

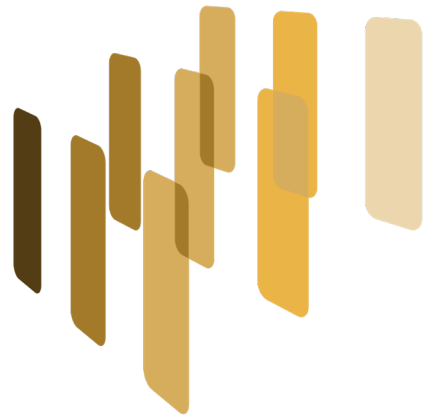


# **EUROPEAN LANGUAGE GRID**

## **What's next for Multilingual Europe? Introducing the European Language Grid**

Georg Rehm (DFKI) – ELG Coordinator  
georg.rehm@dfki.de

09-09-2019, ELSE-IF 2019 – Karlsruhe, Germany  
<http://www.european-language-grid.eu>



## **What's next for Multilingual Europe?**

Introducing the European Language Grid

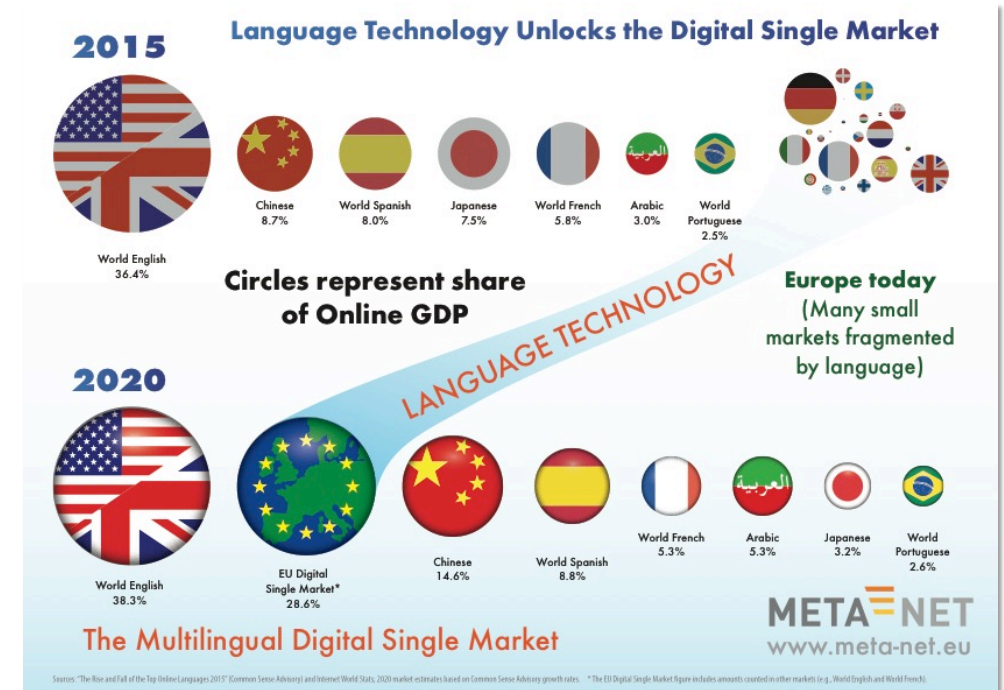
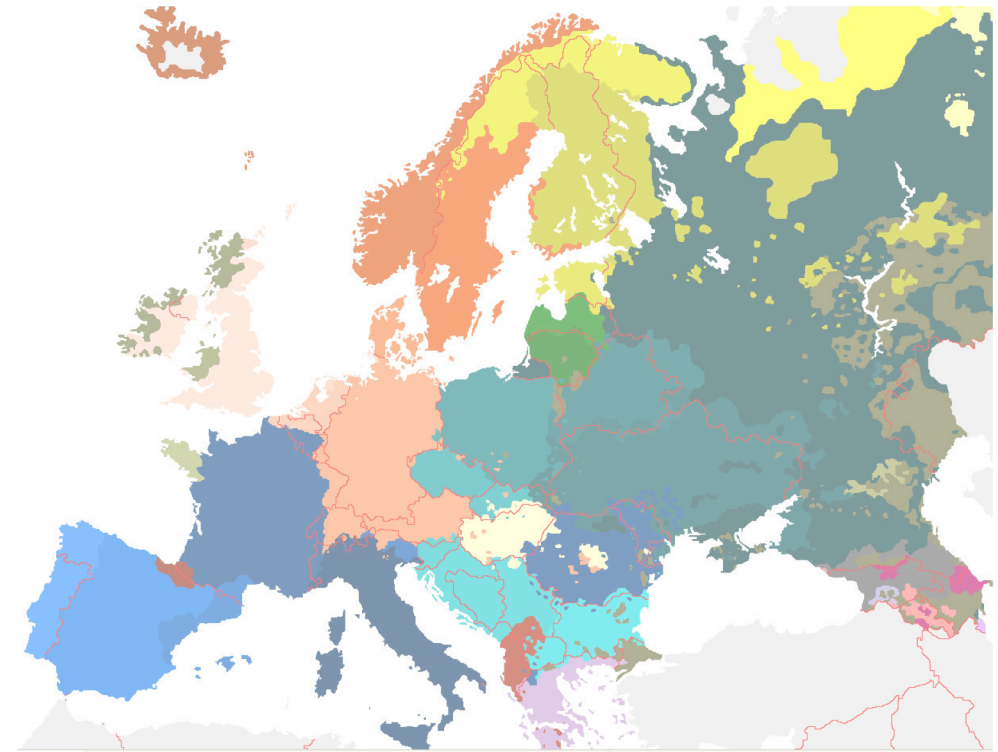
09-09-2019, ELSE-IF 2019 – Karlsruhe, Germany

1. History – Motivation – Context
2. European Language Grid (2019-2021)



# Multilingualism in Europe

- Multilingualism is at the heart of the European idea
- 24 EU languages – they all have the same status
- Dozens of regional and minority languages as well as languages of immigrants and trade partners
- Many economic, social and technical challenges:
  - The Digital Single Market needs to be multilingual
  - Cross-border, cross-lingual, cross-cultural communication
  - Fragmentation of the LT market and landscape (including availability of LTs and LRs)
  - There's no LT platform for Europe! (yet)







META-NET  
(T4ME)

CESAR

META-NORD

METANET4U

# META-NET

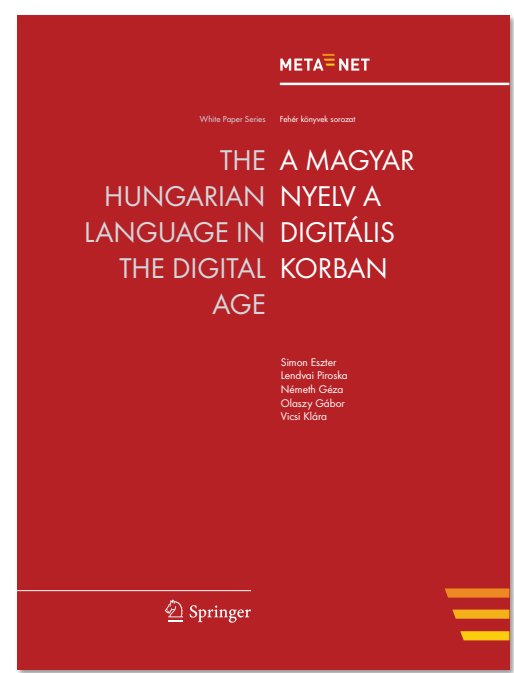
# META

- 60 research centres in 34 countries, founded in 2010
- Chair of Executive Board: Jan Hajic (CUNI)
- Deputies: Josef van Genabith (DFKI), Andrejs Vasiljevs (Tilde)
- General Secretary: Georg Rehm (DFKI)

