

Meeting Minutes – Webinar on the Catalogue of Services: Natural Language Processing Knowledge Sharing Session 28/04/2022

Catalogue of Services Action

Project	Catalogue of services action - Natural Language Processing Knowledge Sharing Session	Meeting Date/Time	28/04/2022 10:00-12:00 (GMT+1)
Meeting Type	Webinar	Meeting Location	Cisco Webex Meetings
Stakeholders	<p style="text-align: center;">Conductor: Miguel Alvarez Rodriguez</p> <p style="text-align: center;">Facilitator: Zsófia Dudás</p> <p style="text-align: center;">Speakers: Louis Matha, Nathan Ghesquiere and Emidio Stani Luca TANGI Cecile GUASCH and Vidas Daudaravicius Emmanouil MARAGKOUDAKIS</p>	Issue Date	29/04/2022

	Georgi GITCHEV		
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Meeting Agenda
<ol style="list-style-type: none">1. Introduction2. Part 1: Presentation of the NLP study3. Part 2: How can the public sector benefit from the use of NLP?4. Part 3: Demo - How can the public sector use NLP?5. Part 4: What can we learn from a successful NLP initiative?6. Mural7. Part 5: Regulatory Compliance - How can public administrations comply with regulatory requirements?8. Conclusion

Webinar's participants

Attendee Name
Yordanka Ivanova
Marco Combetto - Italy
Marco Combetto
Martin Ulbrich
Anna Mastora
Florian Barthelemy - PwC
Theo Andersson
Dominic Taylor

