

# Deliverable 5.1 Training manual and project booklet

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ADELE (GA No. 101007420)



# 1. Document History

Version	Date	Author	Partner	Description
1.0	02/05/2023	Federica Casarosa	EUI	First draft
2.0	10/05/2023	Federico Galli	UNIBO	Revisions
3.0	28/05/2023	Hristo Konstantinov,	APIS	Integration of
		Lilla Kachoreva		materials
3.1	31/05/2023	Federica Casarosa	EUI	Consolidation
4.0	05/06/2023	Giovanni Sartor,	UNIBO	Final version
		Federico Galli		

# 2. Contributors

Partner	Name	Role	Contribution
EUI	Federica Casarosa	WP leaders	Drafting of the project
			booklet
APIS	Hristo Konstantinov, Lilla	WP	Drafting of the training
	Kachoreva	Participant	document
UNIBO	Federico Galli	WP	Revision and integration of
(Cirsfid)		Participant	glossary



## 3. Summary

The present deliverable contains the training manual of the ADELE pilot tool and the project booklet.

The *training manual* is an operative document presenting the features of the ADELE tool, its potential use and the support it may provide for judges in judicial proceedings.

The *project booklet* is a short presentation of the ADELE project and its outcome to be distributed among judicial professionals, policymakers and other stakeholders.



# ADELE

# Analytics for DEcision of LEgal cases

# **Training Manual**



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## Content

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## I. Content scope of the ADELE Pilot Tool

#### 1. Home screen

The home screen of the pilot tool provides brief information about the Project and access to the legal content in the system by selecting the country and legal domain, respectively Bulgaria or Italy, and Value Added Tax or Trademarks and Patents. The tool also allows the user to choose the interface language: Bulgarian, Italian or English.

Since the development of the platform is part of the ADELE Project, which is implemented with the support of the EU Justice Program, brief information can be found on the home page about the project objectives, activities and expected results, as well as a link to the project website.





#### 2. Types of documents according to source and legal area

The content of the pilot tool includes decisions of national courts from two EU member states – Italy and Bulgaria – in two legal domains:

- *Value Added Tax* mainly with a focus on exemptions and deductions.
- *Trademarks and Patents* infringement claims.

For each of these countries and jurisdictions, there is a separate access option from the home screen:

A A A A A A A A A A A A A A A A A A A	About the Tool About the Project Partners ${\rm EN}$ ${\color{red}{\star}}$
ADELE PILOT TO	OL
Developed under the ADELE project, this pilot tool applies methods of artificial intelligence learning and natural language processing – to analyse case law with the aim of extracting	and legal analytics – a blend of data science, machine knowledge and predicting the outcome of legal cases
Select country and legal area and explore t	he features of the tool:
Bulgaria Value added tax Trademark and patents	Value added tax Trademark and patents

In addition to the national case law section, the tool also provides access to Bulgarian and Italian legislative acts, as well as EU legislation and established case law of the Court of Justice of the EU, that are applicable and relevant to the selected legal domains. After the country and legal area have been selected by the user, the main page of the tool opens, providing access to four groups of documents according to their type and source:

- National Case Law
- National Legislation
- EU Case Law
- EU Legislation.



The relevant documents within these sections can be viewed via buttons in the upper horizontal bar.

	🚖 Outcome prediction 🗠 Citation analysis 🏩 Argument Extraction 🚓 Ontology Search Q EN 👻
National Case Law (235)     National Legis	lation (9) EU Case Law (309) EU Legislation (25)
Filters	Documents - 235
ANNOTATION Annotated	Sentenza 25/2022 della Commissione Tributaria Regionale Per Il Lazio Sezione 07, • Keywords
COURT Commissioni Tributarie Provinciali Commissione Tributaria Di Primo Crado Di Teato	omesso versamento di IVA, fatture da emettere, autorizzazione allo svolgimento dell'indagine finanziaria, obbligo di motivazione, soci finanziamento Summary Infondato è il primo motivo con il quale l'appellante denuncia la nullità dell'avviso di accertamento per mancanza dell'autorizzazione delle indagini
Commissione Tributaria Provinciale Di Aosta     Commissione Tributaria Provinciale Di Asti     Commissione Tributaria Provinciale Di     Asti	Sentenza 2616/2021 della Commissione Tributaria Regionaledi Sicilia Sezione 8 Keywords stoccaggio, reato, acquisto, sentenza penale assolutoria, Amministrazione finanziaria, prove acquisite in sede penale, scrittura privata di acquisto, verbale
Bologna     Commissione Tributaria Provinciale Di     Commissione Tributaria Provinciale Di     Commissione Tributaria Provinciale Di	Al riguardo, occorre premettere che l'orientamento giurisprudenziale è nel senso che nel processo tributario, la sentenza penale irrevocabile di Sentenza 4077/2021 della Commissione Tributaria Regionale Di Lombardia Sezione 11
Cremona Commissione Tributaria Provinciale Di Messina	<ul> <li>Automatically extracted keywords</li> <li>contribuente, enti non commerciali, associazioni sportive dilettantistiche, regimi fiscali, pagamento di corrispettivi specifici, scrittura privata autenticata o</li> <li>Automatically extracted summary</li> </ul>
<ul> <li>Commissione Tributaria Provinciale Di Teramo</li> </ul>	Sicché, la prevalenza della natura dell'intrattenimento dei ragazzi - sia pure sotto forme di gioco, di riposo, di pranzo e di svago- fa venir meno la natura 🦿 🛠 🕇 2 3 4 5 <b>&gt; &gt;</b>
The ADELE project is co-funded by the Justice Programme o any responsibility for use that may be made of the informati	f the European Union (2014-2020). The content of this website represents the views of the partners of the ADELE project and is their sole responsibility. The European Commission does not accept on it contains.

By default, after selecting a country and legal domain, the tool displays the list of documents on the right side of the screen in the "National Case Law" section. Filters are available on the vertical panel to the left, which can be used to reduce and specify the number of documents according to user preference. To apply a filter, the user has to place a tick on the corresponding checkbox fields. Multiple filters can be applied simultaneously. The ones available for national case law are "Court", "Result", "Year", "Annotation" (i.e., whether or not the decision was part of the annotated dataset), and one additional in the field of trademarks and patents - "Object of legal protection" (i.e., either trademark or patent).

# **II.** Searching and filtering the result

#### 1. Submitting a search request. Filtering the result

The platform provides a full-text search in the document collection for the chosen country and legal domain. The field for submitting a search request is in the work screen's upperright corner.



If, for example, in the collection of documents "Bulgaria – Value Added Tax" the user searches for the phrase "освободена доставка<sup>1</sup>", the tool will provide a list of documents found in the system containing that phrase. The search works simultaneously in all types of documents: national and CJEU case law, and national and EU legislation. Switching between the result lists for the different types of documents can be done with the options in the upper horizontal bar, with the number of documents specified in brackets.