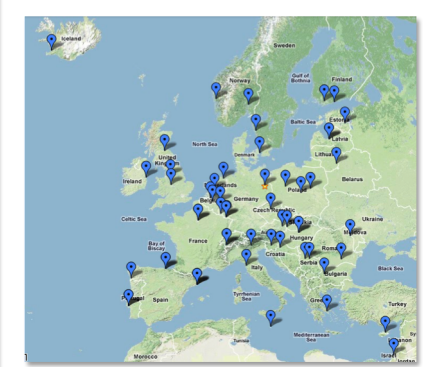
- Multilingual Europe Technology Alliance
- 900+ members in 67 countries



Published in 2013



31 volumes, published in 2012







# META FORUM 2010

## T4ME

**T4ME**  
EU-funded project (Seventh Framework Programme) working on technologies for the Multilingual European Information Society

**META-NET**  
Established in 2010, META-NET is a network of Excellence consisting of 60 research centres from 34 countries, building the technological foundations of a multilingual European information society

**META-FORUM 2010**  
"Challenges for Multilingual Europe"  
(November 17/18, 2010)



# META SHARE

# META FORUM 2012

**META-FORUM 2012**  
Conference "A Strategy for Multilingual Europe"  
(Brussels – June 20/21, 2012)

**META-NET White Papers**  
Release of 32 volumes on 31 languages, revealing that there is a severe threat of digital extinction for at least 21 European languages  
(December 2012)

2013

2014

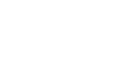
**"State of the Art of Machine Translation – Current Challenges and Future Opportunities"**  
Workshop on "State of the Art of Machine Translation", commissioned by the EU Parliament  
(December 2013)

**META-SHARE**  
Initiated in 2013, META-SHARE has functioned as an open and secure network of repositories for sharing and exchanging language data, tools and services

**Strategic Research Agenda for Multilingual Europe 2020**  
Launch of the Strategic Research Agenda for Multilingual Europe 2020 (January 2013)

**META-FORUM 2013**  
Conference "Connecting Europe for New Horizons"  
(Berlin –September 19/20, 2013)

2013



# META FORUM 2015



**CRACKER**  
EU-funded project CRACKER (Horizon2020) pushing towards an improvement of MT research in terms of efficiency and effectiveness (2015 – 2017)

**Cracking the Language Barrier Federation**  
Founded in 2015, the federation has been assembling European research and innovation projects as well as all related community organisations working on multilingual technologies

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

**Strategic Agenda for the Multilingual Digital Single Market (Version 0.5)**  
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**  
Summit "Shape the future of the multilingual digital single market"  
(April 27–29, 2015)

2015

2016

**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)



2016



# 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 Committee (STOA)  
(January 2017)

**"Language equality in the digital age: Towards a Human Language Project"**  
Launch of the study on "Language equality in the digital age: Towards a Human Language Project", commissioned by the EU Parliament  
(March 2017)

**META-FORUM 2017**  
Conference "Towards a Human Language Project"  
(Brussels – November 13/14, 2017)

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

2017

2018



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



2018



# EUROPEAN LANGUAGE GRID

2019-2021



# META-NET

2010

2011

2012

# META-NORD

**META-NORD**  
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 Programme) to enhance the European Linguistic Infrastructure (2011 – 2013)

# CESAR

**CESAR**  
EU-funded project (ICT Policy Support 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)

2011

2013

2016



09-09-2019, ELSE-IF 2019 – Karlsruhe, Germany





# META-NET Language White Papers “Europe’s Languages in the Digital Age”

Basque  
Bulgarian\*  
Catalan  
Croatian\*  
Czech\*  
Danish\*  
Dutch\*  
English\*  
Estonian\*  
Finnish\*  
French\*

Galician  
German\*  
Greek\*  
Hungarian\*  
Icelandic  
Irish\*  
Italian\*  
Latvian\*  
Lithuanian\*  
Maltese\*  
Norwegian

Polish\*  
Portuguese\*  
Romanian\*  
Serbian  
Slovak\*  
Slovene\*  
Spanish\*  
Swedish\*  
Welsh