Costas Simatos

Sander Van Dooren

Nuno Martins - Portugal

Daniele Giovannone

Giovanni Villari

Franck Cotton

Tamás Demeter - Hungary

Kristiina Lounasvuori

Luca ITA

Giacomo Ceribelli - AGID - Italy

ES - Ana Rosa

Dr. Sebastian Klotz - PwC

Martin Várszegi

PT Marco Pedro

Arunas

Xenophon Tsilibaris - GRNET

Micke

Robert RIEMANN

Federica Rosato

Molnár Emil - HU

Michalis Loutsaris

Nikos Vasilakis - GRNET

Giacomo Meloni

Danica Saponja

Anabel Fraga - UC3M

Francesca Gleria

Katarzyna

Riccardo Bongiovanni

M. Belén Fernández-Salineró García

André Lapa- PT

Anette

Christos Karelis

Kurt Stian

Yannis Charallabidis

Silvia Tursi

Petra Péntzes

Antonella Lunelli

Andreas Henningsson - DIGG

Vidas Daudaravicius - EC-JRC

Jean-Marc Museux

Javier Andrés - ES

Norman Calleja - MT

Tomas Sedivec - CZ

Ramiro B. Martínez

Emmanuel Jamin

Erik Hagen

Charis Vassiliou

Lorenzo Iannone

Cristina Gomez_Ministerio de Hacienda y Función Pública

Emmanouil Maragkoudakis

Szymon Mamrot - PL

Sopra Steria - Marie-Helene Wisecup

Cécile GUASCH- DIGIT D2

Elisa DI NUOVO

Nikola Nikolov

Georgi Gitchev

Geert

Jorge Sousa

Kirsi Mikkonen - FI

Auke - KVK - DOP

O Kissiyar

Rui Coimbra

Henrik Bengtsson - SE

Max De Wilde - CNECT-EXT

Judie Attard

MARCELA MAIDANIUC FONTANA

Emidio Stani

Jim Yang

Nathan Ghesquière

Alexandros GERONTAS

Luca TANGI - EC-JRC

Miguel Alvarez - DIGIT EC

Rebeka
Louis Matha - PwC
Zsófia Dudás- PwC
Nicolás Sánchez

Summary of the meeting	
Introduction	<p>Miguel Alvarez Rodriguez welcomed the audience and presented the agenda of the webinar.</p> <p>After explaining the webinar technicalities, He introduced each speaker.</p> <p>Then, an introduction was given on the Catalogue of Services Action:</p> <ul style="list-style-type: none"> • The purpose of the action • The assignments part of the NLP study <p>Finally, Miguel Alvarez Rodriguez presented the agenda and gave the floor to Nathan Ghesquière and Louis Matha to present the NLP study.</p>
Part 1: Presentation of the NLP study	<p>Nathan Ghesquière presented the application areas of NLP:</p> <ul style="list-style-type: none"> • Content categorisation • Topic discovery and modelling • Semantic text matching • Document summarization • Sentiment analysis • Automatic speech recognition • Machine translation <p>Louis Matha explained the structure of an NLP project:</p> <ul style="list-style-type: none"> • Statement of the issue • Make the team • Prepare the data • Create the NLP model • Deploy the NLP application • Maintain the model <p>During the Q&A, 3 questions were asked:</p> <ul style="list-style-type: none"> • Cécile GUASCH & Anabel Fraga: “do we need to define the goals at the beginning before starting the activities?” - Louis answered: yes, it should be in the first phase “Statement of the issue” • Cécile GUASCH: “does the categories that were presented reduce the

	<p>potentiality of NLP, can we mix categories?” Louis explained that “Yes, you can mix categories and it is already the case in the categories presented”</p> <ul style="list-style-type: none"> ● Emmanouil MARAGKOUDAKIS: “You mentioned speech recognition but what about speaker recognition and recognizing the subject, the audience ...?” Nathan answered: “Speaker recognition and recognizing subjects means mixing categories that we have presented before. It is totally possible”.
<p>Part 2: How can the public sector benefit from the use of NLP?</p>	<p>Luca Tangi presented how can the Public Sector benefits from the use of NLP with the following agenda:</p> <ul style="list-style-type: none"> ● Brief JRC presentation ● Our projects on AI in the public sector ● Results: landscaping overview ● NLP overview ● Some NLP examples <p>To keep enough time for the following presentations, the potential questions were answered in the chat.</p>
<p>Part 3: Demo - How can the public sector use NLP?</p>	<p>Louis Matha and Emidio Stani presented the context and a demo of the NLP prototype made for the NLP study.</p> <p>Cecile GUASCH and Vidas Daudaravicius presented the SeTa tool.</p> <p>During the Q&A, 3 questions were asked:</p> <ul style="list-style-type: none"> ● “Are you combining graph technologies with NLP?” Vidas Daudaravicius answered “Yes, we do”. ● “How do you deal with multilingualism?” Vidas Daudaravicius explained: “Currently, the tool only tackles English, but it is our next step to deal with other languages”. ● “How do you deal when you have one word in one language for multiple concepts in other languages?” Vidas Daudaravicius dealt with this issue by letting the language model learn the differences by itself.
<p>Part 4: What can we learn from a successful NLP initiative?</p>	<p>Emmanouil MARAGKOUDAKIS presented the AI4Education project with the following agenda:</p> <ul style="list-style-type: none"> ● Presentation of the stakeholders ● Context of the project ● Creation of the prototype ● Presentation of the two online services ● Explanation of the IT architecture and the main processes <p>No questions were asked.</p>
<p>MURAL</p>	<p>Zsòfia Dudas led the Mural exercise with two questions:</p> <ul style="list-style-type: none"> ● Which application areas are you the most interested in when it comes to NLP? (the audience had to vote) <p>Eventually, the Content Categorisation topic won the most votes, followed by Semantic text matching and Machine translation.</p>

	<ul style="list-style-type: none"> ● Please describe one project that you have prepared (examples). What are the next steps for your project? What support do you need to achieve your goals? <p>Julie Attard from Malta presented her project: National Language Technology Platform.</p>
<p>Part 5: Regulatory Compliance - How can public administrations comply with regulatory requirements?</p>	<p>Georgi Gitchev presented the proposal for an Artificial Intelligence Act with the following agenda:</p> <ul style="list-style-type: none"> ● Introduction: AI Act logic and rationale ● Main elements and principles: <ul style="list-style-type: none"> ○ Scope of the application ○ Horizontal risk-based approach ○ Main requirements ○ Implications for NLP systems ● State of play and next steps ● Other relevant legislation <p>During the Q&A, Miguel Alvarez Rodriguez asked if this kind of legislation was the first of its kind or whether there were other countries outside of the EU regulating AI. Georgi Gitchev explained no other similar legislation has been proposed outside of the EU.</p>
<p>Conclusion</p>	<p>Miguel Alvarez Rodriguez concluded the meeting by explaining the upcoming activities:</p> <ul style="list-style-type: none"> ● New course on CPSV-AP ● Release of CPSV 3.0 ● Follow up on the SDG