	Bulgaria	🚖 Outcome prediction 🖄 Citation analysis 🏩 Argument Extraction 🚓 Ontology 🛛 освободена доставка 🔍 🔍 EN 👻
Filters       Documents - 146 after search by "oceodogena gocraeka"         ANNOTATION       Annotated         Annotated       Peuenve № 5072 or 21.07.2014 r. на АдиС - София по ади. д. № 2846/2014 r.         Annotated       Automatically extracted keywords         Bobxoben agmunucrpartueen cbg - Boprac       Admunucrpartueen cbg - Boprac         Agmunucrpartueen cbg - Boprac       Beprose         Agmunucrpartueen cbg - Cbopru       Automatically extracted keywords         Agmunucrpartueen cbg - Cbopru       Automatically extracted summary         Cannasaero a cuna на 3/дС or 01.01.2007 r. npaanua, panisura pexisure на недвикими имоти и вещии права върху тих не е променен. По         Agmunucrpartueen cbg - Chorant       Peuenue № 336 or 20.06.2019 r. на AgMC - Tineben no agM. g. № 914/2019 r.         Agmunucrpartueen cbg - Codus       Admunucrpartueen cbg - Codus         Agmunucrpartueen cbg - Codus       Ganar         Agmunucrpartueen cbg - Codus       Ganar         Agmunucrparuseen cbg - Codus       Ganar	National Case Law (146)     National Legis	slation (5) EU Case Law (134) EU Legislation (5)
ANNOTATION         Annotated         Not annotated         Ot annotated         COURT         Boxober administration         Administratinterparistresent chai	Filters	Documents - 146 after search by "освободена доставка"
<ul> <li>Административен съд - София областа</li> <li>За да се приложи чл. 50, ал. 1, т. 2 ЗДДС законът изисква доставката, по която е придобита стоката, да е облагаена, с начислен ДДС и без право « &lt; 1 2 3 4 5 &gt; &gt;</li> <li>Ш User Manual</li> </ul>	ANNOTATION           Annotated           Not annotated           COURT           Върховен административен съд           Административен съд - Бургас           Административен съд - Бургас           Административен съд - Вриза           Административен съд - Вриза           Административен съд - Вриза           Административен съд - Велико           Търново           Административен съд - Перник           Административен съд - Первен           Административен съд - Пловдив           Административен съд - Пловдив           Административен съд - Русе           Административен съд - Смолян           Административен съд - Смолян	Решение № 5072 от 21.07.2014 г. на АдмС - София по адм. д. № 2846/2014 г. А изопайсију ехтаске кеумота данъчен период, нотариален акт, освободена доставка, доставчик, право на приспадане на данъчен кредит, административен ред, корекции на > Automatically extracted summary Съгласно посочения текст освободена доставка е и доставката на сгради или на части от тях, които не са нови, доставката на прилежащите към Решение № 1056 от 15.06.2015 г. на АдмС - Бургас по адм. д. № 779/2015 г. > Automatically extracted keywords данъчен период, разнер на главница, публична продан, данъчна ревизия, СМР, освободена доставка, право на приспадане на данъчен кредит, > Automatically extracted keywords данъчен период, разнер на главница, публична продан, данъчна ревизия, СМР, освободена доставка, право на приспадане на данъчен кредит, > Automatically extracted keywords данъчен период, вазнер на главница, публична продан, данъчна ревизия, СМР, освободена доставка, право на приспадане на данъчен кредит, > Automatically extracted keywords С влизането в сила на ЗДС от 01.01.2007 г. правният режим на доставките на недвижими имоти и вещни права върху тих не е променен. По Решение № 336 от 20.06.2019 г. на АдмС - Плевен по адм. д. № 414/2019 г. > Automatically extracted keywords данъчен период, фактура, освободена доставка, облагаема доставка, данъчна основа, независима икономическа дейност, нясто на изпълнение,
	<ul> <li>Административен съд - София област</li> <li>User Manual</li> </ul>	За да се приложи чл. 50, ал. 1, т. 2 ЗДДС законът изисква доставката, по която е придобита стоката, да е облагаена, с начислен ДДС и без право 🦿 « « 🚺 2 3 4 5 > »

In the left vertical panel of the screen, options are available to filter documents according to different criteria. For instance, the list of search results for 'освободена доставка' can be restricted to only those court documents issued by a particular court, with a definite outcome or issued in a specific year. Several filters can be applied simultaneously.

When opening the document, occurrences of the searched word or expression are marked in the text in yellow. The occurrences can be scrolled through with the arrows to the right of the search bar. There is also the option to clear the marked results.

<sup>&</sup>lt;sup>1</sup> "exempted supply" (eng.)



		BG 🕶
	освободена доставка (1 от 5 съвпадения)	↓ ↑ X
њчен кредит, извършена от л 9, ал. 6 от ЗДДС ∠. Обстояте вката на сгради или на части ице промяна на правния реж доставката, която е предост	пицето като освободена доставка, следва да бъде елството, че чл. 45, ал. 3 от ЗДДС 🗹 /в сила от 01. и от тях, които не са нови, е освободена доставка, ким на доставките. При предвидената в ал. 7 на чл авена на доставчика, както при ЗДДС 🗹 в сила от	01.2007 не е . 45

#### 2. Searching the contents of a document

The pilot tool is online-based, and it can be used through the three most widely distributed Internet browsers on the market (i.e., Google Chrome, Microsoft Edge, Firefox). To perform a local search in the text of an already opened document, the user can use the search tool in the browser.

The search is called either from the browser interface or usually with the Ctrl+F/Command+F key combination. The user can browse the results highlighted in the text through this type of search.

### **III.** Automatically extracted keywords

Providing case law with a set of relevant keywords (key terms) facilitates the retrieval of legal information by helping users quickly understand the main factual and legal issues discussed in a particular decision without reading the text in detail.

The ADELE pilot tool offers a set of keywords automatically extracted from the text of decisions, which are displayed under the title of the decision in the list of documents, as well as in the open document itself. Depending on the length of the decision, usually between 5 and 15 keywords are automatically extracted.





When keywords span more than one line, the user can click on the "Automatically extracted keywords" to expand the list of terms and see the entire set of keywords.

When opening the text of a court decision, the list of keywords is available immediately below the title of the court decision. In this case, the keywords are displayed as links, meaning that when the user clicks on one of them, the system marks all its occurrences in the text. The occurrences can be scrolled with the arrows to the right of the search term bar. There is also the option to clear the marked results.



voice added tax			
Links to the document (0)	om the document (10)   Q Similiar cases	cessioni all'esportazione	
INTRODUCTION     Judicial Office: Comm. Trib. Reg. XXX     Sezione/Collegio 3     PRE-LITIGATION DECISIONS     First instance proceeding     REQUESTS OF THE PARTIES     MOTIVATION OF THE COURT     Second instance proceeding     REQUESTS OF THE PARTIES     MOTIVATION OF THE COURT     Second instance proceeding     REQUESTS OF THE PARTIES     MOTIVATION OF THE COURT     DECISION OF THE COURT	FATTO La Società SM spa presentava separati ricorsi av accertamento dell' Agenzia delle Entrate di XXX. La contribuente presentava separati ricorsi contr avevano ad oggetto la ripresa a tassazioni di esp e 2009 e 2010, con destinazione della merce in in presenza dei presupposti previsti dall'art. 8 com In particolare tale norma prevede la non imponil altro diritto reale sui beni, si accompagni la mato vengano eseguite "a cura o a nome dei cedenti a Nel caso di specie, invece, la contribuente effetti quest'ultima concludeva con una seconda cessio merce era curato da quest'ultimo soggetto extra Ltd devono considerare effettuata non una esport nullità degli avvisi di accertamento per vizio di n anno di imposta alla previsione di cui all'art. 73 essere notificati anche alla società capogruppo, i nullità degli atti impositivi per carenza di motivaz quanto gli avvisi non erano stati preceduti da ali infine la nullità degli ani impugnati per violazior 413/1991 [ In particolare la ricorrente deduce operazioni triangolari, ma cessioni dirette a soggi come documentato dall'all.to nº 10 del PVC (all.	(a matches) Initi alla Commissione Tributaria Provinciale di XXX avverso gli a XXXXXXX/2012 per IVA anno 2007 e nº XXXXXXXX/2013 per IV gli avvisi di accertamento per Iva 2009 ed Iva 2010. Gli avvis ortazioni effettuate dalla contribuente alla società "DI Ltd" negli ussia, operazioni ritenute imponibili IVa in Italia in quanto non a 1 lett. a) del DPR 633/72 [C]. Ilità Iva delle Cessioni all'esportazione qualora al trasferimento nal ett. a) del DPR 633/72 [C]. ava una cessione a società domiciliata alle Isole Vergini Britann te della merce a favore di soggetto extra UE (la società russa B UE con vettori terzi, di talche le cessioni nei confronti della soci di consegna della merce) direttamente al destinatario finale ex zizione, ma una cessione imponibile in Italia. La ricorrente socie trifica non sanolle degli avvisi impugnati in quanto avendo ade PR 633/72 [C], ovvero, liquidazione Iva di gruppo, gli avvisi avr esponsabile in solazione degli art. 7 L. 212/2000 e 52 [C] e 56 del un invito a dedurre e da nessun contradditorio e carenti i moti e a fela applicazione degli art. 8 comma 1 DPR 633/72 [C] e 56 del un invito a tectazioni logetto degli avvisi da cecertamento, erano etto extracomunitario (la DI) con trasporto in Russia presso uni 2 della ricorrente) esolo per mero reore formale nelle fatture 2 della ricorrente) esolo per mero reore formane nelle fatture 2 della ricorrente) esolo per mero reore formane nelle fatture della solo 2 della ricorrente) esolo per mero reore formane nelle fatture della solo 2 della ricorrente) esolo per mero reore formane nelle fatture della cesti anterneto, erano etto extracomunitario (he disciplina le "esportazioni improprie"	ivvisi di A anno 2008. i di accertamento i anni 2007 e 2008, avvenute in della proprietà od o spedizione i che di a DI Ltd), e ). Il trasporto della letà britanica DI ttra UE, cosi tà deduceva la etito anche per tale rebbero dovuto v. Deduceva poi la DPR 633/72 in vazione. Deduceva 13 comma 1 legge in realtà non a terza azienda, era indicata la quando i beni

### **IV.** Automatically extracted summary

Similar to automatically extracted keywords, this feature aims to help users quickly understand the substance of a legal dispute by automatically extracting key arguments (single sentences or logically distinct groups of sentences) from the court's legal reasoning. A summary is not generated for decisions that, at the time of inclusion in the pilot tool, already had a manually created abstract. A summary is also not generated where the reasoning part of the relevant decision is too short.

