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Pre-conference  
workshops

# Smart functionalities for drafting legislation in LEOS

AI in digital-ready policy design and legal drafting

Dr. Fotis Fitsilis

Scientific Service / Hellenic Parliament



## Structure of presentation

➤ Smart functionalities (SFs)

➤ The study and its objectives

➤ Methodology

➤ Results

➤ Next steps

➤ Disclaimer

# What are “smart functionalities”?

- Advanced & intelligent software capabilities to enhance system performance
- Utilise both AI & legacy technologies (‘no AI without IA’)
- Provide for an “augmented” LEOS
- Automate tasks, improve user experiences & make data-driven decisions
- Potential to transform the law-making process

# Study and objectives

## Study

- June 2023 – January 2024
- Owner: Secretariat–General
- Contracting Authority: DG DIGIT
- Implementation: [HOCRT](#)
- Stakeholders: EC, MS, community

## Objectives

- Identify smart functionalities
- Attempt categorization
- Assess business value
- Investigate techno-business feasibility
- Provide a high-level roadmap

# Methodology

## Desk review

- [Reference study](#) on Legal Drafting in the Era of AI and Digitisation (2022)
- Identification of original SFs
- Literature & technology review

## Field data

- Empirical data collection
  - ✓ Questionnaire
  - ✓ Interviews
  - ✓ Technical workshop on LEOS
  - ✓ Reflection group meeting



# State-of-play

- Questionnaire data (34 SFs)
  - ✓ Distribution of picks across the original SFs
- Interviews (11)
  - ✓ Identification on new SFs
- Interim report delivered in late September 2023
- On-going analysis of empirical data

