

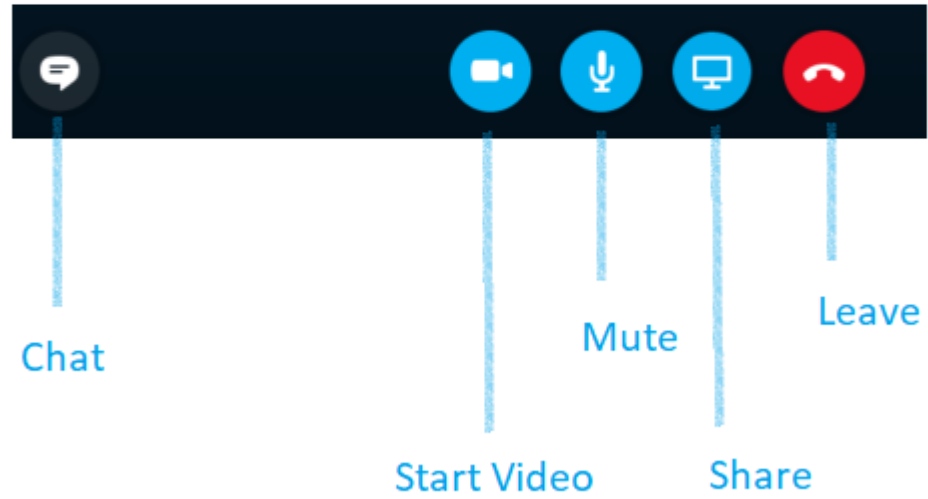


LEOS 5th community webinar

22 February 2022



Ground rules



AGENDA

1. Welcome – 10.00
2. Study on ‘Drafting legislation in the era of AI and digitisation’ – 10.15
3. Main findings of the study– 10.20
4. Q&A – 10.45
5. Demonstrating the potential of the use of advanced IT in drafting law – 10.50
6. Q&A – 11.15
7. Smart functionalities in LEOS – 11.20
8. Q&A – 11.45
9. Closing – 11.50



1. Welcome

By Cristina Stanculescu, Policy Officer Interinstitutional projects, European Commission

Welcome

- Back in September 2021: 4th LEOS webinar
 - New LEOS release
 - Complexity of deploying IT in the world of law making
- Today: **5th LEOS webinar**
 - Smart future of LEOS
 - Very rapidly evolving IT world: laws becomes 'machine-processable'
 - Adoption of AI and digitisation in the 'art of law making'
- **Update on LEOS/EdiT in the Commission**
 - Roll-out of EdiT
 - Funding of LEOS/EdiT beyond 2022

Update on LEOS/EdiT in the Commission

Roll-out of EdiT

- Implementation of **cultural change**
 - Different way of drafting and adopting legislation
 - Thousands of staff impacted
 - Set up a professional service function
 - Turning EdiT into a product
 - Develop the LEOS community
- **7 EdiT pilots/150 colleagues involved for drafting and adoption of ‘real’ acts**
 - Close monitoring and pro-active support
 - Very encouraging feedback: user-friendliness, intuitiveness, ‘fit for purpose’
 - Gains in quality and efficiency

Update on LEOS/EdiT in the Commission

Funding beyond 2022

- Draft a **new proposal for funding LEOS under Digital Europe Programme in 2023-2024**
- Adopt **‘LEOS open-source first approach’**
 - Use open-source development platform (GitLab)
 - Co-develop LEOS
 - Review the LEOS governance structure
 - Set up LEOS Open-Source Programme Office
- **Reach out to Member States** and bodies to promote LEOS and relevant standards (AKN4EU)
- **Provide legal drafters and policy developers with information/data and smart ‘algorithms’**

Looking forward for the day

- **‘Primeur’ on the results of the study on ‘Drafting legislation in the era of AI and Digitisation’**
 - Bigger picture emerging: ‘IT eco-system with an augmented LEOS at its core’
 - Paradigm shift: ‘machines understanding law’
- **Your active participation in the webinar is key!**
 - Q&A, chat function
- **Your feedback will be instrumental in shaping the future of LEOS!**