Automatically extracted summaries may be displayed from the list of documents or an opened decision under its title immediately below the automatically extracted keywords. Since the system visualises only a very small part of the summaries' text, the user can expand the full text of the summary by clicking on the "Automatically extracted summary" item when viewing the list of documents or with an open document.



Bulgaria Value added tax	😨 Outcome prediction 🗠 Citation analysis 🏚 Argument Extraction 🚓 Ontology 🛛 освободена доставка 🔍 🔍 EN +
National Case Law (146)     National Legis	slation (5) EU Case Law (134) EU Legislation (5)
Filters	Documents - 146 after search by "освободена доставка"
ANNOTATION	Решение № 5072 от 21.07.2014 г. на АдмС - София по адм. д. № 2846/2014 г.
<ul> <li>Annotated</li> <li>Not annotated</li> <li>COURT</li> </ul>	Automatically extracted keywords данъчен период, нотариален акт, освободена доставка, доставчик, право на приспадане на данъчен кредит, административен ред, корекции на Automatically extracted summary
<ul> <li>Върховен административен съд</li> <li>Административен съд - Бургас</li> <li>Административен съд - Бургас</li> <li>Административен съд - Варна</li> <li>Административен съд - Велико</li> <li>Търново</li> <li>Административен съд - Добрич</li> <li>Административен съд - Порвик</li> <li>Административен съд - Плевен</li> <li>Административен съд - Пловдив</li> <li>Административен съд - Пловдив</li> <li>Административен съд - Пловдив</li> </ul>	Съгласно посочения текст освободена доставка е и доставката на стради или на части от тях, които не са нови, доставката на прилежащите към тях терени, както и учредяването и прекърълянето на други вещии права върху тях. [] • Член 79 от ЗДДС регламентира някои от случаите на корекции на ползван данъчен кредит, като съобразно чл. 79, ал. 10 ЗДДС регламентира и клирано лице, което издяло или частино е присладнало данъчен кредит за произведени, закупени, придобити или внесени от него стоки или услуги и волследствие ти използва за извършване на освободени доставки или за доставки или дейности, за които не е налице право на присладане на данъчен кредит. Дълхи данък в размер на ползвания данъчен кредит. [] • По принцип чи. 80, ал. 1 от ЗДДС регламентира част от случаите, коато не се извършват корекции по чи. 70, ал. 1-7, като съгласно чл. 80, ал. 1, т. 2 от ЗДДС корекции по чл. 79, ал. 1-7 не се извършват коранси и по чл. 70, ал. 1-7, като съгласно чл. 80, ал. 1, т. 2 от ЗДС корекции по чл. 79, ал. 1-7 не се извършват корекци на част то случаите, коато не се извършват корекци по чл. 70, ал. 1-7, като съгласно чл. 80, ал. 1, т. 2 от ЗДС кориса сакон. [] • Доколко регистрираното лице пе се възползва от изключението, което ну предоставя законът, като избере тези доставки да бъдат облагаени, закиси теговата свободена воля. [] • Спедователно, налице са дава режине по два законъ - 3ДС (от.) и 3ДС в сила т. 1.0.2007 г., като при първия доставиата винаги е облагаена, а при втория е освободена, като е дадена възножност в ЗДС в чл. 45, ал. 3 ЗДДС доставката на сгради или части от тях, които не са нови, а ал. 7 да е облагаена, като то ва право на здасна за доставника.[]
<ul> <li>Административен съд - Смолян</li> <li>Административен съд - София</li> <li>Административен съд - София област</li> </ul>	Решение № 1056 от 15.06.2015 г. на АдмС - Бургас по адм. д. № 779/2015 г. > Automatically extracted keywords Вала нач. ворима, возмов на сазания на видения водачи али ная селотована востания, возда на вонскатали на сала нач. и водат и сала нач. и водат
Duser Manual	
The ADELE project is co-funded by the Justice Programme of any responsibility for use that may be made of the informat	of the European Union (2014-2020). The content of this website represents the views of the partners of the ADELE project and is their sole responsibility. The European Commission does not accept

Individual sentences and groups of sentences in the summary are formatted as links when the text of a specific decision is opened, and the summary is expanded. By clicking on a sentence or group of sentences, the system highlights that element in the text of the decision so that users can explore the context in which it is found in the court's reasoning.

Вългария <u>— дено</u> Данък върху добавената стойност		BG ▼
Препратки кън документа (0) Препра	пол от документа (16)	
<ul> <li>У УВОДНА ЧАСТ</li> <li>Вид на акта, Номер на акта:</li> <li>РЕШЕНИЕ, че 9723</li> <li>Дата и нисто на постановяване:</li> <li>28.99,2021, София</li> <li>Съдебна инстанция: Върховният адинистративен съд на Република</li> <li>Вългария - Соот отделение Номер на делото: адит, дело № 3204/3021</li> <li>Колегизален съдебен състав Предесавате: СЕМИЕНА ПРОДАНОВА Съдия: ВАСИНКА ЦИЛАМАНОВА</li> <li>Съдия: ВАСИНКА ЦИЛАМАНОВА</li> <li>Съдия: ВАСИНКА ЦИЛАМАНОВА</li> <li>Съдия: САКИНА КОДАТОВА</li> <li>Съдия: Сакистав КОМСАЛОВА</li> <li>Арминистатияния Контрол</li> <li>КСАНИВИ НА СТРАЛИТЕ</li> <li>МОТИВИ НА СТРАЛИТЕ</li> </ul>	Pacentee Nº 9732 or 28.09.0221 r. Ha BAC no agin. A. Nº 3204/2021 r. VIII o., докладчик съдията Таня Консалова  A construction of provide gamma indexes and the second se	ада в за а а о о
испозитив	<ul> <li>Мета данни</li> </ul>	
<ul> <li>► АДМИНИСТРАТИВНИ АКТОВЕ – ОБЕКТ НА СЪДЕВНИЯ КОНТРОЛ</li> <li>► ИСКАНИЯ НА СТРАНИТЕ</li> <li>► НОТИВИ НА СЪДА</li> <li>► ДИСПОЗИТИВ</li> </ul>	да бъде отказано. ". Перценкита относно това дали: са налице техи услови и у частност спорчите такива в процеса относно доставнето на стоките се прави от съда в съответствие с правилата за доказване, установени в националното право. Що се касае до формалните предпоставки за правото на присладане, то те са дефинирани например в т. 29 от Решение 15 септември 2016 г. на СЕЕ дело С-518[14] по следния начии: "от член 178, буква а) от Директива 2006/112 [С ледва, че управноването на узависи от притекването на фактура, съставена в съответствие с член 226 от т директива (вк. в тови очисъл решения от нарт 2012 г., Кораліа ОбкугиКома Polski Tawetryn F. Granattovicz, М. И. Мирики, С. 2010; Г. 19] [. т. 41 и от 22 октонври 2015 г., РРИН Stehcemp, C-277/14, EU: C: 2015; Г19 [. т. 29].", в колто връжа е и разрешението дареки с Рашение от 8 най 2013 г. по дело С-271/12 [. на СЕС Установането на вонки посичени кунулитени предлоставки са надкателствена техент, че сток владоста за добросвестността на получатеви в аколто връзка е и разрешението на видики с за добросвестността на получатеви в аколто връжа е на правотсятате на усвазателете на исведа правотся за добросвестността за добросвестността на получатеви в аколто връжа е на разрешениета на уставителена техент, че сток владоста за добросвестността на получатеви в аколто връзка е на правотсятате и усвазателествена техента на правотсята на и събя доби и получатеви в аколто на валокенствате на усвазателествена техент, че сток владоста за добросвествоста на получатеви в аколе на насвазатели доказателствена техент, че сток владоста на получатеви в аколе на на извета, бърготова на токазатели такеят, че сток владоста за добросвествата на исведателе на нацинитета.	0 по ван ЛК
	Властранска завека пленение значение участие участие со изначества и услановает услановает 21 клиг 2012 г. по сървети да допит, и сървита допити и сървати и сърва	льт, 12 СЕС і на а не



# V. References between documents and citation statistics

#### 1. References to legislation and case law found in documents

The documents in the national and EU case law collections have links (highlighted in blue in the text) to the cited legal acts and decisions automatically extracted by the tool.



