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### **List of Acronyms**

AI Artificial Intelligence

CCS Cultural and Creative Sectors

CULT European Parliament's Committee on Culture and Education

EC European Commission

ELE European Language Equality (this project)

EP European Parliament HLP Human Language Project

ITRE European Parliament's Committee on Industry, Research and Energy

MEP Member of the European Parliament
META Multilingual Europe Technology Alliance
META-NET EU Network of Excellence to foster META
STOA Science and Technology Options Assessment

TMNCL Intergroup for Traditional Minorities, National Communities and Lan-

guages

#### **Abstract**

A number of activities revolving around dissemination and communication, particulary related to the European Union, are addressed in WP4. The goal of the EP/EC workshop, as foreseen in the original ELE project proposal and grant agreement, was to present the main ELE results, especially the strategic research and innovation agenda and roadmap, and to discuss its concrete and sustainable implementation. The workshop, currently planned as a half-day workshop organised by the Science and Technology Options Assessment (STOA) unit, is targeted to take place in the second half of 2022 under the umbrella of the ELE follow-up project, ELE 2. Previous events, such as the STOA workshop in 2017, and ongoing network events have strengthened the ties to key stakeholders in the European Institutions and provided valuable experience for organising the upcoming workshop. While the workshop is targeted to take place later in 2022 it should also be noted that there has been continuous engagement with the EP/EC throughout the ELE project.

#### 1 Introduction

WP4 contains all activities related to communication, dissemination and awareness raising on the political level both in the European Institutions and in the Member States. Its main objective is to help the topic of digital language equality gain visibility and ensure sustainability for the project goals and developed strategic agenda in Europe. This is achieved by (1) following an effective strategy and plan to support all communication and dissemination activities in ELE, (2) helping to organise open consultations and dialogues (together with WP2 and WP5), (3) leveraging existing structures to reach related stakeholder groups, (4) organising one large conference, and smaller outreach events, and (5) producing a final book publication with the main results of the ELE project. In addition to the large conference, META-FORUM 2022¹, that took place on 8/9 June 2022, the consortium planned and organised a number of other smaller outreach events.

Deviating from the original plan, which had foreseen the EP/EC workshop to take place within ELE's project runtime, the workshop is targeted to take place in the second half of

https://www.european-language-grid.eu/meta-forum-2022/



2022 under the umbrella of ELE 2. This document outlines the steps and initiatives taken to initiate the workshop. We highlight important conclusions from previous related workshops and presentations that serve as valuable input for the upcoming workshop, which is foreseen to be organised as a half day event organised by the Science and Technology Options Assessment (STOA) unit.

### 2 Goals of the EP/EC Workshop

The European Institutions have emphasised the need to strengthen multilingualism through technological innovations (European Parliament, 2018). Based on the Language Technology community's achievements of the last decade, the ELE consortium is keen on initiating discussions with the European Parliament and the European Commission on how to address the results and strategic recommendations of the ELE project. The goal we associate with the planned workshop is to present the main ELE results, especially the strategic agenda and roadmap and to discuss its concrete and sustainable implementation. A number of reliable and sustainable contacts with both European Institutions have been established since the beginning of the META-NET initiative in 2010.

When drafting the ELE timeline in June/July 2020, the ELE consortium initially targeted the workshop to take place in month 15 of the project (April 2022). However, various circumstances did not allow us to adhere to this timeline. In early 2022, many of the still existing COVID-19 restrictions made it extremely difficult to plan in-person events, which is still the preferred mode of the consortium for this kind of event. Face-to-face interaction is essential to develop strategic partnerships and network on a deeper level. Even though the uncertainty around COVID-19 remains, especially now with case numbers that are rising once again, we hope to run this event non-virtual in the second half of 2022.

