



Judicial acts with audiovisual support

General Directorate for Digital
Transformation of the
Administration of Justice (DGTDAJ)

November 15th, 2022

INDEX

- 01 Precedents
- 02 Software system
- 03 Hardware system
- 04 Pandemic: telematic trials
- 05 Services around
- 06 Requests and questions



WHERE DO WE COME FROM?

Everything that happens in a trial session must be recorded in the minutes. The Court Clerk must ensure that the minutes are correct by signing them. All of these was done on paper.

BY ESTABLISHING DIGITAL MINUTES WE...

- ✓ ***... can check exactly all that happened.***
- ✓ ***... avoid the physical presence of the Court Clerk in the trial, giving her/him time to do more productive tasks.***
- ✓ ***... get benefit from digital signature advantages.***
- ✓ ***... can incorporate it automatically to the Electronic Court File.***

2. SOFTWARE SYSTEM: EFIDELIUS



Allows the digitalization of audio/video in courtrooms, the digital signature of the contents, the management of web access to them, the management of copies of the contents, the storage of the minutes and other needs of the judicial environment on this type of content.

eFidelius is the name given to the different recording software solutions for the procedural management of recordings and although these solutions varied (software developed by different companies), the name eFidelius was maintained, varying the version.



2010 - CICERO

The first commercial version of the software was Cicero, which was implemented approximately in 2010 by the company Vitelsa.



2014 – solución Arconte

In 2014 the Arconte solution was implemented by the company Fujitsu, through Red.es together with the renewal of the hw devices associated with the recording system. This commercial product has been maintained until the implementation of eFidelius v6 with its evolutions, with eFidelius v6 it has returned to the Cicero commercial product owned at this time by the company Coregrid.



Actuality

The company Xstream, currently Coregrid, has provided sources and code for its product, which is currently being developed through Amtega (Xunta de Galicia) with European funds.

eFidelius

eFidelius is the sound and image recording system of the hearings and appearances held before the Courts of Justice for their archiving and, if necessary, subsequent reproduction.

Preparation of the judicial act

Recording the act

Monitoring the act

Consultation of acts and
getting copies digitally signed

Functions
eFidelius

COURTROOM
ENVIRONMENT

&

WEB
ENVIRONMENT

SAMPLE SCREEN: PREPARATION OF THE ACT

The screenshot shows the EFIDELIUS software interface. At the top, there is a header with the EFIDELIUS logo, the European Union flag, and text indicating it is a project co-financed by the European Union. The main area is divided into several sections:

- Top Bar:** Displays "48. JDO. VIOLENCIA MUJER" and the date "02 de octubre de 2017" with the time "11:18".
- Left Sidebar:** Contains a search bar for "PROCEDIMIENTOS" with a dropdown menu showing "48 - JDO. VIOLENCIA SOBRE LA MUJER II - CIV". Below this are buttons for "nuevo procedimiento" and "borrar". There is also a section for "ACTUACIONES" with a table showing a list of actions and their dates.
- Main Form:** Contains fields for "PROCEDIMIENTO" (000000-2016), "ACTUACIÓN" (COM - COMPARECENCIA), "LETRADO" (JOSHON JUSTICIA), and "LUGAR" (SANTIAGO TITULAR). There are also fields for "FECHA" and "HORA INI" / "HORA FIN".
- Bottom Section:** Includes a table for "INTERVINIENTE" with columns for DNI, Nombre, Rol, and Fijo. The table shows "123456782" for "SANTIAGO CUENCA DEMANDANTE" with the role "AE - ADOPTANTE". There are buttons for "añadir interviniente", "borrar interviniente", and "representantes".
- Footer:** Includes a "Salir" button and the XTREAM logo.

SAMPLE SCREEN: RECORDING THE ACT



UNIÓN EUROPEA
PROYECTO COFINANCIADO
POR EL FONDO EUROPEO DE
DESARROLLO REGIONAL
(FEDER)
Una manera de hacer Europa

48. JDO. VIOLENCIA DE MUJER
48 - JDO. VIOLENCIA SOBRE LA MUJER 1 - CIV

20 de julio de 2017 10:21
Super Administrador



00:00:00
PARADO
UPS 0% Libre 534h 3...
Selección actuación Control grabación
PROCEDIMIENTO 0000017-2017
ACTUACIONES PENDIENTES
CON - CONCILIACION 20/07/2017 11:00:00
abrir actuación

COMENTARIOS DEL PROCEDIMIENTO
Prueba Certificado digital

COMENTARIOS DE LA ACTUACIÓN

INTERVIENE:
MINUTADO
☒ Intervenciones ☒ Comentarios
JUEZ PEDRO ALBUJAR OLGA NOELIA
AB. ADELARO FERNANDEZ SANCHEZ MANUEL

COMENTARIOS EN DIRECTO
Gestión Interv.
Aplazar act.
Finalizar act.
Insertar comentario
No difundir



Salir

SAMPLE SCREEN: MONITORING THE ACT

The screenshot displays the EFIDELIUS software interface, which is used for monitoring system health and events. The interface is divided into a left sidebar and two main monitoring panels.