By clicking on the link, the user is redirected to the text of the relevant legal provision or to the text of the cited decision in the ADELE pilot tool (when available) or to another webbased legal database (e.g., the EUR- Lex portal). An arrow icon is also available next to the extracted citations: by selecting it, the user receives as a result a list of all other documents included in the database that refer to the same legal provision or decision.

The buttons "Links to the document" and "Links from the document" in the upper-left corner of the screen provide organised information on references between the opened decision and other documents available in the ADELE database. By clicking on the first button, the user receives information about how many and exactly which other documents refer to the currently viewed decision. By clicking on the second, the system provides all references of the court to other case law or legislation that are extracted in the text of the decision. The result obtained after selecting one of the two buttons is distributed according



to the document collections in the ADELE pilot tool, i.e., the classification is organised between the "National Case Law", "National Legislation", "EU Case Law" and "EU Legislation".

#### 2. Similar cases

This functionality is available for the annotated decisions in the ADELE pilot tool and can be accessed by pressing the "Similar cases" button at the top of the screen in a document already open:

C Links to the document (0) Links from the document (4)	one Tributaria Regionaledi Sicilia Sezione 8		
	ione Tributaria Regionaledi Sicilia Sezione 8		
INTRODUCTION     Act type: SENTENZA     Judicial office: LA COMMISSIONE     TRIBUTARIA REGIONALE DI SICILIA     Sezione 8     stoccaggio, reato, acquisto, sentenza penale assolutoria, A     rivata di acquisto verbale di verbila immobiliare strumenti trac	mministrazione finanziaria, prove acquisite in sede penale, scrittura		
Reference number in the register: REG.GENERALE Nº 4178/2015 Collegiate Court	wann, asseum vancari ,		
Judge Rapporteur: giu2 Relatore Al riguardo, occorre premettere che l'orientamento giurisprudenziale è nel senso che nel processo tributario, la sentenza penale irrevocabile di assoluzione dal reato tributario non spiega automaticamente efficacia di giudicato, ancorché i fatti accertati in sede per			
Judge: giu3 Giudice Metadata			
PRE-LITIGATION DECISIONS     Country     Legal Domain     Outcome of the	he case Annotated Court		
First instance proceeding Italy Value added tax Rejected claim( Rejected clai	(s) Annotated Commissione Tributaria Regionale Per La Sicilia		
bECISION OF THE COURT     Second instance proceeding     IN NOME DEL POPOLO ITALIANO     REQUESTS OF THE PARTIES     MOTIVATION OF THE COURT     DECISION OF THE COURT     DECISION OF THE COURT     DECISION OF THE COURT     SENTENZA			

In a new tab, the system displays a list of 20 decisions of national courts that are similar to the one that the user is viewing:





The similarity between national decisions is determined based on the recognised citations – the system considers a decision similar to another if there is a coincidence of at least three references of the court to national or EU legislative provisions or case law. If this criterion cannot be fulfilled, the textual proximity between the individual court decisions is used as an additional criterion of similarity.

#### 3. History of the case

The "Case History" functionality is available only for Bulgarian national case law. Its purpose is to show other decisions of higher or lower courts dealing precisely with the same case (when contained in the ADELE database).



Similiar cases ещение Nº 507 еxtracted keywor вриод, нотариален ползван данъчен е extracted summa мосочения текст работ и тах тереник, какт	2 от 21.07.201 ds акт, освободена до кредит, място на из агу вободена доставка	4 г. на АдмС - ставка, доставчик эпълнение, държай е и доставката на	• София по адм. д. № право на приспадане на дан а членка, компетентен орган сгради или на части от тях, к	2846/2014 г. чъчен кредит, административен ч ;	
ещение № 507 еxtracted keywor ериод, нотариален ползван данъчен • extracted summa косочения текст осг и тях тврени, какт	2 от 21.07.201 ds акт, освободена до кредит, място на из агу вободена доставка	4 г. на АдмС ставка, доставчик впълнение, държав е и доставката на	• София по адм. д. № право на приспадане на дан а членка, компетентен орган	2846/2014 Г. нъчен кредит, административен ч ;	
ериод, нотариален ползван данъчен v extracted summa юсочения текст оси м тях терени, какт	акт, освободена до кредит, място на из агу вободена доставка о	ставка, доставчик апълнение, държав е и доставката на	право на приспадане на дан а членка, компетентен орган сгради или на части от тях, к	нъчен кредит, административен 4 ;	
extracted summa посочения текст осн м тях терени, както	вободена доставка	е и доставката на	сгради или на части от тях, к		
Automatically extracted summary Съгласно посочения текст освободена доставка е и доставката на сгради или на части от тях, които не са нови, доставката на прилежащите към тях терени, както и учредяването и прехвърлянето на други вещни права върху тях. [] • Член 79 от ЗДДС					
Legal Domain	Outcome of the case	Annotated	Court	Link to Source	
Value added tax	Upheld claim(s)	Annotated	Административен съд - София	https://sofia-adms-g.justice.bg	
Case History					
→ Second insta	ance				
5072				~	
	5072 2014 r	5072 2014 r	5072 2014 r	5072 2014 r	

The selected case, "Решение № 5072 от 21.07.2014 г. на АдмС - София по адм. д. № 2846/2014 г.<sup>2</sup>" was decided by a first-instance court, which is indicated by the arrow located under "First instance" in the "Case history" panel. By clicking on the "Second Instance" link, the user can read the decision on the judicial review by the higher court – the Supreme Administrative Court.

#### 4. Citation Analysis

This functionality is located at the top of the main screen after the user has determined the legal domain and country.

<sup>&</sup>lt;sup>2</sup> Decision № 5072 from 21.07.2014 of Administrative Court Sofia – City, case № 2846/2014



National Case Law (235) National Legis	Lation (9) EU Case Law (309) EU Legislation (25)
	Sentenza 25/2022 della Commissione Tributaria Regionale Per II Lazio Sezione 07
Annotated COURT Commissioni Tributarie Provinciali Commissione Tributaria Di Primo Grado Di Trento Commissione Tributaria Provinciale Di Aosta Commissione Tributaria Provinciale Di Bologna Commissione Tributaria Provinciale Di Bologna	Keywords     Sentenza 2616/2021 della Commissione Tributaria Regionaledi Sicilia Sezione 8     Keywords     Sentenza 2616/2021 della Commissione Tributaria Regionaledi Sicilia Sezione 8     Keywords     stoccaggio, reato, acquisto, sentenza penale assolutoria, Amministrazione finanziaria, prove acquisite in sede penale, scrittura privata di acquisto, verbale     Summary     Al riguardo, occorre premettere che l'orientamento giurisprudenziale è nel senso che nel processo tributario, la sentenza penale irrevocabile di
Commissione Inbutaria Provinciale Di Como     Commissione Tributaria Provinciale Di Cremona     Commissione Tributaria Provinciale Di Messina     Commissione Tributaria Provinciale Di Teramo	Sentenza 4077/2021 della Commissione Tributaria Regionale Di Lombardia Sezione 11  Automatically extracted keywords contribuente, enti non commerciali, associazioni sportive dilettantistiche, regimi fiscali, pagamento di corrispettivi specifici, scrittura privata autenticata o Automatically extracted summary Sicché, la prevalenza della natura dell'intrattenimento dei ragazzi - sia pure sotto forme di gioco, di riposo, di pranzo e di svago- fa venir meno la natura