<http://www.meta-net.eu/whitepapers>

\* Official EU language



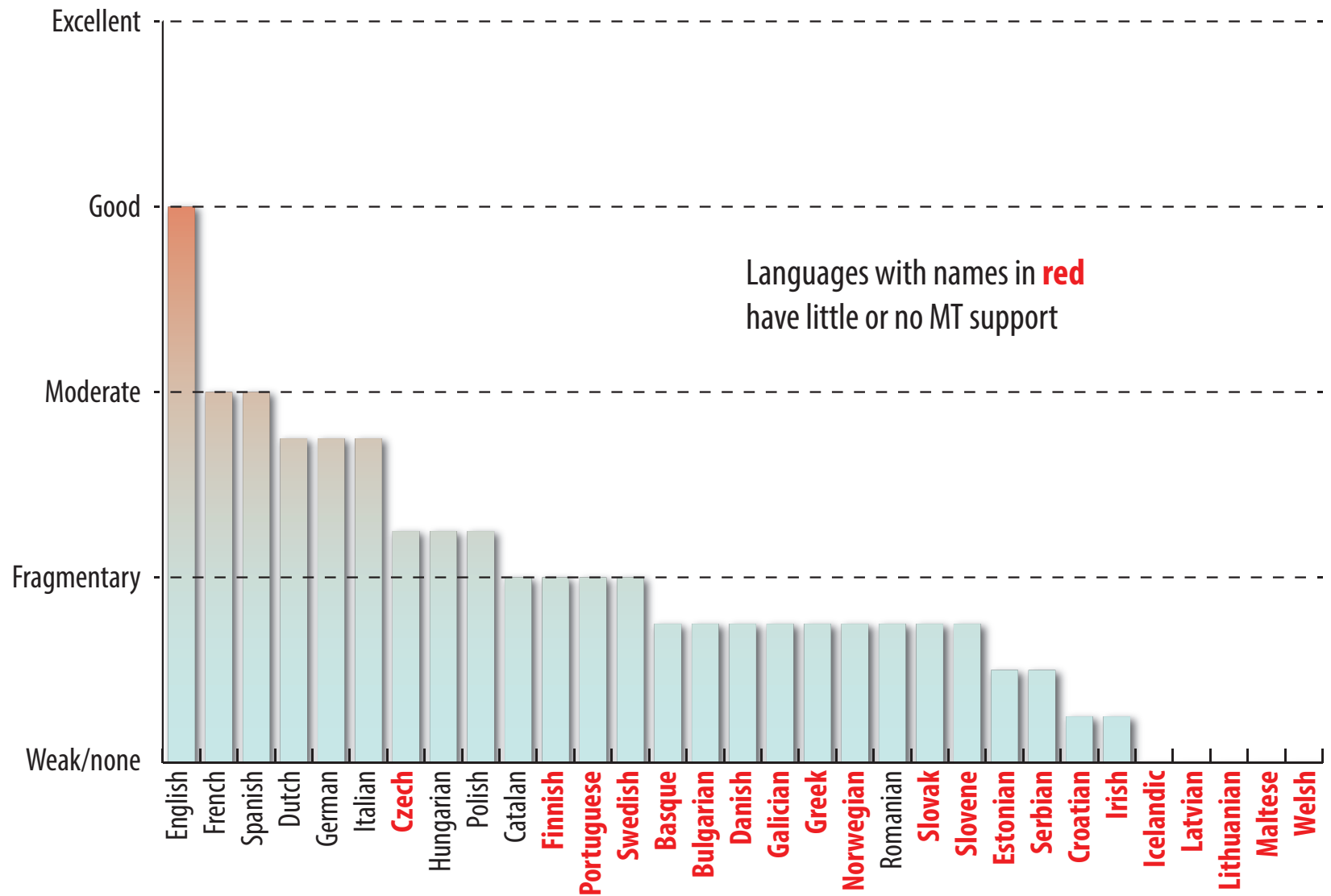


**Resources      Speech      Text Analytics      Machine Translation**

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



Level of support



- THE SWEDISH LANGUAGE IN THE DIGITAL AGE – SVENSKA SPRÅKET I DEN DIGITALA TIDÅLDERN
- THE SPANISH LANGUAGE IN THE DIGITAL AGE – LA LENGUA ESPAÑOLA EN LA ERA DIGITAL
- THE SLOVENE LANGUAGE IN THE DIGITAL AGE – SLOVENSKI JEZIK V DIGITALNI DOBI
- THE SLOVAK LANGUAGE IN THE DIGITAL AGE – SLOVENSKÝ JAZYK V DIGITÁLNOH VEKU
- THE SERBIAN LANGUAGE IN THE DIGITAL AGE – СРПСКИ ЈЕЗИК У ДИГИТАЛНОМ ДОБУ
- THE ROMANIAN LANGUAGE IN THE DIGITAL AGE – LIMBA ROMÂNĂ ÎN ERA DIGITALĂ
- THE PORTUGUESE LANGUAGE IN THE DIGITAL AGE – JEZYK PORTUGUEZA NA ERA DIGITAL
- THE NORWEGIAN LANGUAGE IN THE DIGITAL AGE – NORSK I DEN DIGITALE TIDÅLDERN
- THE NORWEGIAN LANGUAGE IN THE DIGITAL AGE – NORSK I DEN DIGITALE TIDÅLDERN
- THE MALTESE LANGUAGE IN THE DIGITAL AGE – IL-LINGWA MALTUA F'ERA DIGITALI
- THE HUNGARIAN LANGUAGE IN THE DIGITAL AGE – HUNGÁRIAI NYELV A DIGITÁLIS KORBAN
- THE ITALIAN LANGUAGE IN THE DIGITAL AGE – LA LINGUA ITALIANA NELL'ERA DIGITALE
- THE IRISH LANGUAGE IN THE DIGITAL AGE – AN GHAELIGE SA RÉ DHIGITÁCH
- THE ICELANDIC LANGUAGE IN THE DIGITAL AGE – ÍSLENSK TUNGA Á STAFRÆNNI QLD
- THE HUNGARIAN LANGUAGE IN THE DIGITAL AGE – HUNGÁRIAI NYELV A DIGITÁLIS KORBAN
- THE GERMAN LANGUAGE IN THE DIGITAL AGE – DIE DEUTSCHE SPRACHE IM DIGITALEN ZEITALTER
- THE GALICIAN LANGUAGE IN THE DIGITAL AGE – O IDIOMA GALEGO NA ERA DIGITAL
- THE FRENCH LANGUAGE IN THE DIGITAL AGE – LA LANGUE FRANÇAISE À L'ÈRE DU NUMÉRIQUE
- THE FINNISH LANGUAGE IN THE DIGITAL AGE – SUOMEN KIELI DIGITÄÄLISELLÄ AIKAKAUDELLA
- THE ESTONIAN LANGUAGE IN THE DIGITAL AGE – ESTI KEEL DIGITÄSTUL
- THE DUTCH LANGUAGE IN THE DIGITAL AGE – HET NEDERLANDS IN HET DIGITALE TIJDPERK
- THE DANISH LANGUAGE IN THE DIGITAL AGE – DET DANSKE SPROG I DEN DIGITALE TIDÅLDER
- THE CZECH LANGUAGE IN THE DIGITAL AGE – ČESŤINA V DIGITÁLNÍM VEKU
- THE CROATIAN LANGUAGE IN THE DIGITAL AGE – HRVATSKI JEZIK U DIGITÁLNOH DOBU
- THE CATALAN LANGUAGE IN THE DIGITAL AGE – LA LENGUA CATALANA A L'ERA DIGITAL
- THE BULGARIAN LANGUAGE IN THE DIGITAL AGE – БЪЛГАРСКИТ ЈЕЗИК В ДИГИТАЛНАТА ЕПОХА
- THE BASQUE LANGUAGE IN THE DIGITAL AGE – EUSKARA ARO DIGITALEAN
- THE META-NET STRATEGIC RESEARCH AGENDA FOR MULTILINGUAL EUROPE 2020

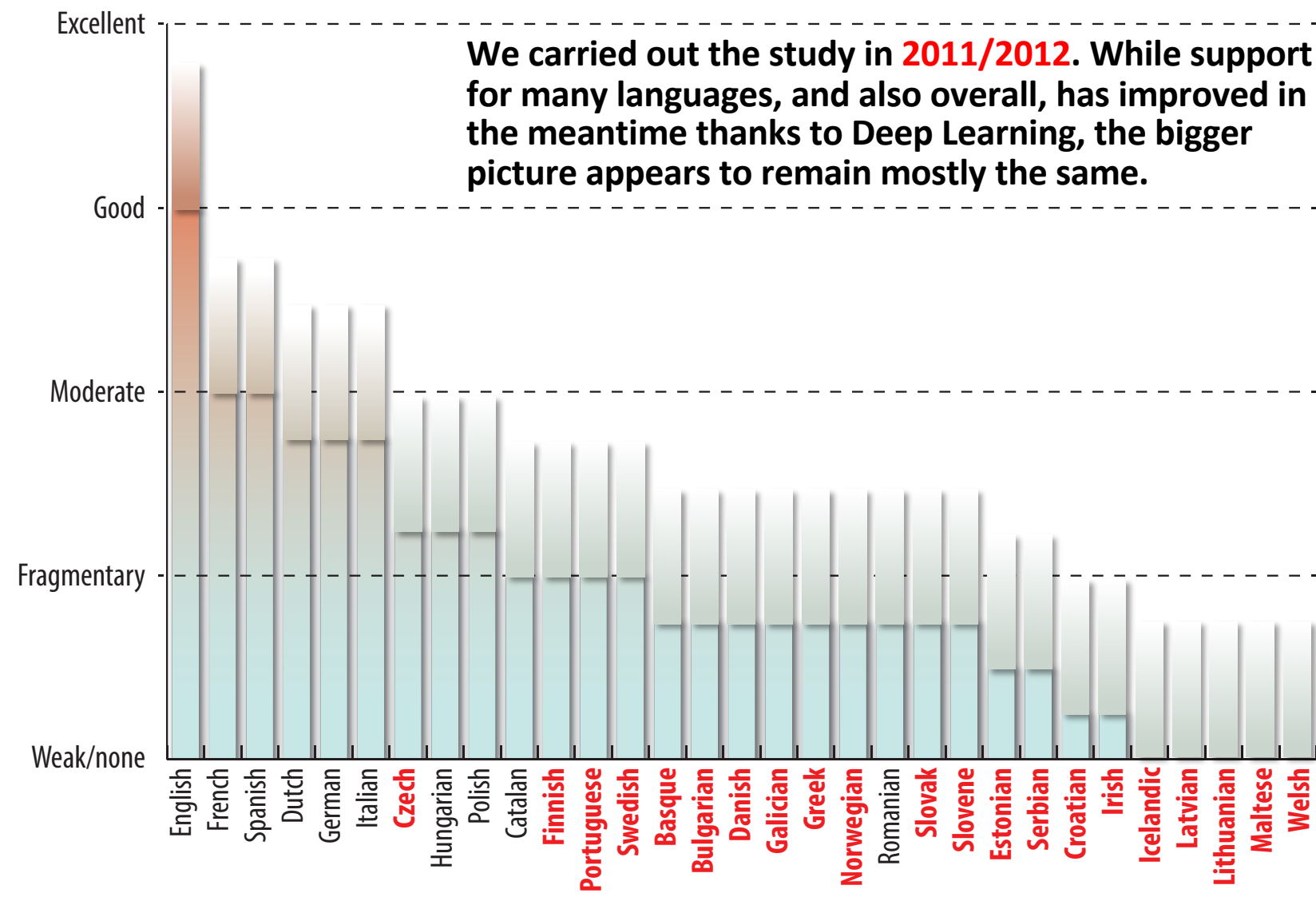


Source: META-NET White Paper Series: Europe's Languages in the Digital Age. Springer, Heidelberg, New York, Dordrecht, London, September 2012. Georg Rehm and Hans Uszkoreit (series editors)





Level of support



We carried out the study in **2011/2012**. While support for many languages, and also overall, has improved in the meantime thanks to Deep Learning, the bigger picture appears to remain mostly the same.



