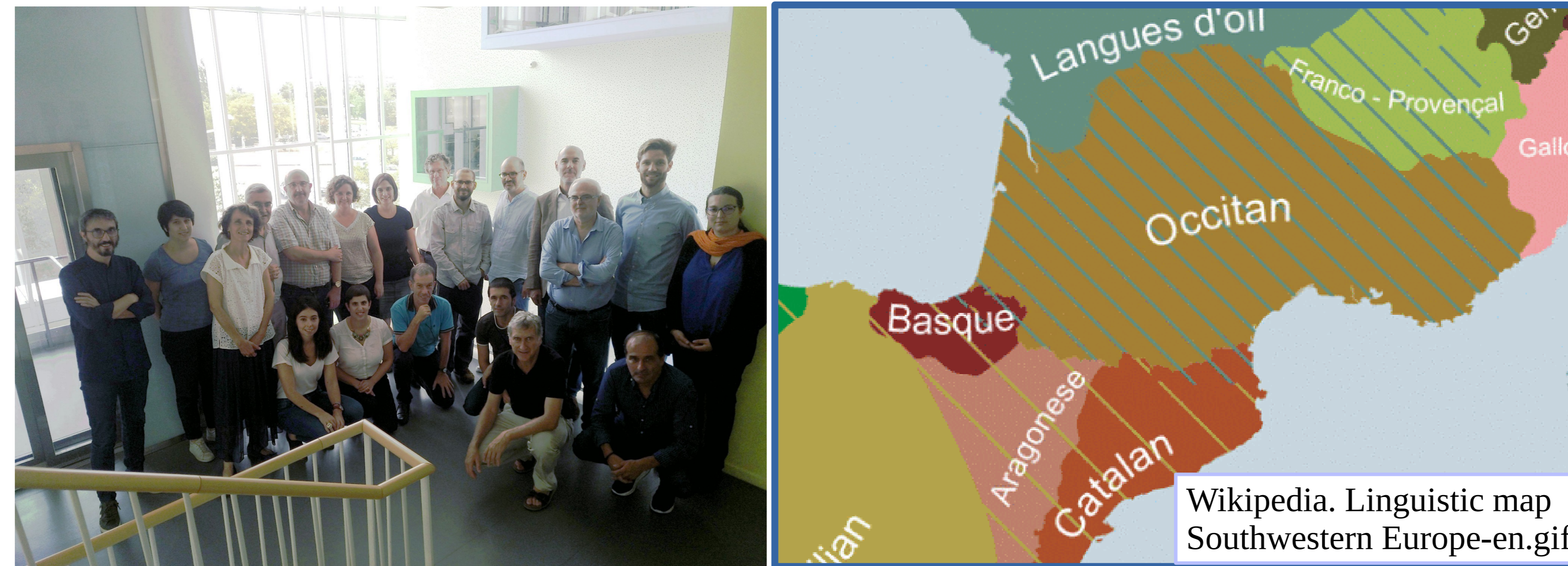
Collaboration with the Aragonese
Technological Institute (ITA)

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.



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

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

Information and contact

> <https://linguatec-poctefa.eu/proyecto/>

> j.aztiria@elhuyar.eus