After selecting the "Citation Analysis" button, the system shows, in descending order, a list of the most frequently cited documents from all decisions available in ADELE database collections, i.e., "National Case Law", "National Legislation", "EU Case Law" and "EU Legislation". The different collections are displayed in the upper horizontal bar and can be used to switch between the related result lists. The documents available in the ADELE database are marked in blue and can be directly opened by the user by clicking on them.

taly II taly Value added tax	EN 🔻
Citation analysis: list of most cited documents	
<ul> <li>(9) Sentenza Corte di Cassazione n 24823 del 2015</li> <li>(4) Sentenza Tribunale n 1057 del 2014</li> <li>(4) Sentenza Commissione Tributaria Regionale n 10</li> <li>(4) Sentenza Corte di Cassazione n 17169 del 2015-08-26</li> <li>(4) Sentenza Corte di Cassazione n 18425 del 2012-10-26</li> <li>(4) Sentenza Corte di Cassazione n 21410 del 2012-11-30</li> <li>(4) Sentenza Corte di Cassazione n 27207 del 2009-12-23</li> <li>(4) Sentenza Corte di Cassazione n 4020 del 2012-03-14</li> <li>(3) Sentenza Corte di Cassazione n 11013 del 2019</li> </ul>	
K       [3] Sentenza n 18907 del 2011-09-16         K       [3] Sentenza Corte di Cassazione n 19667 del 2014         K       [3] Sentenza Corte di Cassazione n 19667 del 2014	



This functionality provides information about which national and EU legal acts, or specific provisions thereof, are most often cited by national courts or the CJEU. In addition, when obtaining statistics on the most frequently cited decisions, the user can directly review those acts (when contained in the database). The number of citations is placed between brackets before the title of each judicial or legislative act, and the arrow icon gives access to the list of documents in the database that specifically cite the selected legislative act/court decision. The result is again distributed according to the document collections in the ADELE pilot tool.

taly	EN *
Citation analysis: list of most cited documents           National Case Law         National Legislation         EU Legislation	
[31] Judgment of the Court (Grand Chamber) of 21 February 2006. Halifax pic, Leeds Permanent Development Services Ltd and County Wide Property Investments Ltd v Commissioners of Customs & Amp; Excise. Reference for a preliminary ruling: VAT and Duties Tribunal, London - United Kingdom. Sixth VAT Directive - Article 2(1), Article 4(1) and (2), Article 5(1) and Article 6(1) - Economic activity - Supplies of	8
21] Judgment of 6 July 2006, Kittel (C-439/04 and C-440/04, ECR 2006 p. I-6161)	- 11
2 19 Judgment of 25 February 1999, CPP (C-349/96, ECR 1999 p. I-973)	
16] Judgment of the Court (Third Chamber) of 29 October 2009. Skatteverket v AB SKF. Reference for a preliminary ruling : Regeringsrätten - Sweden. Sixth VAT Directi Articles 2, 4, 13B(d)(5) and 17 - Directive 2006/112/EC - Articles 2, 9, 135(1)(f) and 168 - Disposal by a parent company of a subsidiary and of its holding in a controlled company - Scope of VAT - Exemption - Supplies of services acq	ve - I
[15] Sentenza della Corte (Terza Sezione) del 21 giugno 2012. Mahagében Kft contro Nemzeti Adó- és Vámhivatal Dél-dunántúli Regionális Adó Főigazgatósága (C-80/11) Péter Dávid contro Nemzeti Adó- és Vámhivatal Észak-alföldi Regionális Adó Főigazgatósága (C-142/11). Domande di pronuncia pregiudiziale proposte dal Baranya Megye Biróság e dallo Jász-Nagykun-Szolnok Megyei Biróság. Fiscalità – IVA – Sesta diretiva – Direttiva 2006/112/CE – Diritto alla detrazione – Presupposti per l'esercizio – Articolo 273 – Misure nazionali al fini della lotta contro l'evasione – Prassi delle amministrazioni fiscali nazionali – Diniego del diritto a detrazione – Onere della prova – Obbligo del irregolare dell'emittente della fattura correlata ai beni o ai servizi a titolo dei quali viene richiesto l'esercizio del diritto a detrazione – Onere della prova – Obbligo del soggetto passivo di assicurarsi del comportamento regolare dell'emittente di tale fattura e di provarlo. Cause riunite C-80/11 e C-142/11.	e i  nto
[15] Sentenza della Corte (Terza Sezione) del 6 dicembre 2012. Bonik EOOD contro Direktor na Direktsia «Obzhalvane i upravlenie na izpalnenieto» – Varna pri Tsentraln upravlenie na Natsionalnata agentsia za prihodite. Domanda di pronuncia pregiudiziale proposta dall'Administrativen sad – Varna. IVA – Direttiva 2006/112/CE – Diritto detrazione – Diniego. Causa C-285/11.	o alla

# VI. Visualisation of the annotated national decisions

In the ADELE Project, artificial intelligence and legal analytics methods have been used to extract knowledge and predict the outcome of legal cases. To apply those methods, over 800 decisions of the Bulgarian and Italian national courts decisions on matters related to the infringement of rights on trademarks and patents and VAT taxation, specifically the hypotheses of exempt supplies and deductions, were selected and manually annotated by legal experts.

Annotation has involved the mark-up of two types of elements in the text of the decisions:

• *Structural elements of a decision,* such as requests of the parties, pre-litigation decisions, facts of the case, and decision of the court, which may give the AI model information to predict the case outcome;



• Arguments of the court, according to their type and argumentation scheme, which are key information for the objective of automatically extracting and classifying legal arguments.

The ADELE pilot tool provides a user-friendly functionality for visually representing annotations in a structured form and navigation in the text of court decisions. Annotations are listed based on the macro-area where related information can be found in the decision, which can be found on the left side of the screen:

- Introduction
- Pre-litigation decisions
- Requests of the parties
- Motivation of the court
- Decision of the court.

Each part can be "expanded" by clicking on the respective title. For example, the introduction contains the type and reference number of the decision, the reference number in the court's register, the judicial office, etc. By clicking on an element in the list on the left, the respective information is highlighted in the text on the right. Moreover, if this part of the decision has a connection with another part/s of the decision, a panel appears at the bottom of the screen, providing more information about the related elements.

Next, "Requests of the parties" presents all requests made by the parties in the proceedings, as well as the claims and arguments supporting these requests or counterarguments attacking the counterparty request (holding that it is unfounded). When selecting a specific element, for example "Request 1", in the panel below the text of the decision, the user can see that this request was made by a specific party to the case and that is related, one the one hand, with the supporting claims of the same party, and on the other hand, with the findings of the court and with the decision on the merits.





The "Motivation of the court" presents the facts of the case and the legal reasoning - one or more argument chains, including a sequence of premises and a single conclusion, the latter being the findings of the court regarding the claims or the requests of the parties.



▼ MOTIVATION OF THE COURT
Facts of the case
Facts
Legal reasoning
Argument chain 1
Premise 1
Premise 2
Premise 3
Premise 4
Premise 5
Premise 6
Premise 7
Premise 8
Premise 9
Premise 10
Conclusion 1
Argument chain 2
Premise 11
Premise 12
Premise 13
Premise 14
Premise 15
Premise 16
Premise 17
Conclusion 2
Motivations on litigation costs 1
Motivations on litigation costs 2
Findings of the court
Finding 1
Finding 2
Finding 3
Finding on litigation costs 1
Finding on litigation costs 2

Within argument chains, individual premises may be interconnected (for example, one premise may support or attack another premise). According to this criterion, the premises may be:

- Supported by other premises, which indicates a supporting (/implication) relationship between premises or between one or more premises and the conclusion of the argumentative chain;
- Attacked by other premises; there is a contradictory relationship (in argumentation, this is referred to as "rebuttal") such that a premise contradicts the conclusion supported by another premise;
- Supported by the failure to state/prove opposing premises;
- Inhibited by other premises; there is a relationship of insufficiency (in the argumentation, this is called "undercut") such that one premise negates the argumentative force of another premise;



 Rephrased by other premises; which indicates that a particular premise is entirely reformulated by another premise, both with the same semantic meaning, although formulated differently.



