EPSA Webinar on Data-Driven Justice: Innovating Judiciaries and Law Enforcement

Alejandro Fernández Muñoz

DG for Digital Transformation of the Justice Administration

Ministry of the Presidency, Justice and Parliamentary Relations of Spain

July 2024

Part 1
A Data-Driven Justice System

DG for Digital Transformation of the Justice Administration of Spain

THE MOST ADVANCED TECHNOLOGICAL SOLUTIONS FOR A MODERN, PEOPLE-CENTRED AND EFFICIENT JUSTICE SYSTEM

+ 25,000 internal users

Judicial Bodies, Public Prosecutor's Office, Civil Registries, Institutes of Legal Medicine and Forensic Sciences and Territorial Management. To civil servants and external users of the Ministry of the Presidency, Justice and Relations with the Courts.

+ 300,000 external users

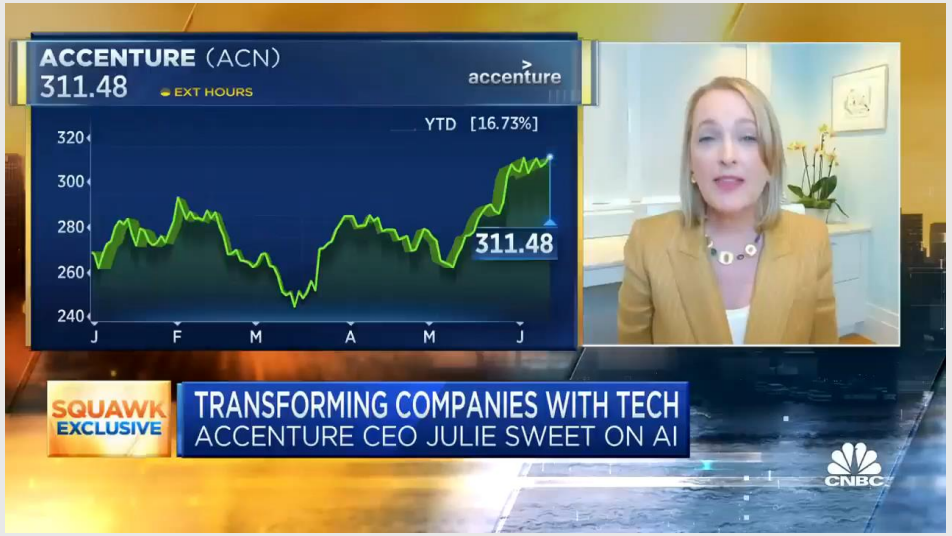
Law Enforcement Authorities, Lawyers, Attorneys, Social Graduates, Penitentiary Institutions, Public and Private Hospitals, other Public Administrations and the Autonomous Communities with transferred Justice powers, as well as Citizens.



+than **70** solutions and **20** services

+than **10** AI iniciatives in progress

+than **25** RPA iniciatives in progress



Julie Sweet, global CEO of Accenture, interviewed on American TV (CNBC) about AI. She highlights one single project and it is the case of the Spanish Ministry of Justice (Delfos). LINK.

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CEPEJ - Council of Europe

Data-driven Justicie

A change of paradigm



Document-based Justice



CONSEJO GENERAL DEL PODER JUDICIAL — JURISPRUDENCIA

Roj: STS 2351/2022 - ECLI:ES:TS:2022:2351

Id Cendoj: 28079129912022100014
Órgano: Tribunal Supremo. Sala de lo Penal
Sede: Madrid
Sección: 991
Fecha: 14/06/2022
Nº de Recurso: 10317/2021
Nº de Resolución: 585/2022
Procedimiento: Recurso de casación penal
Ponente: SUSANA POLO GARCIA
Tipo de Resolución: Sentencia