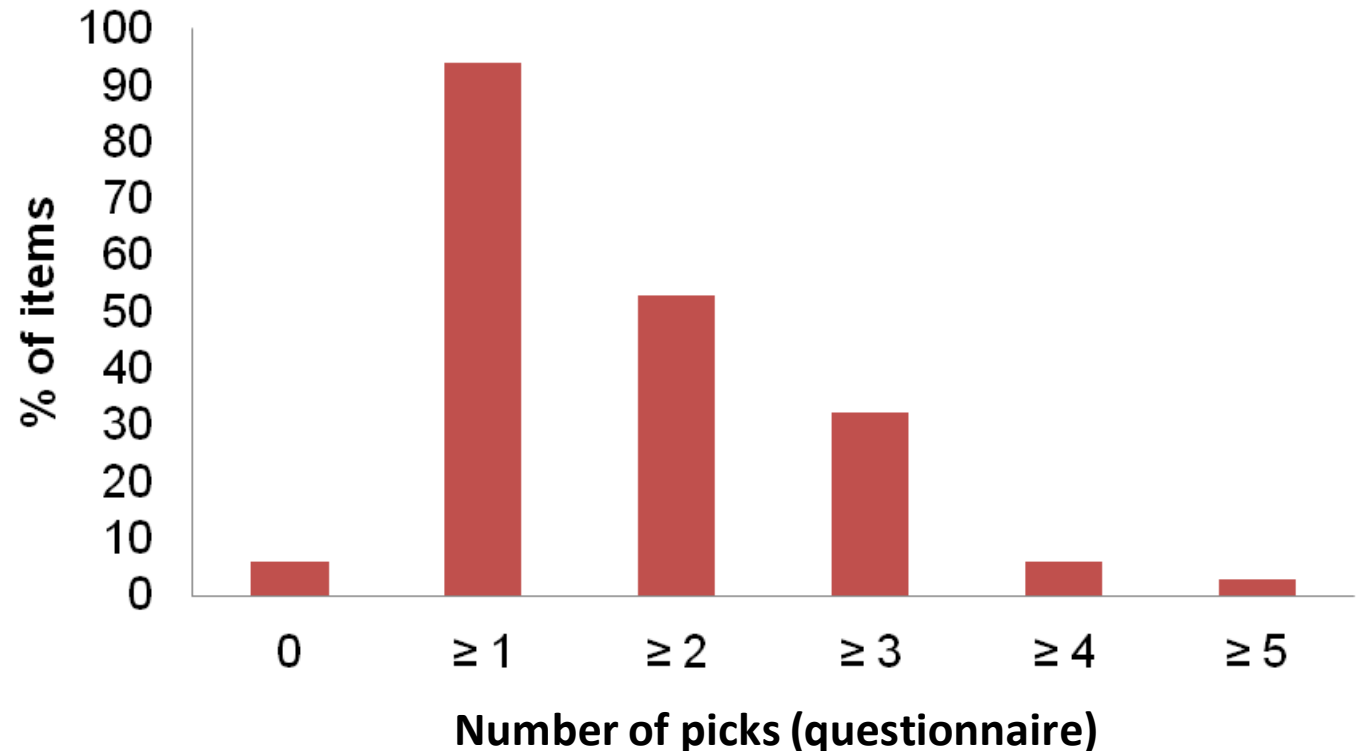
## Results – Questionnaire

### Top picks (> 4 picks)

- Correlation between recitals and the enacting terms
- Automatically identify relevant legislation for developing acts

### No picks

- Classification of corrigenda
- Discover concrete practices of different styles of drafting