Additionally, the premises are classified by type as legal, factual, or both legal and factual. Depending on this classification, legal and legal and factual premises can be further systematised according to the following argumentation schemes:

- Arguments based on precedent
- Arguments based on interpretation
- Arguments based on a legal principle
- Arguments based on a literal interpretation
- Arguments based on systematic interpretation
- Arguments grounded on the intention of the legislator
- Authoritative arguments
- Arguments based on the verbal classification
- Teleological arguments
- Arguments based on bad or absurd consequences
- Argument based on a legal rule



This classification and the possibility to view the premises grouped according to a specific criterion (e.g., all arguments in the decision that are based on a legal rule, on a legal principle, etc.) can further help the user to trace the argumentation flow and highlight key arguments, based on which the court has come to the conclusions and decides whether to uphold or reject the party's request/s.

The last part – "Decision of the court" – gives information about the decision on the merits and the decision on litigation costs. The panel at the bottom for these elements shows from which findings of the court or argument chains the decision is derived, to which party's request the decision refers and whether it is rejected or upheld by the court.



# VII. Automated extraction and classification of arguments

The purpose of this functionality is to help the legal user speed up the time needed to examine a large number of court decisions in the legal area of his or her interest and to obtain visual information on the essential arguments of the court's reasoning. The user can enter the text of a court decision (copied, for example, from a publicly available source) related to the subject area of interest - 'VAT' or 'Trademarks and Patents'. The system automatically processes the text input and, as a result, delivers the arguments of the court's legal reasoning that can be found therein. These are presented as a chain of arguments on the left-hand side of the screen.



The steps to work with this functionality are as follows:

**1.** Select the country and legal domain from the options offered on the home page of the ADELE pilot tool. The main page for the chosen domain and country opens in a new tab, where the user needs to click on the "Argument Extraction" button at the top of the screen:

ttaly Italy Trademark and patents	🚖 Outcome prediction 🗠 Citation analysis 🄹 Argument Extraction 🚓 Ontology Search Q EN 👻
National Case Law (121)     National Legisl	ation (8) EU Case Law (27) EU Legislation (20)
Filters	Documents - 121
ANNOTATION Annotated COURT Tribunale Di Bologna Tribunale Di Catania Tribunale Di Catania Tribunale Di Genova Tribunale Di Milano Corti Di Appello Di Milano RESULT Upheld claim(s) Rejected claim(s) Decision of inadmissibility VEAR	Sentenza 4059/2019 della Tribunale Di Milano Sezione Xiv Sezione Specializzata In Materia Di Impresa A  keywords Oggetto: Marchio e denominazione sociale  Summary Con particolare riferimento alla domanda di parte attrice relativa al risarcimento del danno sulla base della disposizione di cui all'art. 1226 c. c. , va Sentenza 1154/2019 della Corte Dappello Di Milano Sezione Specializzata Impresa  keywords avente ad oggetto: Marchio  Summary Tali marchi "deboli", caratterizzati da minore originalità, sono dunque tutelabili soltanto se riprodotti integralmente o imitati in modo molto prossimo. Sentenza 585/2019 della Tribunale Ordinario Di Torino Tribunale Delle Imprese keywords Violazione marchio; nullità, decadenza marchio  Automatically extracted summary
□ 2019	Interry, ar varia in on marcinio compressor, p.1.1 • La venominazione contrativa (Unità d'he acquisisce, percanto, Valore originale e usualitore e, anche se in
The ADELE project is co-funded by the Justice Programme of	the European Union (2014-2020). The content of this website represents the views of the partners of the ADELE project and is their sole responsibility. The European Commission does not accept
any responsibility for use that may be made of the information	n it contains.

**2.** A form opens where the user needs to copy/paste the text of a court decision in the corresponding legal domain and press the "Start" blue button:



ttaly II Trademark and patents		EN 🕶
	Argument Extraction	
	Sentenza n. 585/2019 pubbl. il 07/02/2019 RG n. 7225/2017 REPUBBLICA ITALIANA IN NOME DEL POPOLO ITALIANO TRIBUNALE ORDINARIO di TORINO Tribunale delle Imprese Il Tribunale, in composizione collegiale nelle persone dei seguenti magistrati: giu1 Presidente relatore giu2 Giudice giu3 Giudice ha pronunciato la seguente SENTENZA nella causa civile di I Grado iscritta al n. r.g. 7225/2017 promossa da: DEAL contro DC(C.F. XXX), difesa dall'avv. FZL CONVENUTA GGETTO: Violazione marchio; nullità, decadenza marchio CONCLUSIONI Per l'attrice: In via istruttoria:	
	Previa ammissione dell'interrogatorio formale e di prova per testi sulle seguenti circostanze(v. capitoli riportati Start Reset	

**3.** As a result, the system displays the text of the decision, in which the court's legal arguments are identified. These are presented in the left navigation toolbar as arguments, including the court's conclusion. Also, the arguments are classified according to their type (legal, factual, legal and factual) and the argumentation scheme (arguments from norms, legal principles, precedents, etc.). By clicking on the corresponding title (e.g., "Premise 28"), its occurrence in the text of the decision is marked with a colour and a panel opens at the bottom of the screen showing details of the type of argumentation:

Italy II Trademark and patents		EN 🕶
Premise 12 Premise 13 Premise 14	non uso e la proposizione della domanda o dell'eccezione di decadenza sia iniziato o ripreso l'uso ettettivo del marchio. Iuttavia i titolare effettua i preparativi per l'inizio o per la ripresa dell'uso del marchio solo dopo aver saputo che sta per essere proposta domanda o eccezione di decadenza, tale inizio o ripresa non vengono presi in considerazione se non effettuati almeno tre mesi	se II a
Premise 15 Premise 15 Premise 16 Premise 17 Premise 18 Premise 19 Premise 21	prima della proposizione della domanda o eccezione di decadenza; tale periodo assume peraltro rilievo solo se decorso successivamente alla scadenza del quinquennio di mancato uso"; -art. 121 CPI: "1. L'onere di provare la nullità o la decadenza titolo di proprietà industriale incombe in ogni caso a chi impugna il titolo. Salvo II disposto dell'articolo 67 l'onere di provare la contraffazione incombe al titolare. La prova della decadenza del marchio per non uso può essere fornita con qualsiasi mezzo comprese le presunzioni semplici". La legge commina, pertanto, la decadenza del marchio qualora il titolare non abbia utilizzato stesso per 5 anni, prescrivendo che, per evitare la decadenza, deve trattarsi di un uso effettivo, cioè non sporadico, limitato totori presente e quantitativamente 51 vitoren e che la parte, consumuto, che bi impunyato neg decadenza (due parchi) tatorei pu	del Io
Premise 22 Premise 22 Premise 23 Premise 24 Premise 25 Premise 26 Premise 27	controllarde e quantativa de la parte contrate a parte contrate a parte contrate de la parte contrate della par	i au li
Premise 28     Premise 29     Premise 30     Premise 31     Premise 32     Premise 32	tratta di estratti di cataloghi, fotografie e schede prodotto (doc. 12-16) che l'attrice stessa fa risalire agli ani '90 o al primi ann 2000, per cui dette produzioni non dimostrano l'uso effettivo dei marchi nei quinquenni successivi alle registrazioni.Non sono neppure ammissibili, perché irrilevanti e generici, i capitoli di prova dedotti, relativamente al preteso uso dei marchi, dalla parte attrice nella mmenia DD/MM/2017; 3) Vero che O, a decorrere dal 7 ottobre 2000, data di deposto del Marchio di Impresa "TU "D EÈ" ha annualmente nondotto e commercializzato formanoi contraddistinti dallo stesso Marchio "TUMA 'D EÈ" e, da allora	MA
Premise 34 Premise 35 Premise 36 Premise 37	Argument type: Legal premise Argumentation scheme: Argument from rule	^



### **VIII. Outcome prediction of the case**

To implement this functionality, experiments with machine learning were conducted to train the AI model to recognise the relationship between the parties' requests and the court's final decision, using as a basis pre-selected decisions from the relevant legal field annotated by legal experts.

The purpose of the "Outcome prediction" functionality is to assist the legal user in analysing the established case law in the relevant domain. In particular, this tool can be used to examine different scenarios with the requests and claims of the parties in the proceedings and observe how the probability of the request being upheld or rejected changes.