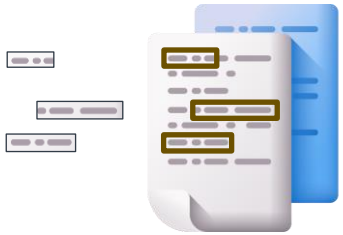
TRIBUNAL SUPREMO
Sala de lo Penal
PLENO
Sentencia núm. 585/2022
Fecha de sentencia: 14/06/2022
Tipo de procedimiento: RECURSO CASACION (P)
Número del procedimiento: 10317/2021 P
Fallo/Acuerdo:
Fecha de Votación y Fallo: 31/05/2022
Voto Particular
Ponente: Excma. Sra. D.ª Susana Polo García
Procedencia: T.S.J.COM.VALENCIANA SALA CIV/PE
Letrada de la Administración de Justicia: Sección 001
Transcrito por: AGA
Nota:
RECURSO CASACION (P) núm.: 10317/2021 P
Ponente: Excma. Sra. D.ª Susana Polo García
Letrada de la Administración de Justicia: Sección 001
TRIBUNAL SUPREMO
Sala de lo Penal
PLENO
Sentencia núm. 585/2022
Excmos. Sres. y Excmas. Sras.
D. Manuel Marchena Gómez, presidente
D. Andrés Martínez Arrieta
D. Julián Sánchez Melgar
D. Miguel Colmenero Menéndez de Luarca

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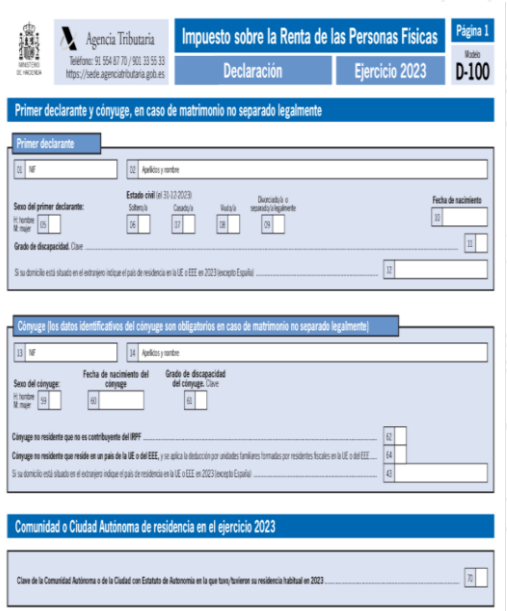


D A T A M E T A

Data-driven Justice



ESSENTIAL INFORMATION



Agencia Tributaria — Impuesto sobre la Renta de las Personas Físicas — Página 1
Declaración — Ejercicio 2023 — Modelo D-100

Primer declarante y cónyuge, en caso de matrimonio no separado legalmente

Primer declarante

Sexo del primer declarante: H hombre M mujer

Estado civil (el 31-12-2023): Soltero/a, Casado/a, Viudo/a, Divorciado/a o separado/a legalmente

Fecha de nacimiento

Grado de discapacidad. Clave

Si su domicilio está situado en el extranjero indique el país de residencia en la UE o EEE en 2023 (excepto España)

Cónyuge (los datos identificativos del cónyuge son obligatorios en caso de matrimonio no separado legalmente)

Sexo del cónyuge: H hombre M mujer

Fecha de nacimiento del cónyuge

Grado de discapacidad del cónyuge. Clave

Cónyuge no residente que no es contribuyente del IRPF

Cónyuge no residente que reside en un país de la UE o del EEE, y se aplica la deducción por anualidades familiares formadas por residentes fiscales en la UE o del EEE

Si su domicilio está situado en el extranjero indique el país de residencia en la UE o EEE en 2023 (excepto España)

Comunidad o Ciudad Autónoma de residencia en el ejercicio 2023

Clave de la Comunidad Autónoma o de la Ciudad con Estatuto de Autonomía en la que tuvo/tuvieron su residencia habitual en 2023

