

# *AI applications in European Parliament administration - current status*

03/07/2023

Charalampos Moschopoulos  
CS - Data Analytics and Artificial Intelligence in Organisational Development



**European Parliament**

# AI Related Business Priorities



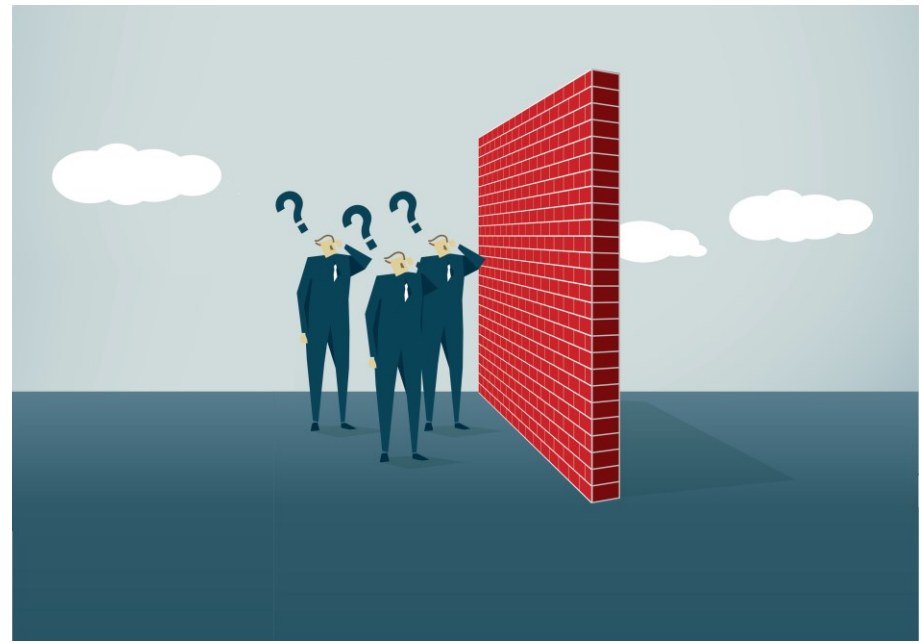
- Improved Information, Knowledge, and Insights Management.
- Improved prediction and decision support capabilities.
- Automated translation, transcription, and interpretation.
- Next-Generation human-computer interfacing.
- Enhanced security posture.
- Enhanced anomalies detection.

# Which are the main drivers of AI application in European Parliament?



- Towards a Data driven decision making European Parliament (EP)
- Human centric AI
- Ethical use of AI
- Automation and efficiency

# Current Organisational challenges



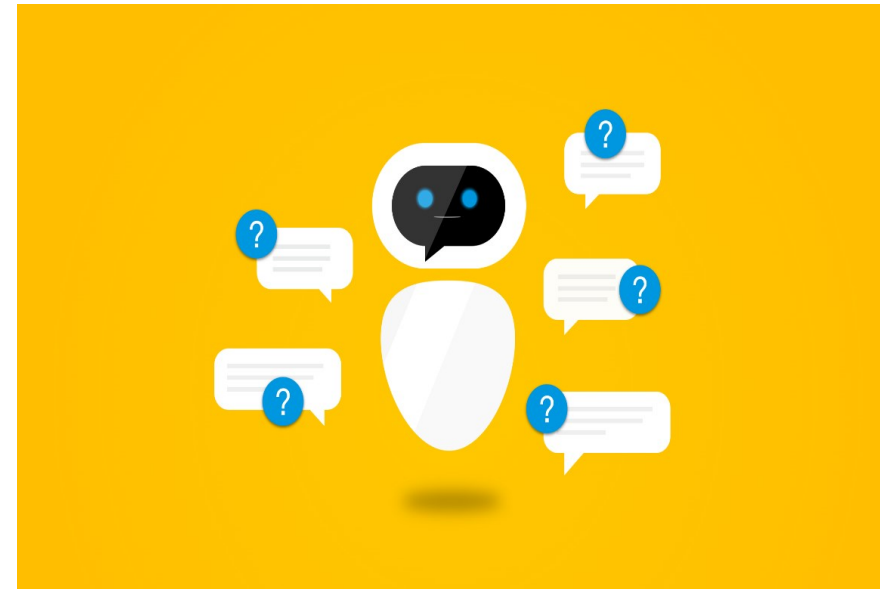
- European Parliament lacks the appropriate infrastructure for hosting AI solutions on prem.
- Not clear roadmap from Proof of Concept to Production.
- The data literacy level of our organisation is low, lacking of relevant specialised profiles.
- The culture of the organisation is too conservative to adapt innovate solutions based on AI.

# Deployed Applications in EP

- Chatbots
- Auto-summariser
- Machine translation
- Speech to text
- Automatic indexing of documents
- Low code Analytics Tools