Left Sidebar:

- Logo: eFidelius
- XTREAM
- Selección de Equipo: PRUEBAS (highlighted with a red box)
- Monitorizar
- Desconectar
- Añadir Monitor
- Eliminar
- Monitorización técnica
- Salir

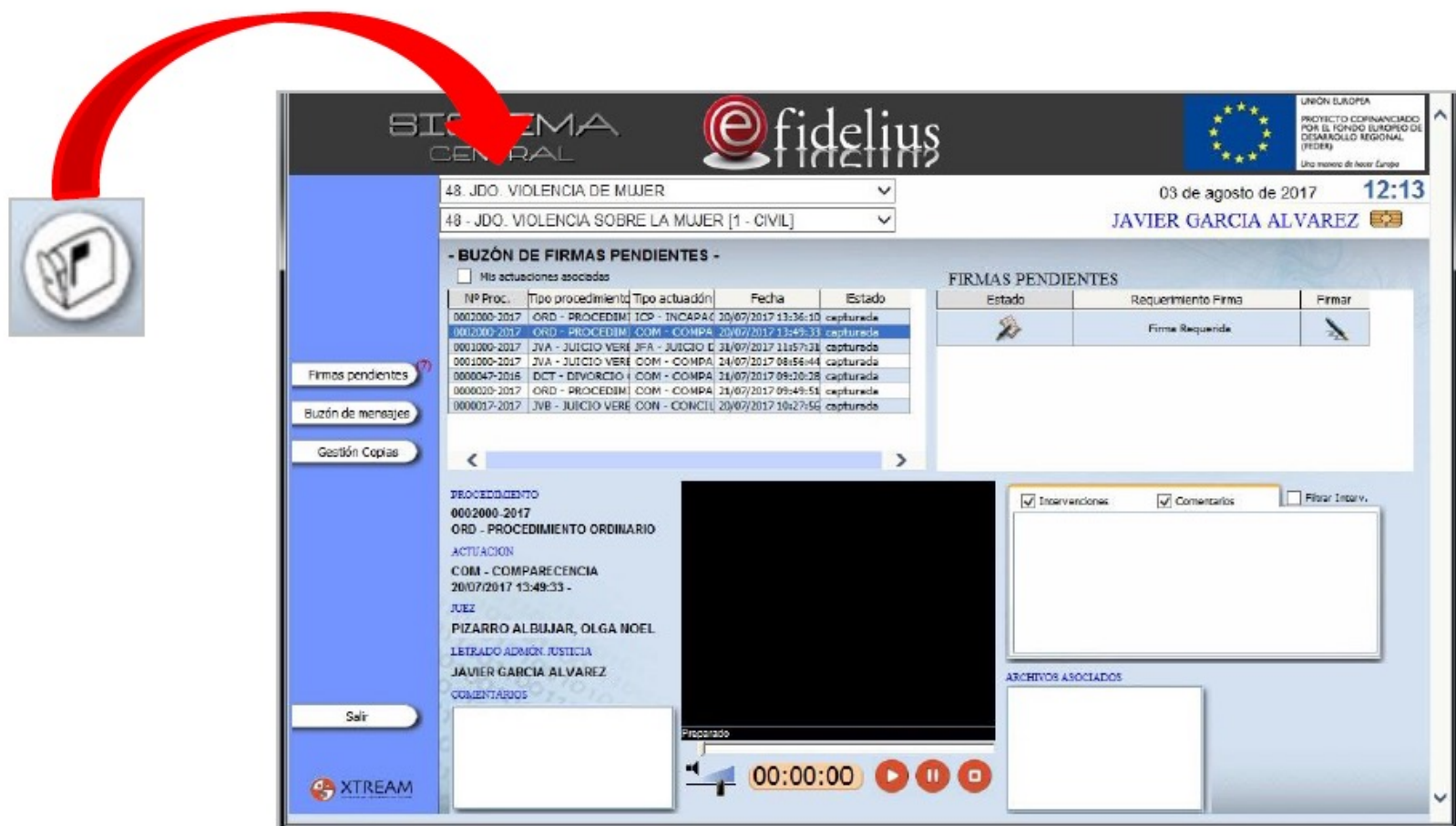
Monitoring Panel 1 (Left):

- Juzgado: JUZGADO DE PRIMERA INSTANCIA E INSTRUCCION Nº1 - XTREAM-1
- Sala: SISTEMA AUTÓNOMO DEMOS
- Descripción: DILIGENCIAS FINALES
- Visualización: Four circular gauges showing system status: UPS (0%), DISCO (24%), CPU (27%), and a fourth gauge (likely memory) at 0%.
- Tipo de Evento: Alarmas/Logs
- Nivel de Trazo: Bajo
- Reproduciendo: A video player interface showing a black screen.
- Table Headers: Fecha, Tipo, Nivel, Mensaje, Módulo

Monitoring Panel 2 (Right):