2. Study on ‘Drafting legislation in the era of AI and digitisation’

By Fernando Nubla, Project Office LEOS, European Commission

Objectives of the study

political imperative to
continuously

*improve the
legislative
process*

necessity and desire to

*embrace
and
experiment
innovation*

in public administrations

the requirement to put

*technology
at the service
of the user,*

i.e., the legal drafter and policy
developer in this case

Execution

Contractor **University of Bologna**

Started on 1.1.2021 for a duration of 11 months

- Extensive desk **research/literature review**
- Broad **consultation** in the Commission
- Close **cooperation** between the Contractor and the Commission
- Focus on legal drafting and **what is doable** in the near future
- Provide **concrete results** that inspire and provide a glimpse of how smart IT can/will assist better law making inter alia by piloting use cases and developing mock-ups

General learnings - summary

- We are **at the verge** of a **paradigm shift** brought about by **‘Machine Processable Law’**
- A promising **new concept** referred to in the study as **‘Law as a Platform’** is **emerging**. This considers the unique characteristics of law-making, and is based on different disciplines including philosophy of law, legal informatics and e.g. computational linguistics
- The **value** of (and obstacles for) of an **integrated IT eco-system** with an **augmented LEOS at its core**
- The **need** for **human oversight** and a **hybrid AI approach**
- The **potential** of **technology/innovation** is **huge** and the **time is to act is now!**

What is next?

- **Make the study results known**, discuss their implications and the possible next steps
- **Fulfil identified preconditions** starting by ensuring management engagement
- **Address identified roadblocks** with a high alertness on ethical issues
- **Elaborate and implement an action plan.** This should at least include
 - A detailed communication plan,
 - Do further work on (and identification of) additional uses cases close to the business, and
 - Set-up of a multi-disciplinary team to take an agenda forward



3. Main findings of the study

By Prof. Monica Palmirani – University of Bologna, CIRSIFID-ALMA AI – Italy.

Presentation available here:

<https://joinup.ec.europa.eu/sites/default/files/inline-files/Palmirani-2022-02-22-Leos.pdf>



4. Q&A

Moderated by Fernando Nubla, Project Office LEOS, European Commission



5. Demonstrating the potential of the use of advanced IT in drafting law

By Prof. Monica Palmirani – University of Bologna, CIRSFID-ALMA AI – Italy.

Presentation available here:

<https://joinup.ec.europa.eu/sites/default/files/inline-files/Palmirani-2022-02-22-Leos.pdf>



6. Q&A

Moderated by Fernando Nubla, Project Office LEOS, European Commission



7. Smart functionalities in LEOS

By Fernando Nubla, Project Office LEOS, and Jean-Christophe Willain,
external consultant, European Commission

Drafting assistant

What if, LEOS would help with the drafting itself ? Helping the user on the content he adds...?

This is what we think about now with .. the drafting assistant.

A tool based on modular AI component which would help for instance in :