Data-driven Justicie

A change of paradigm

Document-based Justice

Full documents



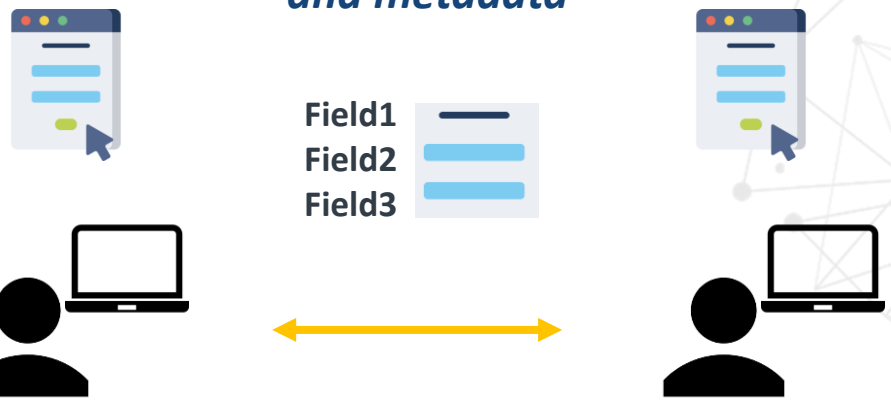
Document-based IT system

Common document interoperability norm

Document-based IT system

Data-driven Justice

Essential information and metadata



Data-driven IT system

Common metadata and data schemes'

Data-driven IT system

AUTOMATION & AI

02 The power of data-driven Justice: examples of RPA initiatives

Cancellation of criminal records

Expedites the necessary steps for citizens to lawfully be in possession of a negative criminal records certificate.

✓ Effective savings of **more than 359.000 working hours.**

Implementation & next steps

From around 30.000 manual ex-officio cancellations per month

To 140.000 automated ex-officio cancellations in the first week of implementation of RPA

Granting of nationality by residence

Automation of tasks to **confirm** that **the applicant fulfills the requirements established by law** (i.e., automated checking of that the information recorded in the different IT systems involved)

✓ Higher precision by following the established steps in an **agile and automatic way.**

Five automated processes working in parallel *(concesiones por residencia, concesiones sefardíes, denegaciones, comprobaciones con la DG de la Policía, carga de información del Instituto Cervantes)* that have carried out more than 2.800.000 automated processes

Resolution time decreased from 5 years to 5 months, on average

Implementation & next steps

- 3.000 resolution proposals / day.
- 450.000 positive resolution proposals propuestas de concesión thanks to robor process automation.
- From August to September 2023, more than **TWO MILLION checks** have been **automated** and more than **340.000 nationality** by residence **applications granted**.
- **Effective savings** estimated of more than **330.000 working hours.**

**Datos desde julio de 2020 a Febrero de 2024*

The power of data-driven Justice: examples of RPA initiatives

Automation of receipt and payment annotations between case management systems (CMS) and the courts' bank account

Automation of the day to day operations of the courts' bank account (CDCJ) in order to free State Court Lawyers time and **ensure timely payment of payment orders** (**alimonies**, **tenant default**, etc)

Estimated savings of more than **100.000** h per year (MJU context)

More than **4.000** automatized operations per day

Implementation and next steps

- Already working in: Cáceres, Badajoz, Guadalajara, León, Murcia, Palencia, Islas Baleares. Also, piloted in Principado de Asturias. The automation will be gradually extended to the rest of the MJU context.

Since its entry in operation in April 2023, **more than 375.000 operations have been automatized**