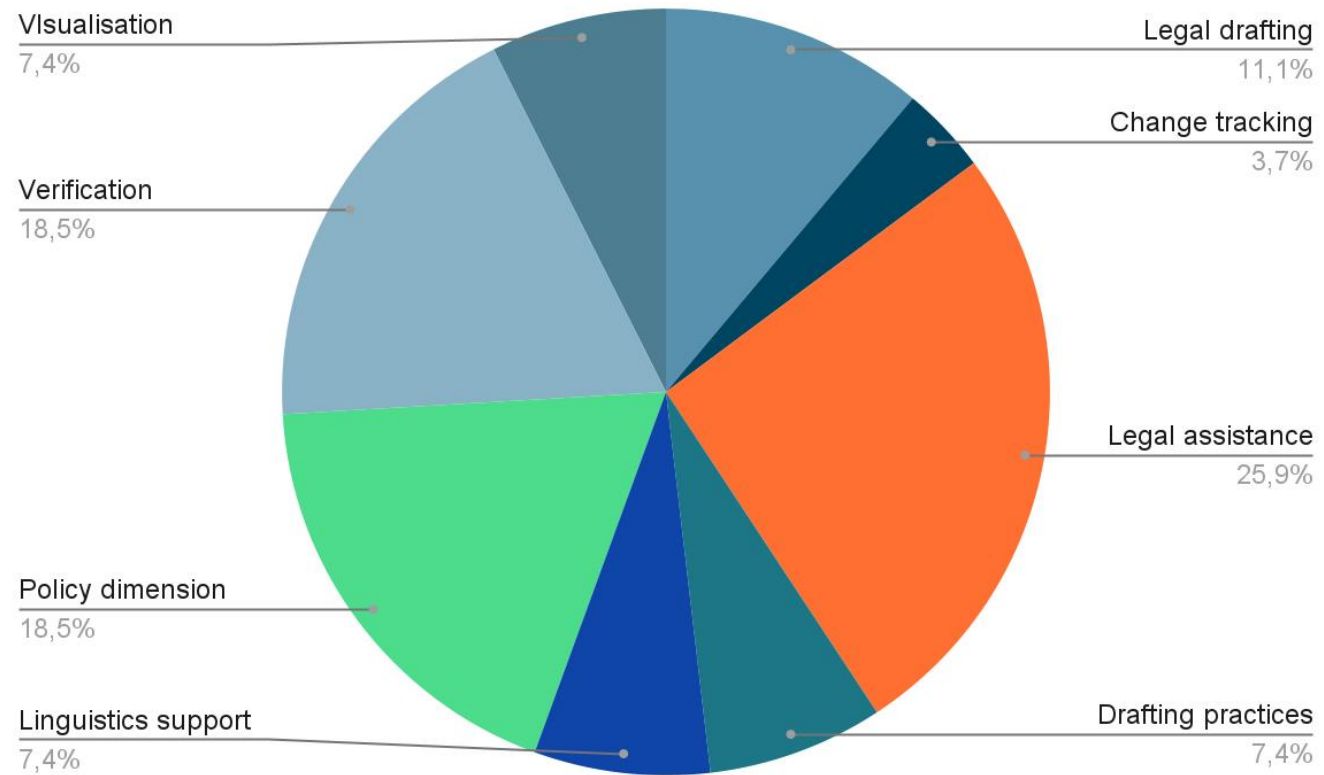
*Distribution of picks (questionnaire)*



## Results – Interviews

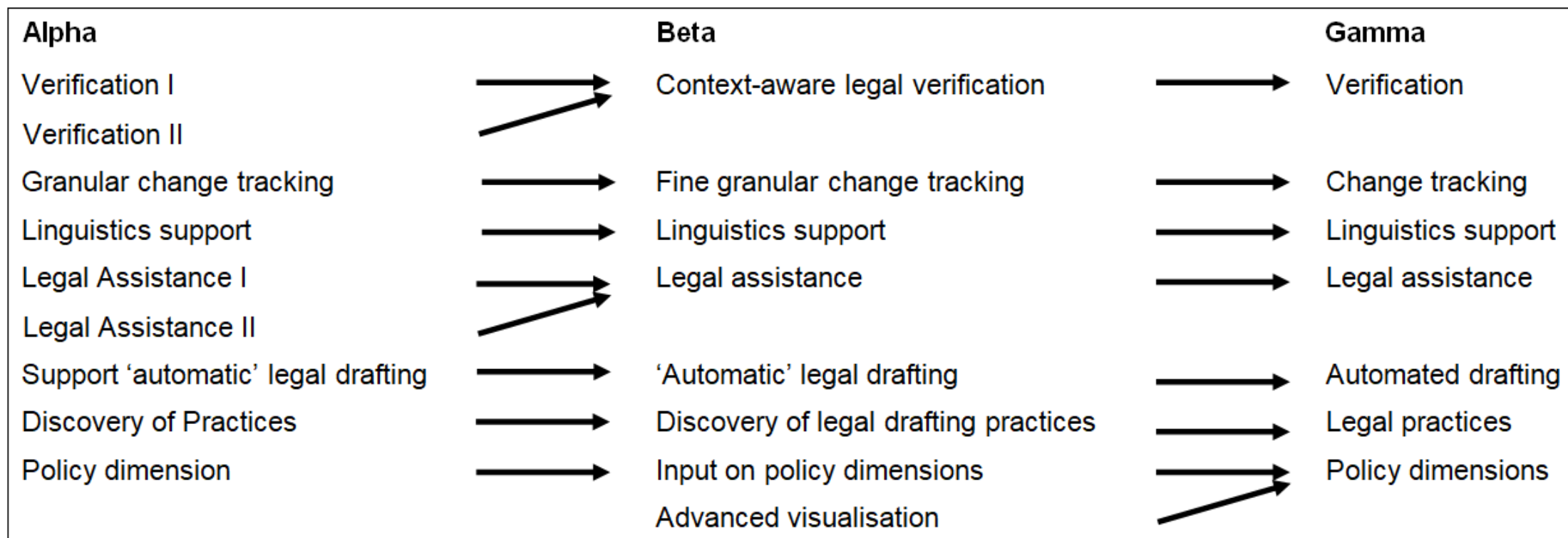
- EC experts indicated 44 new functionalities
- Following refinement and cross-checking, 44 → 27
- Results in a total 61 SFs [34 (original) + 27 (new)]
- Highlights:
  - ✓ Smart templates
  - ✓ Avoid common errors based on predictability of drafting customs
  - ✓ Automatic secondary text generation (e-briefing, press releases, summaries...)
  - ✓ Keeping track of the origin of data (e.g. via watermarking)