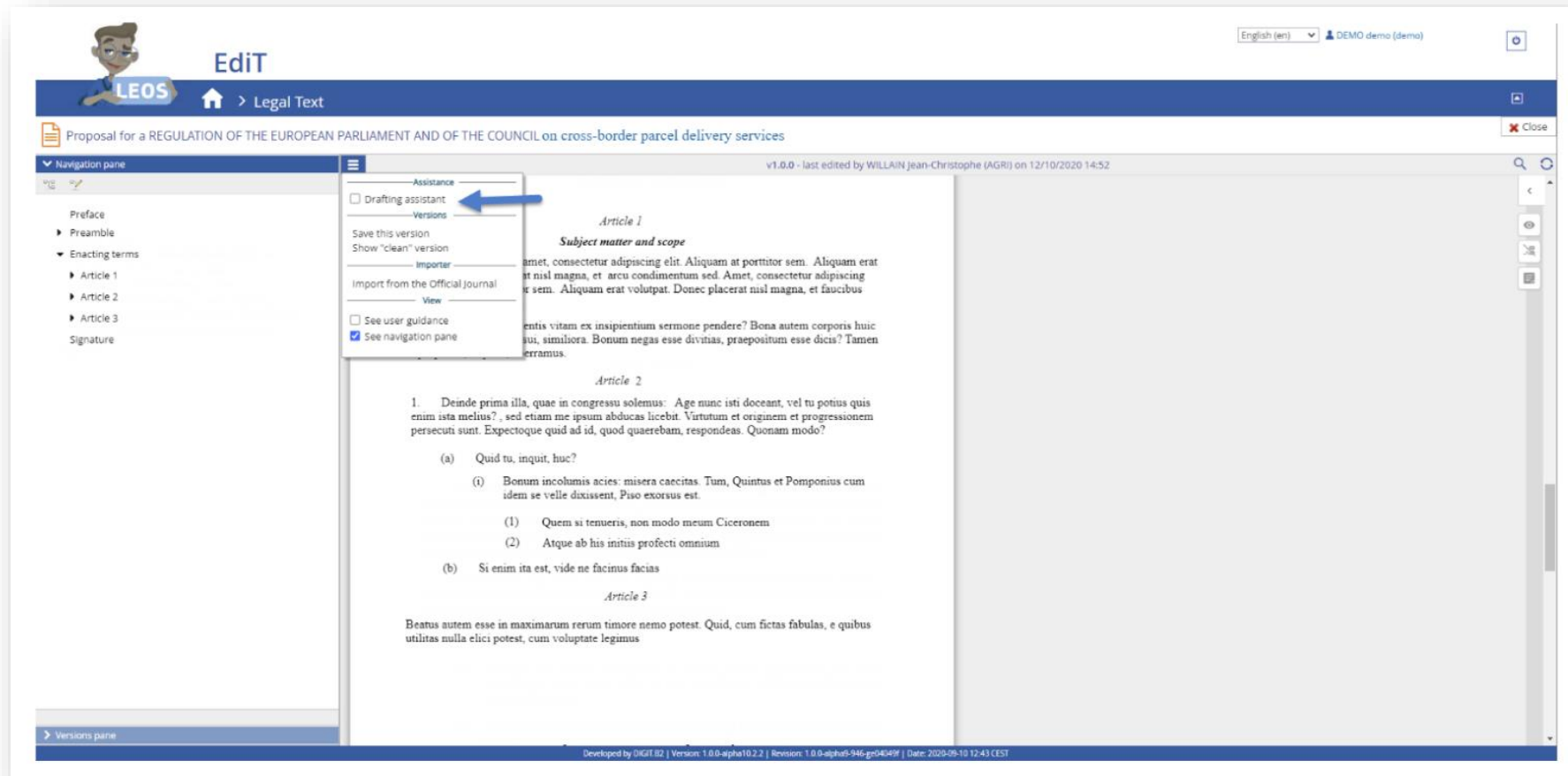
- content validation
- content enrichers
- content suggestion
-

Let's discover a small story based on mocks to illustrate this...

GET HELP



Drafting assistant



The screenshot displays the EdiT web interface for legal text drafting. The top navigation bar includes the LEOS logo, the text "EdiT", and a home icon followed by "Legal Text". The main header shows the document title: "Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on cross-border parcel delivery services". A navigation pane on the left lists sections: Preface, Preamble, Enacting terms (with sub-items Article 1, Article 2, Article 3), and Signature. A central menu is open, showing options under "Assistance" (Drafting assistant, checked), "Versions" (Save this version, Show "clean" version), "Importer" (Import from the Official Journal), and "View" (See user guidance, See navigation pane, checked). The main text area contains Latin text for Article 1 (Subject matter and scope), Article 2 (a list of numbered items), and Article 3 (a single paragraph). The footer includes development information: "Developed by DGAT.B2 | Version: 1.0.0-alpha10.2.2 | Revision: 1.0.0-alpha9-946-pr04049 | Date: 2020-09-10 12:43 CEST".

Suggestion by drafting assistant

The screenshot displays the EdiT web interface. At the top left is the LEOS logo and the text 'EdiT'. The top right shows 'English (en)' and 'DEMO demo (demo)'. Below the header is a navigation bar with a home icon and 'Legal Text'. The main content area shows a document titled 'Proposal for a REGULATION OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on cross-border parcel delivery services'. A navigation pane on the left lists sections: Preface, Preamble, Enacting terms (Article 1, Article 2, Article 3), and Signature. The main text area contains the following content:

v1.0.0 - last edited by WILLAIN Jean-Christophe (AGRI) on 12/10/2020 14:52

Having regard to the Treaty on the Functioning of the European Union, and in particular Article [...] thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national Parliaments

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the ordinary legislative procedure,

Whereas:

(1) Recital...

(2) Recital...

HAVE ADOPTED THIS REGULATION:

Article 1

Subject matter and scope

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at porttitor sem. Aliquam erat volutpat. Donec placerat nisl magna, et arcu condimentum sed. Amet, consectetur adipiscing elit. Aliquam at porttitor sem. Aliquam erat volutpat. Donec placerat nisl magna, et faucibus arcu condimentum sed.

Quid turpius quam sapientis vitam ex insipientium sermone pendere? Bona autem corporis huic sunt, quod posterius posui, similiora. Bonum negas esse divitias, praepositum esse dicis? Tamen a proposito, inquam, aberramus.

