





The European Language Equality Project

Prof. Andy Way, project coordinator ADAPT Centre, School of Computing, DCU, Dublin

Presented by Jan Hajič, Charles University, Prague, META-NET Chair Czech-Slovak ELG NCC Workshop, online, Mon 18th October, 2021





HOST INSTITUTION





HOST INSTITUTION



University College Dublin An Coláiste Ollscoile, Baile Átha Cliath Ireland's Global University





OÉ Gaillimh NUI Galway















Consortium: 52 partners from all over Europe

Coordinator: ADAPT Centre (DCU)

Objective: development of a strategic research, innovation and deployment agenda and a roadmap to achieve digital language equality in Europe by 2030 **Runtime:** 18 months – ELE and ELG will

both end in June 2022

Start Date: 1st January 2021



EP Resolution "Language equality in the digital age" P8_TA(2018)0332 – partially based on the STOA study

Voting (11 Sept. 2018): **592 yes** – 45 no

Engaging Content Engaging People

Selected Recommendations addressed by ELE:

25. Establish a large-scale, long-term coordinated funding programme for research, development and innovation

in the field of language technologies, at European, national and regional levels, tailored specifically to Europe's needs and demands

Context: "Language Equality" EP Resolution

- 29. Create a European LT platform for sharing of services
- 27. Europe has to secure its leadership in language-centric AI

Europe	æn Parliament				
2014-2019	9				
TEXTS ADOPTED Provisional edition					
P8 TA	-PROV(2018)0332				
-	age equality in the digital age				
	an Parliament resolution of 11 September ge (2018/2028(I NI))	2018 on language equality in the			
The Euro	opean Parliament,				
	ng regard to Articles 2 and 3(3) of the Treaty n (TFEU),	on the Functioning of the European			
	ng regard to Articles 21(1) and 22 of the Cha pean Union,	rter of Fundamental Rights of the			
	g regard to the 2003 UNESCO Convention aral Heritage,	for the Safeguarding of the Intangible			
	g regard to Directive 2003/98/EC of the Eurovember 2003 on the re-use of public sector				
	ng regard to Directive 2013/37/EU of the Eur ne 2013 amending Directive 2003/98/EC on				
of 25 comn	g regard to Decision (EU) 2015/2240 of the November 2015 establishing a programme (non frameworks for European public admini amme) as a means for modemising the publi	on interoperability solutions and strations, businesses and citizens (ISA2			
	g regard to the Council resolution of 21 Nov lingualism (2008/C 320/01) ⁴ ,	rember 2008 on a European strategy for			
	or regard to the Council decision of 2 Decor	ber 2013 establishing the specific			

- OJ L 175, 27.6.2013, p. 1
- OJ L 318, 4.12.2015, p. 1.







Engaging Content

Engaging People

European Language Equality: Roots

STRATEGIC RESEARCH AGENDA FOR MULTIUNGUA EUROPE 2020

META FORUM 2012

Conference "A Strategy for Multilingual Europe"

Release of 32 volumes on 31 languages, revealing

that there is a severe threat of digital extinction

(December 2013)

META-SHARE

services

Europe 2020

Horizons"

META-FORUM 2013

META-FORUM 2012

(Brussels - June 20/21, 2012)

for at least 21 European languages

META-NET White Papers

(December 2012)

META

"State of the Art of Machine Translation -

Workshop on "State of the Art of Machine

Current Challenges and Future Opportunities"

Translation", commissioned by the EU Parliament

Initiated in 2013, META-SHARE has functioned as

an open and secure network of repositories for

sharing and exchanging language data, tools and

Strategic Research Agenda for Multilingual

Launch of the Strategic Research Agenda for

Multilingual Europe 2020 (January 2013)

Conference "Connecting Europe for New

(Berlin - September 19/20, 2013)

META FORUM 2013

2013















Cracking the



EUROPEAN LANGUAGE

THE UNIVERSIT





GRID

2019-2021





SAILLABS

TECHNOLOGY

(Brussels - November 13/14, 2017) Strategic Research and Innovation Agenda

META FORUM 2017

"Language Equality in the Digital Age"

Workshop on "Language Equality in the Digital

Age", commissioned by the EU Parliament's

Science and Technology Options Assessment

Launch of the study on "Language equality in the

digital age: Towards a Human Language Project",

commissioned by the EU Parliament (March

Conference "Towards a Human Language

(V1.0) Launch of the Strategic Research and Innovation Agenda titled "Language Technologies for Multilingual Europe – Towards a Human Language Project" (December 2017)

2018

ELG Final Proposal Submission Final submission on Feb. 20, 2018



2016

2017)

Project"

META-FORUM 2017



META FORUM 2016



projects as well as all related community Committee (STOA) (January 2017) organisations working on multilingual "Language equality in the digital age: Towards a Human Language Project"

META-FORUM 2015

technologies

META FORUM 2015

CRACKER

Conference "Technologies for the Multilingual Digital Single Market" (Riga – April 27, 2015)

Strategic Agenda for the Multilingual Digital Single Market (Version 0.5)

EU-funded project CRACKER (Horizon2020)