- Juzgado: JUZGADO DE PRIMERA INSTANCIA E INSTRUCCION Nº2 - XTREAM-1
- Sala: SISTEMA AUTÓNOMO DE PRUEBAS
- Descripción: CAREO
- Visualización: Four circular gauges showing system status: UPS (0%), DISCO (9%), CPU (12%), and a fourth gauge (likely memory) at 0%.
- Tipo de Evento: Alarmas/Logs
- Nivel de Trazo: Bajo
- Reproduciendo: A video player interface showing a blue screen.
- Table Headers: Fecha, Tipo, Nivel, Mensaje, Módulo

SAMPLE SCREEN: SIGNING MINUTES



The screenshot displays the EFIDELIUS web application interface. At the top, the header includes the 'SISTEMA CENTRAL' logo, the 'efidelius' logo, the European Union flag, and text indicating funding by the European Union. The user is logged in as 'JAVIER GARCIA ALVAREZ' on '03 de agosto de 2017' at '12:13'.

The main section is titled '- BUZÓN DE FIRMAS PENDIENTES -' and contains a table of pending signatures:

NP Proc.	Tipo procedimiento	Tipo actuación	Fecha	Estado
0001000-2017	ORD - PROCEDIM	ICP - INCAPAC	20/07/2017 13:36:10	capturada
0001000-2017	ORD - PROCEDIM	COM - COMPA	20/07/2017 13:49:33	capturada
0001000-2017	JVA - JUICIO VERE	JFA - JUICIO E	31/07/2017 11:57:31	capturada
0001000-2017	JVA - JUICIO VERE	COM - COMPA	24/07/2017 08:56:44	capturada
0000047-2016	DCT - DIVORCIO	COM - COMPA	21/07/2017 08:20:28	capturada
0000020-2017	ORD - PROCEDIM	COM - COMPA	21/07/2017 09:48:51	capturada
0000017-2017	JVB - JUICIO VERE	CON - CONCIL	20/07/2017 16:27:56	capturada

To the right of this table is a 'FIRMAS PENDIENTES' section with a table for signing:

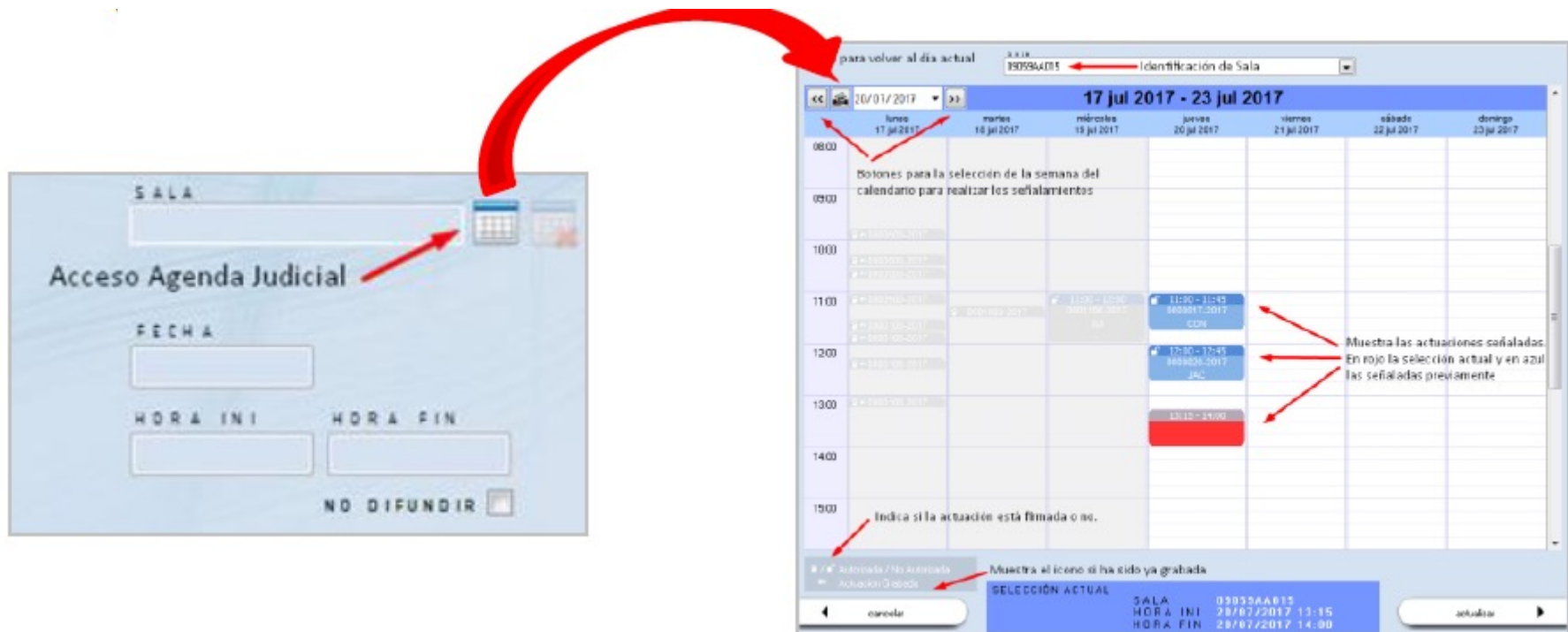
Estado	Requerimiento Firma	Firmar
	Firma Requerida	

Below the table, there is a 'PROCEDIMIENTO' section showing details for '0002000-2017 ORD - PROCEDIMIENTO ORDINARIO' and 'ACTUACION COM - COMPARECENCIA 20/07/2017 13:49:33'. The user 'JAVIER GARCIA ALVAREZ' is listed as the 'JUEZ'. A 'COMENTARIOS' section is also visible.