While the language technology topic continues to be important for the European Parliament, the war in Ukraine, including the EU's responses, currently overshadows nearly all other discussions. Additionally, more than one year after Brexit, there has been a restructuring within the wider community. Longstanding support from allies has undergone changes.<sup>2</sup>

The consortium has continued its networking activities and cultivated the relationship with different groups within the European Institutions. Of particular importance has been the work with the Parliamentary Committee on Culture and Education (CULT).<sup>3</sup> One of CULT's main responsibilities lies in the protection and promotion of cultural and linguistic diversity. There have also been links to activities of the Committee on Industry, Research and Energy (ITRE).<sup>4</sup> And, the consortium has established ties with the Intergroup for Traditional Minorities, National Communities and Languages (TMNCL)<sup>5</sup> that serves as a meeting point for political groups, European institutions, non-governmental organisations and minority representatives.

We would like to express our gratitude to Jill Evans who served as a Member of the European Parliament (MEP) for Wales from 1999 to 2020. She was the first person to use the Welsh language in debate at the European Parliament and has been vocal in supporting the struggles of minority languages and the importance of multilingualism. Jill Evans led the work that resulted in the 2018 EP resolution (European Parliament, 2018).

<sup>&</sup>lt;sup>3</sup> https://www.europarl.europa.eu/committees/en/cult/home/

<sup>4</sup> https://www.europarl.europa.eu/committees/en/itre/home/highlights

https://www.europarl.europa.eu/about-parliament/en/organisation-and-rules/organisation/intergroups



### 3 Previous Workshops and Related Activities

Based on previous experience, the preferred format for the workshop is a half-day STOA workshop.<sup>6</sup> The Science and Technology Options Assessment (STOA)<sup>7</sup> is a Panel of Members of the European Parliament (MEPs) with a mission to provide independent expert assessment of scientific and technological developments and policy options for informed political decision-making in the EP. STOA projects provide state-of-play overviews of different topics with scientific or technological dimension and assess a range of policy options for responsibly deploying while also promoting the use of existing and emerging technologies.

In the following, we briefly describe four recent activities that demonstrate our experience and show how we have paved the way for the actual organisation of the EP/EC workshop, targeted to take place in the second half of 2022.

# 3.1 STOA Workshop "Language Equality in the Digital Age – Towards a Human Language Project" (2017)

On 10 January 2017, the STOA workshop "Language Equality in the Digital Age – Towards a Human Language Project" took place in the European Parliament (Brussels). The workshop was informed and made possible through META-NET's finding that at least 21 European languages were in danger of digital extinction (Rehm and Uszkoreit, 2012). The title of the event hinted at a possible next step, which was also reflected and suggested in as well as supported by several of the presentations, i. e., to set up, in collaboration with the EC, EP and Member States, a large-scale, long-term initiative to carry out research, development and innovation activities with substantial funding towards a common strategic goal. Under the umbrella of what was then termed the "Human Language Project" (HLP), new breakthroughs were to be made in order to address the threat of digital language extinction, but also to provide solutions for European citizens, industry and administrations.

In March 2017, a corresponding study was published, commissioned by the EP (STOA, 2017), which suggested 11 policy recommendations, among others, to "reinforce the role of LT within the institutional framework of multilingualism-related bodies", to "refocus and strengthen research in the Human Language Project" and to "bridge the technology gap between European languages". The joint CULT/ITRE report (European Parliament, 2018), adopted by the EP on 11 Sept. 2018, is based on the results of the STOA study.

#### 3.2 EP Language Equality Conference (2018)

On 27 September 2018, a conference on Language Technologies and Digital Equality in a Multilingual Europe was held in the European Parliament in Brussels to discuss the equality of Europe's languages in the digital age. The conference gathered various presentations and software demonstrations that shed light on individual aspects of technology support for our multilingual continent, identified barriers, outlined the state of the art and showed perspectives for future developments. The conference was organised and chaired by MEP Jill Evans (Wales, UK).

Two weeks prior, in a plenary meeting on 11 September 2018, the European Parliament adopted the joint ITRE/CULT report "Language Equality in the Digital Age" with a majority of 592 votes in favour, 45 against and 44 abstentions. The adoption of the resolution with a

<sup>&</sup>lt;sup>6</sup> The official application for the STOA workshop was submitted in early 2022 through a collaborator in the EP. The consortium is currently waiting for confirmation.

https://www.europarl.europa.eu/stoa/en/about/stoa-network

<sup>8</sup> https://www.greens-efa.eu/en/article/event/language-equality-in-the-digital-age



"landslide" majority demonstrates the importance and relevance of the topic. This resolution is the most important political document for European language technology research in recent years and remains a great success of our joint efforts.