Cracking the Language Barrier Federation

Founded in 2015, the federation has been

assembling European research and innovation

pushing towards an improvement of MT

research in terms of efficiency and effectiveness (2015 - 2017)

Launch of the Strategic Agenda for the Multilingual Digital Single Market titled "Technologies for Overcoming Language Barriers towards a truly integrated European Online Market" (April 2015)

Riga Summit on the Multilingual Digital Single Market

2014

Summit "Shape the future of the multilingual digital single market" (April 27-29,2015) 2015

Strategic Research and Innovation Agenda (Version 0.9) Launch of the Strategic Research and Innovation Agenda titled "Language as a Data Type and Key Challenge for Big Data" (July 2016)

META-FORUM 2016 Conference "Beyond Multilingual Europe" (Lisbon - July 4/5, 2016)









Programme) to enhance the European Linguistic Infrastructure (2011 - 2013)

2011

Programme) functioning as a part of META-NET to standardise language resources and tools (2011 - 2013)

META-FORUM 2011 Conference "Solutions for Multilingual Europe" (Budapest - June 27/28, 2011)



EU-funded (ICT PSP) Project to establish an open linguistic infrastructure in the Baltic and Nordic countries (2011 - 2013)

METANET4U METANET4U 💏 EU-funded project (ICT Policy Support



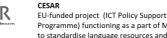
METANORD

T4ME

META

2010

ELG



META⁼ FORUM 2010

EU-funded project (Seventh Framework

Programme) working on technologies for the

Established in 2010. META-NET is a network of

of a multilingual European information society

META-NORD

"Challenges for Multilingual Europe"

Excellence consisting of 60 research centres from

34 countries, building the technological foundations

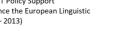
Multilingual European Information Society

T4ME

META-NET

META-FORUM 2010

(November 17/18, 2010)



2012







Draw up sustainable evidence-based **strategic research agenda** and **roadmap** setting out actions, processes, tools and actors to achieve full **digital language equality** of all languages (official or otherwise) used within the EU through the effective use of **Language Technology**.

1. Agenda

From current state of Language Technology to Digital Language Equality

2. Roadmap

Provide path for implementing the agenda by 2030

3. Dissemination: events, consultations, social media etc.





European Language Equality: Concept

- •Development of the
- •Input from all
- •Close co^µ
 - Integr and
 - Mak
- •Updat
- •Organisa
- •Large, all-en research and man, associations

ELE is *not* about implementation or research.

Rather, it is a preparation project to develop a convincing agenda and roadmap, endorsed by as many relevant stakeholders as possible, representing the whole field EUROPEAN LANGUAGE GRID

META=NET

in industry, works, initiatives and

admap





https://european-language-equality.eu/

EUROPEAN LANGUAGE EQUALITY

About Strategic Agenda Deliverables Events News Consortium Contact

📲 ELG

About European Language Equality

Twenty-four official languages and more than 60 regional and minority languages constitute the fabric of the EU's linguistic landscape. However, language barriers still hamper communication and the free flow of information across the EU. Multilingualism is a key cultural cornerstone of Europe and signifies what it means to be and to feel European. Many studies and resolutions, as noted in the recent EP resolution "Language equality in the digital age", have found a striking imbalance in terms of support through language technologies and issue a call to action.

This project answers this call and lays the foundations for a strategic agenda and roadmap for making digital language equality a reality in Europe by 2030. The primary goal of ELE is to prepare the European Language Equality Programme, in the form of a strategic research, innovation and implementation agenda and a roadmap for achieving full digital

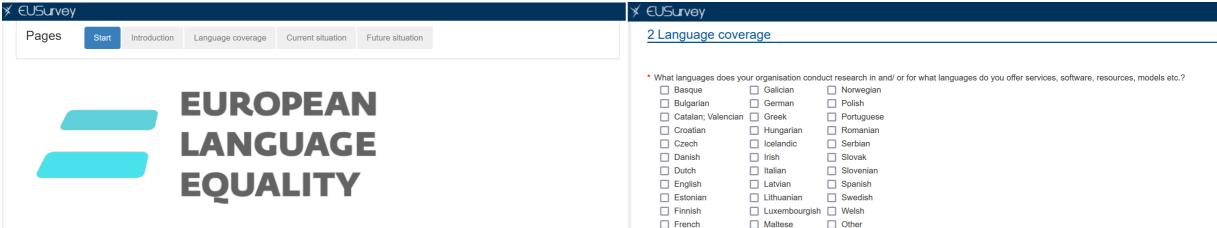
language equality in Europe by 2030. This programme will be prepared jointly with the whole European Language Technology, Computational Linguistics and languagecentric AI community, as well as with representatives of relevant initiatives and associations, language communities and RML groups. The consortium includes all relevant scientific and industrial stakeholders from all Member States and Associated Countries and engages them in the process. The whole community is included in the project through external consultation sessions. The project plan is fully optimised towards this key goal of preparing the strategic agenda and roadmap and of involving the whole European LT community.