At the bottom, there is a video player interface with a 'Preparado' button, a timer at '00:00:00', and playback controls. To the right of the video player are checkboxes for 'Intervenciones', 'Comentarios', and 'Firmar Interv.', and a section for 'ARCHIVOS ASOCIADOS'.

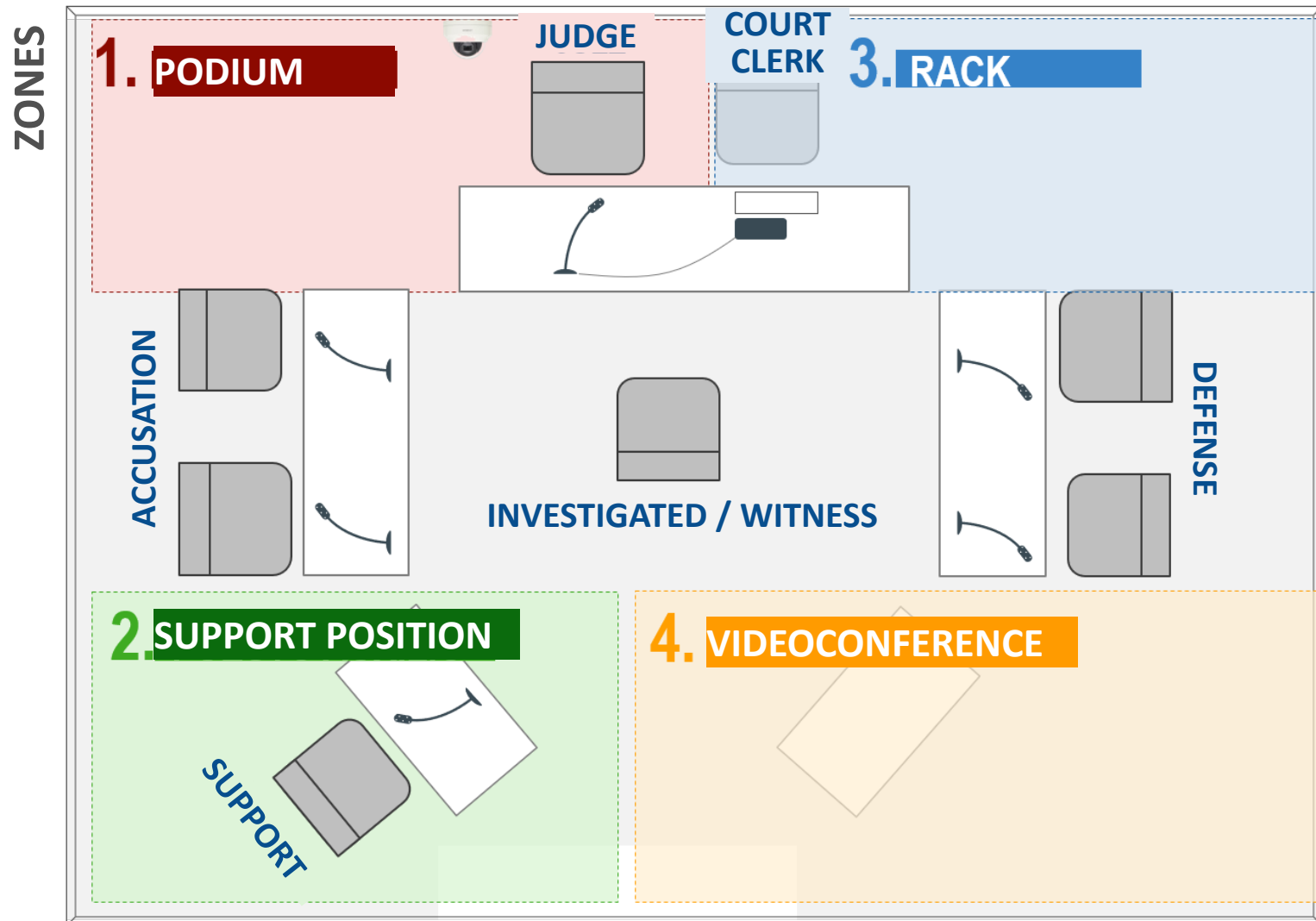
2. SOFTWARE SYSTEM: EFIDELIUS

eFidelius has an internal schedule, but we have developed an integration with our specific solution for it: Agenda de Señalamientos