In the closing lecture of the event, "European Language Technologies – Past, Present and Future", Georg Rehm summarised the alarming results of the META-NET study (which are still valid and will be further outlined in the upcoming ELE book). He also advocated that the EU Parliament, the European Commission and the Member States launch a large and long-term initiative to ensure new breakthroughs in basic research, applied research and also in the commercialisation of new research results.

# 3.3 EC Study "Opportunities and Challenges of Artificial Intelligence Technologies for the Cultural and Creative Sectors" (2022)

The study *Opportunities and Challenges of Artificial Intelligence Technologies for the Cultural and Creative Sectors*, commissioned by the European Commission and eventually published on February 2022, aims to identify opportunities in Artificial Intelligence (AI) for the Cultural and Creative Sectors (CCS), also taking into consideration the current challenges they pose, and suggests actions for CCS stakeholders as well as national and international policymakers in applying AI and promoting a culturally diverse offer of European works. Ten cultural and creative sectors were analysed including architecture, book publishing, fashion, film, museums, music, news media, performing arts, visual art and video games.

In Section 5.3 (starting from page 43), the report elaborates on opportunities and risks to language diversity. The report strongly emphasises that there is a need for Language Technologies "made in Europe, for Europe" (European Commission et al., 2022) and references the European Language Equality and European Language Grid projects as important relevant activities.

# 3.4 EP Presentation "Towards Digital Language Equality in Europe by 2030" (2022)

On 5 May 2022, Georg Rehm, coordinator of ELG and co-coordinator of ELE, presented the consortium's vision of Digital Language Equality and how to achieve it to the Intergroup for Traditional Minorities, National Communities and Languages. The talk focused on the current state of both projects, ELG and ELE. It touched upon national AI strategies, the definition and metric of Digital Language Equality and results from the language reports. The findings and results were met with great interest. The full slide deck can be found in the appendix.

In this context, a recent report from the Council of the European Union Education, Youth, Culture and Sport Council<sup>9</sup>, published on 4-5 April 2022 was shared and discussed. The experts ask to reinforce intercultural exchanges and develop a European strategy for cultural and creative industries. The conclusions also call for the establishment of an ambitious digital policy for the development of language technologies. The EU wants to take advantage of new technologies to foster multilingualism, which nurtures cultural exchanges and facilitates access to culture.

#### 4 Conclusions

The already existing close collaboration with the Parliamentary Committee on Culture and Education (CULT), the Committee on Industry, Research and Energy (ITRE) and the Inter-

<sup>9</sup> https://www.consilium.europa.eu/en/meetings/eycs/2022/04/04-05/



group for Traditional Minorities, National Communities and Languages (TMNCL) have laid important groundwork for the EP/EC workshop, which is planned to take place in the second half of 2022. The experience from previous workshops and collaborations has been very helpful in helping to draft a concept for the upcoming workshop. In 2017, the results of the STOA workshop "Language Equality in the Digital Age – Towards a Human Language Project" inspired the corresponding STOA study that was published a year later. The digital language equality topic gained momentum and visibility afterwards. We expect the planned STOA workshop later this year to initiate similar substantial impact.

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### **Appendix**









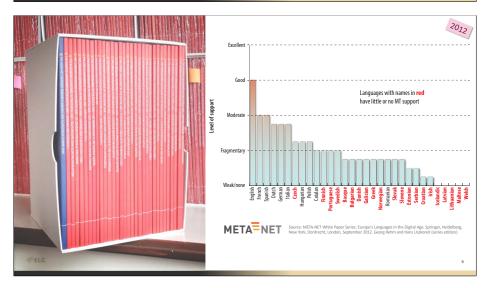




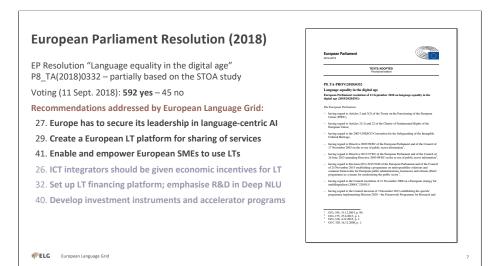
# META-NET Language White Papers "Europe's Languages in the Digital Age"