Source: META-NET White Paper Series: Europe's Languages in the Digital Age. Springer, Heidelberg, New York, Dordrecht, London, September 2012. Georg Rehm and Hans Uszkoreit (series editors)



# META-SHARE

- META-SHARE addresses technology and infrastructure needs with regard to the
  - Visibility
  - Documentation
  - Identification
  - Availability
  - Preservation
  - Interoperabilityof LRs and LTs
- 35 META-SHARE members and organisations in 25 countries
- <http://www.meta-share.org>

**META-SHARE**

LEARN ▾ DISCOVER ▾ PARTICIPATE ▾ CONNECT ▾ LOGIN

## Search & exchange language resources

META-SHARE is an open and secure network of repositories for sharing and exchanging language data, tools and related web services

Share your own resources!

[JOIN OUR NETWORK NOW](#)

Already a member? [Log in](#)

Search the META-SHARE inventory

[OR LEARN MORE](#)

**3,702** users

**2,885** language resources

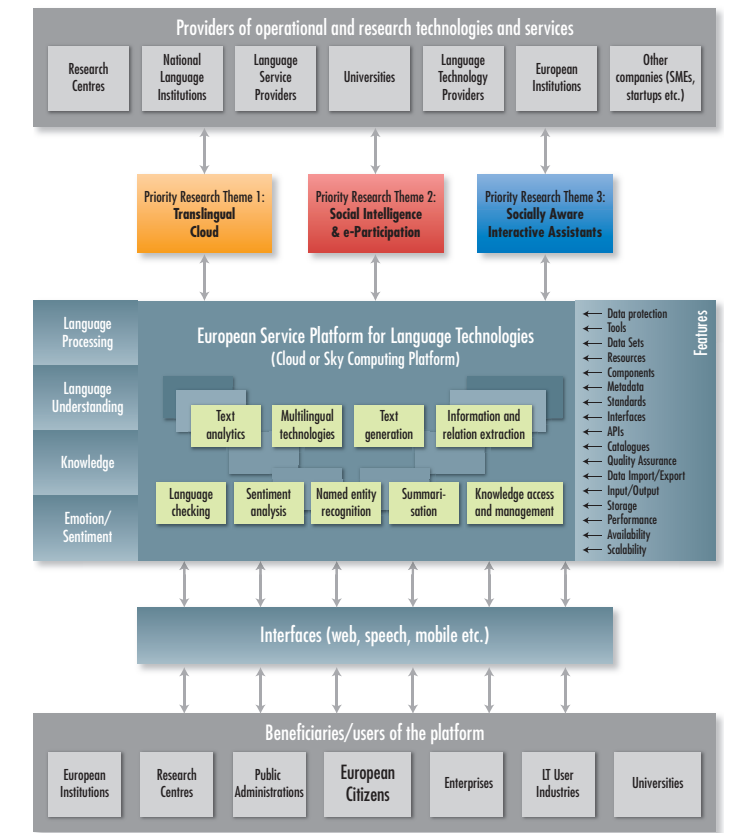
**32 %** text corpora

**22,391** number of downloads



# Motivation and Context

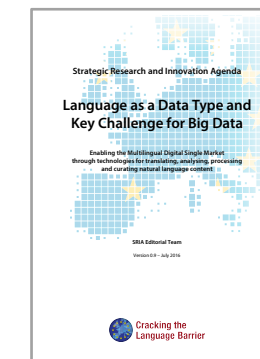
- The European LT landscape and market are very fragmented.
- The European LT community has been demanding a **European Language Technology platform** for several years.
- **META<sup>3</sup>NET** vision: **European Service Platform for Language Technologies**.
- First mentioned in the **Strategic Research Agenda for Multilingual Europe 2020** (published in early 2013).



The concept was later refined in the three LT SRIAs (2015, 2016, 2017).