# Categorization



*Intermediate (beta) categorization of new SFs (interviews)*

# Categorization (continued)



*Categorization process from alpha to gamma*



	User Experience (UX)	Business value	Technology stack	Data sets	Performance
<b>Verification</b>	Non-intrusive; proactive & reactive	Quality; <b>validated outcome</b>	UX event handlers; asynchronous API calling & throttling	Local & external repos of legal data	Avoid disruption in drafting during verification
<b>Change tracking</b>	Side by side comparisons or inline visualisation	Unnoticed accidental changes	Aligned front-end technologies; <b>3rd party visualisations</b>	Existing current and past versions of drafted legal data	Support for large documents
<b>Linguistics support</b>	Non-intrusive; proactive & reactive; suggestions in modal form / side panels	Quality; validated outcome	UX event handlers; asynchronous API calling & throttling	Linguistic ref data	Disruption of drafting during data set retrievals
<b>Legal assistance</b>				Legal ref data Cross referencing	
<b>Automated drafting</b>		Consistency; out-of-date data;	<b>On-premise/enterprise cloud LLMs</b> ; trusted vendor via secure API	Repositories of prebuilt templates & amendments	
<b>Policy dimensions</b>		Different policy perspectives	Heavy processing in the business layer; API endpoint as aggregator to multiple repositories	<b>Policies &amp; guidelines repos</b>	Infrastructure workload
<b>Legal practices</b>		Quality; algo reviewing; review efforts		Predefined suggestions & patterns repos	Avoid disruption in drafting during verification

## Next steps

- Evaluating input from:
  - ✓ Reflection group
  - ✓ SEMIC 2023
- Final report → December 2023
- High-level roadmap → January 2024
- Open publication → February 2024





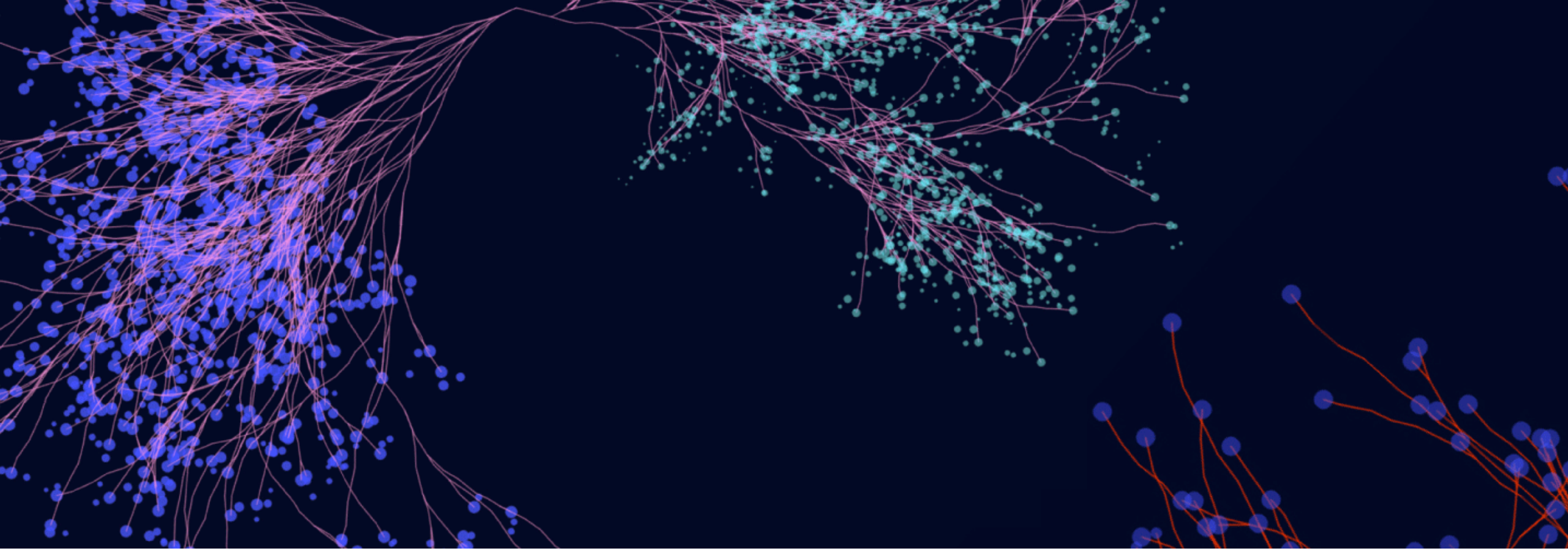
<https://hellenicOCRteam.gr>

[info@hellenicOCRteam.gr](mailto:info@hellenicOCRteam.gr)

# Thank you!

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