Basque	Galician	Polish*
Bulgarian*	German*	Portuguese*
Catalan	Greek*	Romanian*
Croatian*	Hungarian*	Serbian
Czech*	Icelandic	Slovak*
Danish*	Irish*	Slovene*
Dutch*	Italian*	Spanish*
English*	Latvian*	Swedish*
Estonian*	Lithuanian*	Welsh
Finnish*	Maltese*	
French*	Norwegian	
		* Official EU language
		4

		Excellent support	Good support	Moderate support	Fragmentary support	Weak or no support t
	Machine Translation		English	French, Spanish	Catalan, Dutch, German, Hungarian, Italian, Polish, Romanian	Basque, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, Galician, Greek, Icelandic, Irish, Latvian, Lithuanian, Maltes, Norwegian, Portuguere, Serbian, Slovak, Slovene, Swedish, Welsh
	Tox Analytic		English	Dutch, French, German, Italian, Spanish	Basque, Bulgarian, Catalan, Czech, Danish, Finnish, Galician, Greek, Hungarian, Norwegian, Polish, Portuguese, Romanian, Slovak, Slovene, Swedish	Croatian, Estonian, Icelandic, Irish, Latvian, Lithuanian, Maltese, Serbian, Welsh
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			English	Czech, Dutch, French, German, Hungarian, Italian, Polish, Spanish, Swedish	Basque, Bulgarian, Catalan, Croatian, Danish, Estonian, Finnish, Galician, Greek, Norwegian, Portuguese, Romanian, Serbian, Slovak, Slovene	icelandic, Irish, Latvian, Lithuanian, Maltese, Welsh
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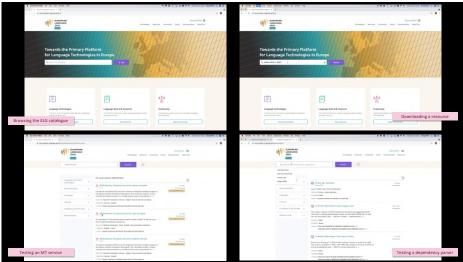


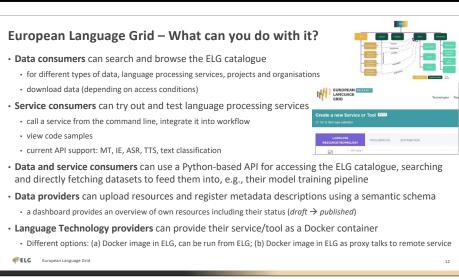












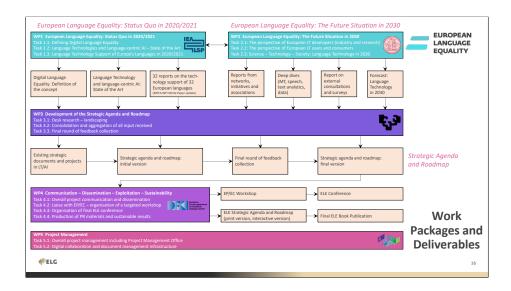












#### **Current State of Play in the Project (Selection)**



- · Language Technology and National AI Strategies: performed Europe-wide landscaping.
- Digital Language Equality (DLE): concept and metric defined, distinction between technological factors and contextual factors.
- Dashboard Dynamic DLE Computation and Visualisation: based on the 12,000+ metadata records in ELG we can compute the DLE metric for all European languages and visualise the results. We can even monitor the development of DLE in Europe over time.
- ELE Language Reports Updates of the META-NET White Papers: qualitative assessment of the gaps and needs of the various European languages.