META<sup>3</sup>FORUM 2015

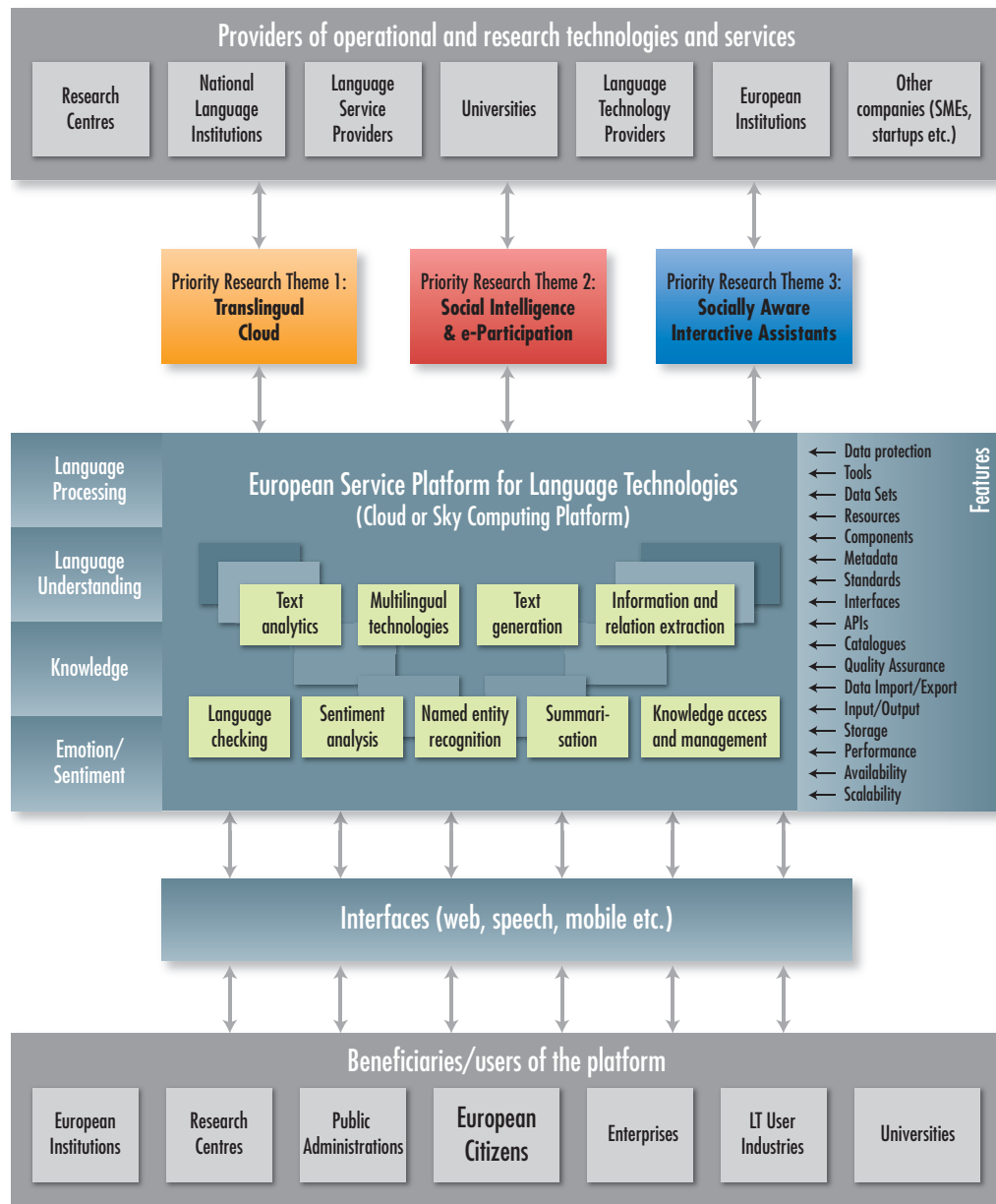


META<sup>3</sup>FORUM 2016

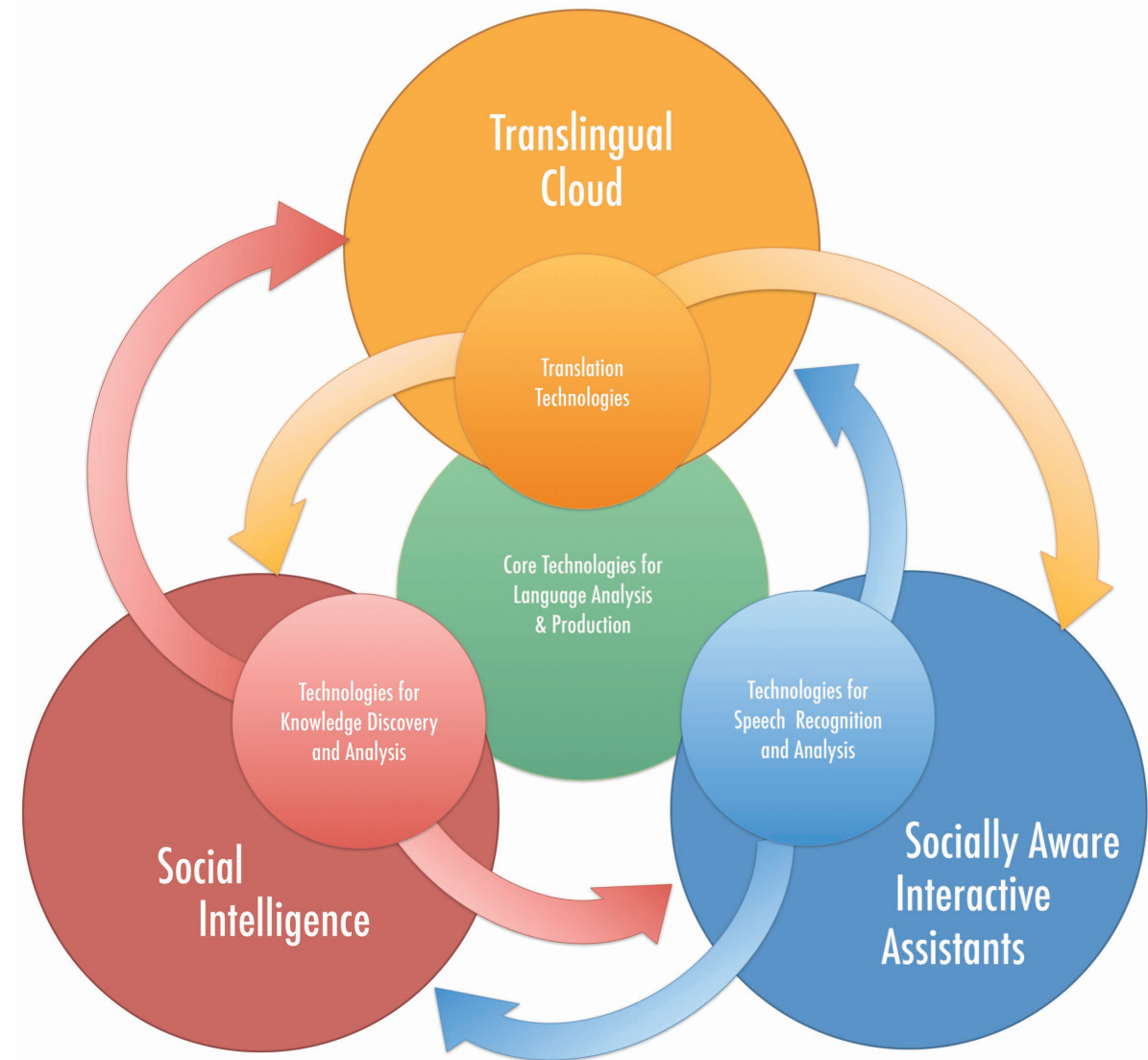


META<sup>3</sup>FORUM 2017

# European LT Service Platform



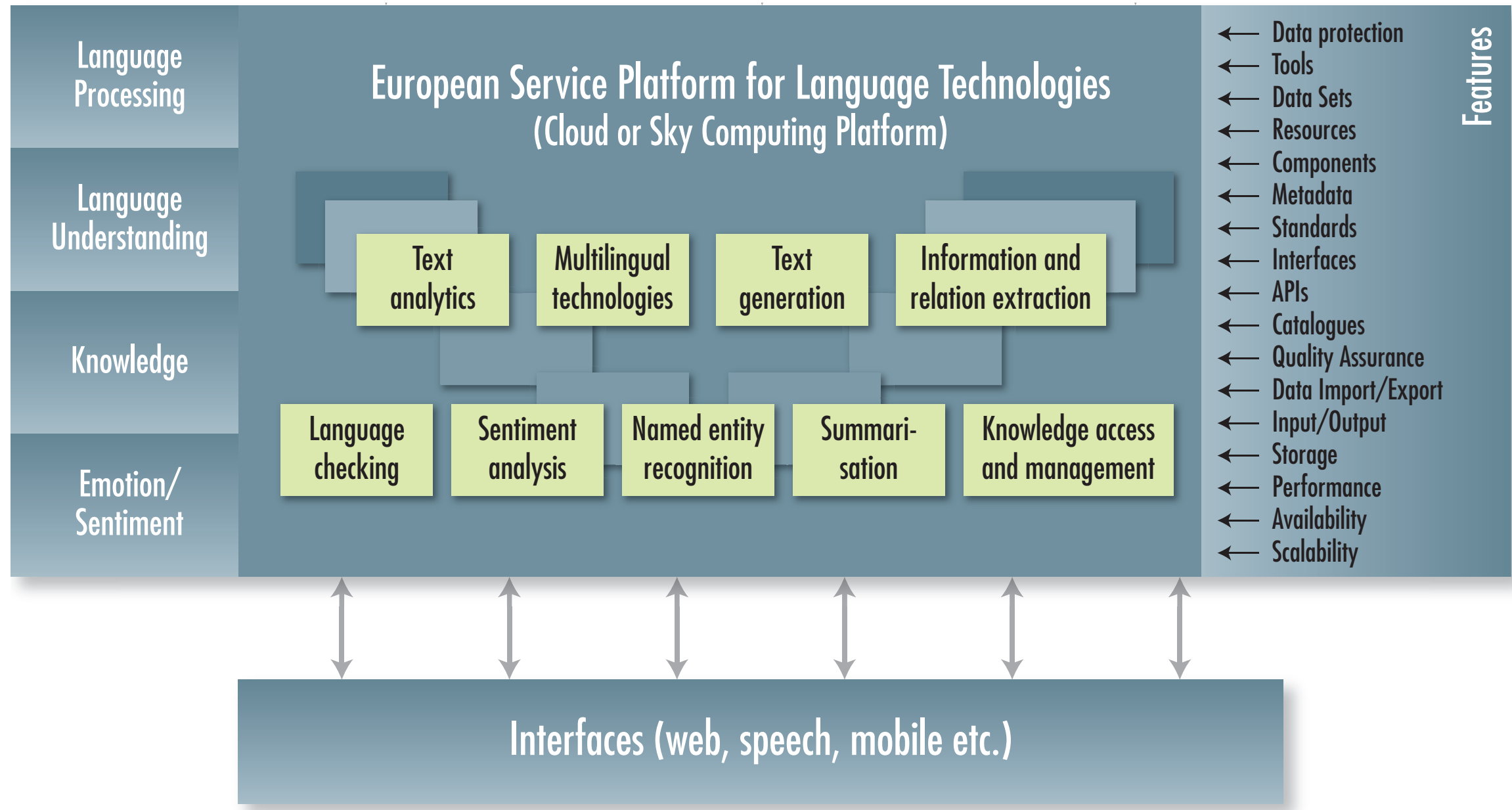
## 3+2 Priority Research Themes



From: META-NET SRA (2013)