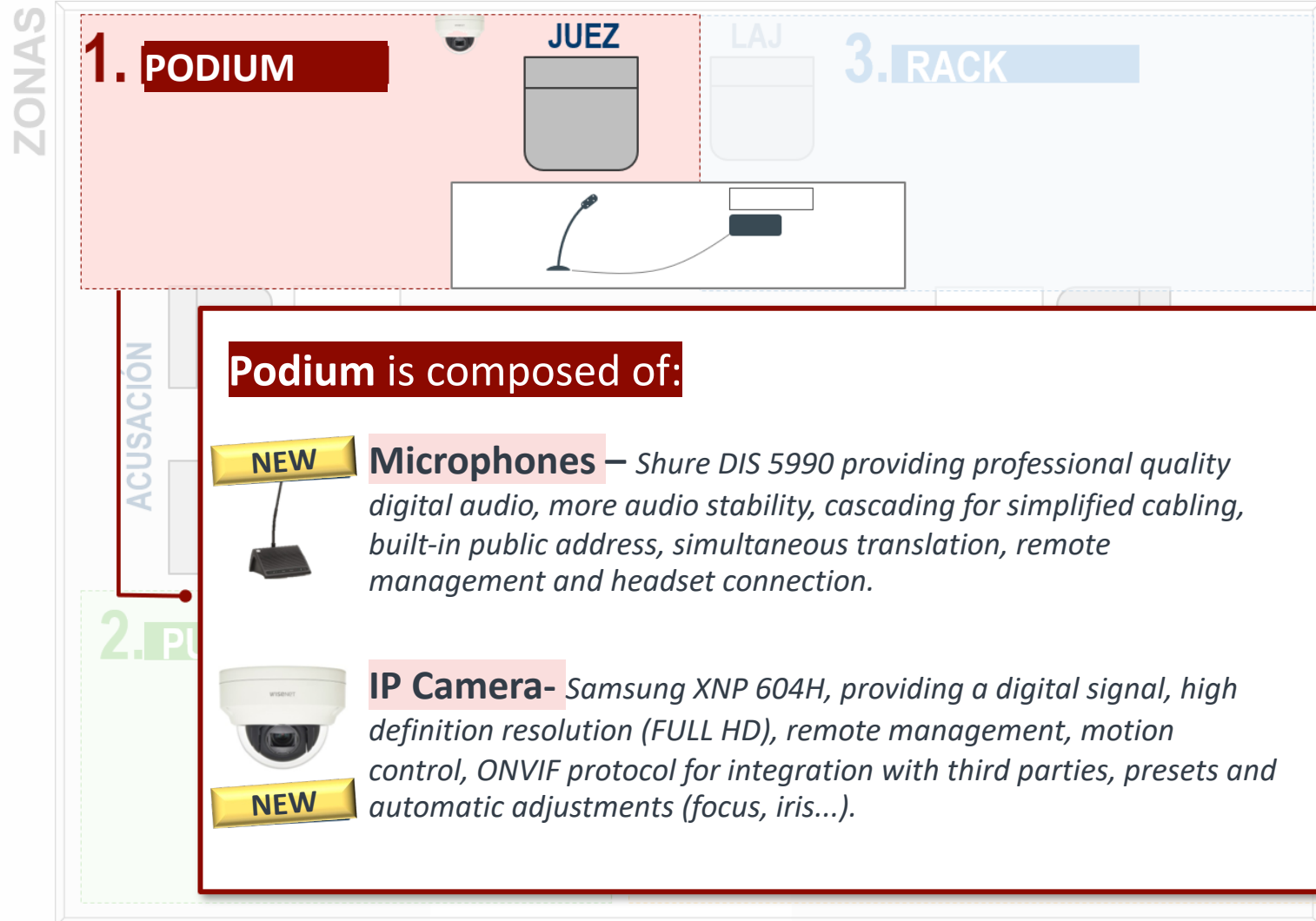
3. HARDWARE SYSTEM: ROOM LAYOUT

We can establish four areas from which the correct development of the videoconferences is directed and controlled



3. HARDWARE SYSTEM: TECHNOLOGICAL EQUIPMENT

Taking into account the new elements incorporated, we can establish four areas from which the correct development of the videoconferences is directed and controlled



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ZONAS

Support Position, performs monitoring and tracking, document exposure and serves as a support for eFidelius. It is composed of:



KVM- allows the audio signal to be carried to the assistant's workstation and the connection of headphones for monitoring the recording.