The steps to work with this functionality are the following:

**1.** Select the country and legal domain from the home page of the ADELE pilot tool. The main page for chosen domain and country opens in a new tab. Here, the use must click on the "Outcome prediction" button at the top of the screen:



**2.** A form opens in which the user can enter in the "Request" field the text of the request that a party to the case has made (or would make) to the court. Then, in the "Claim" field, the text of at least one supporting claim should be entered. In addition, in the field "Argument", the user can fill in the text of an argument that supports the claim entered

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above. More claims and arguments can be added or removed using the "Add Claim/Argument" and "Delete Claim/Argument" buttons.

A DELE	Italy <b>I</b> Trademark and patents				EN 🕶
			Outcome Prediction Form		
		Request		⊕ Add claim	
		<ul> <li>accertare e dichia registrazione nazio lettera a) e 12, con</li> </ul>	arare nel miglior modo e con la nullità del marchio figurativo "A.F.E.R.", nale n. 0001492755, ai sensi del combinato disposto degli articoli 25, comma 1, nma 1, <u>lettere</u> a) e b) <u>c.p. l. ovvero degli articoli</u> 25, comma 1, let-tera b) e 19, comma		
		Claim		⊕ Add argument	
		la società attrice ha del Codice della Pro	a dedotto la nullità del marchio nazionale registrato "Afer" ai sensi dell' art. 25 comma 1 l oprietà Industriale (di seguito CPI) in	ettere a) e b)	
			0	Remove argument	
		Argument	la società attrice ha dedotto la nullità del marchio nazionale registrato "Afer" ai sensi du comma 1 lettere a) e b) del Codice della Proprietà Industriale (di seguito CPI) in	ell' art. 25	
			Predict Reset		

**3.** After entering all claims and arguments, the user should press the "Predict" button at the bottom of the form. The result is visualised as a window in the middle of the screen, showing the probability that the given request will be upheld/rejected by the court.

Italy II Trademark and patents					EN <del>*</del>
		Prediction about the request	$\times$		
	Request	UPHOLD		Add claim	
	registrazione nazio lettera a) e 12, cor 2 <u>C.D.I.</u> Claim la società attrice hi del Codice della Pro Argument	This result was obtained through the use of algorithms based on artificial intelligence and is founded on machine learning conducted on datasets on the outcome of the case in 230 decisions of Italian courts on claims for infringements of rights on trademarks and patents. To train the system, the decisions are reviewed and annotated by legal experts, taking into account the relationships between the parties' requests, claims and arguments, the court's motivation, and the final outcome of the litigation. This prediction of the outcome of the case is not binding and is not intended to replace professional legal advice. Neither the partners in the ADELE consortium nor the European Commission, with whose financial support the ADELE project is implemented, can be held responsible for its provision.	าาล่	a © Add argument 1 lettere a) e b) © Remove argument 1 dell' art. 25	
		Close			



As clarified in the results screen, the prediction of the case's outcome is not binding or intended to replace professional legal advice.

# IX. Ontology

This functionality has been developed and is available in the ADELE pilot tool for both legal domains covered by the Project – VAT and Trademark and Patent. Its purpose is to provide users with a comprehensive overview of a conceptual map of the respective legal areas. Each of the two ontologies offers a structure of terms with the respective legal definition provided in the legislation or case law. Links between the concepts are also built to allow the identification of synonyms and related terms between national and European legal concepts in the relevant field.

The ontology can be accessed on the website's main page after selecting the country and legal domain.



The user is redirected to a new page, whereby the ontology is presented as a network. The network can be zoomed in and out by scrolling or using the buttons in the lower right corner. Moving within the network is done by clicking and dragging the mouse or using the buttons in the lower left corner. The interface languages are English, Bulgarian and Italian.





After selecting a specific concept, it colours blue, and an information panel opens on the right-hand side of the screen where the user can find the definition of the term (in the language chosen for the interface), the relevant legislative provisions in the Bulgarian, Italian and European legislation, as well as examples and synonyms. In addition, the user can obtain a list of national and EU case law relevant to the specific concept by using the 'Search for related case law' button.





National Case Law (2) Nationa	I Legislation (0) EU Case Law (0) EU Legislation (0)
Filters	Documents - 2 after search by "Absolute Invalidity"
ANNOTATION Annotated COURT Tribunale Tribunale DI Milano Tribunale DI Torino RESULT Upheld claim(s) Rejected claim(s) YEAR 2017 2013	Sentenza 7207/2017 della Tribunale Di Milano Sezione Specializzata In Materia Di Impresa sezione A  Kaywords  diritto di marchio  Summary  Invero il marchio di fatto assume rilevanza nel rapporti commerciali e tra imprenditori solo dal momento in cui esso risulta effettivamente utilizzato per  Sentenza 4774/2013 della Il Tribunale Civile E Penale Di Torino Sezione I Civilespecializzata In Materia Di Impresa  Keywords  nullità brevetti  Automaticali esso, non risulta che sia stata esercitata azione di rivendica ai sensi dell'art. 118 CPI, per cui l'attore F può esercitare il potere surrogatorio

In addition to the network visualisation, the system also offers a presentation of the ontology in the form of a tree, and the view can be changed using the "Tree" button in the top-left corner of the screen. The subordination of "parent-child" concepts can be expanded and collapsed using the arrows in front of the term headings. When a specific concept is selected from the list, an information panel appears again on the right-hand side of the screen.





## X. Short dictionary

**Annotation Guidelines**: A set of rules or instructions defining the criteria legal experts use to annotate the text. They define what should be included in each annotation and can also provide a structure for annotation, such as a template. In ADELE, annotation guidelines have been developed to annotate the structural elements of decisions and their relationships and to annotate judicial arguments found in the court's motivation.

**Annotation**: The process of adding metadata or additional machine-readable information to a particular data or document. In the ADELE project, annotation was carried out by experts in the analysed legal fields and consisted of the insertion of additional information within the texts of the analysed judgments. The objective was twofold: to enable more efficient and faster visualisation of information in the legal database and to create training and test sets for machine learning models.

**Argument mining**: Argument mining is the process of automatically extracting arguments from natural language texts to identify and analyse their structure and content. In the ADELE project, it is used to identify the judicial arguments within a text, classify their components into premises and conclusions, classify the nature of the premises (factual, legal, or mixed), and classify the arguments according to their argumentation scheme.

**Argumentative Scheme**: Logical structure that defines the form of an argument and provides a framework for assessing its correctness. A general theory of argumentative schemes has been developed by the Canadian philosopher Douglas Walton, and applications in the legal sphere by authoritative scholars such as Giovanni Sartor, Fabrizio Macagno, and Chris Reed. In the ADELE project, the most recurrent argumentative schemes are those based on the legal rule (i.e., the application of a legal norm), on the precedent (i.e., the application of a general principle of the legal system).

Artificial Intelligence (AI): The development and use of algorithms and computer systems to simulate or replicate human intelligence and behaviour. In the ADELE project, AI techniques have been used to design and develop the pilot tool. It includes symbolic techniques such as knowledge representation, and sub-symbolic techniques such as data analytics, machine learning, and natural language processing.

**Keyword extraction**: A process to identify and extract keywords from a decision. It applies natural language processing (NLP) to analyse large volumes of text and identify and extract

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meaningful information from it. In the ADELE project, keyword extraction was carried out using legal-specific vocabularies and supervised training of the legal experts.

**Legal analytics**: the use of data-driven methods to analyse and understand complex legal information. This includes the application of statistical, text mining and machine learning techniques to legal data. In the ADELE project, legal analytics include the techniques used and developed to set up the functionalities in the pilot tool.

**Machine learning**: A sub-field of Artificial Intelligence (AI) that focuses on creating algorithms and models to analyse data, learn from it and make predictions and decisions. It is divided into supervised, unsupervised and reinforcement learning. In the ADELE project, supervised machine learning algorithms were used to create predictive models for keyword extraction, summary extraction, judicial argument extraction, and outcome prediction.

**Natural language processing (NLP)**: A sub-field of Artificial Intelligence that enables machines to analyse and understand human language to better interpret and respond to user input. In the ADELE project, it is used for the functionalities of legal knowledge extraction, citation analysis and outcome prediction. For example, NLP methods were used in citation extraction to identify common ways of citing case law and legislation.