# European LT Service Platform

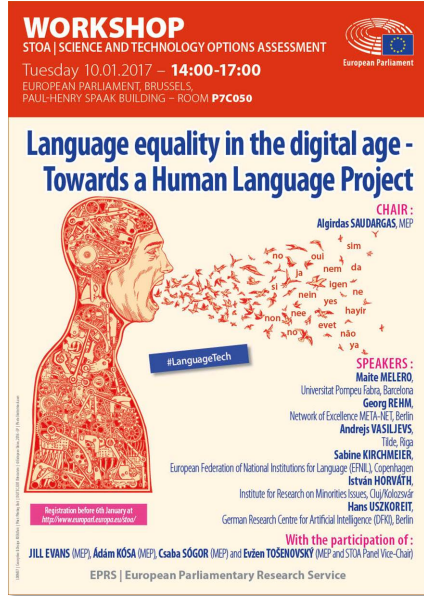
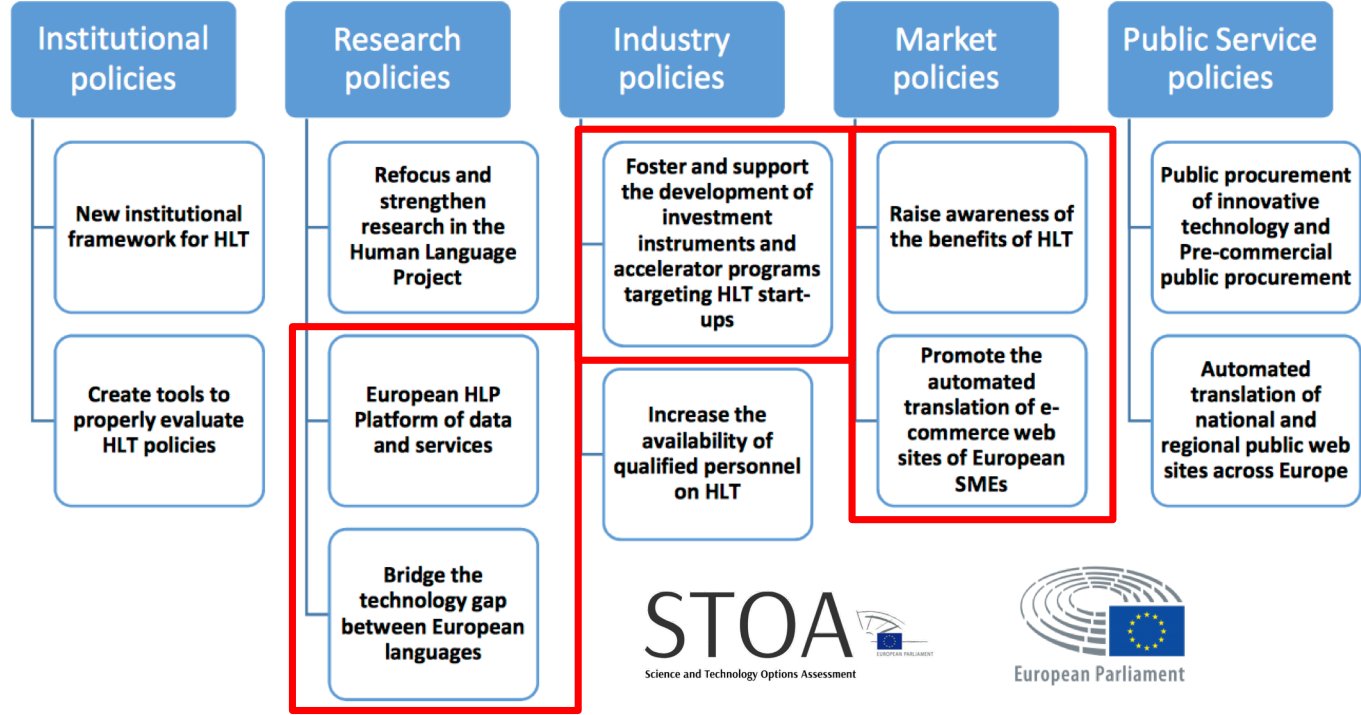


From: META-NET  
SRA (2013)



# STOA Study (2017)

STOA Workshop, European Parliament, 10 January 2017  
 Study published in March 2017  
 11 Key Recommendations



## Language equality in the digital age

### Towards a Human Language Project

#### STUDY

Science and Technology Options Assessment

EPRS | European Parliamentary Research Service  
 Scientific Foresight Unit (STOA)  
 PE 581.621



# “Language Equality” EP Resolution (2018)

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

## Recommendations addressed by European Language Grid:

**29. Create a European LT platform for sharing of services**

**41. Enable and empower European SMEs to use LTs**

**26. ICT integrators should be given economic incentives for LT**

**27. Europe has to secure its leadership in language-centric AI**

**32. Set up LT financing platform; emphasise R&D in Deep NLU**

**40. Develop investment instruments and accelerator programs**

European Parliament

2014-2019



TEXTS ADOPTED  
Provisional edition

**P8\_TA-PROV(2018)0332**

**Language equality in the digital age**

**European Parliament resolution of 11 September 2018 on language equality in the digital age (2018/2028(INI))**

*The European Parliament,*

- having regard to Articles 2 and 3(3) of the Treaty on the Functioning of the European Union (TFEU),
- having regard to Articles 21(1) and 22 of the Charter of Fundamental Rights of the European Union,
- having regard to the 2003 UNESCO Convention for the Safeguarding of the Intangible Cultural Heritage,
- having regard to Directive 2003/98/EC of the European Parliament and of the Council of 17 November 2003 on the re-use of public sector information<sup>1</sup>,
- having regard to Directive 2013/37/EU of the European Parliament and of the Council of 26 June 2013 amending Directive 2003/98/EC on the re-use of public sector information<sup>2</sup>,
- having regard to Decision (EU) 2015/2240 of the European Parliament and of the Council of 25 November 2015 establishing a programme on interoperability solutions and common frameworks for European public administrations, businesses and citizens (ISA2 programme) as a means for modernising the public sector<sup>3</sup>,
- having regard to the Council resolution of 21 November 2008 on a European strategy for multilingualism (2008/C 320/01)<sup>4</sup>,
- having regard to the Council decision of 3 December 2013 establishing the specific programme implementing Horizon 2020 – the Framework Programme for Research and

<sup>1</sup> OJ L 345, 31.12.2003, p. 90.

<sup>2</sup> OJ L 175, 27.6.2013, p. 1.

<sup>3</sup> OJ L 318, 4.12.2015, p. 1.

<sup>4</sup> OJ C 320, 16.12.2008, p. 1.