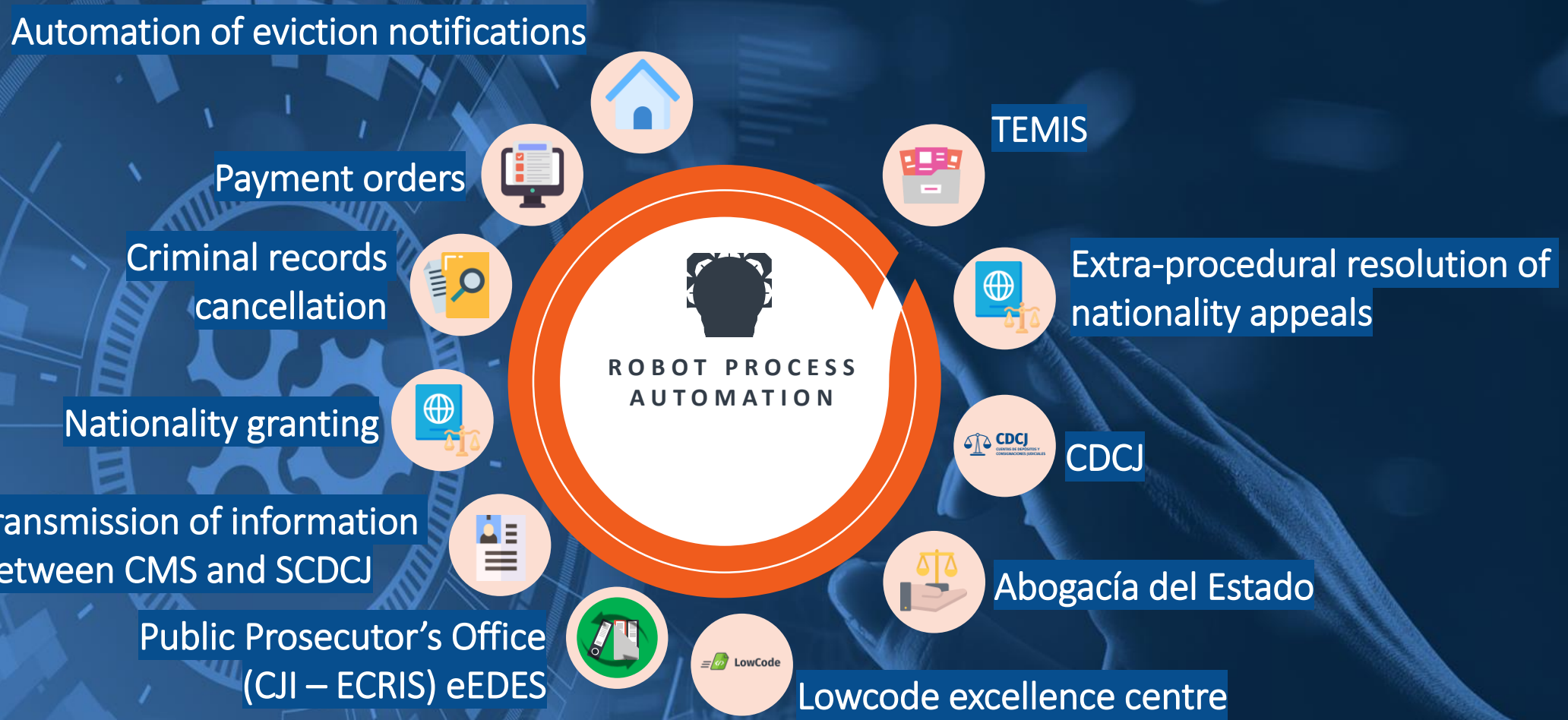


Believe in the power of technology to better people's lives and…



Second European Public Sector Award (EPSA) 2023-24
for the results of our robot process automation initiatives

The power of data-driven Justice: RPA initiatives



The power of data-driven Justice: examples of AI initiatives

Document Anonymizer

It allows for the **recognition of nominal entities** that identify the information related to specially **protected** subjects and **proceeds to their anonymisation.**

Implementation and next steps

- Adding a **specific anonymization** for the Nationality and Civil Registry teams is planned.
- In **operation 3 AI services accessible** from the desktops of all MJU officials, as well as those transferred territories that wish to do so, by entering the corresponding web address.
- Advancing these services through **new functional improvements**, the latest of which were made in March 2023.

More **accurate and agile**

Similarity analysis

+24.000
anonymized documents



03 The power of data-driven Justice: examples of AI initiatives

Document Classifier



It allows the **self-cataloguing** of the documentation received in the judicial offices based on the documentary standards established by the CGPJ.