₩ELG European Language Equality

#### FUROPEAN **Language Technology and National AI Strategies** LANGUAGE EQUALITY All 30 countries surveyed have a national AI strategy. · Funding for Language Technology through AI only available in six countries: Belgium, Denmark, Estonia, France, Germany and Malta. • No Language Technology-related funding at all in Austria, Croatia, Serbia. Limited Language Technology-related funding in Belgium, Bulgaria, Czechia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Lux., Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Sweden. Dedicated LT programmes in Denmark, Estonia, Iceland and Spain. There is an immense need for pan-European coordination and for putting LT into the national AI strategies and into the policies for language, cultural and technological development



#### **Digital Language Equality Metric**

- Digital Language Equality Metric
  - Provide theoretical basis to achieve DLE in Europe by 2030
  - · Key ingredient of the evidence-based SRIA and roadmap
  - Enable comparisons among Europe's languages
  - · Identify gaps
- · Well-defined quantifiers, measures and indicators
- Compatibility and interoperability with ELG metadata schema, i.e., the DLE definition is fully aligned with ELG
- Intended to guide and prioritise future LT development and LR creation, collection, curation



₩ELG European Language Equality

**Digital Language Equality: Definition** 



**Digital Language Equality** (DLE) is the state of affairs in which all languages have the technological support and situational context necessary for them to continue to exist and to prosper as living languages in the digital age.

₩ELG European Language Equality

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#### **Digital Language Equality Metric**



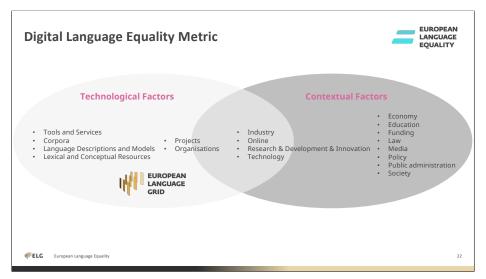
The DLE metric is a measure that reflects the digital readiness of a language and its contribution to the state of technology-enabled multilingualism, tracking its progress towards the goal of DLE.

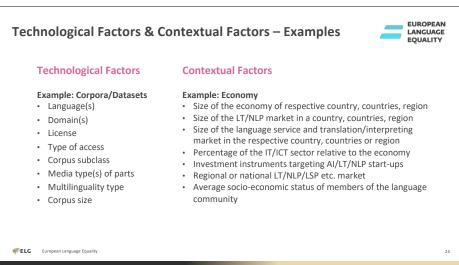
The DLE metric is computed for each language on the basis of *various factors*, grouped into technological factors (e.g., the available language resources, tools and technologies) and a range of situational contextual factors (e.g., societal, economic, educational, industrial).

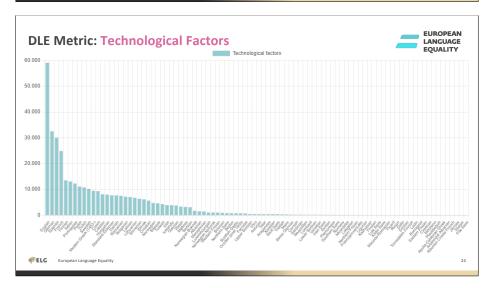
dynamic nature, score can be (regularly) updated