# EUROPEAN LANGUAGE GRID



# EUROPEAN LANGUAGE GRID

## Objectives

1. Establish the ELG as the primary platform for LT in Europe.
2. ELG as a platform for commercial and non-commercial LTs, both functional and non-functional.  
*A similar platform does not exist yet – not even globally.  
The ELG platform will be the very first of its kind.*
3. Enable the European LT community to upload services and data sets into the ELG, to deploy them and to connect with, and make use of those resources made available by others.
4. Unleash enormous potential for innovation (pilots etc.)
5. Establish the European Language Grid as the primary European market place for LT to connect demand and supply.
6. Help establish the Multilingual Digital Single Market.



# EUROPEAN LANGUAGE GRID

## Consortium



Kick-off meeting, 22/23 January 2019

## All relevant Initiatives covered

- META-NET and META
- Cracking the Language Barrier
- ELRC, CEF AT Tools & Services
- CLARIN
- LT Innovate
- Big Data Value Association
- AI4EU, HumanE AI
- EOSC and several others





# **EUROPEAN LANGUAGE GRID**

## **Concept and Methodology**

- **Grid Platform**
- **Grid Content**
- **Grid Community**



# EUROPEAN LANGUAGE GRID

## Concept and Methodology

- **Grid Platform**

- Catalogue of functional services, data sets, tools, technologies, models etc.
- Catalogue of LT companies, research organisations, service and application types, languages etc.
- Interactive modern web interface with different views for users, LT providers, potential buyers, and administrators.
- Information about conference and training events, pilot projects, open calls and other pieces of content.
- Built with robust, scalable, reliable, widely used technologies that are constantly developed further.
- Ability to scale with the growing demand and supply of resources.

- **Grid Content**

- **Grid Community**



# EUROPEAN LANGUAGE GRID

## Concept and Methodology

- **Grid Platform**
- **Grid Content**
  - **Content:** services, resources, data sets, tools.
  - **Functional Content:** running services, can be uploaded and integrated into other systems. Stakeholders will be able to upload and make available their services.
  - **LT-as-a-Service:** create an image of an LT service that can be run on a different system through a virtual machine.
  - Easy and efficient for LT providers to create and upload images of LT services, easy and efficient for ELG to receive and make images available.
  - **Non-functional Content:** catalogue entries of companies; file storage; description of a web interface (REST API).
- **Grid Community**



# EUROPEAN LANGUAGE GRID

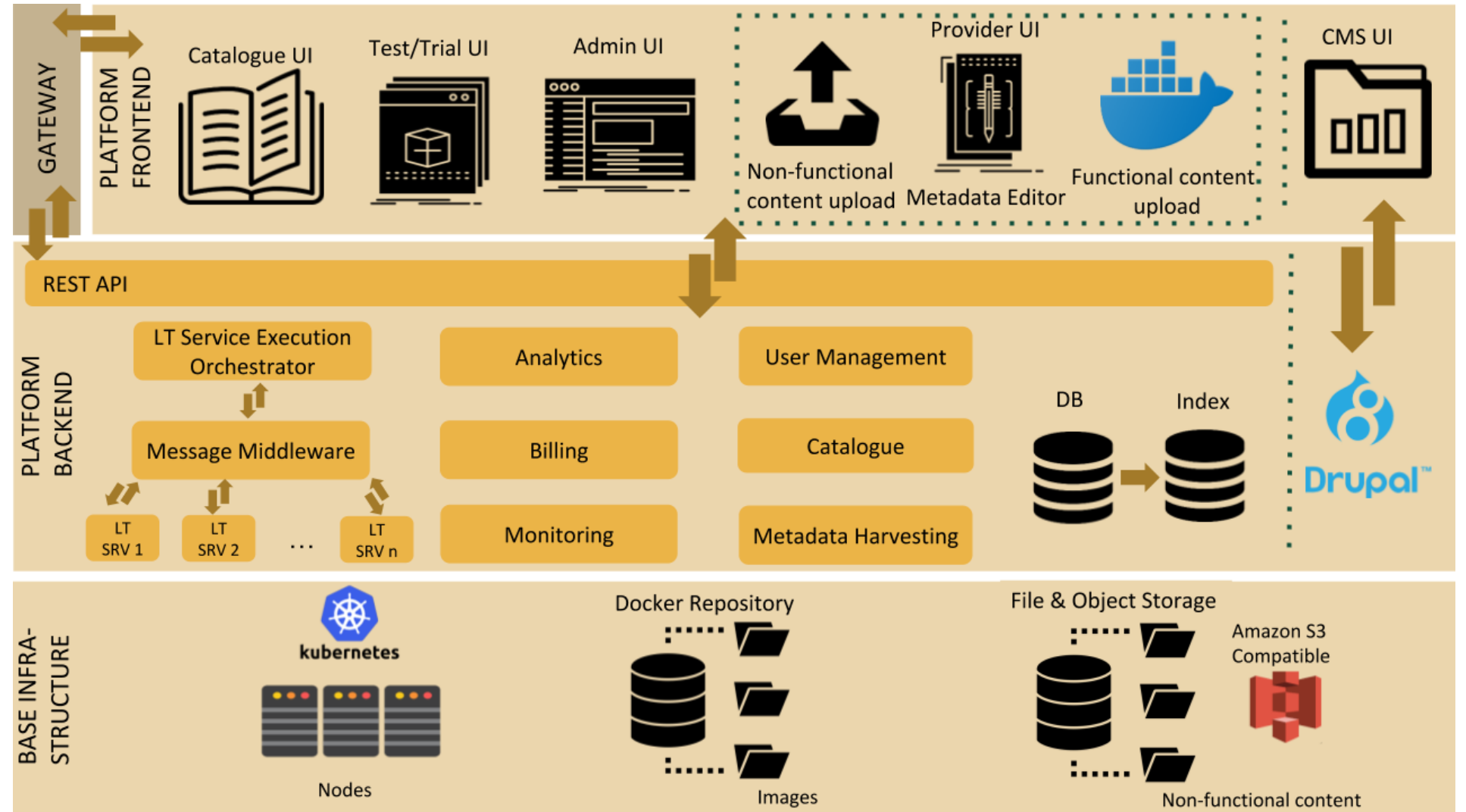
## Concept and Methodology

- **Grid Platform**
- **Grid Content**
- **Grid Community**
  - Stakeholders: LT provider and buyer companies, research centres, universities, administrations, NGOs etc.
  - Plus: 15-20 pilot projects, the six new ICT-29b) RIA projects, META-NET, LT Innovate and other networks and initiatives
  - Organisation of conferences, training events, presentations, publications, social media, blog posts etc.
  - 32 NCCs as a strong international network to identify content for the ELG, interest companies in using the ELG for making available their services.
  - European LT Council as an international, pan-European body, in which LT-related matters can be discussed and coordinated.



# EUROPEAN LANGUAGE GRID

## Architecture (Current Working Version)

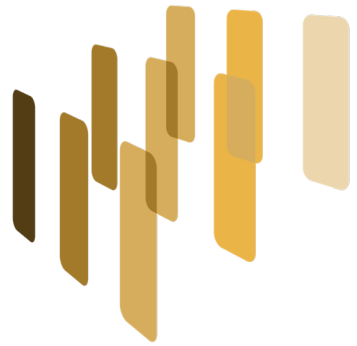




# EUROPEAN LANGUAGE GRID

## Platform Catalogue – Four different layers

Type	Description	ELG Consortium brings in
1) ELG Language Technology Tools, Services – functional Grid content	Containerised services (from, e.g., tokenisation or POS tagging to complex workflows); can be uploaded and deployed through the ELG; can be integrated in other systems through the ELG	GATE, GATECloud, DKT, UDPipe, Tilde's and UEDIN's MT services, Weblicht, SAIL's ASR, KWS, sentiment (polarity) detection, age & gender detection tools, etc.
2) ELG Language Technology Tools, Services – functional Grid content, remotely invoked	Remote APIs (REST) can be registered, described, searched and integrated with the help of the ELG platform	Research and commercial services (e.g. GATE Cloud with 65+ NLP services, UDPipe), TILDE's and UEDIN's MT services, SAIL's and EXPSYS's services, etc.
3) ELG LRs/LTs – non-functional Grid content	Upload, describe, search, download data sets, source code, models etc.	Data sets from META-SHARE, ELRC-SHARE, ELRA, resources, models, tools etc.
4) ELG Information and metadata	ELG catalogue entries, e.g., of an LT provider company (no language processing functionality or code available in ELG, no data)	CRACKER, ELRA, ELRC (NAPs etc.), META-SHARE, CLARIN VLO, LingHub, LT World etc.