Similarity Analysis



It allows locating the same entity (same person) in different parts of the document, and recognising them as the same, despite significant differences in their literals.

Easy Reading

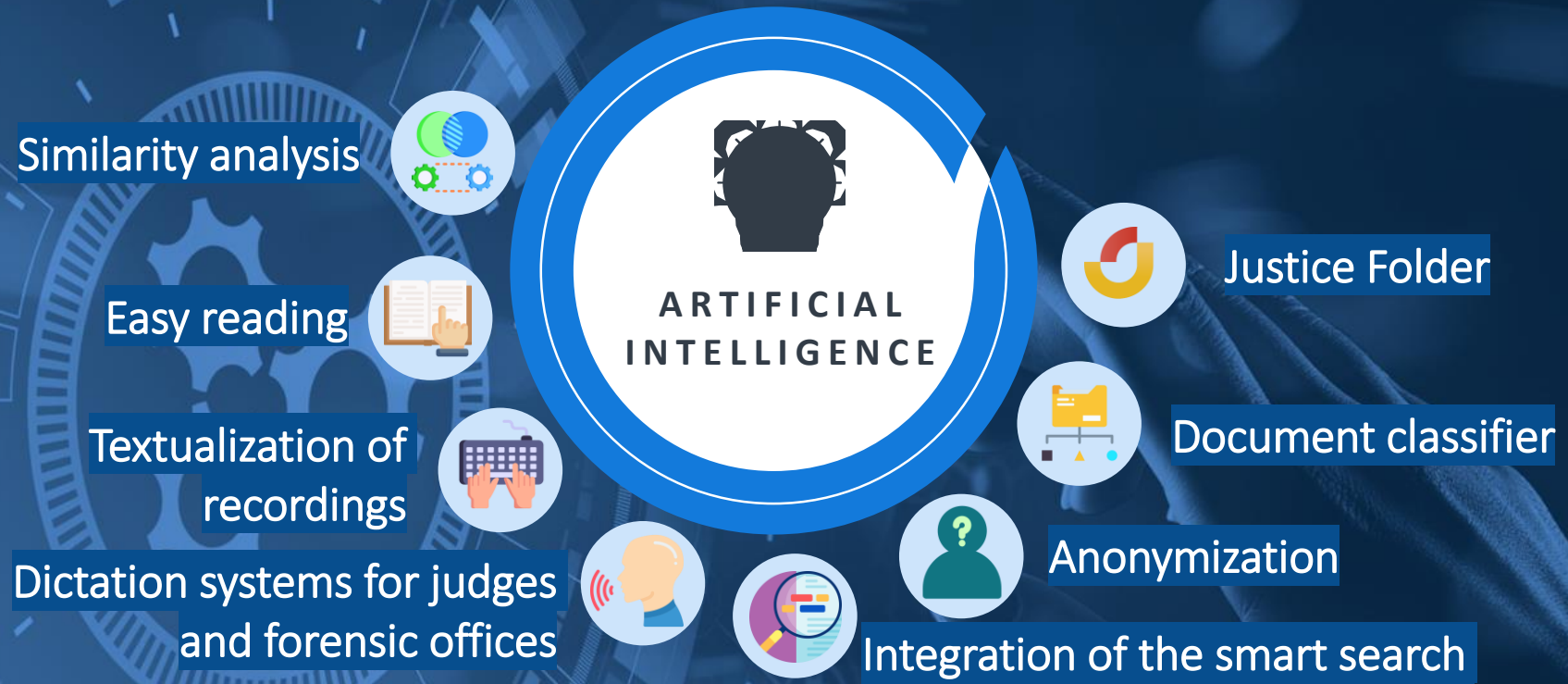
Proof of concept of this tool that allows the introduction of any legal element in easy reading format.