guage Equality

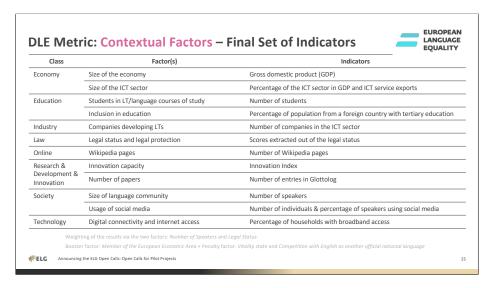


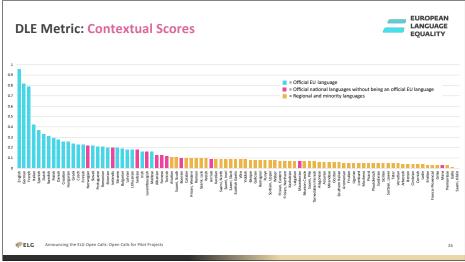


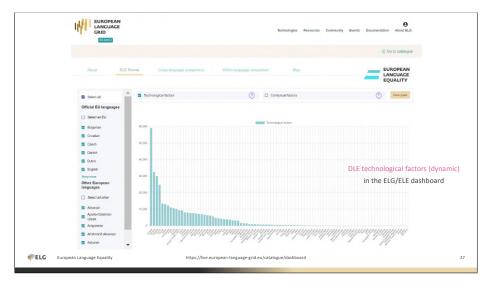


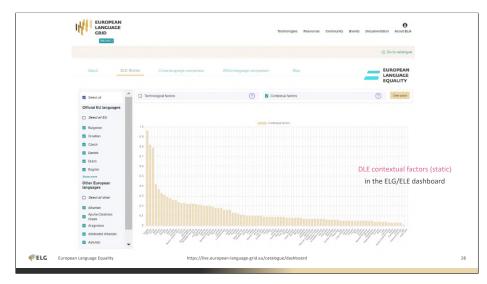
















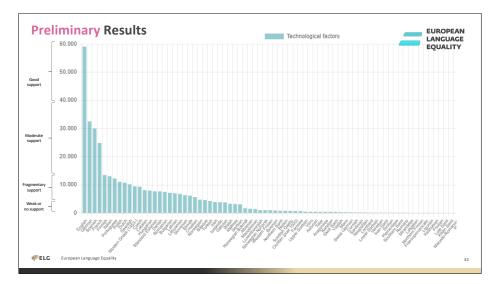


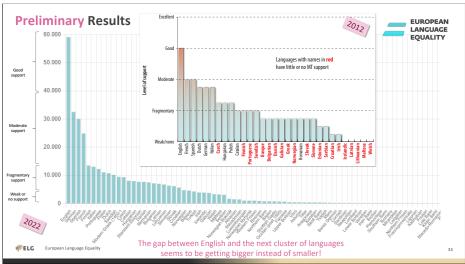
#### **Language Reports**



- In the tradition of the META-NET White Paper Series (published in 2012)
- Quantitative and qualitative evaluations of the level of support each language receives through technology:
  - · Brief introduction to the LT field
  - · General facts about the language
  - Availability of LRTs based on the combined collection of ELG and ELE resources
  - Support it receives through dedicated funding programs and projects
  - Participation in research infrastructures
- All reports available at https://european-language-equality.eu/deliverables/
- Stand-alone digital publications; parts will be included in the final ELE agenda and book, which will be published in the second half of 2022.

WIFELG European Language Equality







#### **Next Steps and Recommendations**



- 2012: At least 21 European languages in danger of digital extinction the real number is *much* higher.
- Europe wants AI to be "based on and respecting European values". Let's take this seriously and develop AI-based technologies for all our languages, given that they're all on the same level. Right now, European Language Technology development and support is not equal, i.e., not based on European values.
- We advocate for a **shared**, **long-term European funding programme** between the EC and member states. All languages, i.e., countries and regions need to be brought on board (no more sporadic, partial support).
- Extremely strong need for large language models (LLMs) for all European languages.
- Prerequisites: powerful data and compute infrastructure and vast amounts of FAIR, open language data
  for all European languages, uses, apps. etc. there is lots of data but it's simply not available right now.
- Global LT/NLP market size by 2025 is enormous (\$US 45B): we want Europe to be a key player.
- European digital language and data processing infrastructure crucial for digital sovereignty.
- Need for pan-European coordination and a joint scientific goal: Deep Natural Language Understanding.



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# There are also good news: More and more interest in this topic ...

**Council of the European Union** 

Education, Youth, Culture and Sport Council, 4-5 April 2022 Main Results

Approval of Council conclusions on reinforcing intercultural exchanges and on a European strategy for cultural and creative industries

The conclusions also call for the development of an ambitious digital policy for the development of language technologies, [...]. The EU wants to take advantage of new technologies to foster multillingualism, which nurtures cultural exchanges and facilitates access to culture.

https://www.consilium.europa.eu/en/meetings/eycs/2022/04/04-05/

₩ELG European Language Grid