# EUROPEAN LANGUAGE GRID

## Pilot Projects

- ELG will provide close to 30% of the overall budget for small scale demonstrator projects (pilots) using Financial Support for Third Parties, selected among SME applicants through two open calls.
- Usage of LTs in specific applications, processes and operations; pilots should also demonstrate the usefulness of the ELG as being built within the project.
- Results will be made available through the ELG.
- Lightweight, open, transparent and expert-evaluation based selection process, following established successful practices of previous EC funded projects (e.g., ODINE).
- Single project up to 200,000€, with recommended minimal amount of 100,000€; duration of the projects is expected in the 9-12 months range.



# EUROPEAN LANGUAGE GRID

## National Competence Centres (NCCs)

- Network of 32 National Competence Centres (NCC) for outreach, communication and promotion activities.
- All academic organisations – to guarantee independence.
- Act as local bridges to the ELG consortium and platform.
- Selected based on participation in existing initiatives, taking into account scientific standing and connections to industry.
- Responsibilities: collect national/regional information about services, data sets, resources, tools, technologies, projects, research centres, experts, communities, companies, etc.; organise an event such as, e.g., a training workshop; promote ELG in their region; help with outreach and dissemination activities.
- NCCs as the backbone of the European LT Council.





# EUROPEAN LANGUAGE GRID

## Impact

- **Impact on Business and Industry**
  - Tackle fragmentation
  - Enable European SMEs to use LTs to expand their business online across many languages
  - Open up markets and foster growth
  - Connect demand and supply
  - Cost reductions
  - Reduced time-to-market
- **Impact on Innovation**
  - Provide HQ resources for fast and efficient experimenting with new methods and technologies
  - Enable businesses to grow and benefit from scaling up.
- **Impact on the Digital Single Market**
  - Unlock the DSM by making it multilingual and socially inclusive.
  - MT of e-commerce shops will enable SMEs to offer their services in more languages, take advantage of the DSM
- **Impact on Society and Multilingual Europe**
  - Prevent digital language extinction
  - Enable cross-lingual and cross-cultural communication

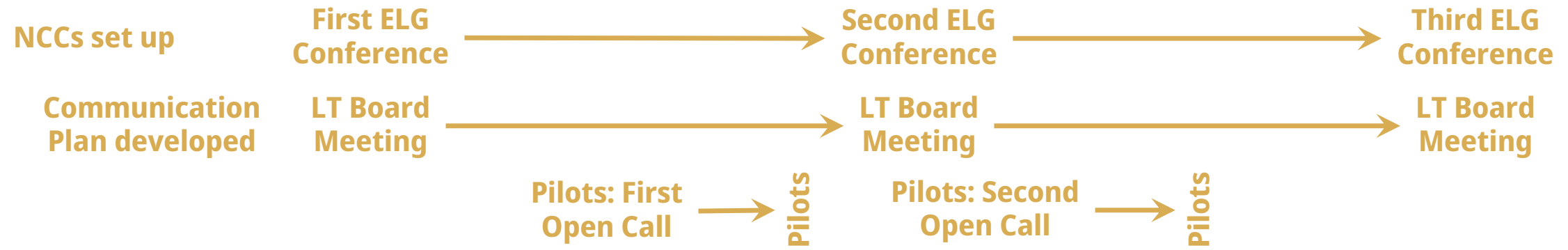


Prêt-à-LLOD

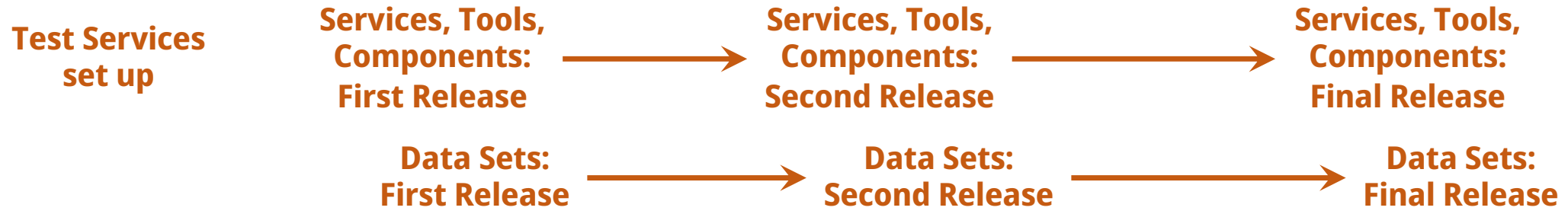
**Gourmet**  
Global Under Resourced Media Translation



Grid Community



Grid Content



Grid Platform



Mgmt.



# European Language Grid

All European language technologies, data and information in one place.

## Explore by topic



### Language technologies

Scripts, that include tools for translation, machine learning, language processing, speech recognition.



### Language data and resources

Data, that can be used to train machine learning algorithms. This can include speech transcriptions, multilingual translations.



### LT related information

Learn more about Language technologies. Get relevant training

## What are language technologies?

Language technology, often called human language technology (HLT), studies methods of how computer programs or electronic devices can analyze, produce, modify or respond to human texts and speech. It consists of natural language processing (NLP) and computational linguistics (CL) on the one hand, and speech technology on the other. It also includes many application-oriented

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**ANNIE English Named Entity Recogniser**

Type

Named entity recognition pipeline that identifies basic entity types, such as Person, Location, Organization, Money amounts, Time and Date expressions

**Cogito Discover Part of Speech Annotator**

Type

Part of Speech Annotator based on Cogito Discover. Cogito Discover is an Expert System scalable production-ready multilingual platform for text analytics. It can be integrated in any application and workflow, deployable as on-premises solution, as SaaS on a cloud platform, or on hybrid environments.

**Cogito Discover Semantic Annotator**

Type

Semantic Annotator based on Cogito Discover. Cogito Discover is an Expert System scalable production-ready multilingual platform for text analytics. It can be integrated in any application and workflow, deployable as on-premises solution, as SaaS on a cloud platform, or on hybrid environments.

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# ANNIE English Named Entity Recogniser

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Named entity recognition pipeline that identifies basic entity types, such as Person, Location, Organization, Money amounts, Time and Date expressions

## Creators

**Name:** Ian Roberts

**Metadata creation date:** 2019-07-29

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# ANNIE English Named Entity Recogniser

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# EUROPEAN LANGUAGE GRID

## Summary

- The ELG will be the primary platform for LT in Europe, uniting a network of European experts in the field.
- There is currently no other scalable cloud platform that serves as a broker for such a broad variety of multilingual services, resources and data sets.
- *From the European LT community for the community*
- New resources and services will be added continuously.
- As a market place for the European LT business space, ELG will strengthen Europe's position in this field.
- SMEs and research centres can apply for pilot projects to validate and evaluate the European Language Grid.





**What's next for Multilingual Europe?**  
Introducing the European Language Grid

**Thank you!**



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09-09-2019, ELSE-IF 2019 – Karlsruhe, Germany  
<http://www.european-language-grid.eu>

**META FORUM 2019**

Introducing the European Language Grid

8/9 October 2019

Brussels, Belgium

Announcing the ELG Open Calls: Learn how to receive financial support for pilot projects to test and extend the ELG platform!