- ✓ For people with functional diversity who have some comprehension difficulties.
- ✓ Standardised rules are applied to make documents **accessible to everyone.**

Implementation and next steps

- In the development of model tests, the summaries of disability sentences are adapted to easy-to-read language in order to train the designed algorithm.
- The legal team continues with the training of the models and is in the process of defining concepts, including pictograms and revising the summaries.
  - ✓ The first adaptation of the summaries of disability decisions has been completed.
  - ✓ The solution is expected to be **available by the end of 2023.**

The power of data-driven Justice: AI initiatives



Data-driven Justicie

Translation into policy



Soft policy instrument

- **Public Service of Justice based on data**
- **Principles for the production and use of data in the Public Service of Justice**
- **Governance and working principles**
- **Exchange of data**

Data-driven Justicie

Translation into policy

Justice Digital Efficiency Act

(Royal Decree – Law 6/2023)

CHAPTER II

Data-oriented processing

Article 35. General principle of data orientation.

1. **All information and communication systems** used in the field of the Administration of Justice, even for purposes of supporting governmental purposes, **will ensure the entry, incorporation, and processing of information in the form of metadata**, in accordance with **common schemes**, and in common and **interoperable data models** that enable, simplify and favour the following purposes:

Data-driven Justicie

Translation into policy

Important for a decentralized country

a) The **interoperability** of the computer systems available to the Administration of Justice.
b) The electronic **processing of judicial procedures**.
c) The **search and analysis** of data and documents for **jurisdictional and organisational purposes**.
d) The search and analysis of data for **statistical purposes**. **(AI tools)**
e) The **anonymisation and pseudonymisation** of data and documents.
f) The use of data through **dashboards** or similar tools, by each Public Administration within the framework of its powers.
g) Document management.
h) Self-documentation and the transformation of documents.
i) The **publication** of information on **open data portals**. datos.justicia.es

Justice in Data

This portal presents in an orderly, open and accessible manner all the official data related to the Administration of Justice and the Judiciary in Spain.

THEMATIC INDICATORS

Socioeconomic

The **Justice in Data** portal responds, in accordance with this principle, to the historical need to offer citizens a public, common, reusable and transparent space for

Data-driven Justicie

Translation into policy

RPA and AI tools!

j) The **production of automated, assisted, and proactive judicial and procedural actions**, in accordance with the law.
k) The application of **artificial intelligence techniques** for the above purposes or others that serve to support the jurisdictional function, the processing, where appropriate, of judicial procedures, and the definition and execution of public policies related to the Administration of Justice.
l) The **transmission of data** between judicial bodies, public administrations and also with citizens or legal entities, in accordance with the law.
m) Any other legitimate purpose of interest to the Administration of Justice.

2. The **use of data models will be mandatory** under the conditions determined by regulation, following a report from the **State Technical Committee of the Electronic Judicial Administration**, **for the entire territory of the State**

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Part 2
The Justice Folder
The cornerstone of Justice interoperability in Spain

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03 The Justice Folder: a real focus on the end user

04 The Justice Folder: current state and next steps

05 The Justice Folder in figures



01 The context of the Justice Folder: Spain, a quasi-federal State

Justice competence shared between:

- Ministry of Presidency, Justice and Relations with Parliament *(5 autonomous communities + 2 autonomous cities)*
- 12 autonomous communities
- ICT co-governance through CTEAJE (1)

Interoperability between the applications of the different regions shall be ensured (Royal-Decree Law 6/2023)

- Many projects have been launched in the past years to reach full interoperability between all applications.
- Example: all case management systems of the courts will be interoperable thanks to the Judicial Interoperability Hub (2).

The goal is to reduce fragmentation and to **facilitate the access to the Public Service of Justice**

(1) State Technical Committee for the Electronic Judicial Administration

(2) Project funded by NextGenerationEU funds

Judicial Interoperability Hub: Full interoperability between case management systems of courts

Atenea/Minerva

All technical details (e.g. especifications) are agreed within CTEAJE and the Mnistry hosts the common elements of this inteoperability node



Illustrative exchange between the case management systems of La Rioja and Aragón.