Microphones



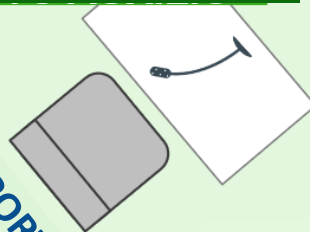
Duplicator VGA



Mini PC

2. SUPPORT POSITION

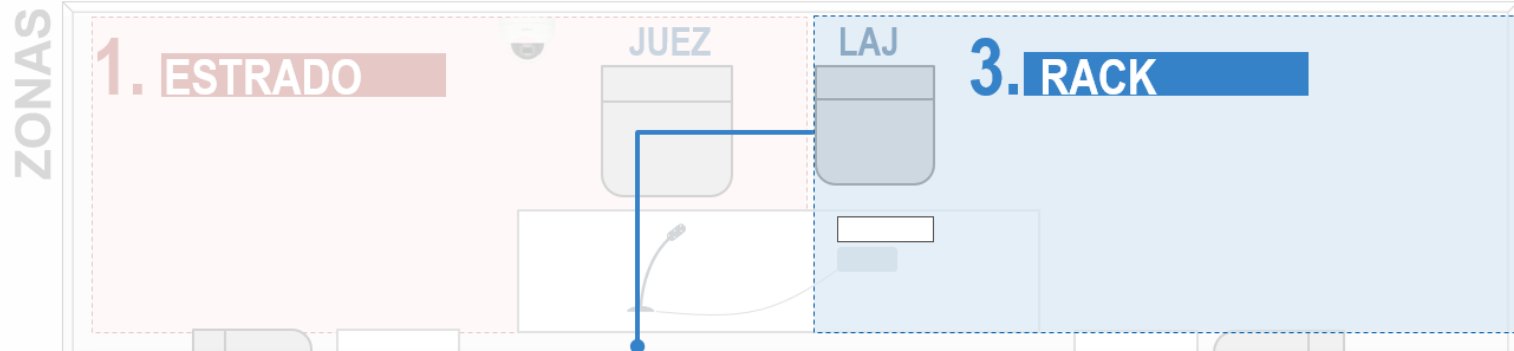
SUPPORT



4. VIDEOCONFERENCIA

3. HARDWARE SYSTEM: TECHNOLOGICAL EQUIPMENT

Taking into account the new elements incorporated, we can establish four areas from which the correct development of the videoconferences is directed and controlled



Rack, contains the main technological devices. It allows recording in eFideliuis and consists of:



KVM- allows the audio signal to be carried to the assistant's workstation and the connection of headphones for monitoring the recording.



Audio mixer



Workstation — es is the PC where the eFideliuis application is run and the audiovisual signal is captured, allowing for increased processing capacity and enhanced performance.



Capture Card

Capture audio and video with higher quality. It is compatible with Windows 10 and allows integration with third parties.



Network Card

3. HARDWARE SYSTEM: TECHNOLOGICAL EQUIPMENT

Taking into account the new elements incorporated, we can establish four areas from which the correct development of the videoconferences is directed and controlled

Videoconference, the area from where the videoconference is directed is formed by:



Splitter



Videoconference



Media converter

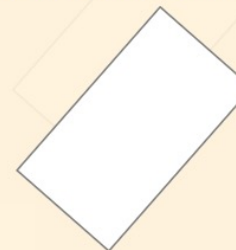


Projector

2. PUESTO AUXILIO





4. VIDEOCONFERENCE



3. HARDWARE SYSTEM: COURTROOM FACILITIES OF THE XXI CENTURY

The technological solution advances in the creation of one of the **Modern Courtroom Facilities** in accordance with the needs of the XXI century

For that, actions are being carried out related to the development of a new recording software, eFidelius 6, and the total renovation of server infrastructure, communication and images and sound equipment to improve the quality of the files recording, as well as the incorporation of TV monitors for projection.

 Lines of actions	 Benefits
Recording software eFidelius 6	<ul style="list-style-type: none">• <i>Improvement of quality and stability in the recordings and this adds new features.</i>
Recording equipment in Courtroom Facilities	<ul style="list-style-type: none">• <i>100% of the renewed infrastructure according to the new technological standard</i>• <i>Videoconference equipment connected to Judicial Network</i>
WiFi in Courtroom Facilities	<ul style="list-style-type: none">• <i>Access without VPN to the Procesal Management System.</i>• <i>Conexión to a Secure Network.</i>• <i>Wireless connectivity offering movility to users of the Courtroom Facilities.</i>• <i>100% of the Courtroom with WIFI access</i>



Has allowed new features :

- ✓ Direct streaming transimtion
- ✓ Recording textualization
- ✓ Celebration of acts of telematic trials

4. COVID – 19: TELEMATIC TRIALS

The outbreak of COVID-19 created a new scenario that required the continuation of judicial activity with the same guarantees of security and legal validity, while preserving the health of citizens.



4. COVID – 19: TELEMATIC TRIALS

*This technological solution has as its main objective **to be able to carry out actions by videoconference and other means, with full legal validity, without the need to act in person**, all related to teleworking systems, fundamental to improve the efficiency of the Administration and the conciliation capacities of employees.*

TELEMATIC TRIALS

4. COVID – 19: TECHNOLOGICAL TOOLS



ADD NEW TECHNOLOGICAL TOOLS

COURTROOM
RECORDING
SYSTEM

MOBILE
VIDEOCONFERENCING
SYSTEM

OTHER TECHNICAL
MEANS

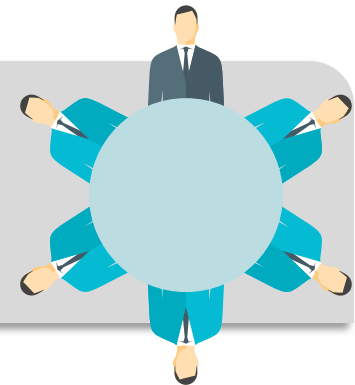


FIXED
VIDEOCONFERENCING
SYSTEM

VIDEOCONFERENCING
TECHNOLOGY
SOLUTION

The CMS videoconferencing software installed on the content pc of the courtrooms...

