

OPEN FRAMEWORK OF E-SERVICES FOR MULTILINGUAL AND SEMANTIC ENRICHMENT OF DIGITAL CONTENT

1. OBJECTIVE

FREME will build an open innovative commercial-grade framework of e-services for multilingual and semantic enrichment of digital content. By digital content we understand any type of content that exists in a digital form (text, video, audio, image, and others) and that is stored in structured or unstructured, standardised or proprietary formats. The e-services provided by FREME will be capable to process (harvest and analyse) content, capture datasets, and add value throughout content and data value chains across sectors, countries, and languages.

2. BUSINESS CASES

The FREME e-services will be designed on the requirements provided by four business cases:

- **digital publishing**, integrating enrichment into publishing workflows with open digital content formats
- **translation and localisation**, localising intelligent content with increased discovery and multimedia integration
- **agricultural & food domain data management**, enhancing the cross language sharing and access to open agricultural and food data
- **personalisation**, providing multilingual and personalised Web content recommendations

FREME will address challenges in and across these business cases, driven by the FREME industry partners.

COORDINATOR

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ORGANISATION



GERMAN RESEARCH CENTER FOR
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PROJECT SETUP



DURATION: 24 MONTHS



START DATE: 1ST FEBRUARY 2015
END DATE: 31ST JANUARY 2017



PROJECT OFFICER:
ALEKSANDRA WESOLOWSKA



PROJECT 644771, INNOVATION
ACTION, HORIZON 2020

3. E-SERVICES

The FREME framework for multilingual and semantic enrichment will integrate the following e-services based on existing and mature technologies:

- **e-Internationalisation**, to provide metadata for multilingual digital content enrichment. It is based on Internationalisation Tag Set (ITS) version 2.0.
- **e-Link**, to enrich content with additional information from Linked Data. It is based on the Natural Language Processing Interchange Format (NIF), the DBpedia Ontology and RDF.
- **e-Entity**, to recognise, link and classify entities in multilingual texts. It is based on entity recognition software and existing linked entity datasets from Linked Data and Open Data.
- **e-Terminology**, to identify terms for providing domain information and translation suggestion. It is based on cloud terminology services for terminology management and terminology annotation web services.
- **e-Translation**, to translate content from a source language to a target language. It is based on cloud machine translation services for building custom machine translation systems.
- **e-Publishing** to package and export content in the open EPUB3 format, and improve discoverability. It is based on cloud content authoring environment and its export for publishing in standardised Electronic Publication (EPUB3) format.

4. EXPECTED RESULTS

FREME will enhance access to public and private sector open data resulting in hundreds of multilingual applications, reusing tens of billions of open data records used by millions of European citizens.

FREME will be the basis for viable cross-border, cross-lingual and cross-sector data supply chains involving hundreds of European actors.

FREME will provide tens of business-ready innovative data analytics solutions deployed by European companies in global markets.

HOW TO CONTRIBUTE AND HOW TO BE INFORMED ABOUT FREME

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Send an e-mail to: info@freme-project.eu

or subscribe at: www.freme-project.eu/contacts/get-involved for gathering anonymous feedback and for getting more information

W3C LD4LC Community Group
www.w3.org/community/ld4lt



WEBSITE & SOCIAL NETWORKS



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