**Ontology**: A formal representation of knowledge as a set of concepts within a domain and the relationships between these concepts. In the ADELE project, two multilingual ontologies were developed in the legal domains of the project to provide judges with a graphical visualisation of the relevant legal domain and a way of searching for case law by conceptual groups, i.e., cases relevant to the same legal concept.

**Outcome prediction**: The process of using decisions provided at case steps to predict the likely outcome of a future case. In the ADELE project, outcome prediction relates to a specific party's request, possibly supported by the claims and arguments.

**Pilot tool:** A software programme or system designed to test the functionality of a new technology, possibly before it is released to the public. It is used to demonstrate the feasibility of specific applications/methods and identify potential problems that might arise in the final product. The ADELE tool is intended as a pilot tool, not as software that judges can use immediately. It is a prototype with various functionalities to demonstrate the potential and limitations of using AI in the judiciary.

**Summary extraction**: Process of automatic creation of a concise summary of the content of a legal decision. In the ADELE project, summaries were automatically created by extracting the most important sentences within a decision and under the supervision of the legal expert.



**Supervised learning**: A machine learning approach in which a model is trained using annotated data, i.e., data with additional machine-readable information. The model learns to make predictions based on this labelled data and is evaluated on its ability to generalise its predictions to unseen data during training. In the ADELE project, supervised learning was realised by creating an annotated decision corpus and using machine learning algorithms.

**Training and test set**: A training and test set is a set of data used to evaluate the performance of a machine learning algorithm. The training set is used to train the algorithm, while the test set is used to evaluate its performance. In the ADELE project, judgments collected in the relevant legal fields were annotated by legal experts and used as the training and test set for processing the machine learning models used in keyword extraction, summary extraction, judicial argument extraction, and outcome prediction.



# ADELE

# Analytics for DEcision of LEgal cases

# **Project Booklet**



This project is funded by the European Union's Justice Programme (2014-2020)

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# **1. The ADELE project: overview**

The Project ADELE (*Analytics for DEcision of LEgal cases*) is co-funded by the European Union's Justice Programme (2014-2020). The project has run for 30 months: it started on 1 February 2021 and ends on 31 July 2023.

The project has developed Artificial intelligence and legal analytics methods, such as data analytics, machine learning, and natural language processing, to support legal research and decision-making processes in the judiciary. It has engaged in multiple tasks, such as annotation of legal decisions, keyword and summary extraction, knowledge representation, network analysis, judicial argument extraction, and outcome prediction.

The project focused on two legal areas: value added tax (VAT) and trademarks and patents. It has analysed both national and EU case law and legislation.

## 2. Partners

The project was developed through cooperation between:

- the <u>Alma Mater University of Bologna</u> (Coordinator)
- the Bulgarian legal informatics company <u>APIS Europe</u>
- the <u>University of Turin</u>
- the <u>Centre for Judicial Cooperation</u> of the <u>European University Institute</u> of Florence
- the University of Luxembourg
- the Bulgarian LIBRe Foundation
- the Bulgarian Union of Jurists

# 3. Context and objectives

The context of the ADELE project is provided by AI and legal analytics (LA), a bunch of computational techniques such as data analytics, machine learning, and natural language processing applied to legal data and documents.



In the past few years, LA has given rise to many real-world applications, mainly as a private sector initiative, in the following domains:

- Identification and representation of legal knowledge, defining types of annotations, concepts, links and their integration with conceptual ontologies;
- Machine learning with legal texts, managing complex unstructured datasets, classifying paragraphs of texts, extracting legal rules, comparing rules across jurisdictions;
- Extraction of arguments from cases, including argument structure, claims, and substantive legal factors;
- Connection of computational reasoning models and legal texts, annotating obligations in privacy policies, delivering Q&A services, making legal predictions in IPR cases, providing visual maps linking cases and concepts.

Also, national judicial systems across the EU have increasingly started to test and experiment with AI technologies in the judiciary to enhance judicial decision-making efficiency.

The ADELE project has represented an effort in this direction, as it developed an AI-powered prototype as a use case in the Bulgarian and Italian judiciaries. In particular, the project has pursued the following specific objectives:

- Knowledge extraction and modelling, to provide courts with a rich, lightweight ontology representing the structure of terms in the relevant legal fields.
- Network and citation analysis of case law, to provide network analysis featuring richly defined explicit and implicit links between case law, ranked in terms of statistical relevance.
- Argument mining, to provide different sets of types of arguments, grouped according to their argument schemes and their function in determining the final outcome of the case.
- Detection of trends in judicial decision-making, to enable the determination of the most likely outcome of the decision based on precedent judgments.



# 4. Activities

During the project, the following activities were carried out:

- selection of judgments from Italian and Bulgarian courts and annotation of datasets based on a common methodology and guidelines;
- extraction of keywords and summaries from selected judgments;
- development of a legal ontology of the analysed legal fields containing the main concepts and relations;
- extraction and citation analysis of relevant case law and legislation;
- processing the annotated documents with supervised machine-learning algorithms to extract the arguments used by the judges;
- processing of annotated documents with supervised machine learning algorithms to predict the outcome of new cases;
- developing a pilot tool, which translates the AI and ML technologies for legal analysis of court decisions into user-friendly functionalities;
- producing an easy-to-use web application for judges and other legal practitioners.
- testing the pilot tool among selected target users in the Bulgarian and Italian legal systems and revising the tools according to the feedback received;
- validating the pilot tool among selected target users in the Bulgarian and Italian legal systems.

# 5. Results

The ADELE project has:

- elaborated a methodological framework to use LA for the judiciary and;
- experimented with multi-lingual techniques in Bulgarian and Italian, also including a test with German;
- developed a pilot tool in the selected legal fields.

The ADELE pilot instrument is available at the following link: <u>https://adele-tool.eu/</u>



The ADELE pilot tool covers two areas of law: VAT and trademarks and patents. The legislation and case law included in the tool refer to these specific areas, taking into account the European and national perspectives. Accordingly, the ADELE tool was developed on the basis of the two jurisdictions covered by the project: Bulgaria and Italy.



The instrument includes the legislation applicable to the selected sectors, also taking into account the different versions of the legislative documents that have followed over time.

The pilot tool contains the different functionalities described in the figure below:





# 6. Impact

Based on feedback received by targeted users during the project and the feasibility of the objective, the resulting impact of the ADELE project:

- Support legal research and decision-making processes in the judiciary through automated tools to extract legal knowledge from case law and infer undiscovered relationships.
- Improve the efficiency of the judicial system by developing innovative solutions that facilitate judicial tasks, reduce the workload of judicial bodies and increase the transparency of decision-making.
- Create a methodological framework for legal analytics and promote the scientific debate on the potential and risks of AI in the legal field.



# 7. Ethics

The ADELE project complies with the EU Ethical Guidelines on AI, adopted in 2019 by the European Commission through the High-Level Expert Group on Trustworthy AI (HLEG) and the European Ethical Charter on the Use of Artificial Intelligence in Judicial Systems and their Environment, adopted in 2018 by The Council of Europe acting through the European Commission for the Efficiency of Justice (CEPEJ).

The purpose of the AI tool developed in ADELE is not to provide a complete and ready-touse software for use by Italian and Bulgarian judges in decision-making, but to develop a use case to demonstrate the feasibility as well as limits of some AI-based applications. As clarified in the results screen, the output given by the AI pilot is not binding, nor does it necessarily reflect the correct legal treatment of a case. The use of the pilot tool is not intended to replace professional legal advice.

The research activities have been conducted in compliance with the General Data Protection Regulation (EU 2016/679) and other relevant applicable regulations. Any personal data processed during the collection and analysis of court judgments have been anonymised. The participants in the pilot testing and validation event have received information regarding their participation in the project and information regarding the processing of their personal data in accordance with Art. 13 GDPR. The research team will provide participants with strong guarantees of anonymity and confidentiality of personal data, during the research and at the time of disseminating the results.

# 8. Contact

More information on the project is available on the ADELE website: <u>https://site.unibo.it/adele/en</u>.

To submit any queries about the project and the pilot tool, email Giovanni Sartor (giovanni.sartor@unibo.it) and Federico Galli (federico.galli7@unibo.it).