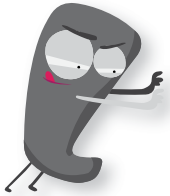
Article 2

Subject matter and scope

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam at porttitor sem. Aliquam erat volutpat. Donec placerat nisl magna, et arcu condimentum sed. Amet, consectetur adipiscing elit. Aliquam at porttitor sem. Aliquam erat volutpat. Donec placerat nisl magna, et faucibus arcu condimentum sed.

At the bottom of the interface, it says 'Developed by DIGIT B2 | Version: 1.0.0-alpha10.2.2 | Revision: 1.0.0-alpha9-946-ge040-9f | Date: 2020-09-10 12:43 CEST'.

Drafting assistant



Having regard to the Treaty on the Functioning of the European Union, and in particular Article [...] thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national Parliaments

Having regard to the opinion of the European Economic and Social Commi

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the ordinary legislative procedure,

Whereas:

Citation ✓ Correct ✗ Ignore

Comma - A comma must be at the end of each citation.

Context aware verification of the correct usage

Drafting assistant

After transmission of the draft legislative act to the national Parliaments
Having regard to the opinion of the European Economic and Social Committee¹,
Having regard to the opinion of the Committee of the Regions²,
Acting in accordance with the ordinary legislative procedure,
Whereas:

(1) This regulation shall be applied to the minime vero istorum quidem, inquit

(2) Diodorus vacuitatem

HAVE ADOPTED THIS

Recital ✓ Correct ✗ Ignore

Do not use **shall** in non-enacting terms such as **recitals** or annexes or in subordinate clauses in enacting terms."

Article 1

Proper wording proposal by the drafting assistant



Drafting assistant

Having regard to the Treaty on the Functioning of the European Union, and in particular Article [...] thereof,

Having regard to the proposal from the European Commission,



Having regard to the opinion of the European Economic and Social Committee¹

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the ordinary legislative procedure,

Whereas:

(1) Recital...

(2) Recital...

Autocomplete feature inside the edition area



Having regard to the Treaty on the Functioning of the European Union, and in particular Article [...] thereof,

Having regard to the proposal from the European Commission,

After transmission of the draft legislative act to the national Parliaments,

Having regard to the opinion of the European Economic and Social Committee¹

Having regard to the opinion of the Committee of the Regions²,

Acting in accordance with the ordinary legislative procedure,

Whereas:

(1) Recital...

(2) Recital...

Final text saved after the use of the autocomplete feature

Drafting assistant

Article 2
Definitions

For the purposes of this Directive, the following definitions apply:

(a) 'mobile application' means software designed by public sector bodies, for use by the general public.

(b) 'standard' means...

[Definitions](#) ✓ Correct ✗ Ignore

We have found the following definition for "mobile application":

'mobile application' means application software designed and developed, by or on behalf of public sector bodies, for use by the general public on mobile devices such as smartphones and tablets. It does not include the software that controls those devices (mobile operating systems) or hardware;

Definition check by the drafting assistant



Content validator

Article 1

Subject matter and scope

Lorem ipsum dolor sit amet, consectetur adipiscing elit. eligible liabilities aliquam erat volutpat. Donec placerat nisl magna, et arcu condimentum sed. at porttitor sem. Aliquam erat volutpat. Donec placerat nisl magna, et arcu condimentum sed.

Quid turpius quam sapientis vitam ex insipientium sermone periclitari? Quis enim non videt, quod posterius posui, similia. Bonum negas esse divitias, praepositum esse dicis? Tamen a proposito, inquam, aberramus.

Adapted terms

✓ Correct ✗ Ignore

In the <https://eur-lex.europa.eu/eli/dir/2019/879/oj> we found the following modification
"in point (70), the words 'eligible liabilities' are replaced by the words '**bail-inable liabilities**';"