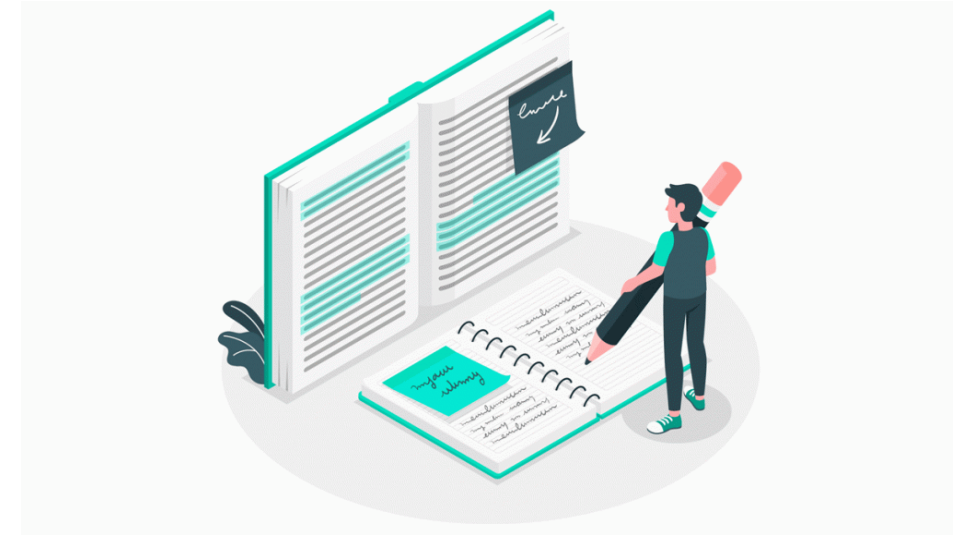
# Chatbots



- Automatising Q&A process.
- 7 chatbots have been deployed so far in different business sectors
- Business owners take control of the created chatbots
- Different features have been tested:
  - Multilingualism
  - Browsing options
  - Connections with legacy systems
  - Exposed to external audience

# Auto-summariser

- Digestion of big volumes of text is essential
- Different types of autosummarisation:
  - Extractive
  - Abstractive
- Different applications are available to European Parliament Personnel:
  - Microsoft Editor
  - [EC eSummary](#)
  - [EP summariser](#)
  - Amazon service



# eTranslation



- eTranslation is a cutting-edge neural machine translation service provided by the European Commission.
- [eTranslation](#) is accessible from all EU institutions, public administrations, universities, EU freelance translators, SMEs, European NGOs and projects financed by the Digital Europe Programme.
- Translates from and into any EU language, securely, while offering several styles of translation and supporting different input formats



# Speech to text



- Real-time Speech-To-Text and Machine Translation Tool
- Deployed for webstreaming events
- Supporting all EU languages
- The tool is offered as dedicated [platform](#)

# Automatic document Indexer



- This indexing process makes it easier to find documents within an organization, improving efficiency and productivity.
- Currently, an [automatic document indexer](#) using EUROVOC is available in the EP.
- Respective services are using it as starting point
- New categories of documents can be now indexed
- 615 613 requests in May - less than 4 cts per 1000 documents

# Low-Code Analytic Tools

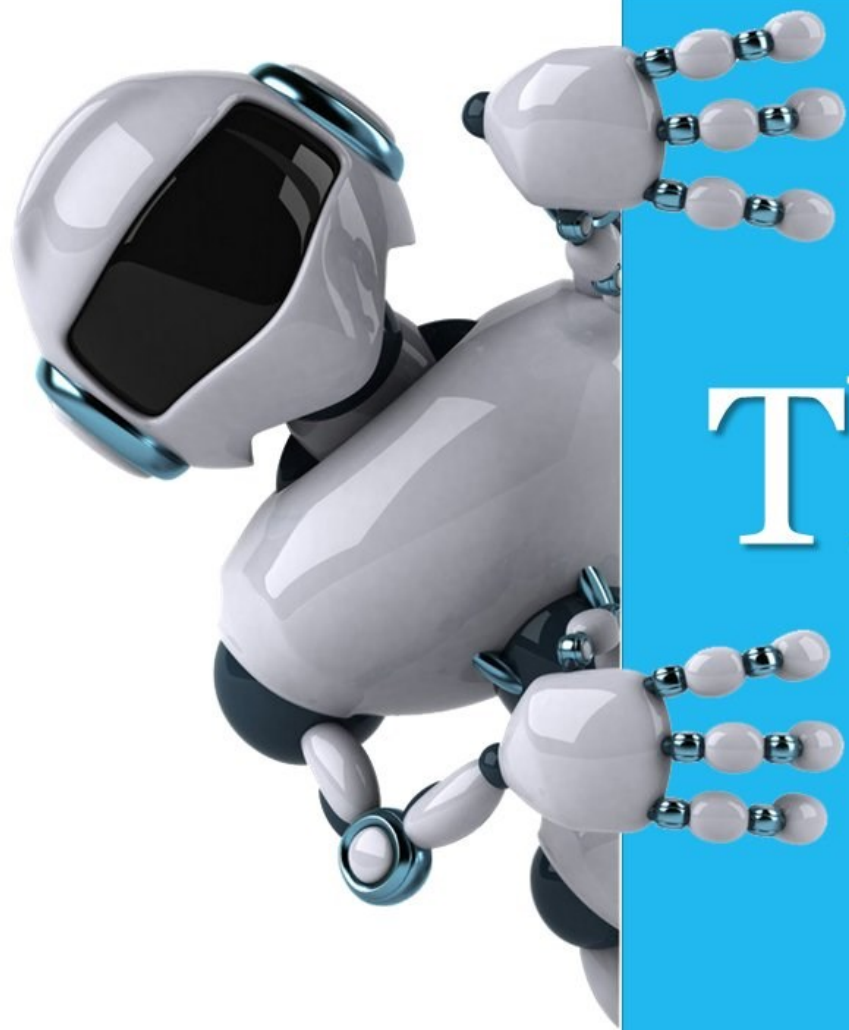


- KNIME is an open-source data analytics platform that helps organizations analyze and process data efficiently.
- In European Parliament, its free flavor, KNIME client, is available upon request from IT service desk.
- It is considered as a first step towards the automatisisation of process in the organization and suitable for teams without IT expertise.

# Applications not in Production



- Talent management solution for the HR
- Resource scheduling for the events of EP
- [Information extraction](#) for the declaration of expenses
- [Information retrieval](#)
- Scanning and digesting Press releases
- Multiple applications on facilitating legislative procedure



Thank you