02 The Justice Folder: an overview

The Justice Folder is a national one-stop shop to access all services and data within the justice domain in a simple and user-friendly manner

After a **simple login**, users can find their relevant information in **real time**: **scheduled hearings**, **powers of attorney**, **state of the judicial proceeding**, **access to the judicial file**, etc.

*The **Justice Folder** Project is embodied within the **Legislation on Digital Efficiency Measures for the Public Service of Justice**. It is a priority for the development of the **Justice 2030** plan and it is **funded by the EU (NextGenerationEU).***

Who can access?

- Individuals
- Companies
- Justice professionals



Justice Folder – Public Service of Justice (administraciondejusticia.gob.es)

COLLABORATION BETWEEN ADMINISTRATIONS

The scope of the project is **national**, so all users will see their information regardless of the region where it has been originated.

carpeta Justicia

03 The Justice Folder: a real focus on the end user

The focus is on the individuals, companies and justice professionals that use the Justice Folder.

Focus groups: **meetings** with **end users** are being conducted to **gather** their **insights** and **offer** the **experience, services and quality expected**

1.Justice professionals	**What do they expect?**
2. Citizens	**Test the Justice Folder as it is**
3. Associations	**Validate your hypotheses**

carpeta Justicia

04 The Justice Folder: current state and next steps

SERVICES ALREADY AVAILABLE

- ✓ **Scheduled hearings**
- ✓ **Powers of attorney** (100 % of regions)
- ✓ **Judicial edicts and associated resolutions**
- ✓ **State of the proceeding and access to the court file viewer**
- ✓ **Access to the deposit and judicial consignment accounts**
  Possibilities: to request access to them and to see the economic movements of the accounts related to each judicial proceeding.
- ✓ **Access the request for civil registry certificates**
- ✓ **Access the request for certificates** of criminal records and sexual offenses
- ✓ **Access to the request of appointments requests, e.g.,** for courts or civil registry offices
- ✓ **Access to AI services**
  - *Anonymization of documents*
  - *Easy reading summary of documents*

SOME SERVICES THAT WILL BE INCLUDED

- **Download of certificates with just a click**: civil registry, criminal records and sexual offenses.
- **Services based on artificial intelligence:**
  - *configurations of fields to be anonymized*
  - *inclusion of new types of summaries (e.g. headline)*
- **Access to communications** (documents, notifications, etc.)
- **Payment of fees, embargoes and others to deposit and judicial consignment** accounts by card
- **Request of inheritance certificates** with just a click.

*How would the **mobile app** look?*



05 The Justice Folder in figures





*Access and consultation of the electronic judicial file for **citizens:***

- Justice Folder has more than **60.000 users.**
- More than **700.000 open proceedings** (civil jurisdiction, excluding family proceedings).
- Consultation of almost **1.800.000 open proceedings** (main proceedings, appeals, etc.).



*Access and consultation of the electronic judicial file for **professionals:***

- More than **167.000 collegiate professionals** benefited, in addition to **300.000 LexNET users.**
- Access to judicial deposit and consignment accounts: **4.516 accounts opened.**

- Application for birth, marriage, death, criminal record and sexual offences certificates: **more than 6 million per year.**
- Power of attorneys: more than **800.000 per year.**

Gracias por su atención

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Ministry of the Presidency, Justice and Parliamentary Relations of Spain



GOBIERNO DE ESPAÑA
MINISTERIO DE LA PRESIDENCIA, JUSTICIA Y RELACIONES CON LAS CORTES
SECRETARÍA DE ESTADO DE JUSTICIA
SECRETARÍA GENERAL PARA LA INNOVACIÓN Y CALIDAD DEL SERVICIO PÚBLICO DE JUSTICIA
DIRECCIÓN GENERAL DE TRANSFORMACIÓN DIGITAL DE LA ADMINISTRACIÓN DE JUSTICIA
JUSTICIA 2030