Proper term use based on actual legislation

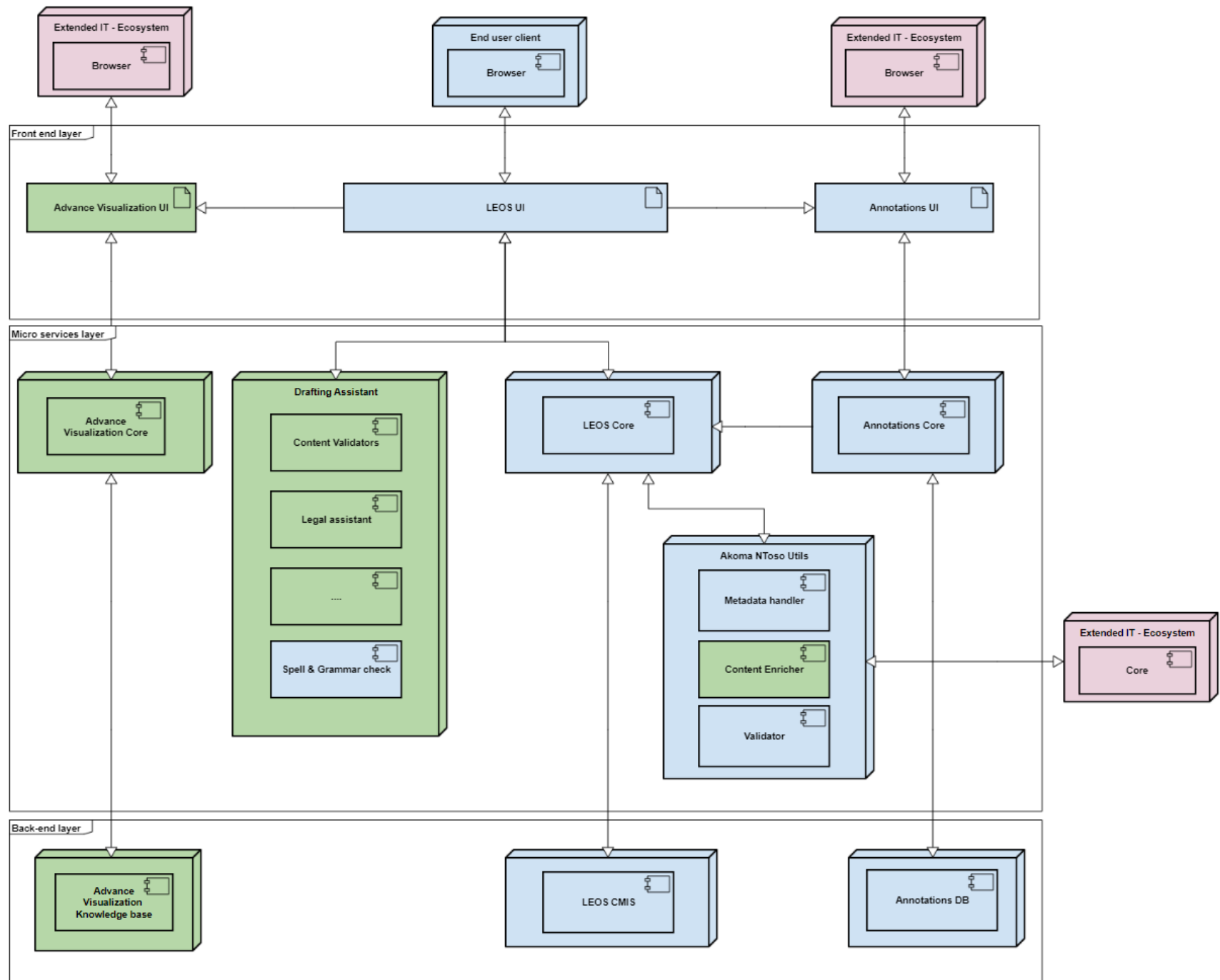
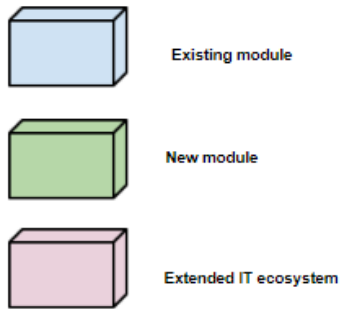
Content validator

Article 1

Maternity benefits

1. The Member States shall take the necessary measures to ensure that female self-employed workers and female spouses and life partners referred to in Article 2 may, in accordance with national law, be granted a [m]f [t] their occupational activity owing to
2. The Member States may d [t] paragraph 1 is granted on a mandatory or voluntary basis.
- Adapted terms ✓ Correct ✗ Ignore
"female spouses" should be substituted with "partner"

Gender-balance proposal by the drafting assistant





8. Q&A

Moderated by Fernando Nubla, Project Office LEOS, European Commission



9. Closing

By Fernando Nubla, Project Office LEOS, European Commission

Keep in touch



Subscribe to our newsletter [here](#).

Thank you



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