Ensuring appropriate technology support for all European languages will create jobs, growth and opportunities in the digital single market. Equally crucial, overcoming language barriers in the digital environment is essential for an inclusive society and for providing unity in diversity for many years to come. The ELE project provides a roadmap and framework to achieve this.



Progress To Date: Surveys (Developers, Consumers)

Engaging Content Engaging People



About this questionnaire

This questionnaire is delivered by the European Language Equality (ELE) project, a pilot action that addresses an appeal by the European Parliament resolution "Language equality in the digital age". The primary goal of ELE is to prepare a Strategic Research and Innovation Agenda and Roadmap, in order to tackle the striking imbalance between European languages in terms of the support they receive through language technologies.

To this end, ELE is reaching out to the European stakeholders involved in Digital Language Equality through a series of consultation rounds. This questionnaire is specifically addressed to researchers and industry practitioners in the field of Language Technology (LT), Natural Language Processing (NLP), Speech Technologies and Language-centric AI.

The questionnaire takes approximately 20 minutes to fill in. You are requested to evaluate the current situation with respect to the level of LT support for European languages, to indicate challenges and to share your needs and expectations for the future.

Your contributions will be carefully taken into account when preparing the ELE strategic agenda and roadmap. This is a joint pan-European effort that will impact the field of LT in Europe for the next 10-15 years, including the funding situation. Join us and be a part of it!

Personal data protection

Personal data, i.e. name and email address, will be used **for contact purposes only** during the ELE project, i.e. to invite respondents to follow-up interviews or to the ELE conference or other project events. No personal data of the respondents will be made available to any third-party, beyond the ELE consortium. The names and emails of the respondents will not be reported in any project public document. The respondents' views and opinions, as expressed through this questionnaire, may be reported **anonymously** in the project's deliverables or in other public documents, e.g. scientific publications, dissemination material etc., without any reference to the individual's personally identifiable information.

Are there any languages that your organisation does not yet support, but you plan to support in the next three years?

Basque	Galician	Norwegian
🔲 Bulgarian	German	Polish
Catalan; Valencian	Greek	Portuguese
Croatian	Hungarian	Romanian
Czech	Icelandic	Serbian
Danish	Irish	Slovak
Dutch	Italian	Slovenian
English	Latvian	Spanish
Estonian	Lithuanian	Swedish
Finnish	Luxembourgish	Welsh
French	Maltese	Other

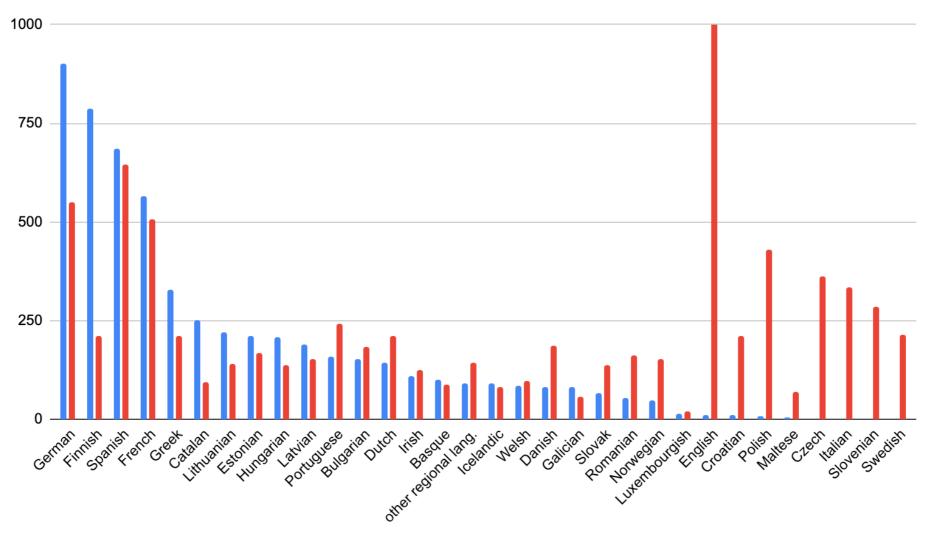
* Considering your development plans with respect to language coverage, what are the top three drivers for your decision to support additional languages? (a) at most 3 choice(s)

- Market interest/demand by users or customers
- Research/scientific interest
- Available funding/investment
- Availability of human experts for other languages
- Availability of language resources
- Availability of technologies/tools
- Other



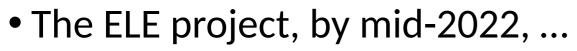
Progress To Date: LR Collection (Oct 15th)

discovered by ELE already in ELG









- ... will develop a Strategic Research, Innovation and Implementation Agenda and a Roadmap for achieving full Digital Language Equality in Europe by 2030
 - as a consortium of 52 partners covering all European countries and all major initiatives
- ... organize consultation events, roundtables, stakeholder meetings
- ... collaborate with its sister project ELG, ELG NCCs, META-NET members
 organize a joint META-FORUM 2022 in June 2022
- ... impacting future research in all aspects of Language Technology
- Closest event: META-FORUM 2021, Nov. 15-17 (online)
 - ... more information about projects, language technology, etc.







http://www.european-language-equality.eu