*allows the autonomous realization
(managed by the help) of
multiconferences*



**Facilitating different forms of
access (physical equipment, ISDN,
URL),**

**At the same time, the help
must add the physical
equipment of the room
(coded) as another
participant of the
multiconference.**



**The recording
equipment ...**




where eFidelius is
located is integrated at
a physical level
(dedicated wiring)

with the fixed
videoconferencing
equipment of the
room (codec),

so by selecting in eFidelius the
source assigned to the
videoconference we can record
the signal of the virtual room of
CMS.

4. COVID – 19: EXAMPLE OF NOTIFICATION THAT CARRIES VIDEOCONFERENCING SIGNALING



You have been invited to the videoconference at
Chamber xxxxxxxxxxxx



To connect to the meeting you have the following options:

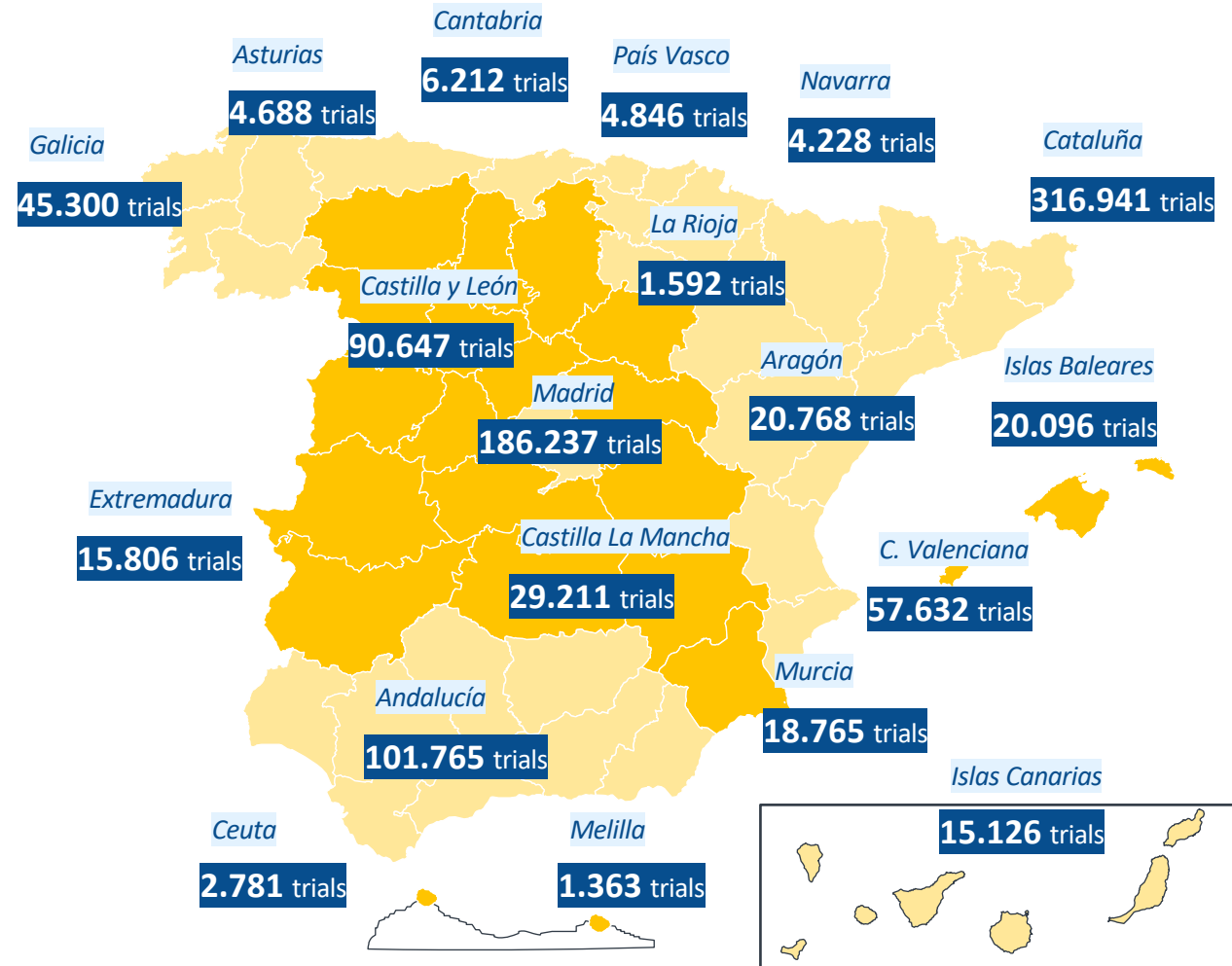
- 1** If you have a Mobile Video Conferencing user, log in and click on meet and enter xxxxxx if you have been given a pin, enter it and click on connect to the meeting
- 2** If you are making the call from an internal video conferencing machine, dial xxxxx, and if you have been given pin, enter it and #
- 3** If you make the call from an external videoconference equipment (outside the Administration of Justice) you will need to call xxxxxxxx@vc.mju.es and if you have been given a pin, enter it and # (Only allowed sites)
- 4** If you do not have a videoconferencing system, you can connect from a PC, tablet or mobile phone by following these steps:

- Access <https://video.justicia.es> (chrome, firefox and edge supported)
- Click on connect to the meeting and enter the data (Field ID y Access code)
- Click on join the meeting, enter your name and click on connect to the meeting
- Select camera, mic and speaker
- Click on start meeting



4. COVID – 19: TELEMATIC TRIALS IN DATA

This is a tangible reality, as shown by the following data:



Territory Ministry Data



More than **150 Thousand**
Telematic Trials



Territory Ministry



Autonomous Communities with competence

Telematic Trials in each Autonomous Community from May 2020 to July 2022:

5. SERVICES AROUND: TEXTUALIZATION OF RECORDINGS

The project **Textualization of Recordings** as a tool to support judicial activity brings important benefits and meets the objectives set by the **Next Generation EU** program. It is a success both in its implementation and in its reception by users.

A Project that transforms Justice through Artificial Intelligence (AI)

Providing:



A significant **saving of time** when searching for content of the views, so far **149 thousand hours** have been saved, which is equivalent to **90 officials**.



More than **447 thousand** court hearings **successfully textualized**.

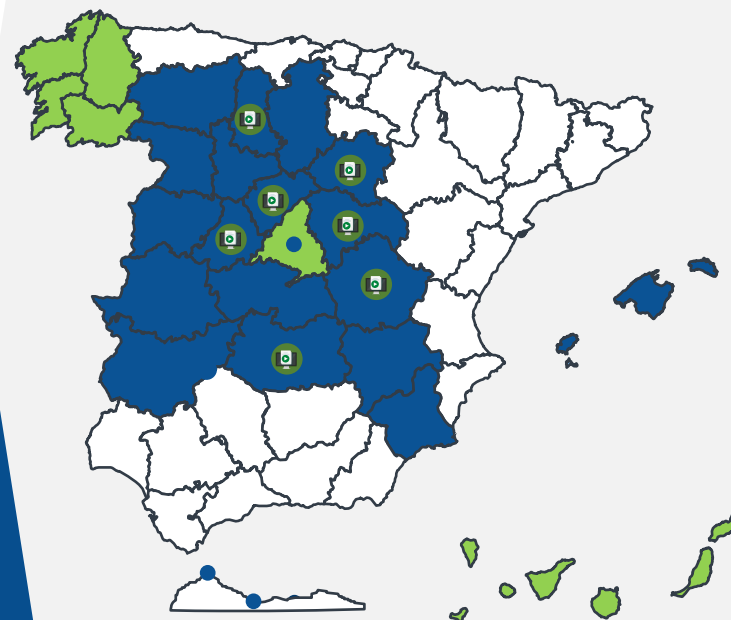
✓ **Improves productivity**, saves an estimated **60% of the time** it takes users to locate a specific extract of a recording and perform the analysis of the views held.

✓ **Inclusive tools**, allow people **with hearing disabilities** to view the appearance and access the content **without barriers**.

✓ **Efficient**, it facilitates the legal understanding of the global procedure for **judges and magistrates**, thus **improving the finding** of legally motivated decisions in **less time**.

Implementation map:

Implemented in 20 provinces **throughout the territory of the ministry, the Central Organs** and in **20% of the Community of Madrid**.



*Data from March 2020 to November 2022.

5. SERVICES AROUND: INSTITUCIONAL SIGNAL



PROJECT CONTENT



- **Institutional signal** (broadcasting the audiovisual signal of a court hearing to the press).



- **Implementation in 22 judicial offices** (one per province).



- **The project is divided into three separate blocks:**

- **Signal acquisition** (courtroom).
- **Signal realization** (on site / remote).
- **Signal distribution** (press room).



- **In this project we have taken into account the mobility** of the different elements seeking the greatest adaptability to the headquarters.

5. SERVICES AROUND: INSTITUCIONAL SIGNAL - KEY EQUIPMENT

Courtroom facilities

Cameras PTZ NDI



Conference system



Monitor 10" NDI



Cutting button
Indicator light



Videoconference



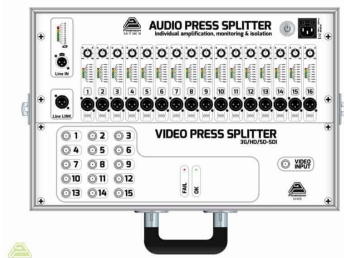
Realization rooms

Mini Tricaster



Press Room

Rack o press kit



Display LED 55"





Thank you for your attention



GOBIERNO
DE ESPAÑA

MINISTERIO
DE JUSTICIA

DIRECCIÓN GENERAL DE
TRANSFORMACIÓN DIGITAL
DE LA ADMINISTRACIÓN DE JUSTICIA

