



# Judicial acts with audiovisual support

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

November 15th, 2022

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- 02 Software system
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## 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

Functions  
eFidelius

Monitoring the act

Consultation of acts and  
getting copies digitally signed

COURTROOM  
ENVIRONMENT

&

WEB  
ENVIRONMENT

## SAMPLE SCREEN: PREPARATION OF THE ACT

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

48. JDO. VIOLENCIA MUJER 02 de octubre de 2017 11:18  
48 - JDO. VIOLENCIA SOBRE LA MUJER II - CN Javier Garcia

PROCEDIMIENTOS  
BUSCAR  
000000-2016 nuevo procedimiento borrar

ACTUACIONES  
Actuación Fecha  
COM - COMPARECENCIA 24/06/2016 8:34:03  
PRESENCIA ANTE EL JUZG 24/06/2016 12:13:03  
nueva actuación borrar

PROCEDIMIENTO: 000000-2016  
COMENTARIO DEL PROCEDIMIENTO:  
APO - ASESORAMIENTO DE PRUEBA ANTES DE LA DEMANDA

ACTUACIÓN: COM - COMPARECENCIA  
LETRADO: ABOG. JUSTICIA  
LMO:  
JUEZ: SANTIAGO TITULAR

SALA:  
FECHA:  
HORA: INI HORA: FIN  
NO DIRIGIR

INTERVINIENTE

DNI	Nombre	Rol	Fijo
123456782	SANTIAGO CUENCA DEMANDANTE	AE - ADOPTANTE	<input checked="" type="checkbox"/>

COMENTARIO:  
añadir interviniente  
borrar interviniente  
representantes  
actualizar

Salir XTREAM

## SAMPLE SCREEN: RECORDING THE ACT

The screenshot displays the EFIDELIUS software interface for recording a legal act. The interface is divided into several sections:

- Header:** Features the EFIDELIUS logo, the European Union flag, and text indicating the project is funded by the European Union (UNIÓN EUROPEA, PROYECTO FINANCIADO POR EL FONDO EUROPEO DE DESARROLLO REGIONAL (FEDER)).
- Navigation and Status:** Shows the current act as "4.8. JDO. VIOLENCIA DE MUJER" and "4.8 - JDO. VIOLENCIA SOBRE LA MUJER [1 - CIV]". The date and time are "20 de julio de 2017 10:21". The user is identified as "Super Administrador".
- Video Feed:** A live video stream showing a courtroom setting with a judge's bench and a potted plant.
- Act Details:**
  - PROCEDIMIENTO:** 0000017-2017
  - JVB - JUICIO VERBAL**
  - ACTUACIÓN:** CON - CONCILIACION
  - LETRADO ADRÓN. JUSTICIA:** JAVIER GARCIA ALVAREZ
  - JUZG:** PIZARRO ALBUJAR, OLGA NOELIA
- Comments and Interventions:**
  - COMENTARIOS DEL PROCEDIMIENTO:** Prueba Certificado digital
  - COMENTARIOS DE LA ACTUACIÓN:** (Empty text area)
  - INTERVIENE:** Includes a "MINUTADO" section with checkboxes for "Intervenciones" and "Comentarios".
- Control Panel:** Features a "PARADO" button, a timer set to "00:00:00", system status (UPS 0%, Libre 534h 3...), and a "Selección actuación" table.
- Table of Pending Acts:**

ACTUACIONES PENDIENTES	
CON - CONCILIACION	20/07/2017 11:00:00
- Bottom Controls:** Includes buttons for "abrir actuación", "Salir", "Gestión Interv.", "Aplazar act.", "Finalizar act.", "Insertar comentario", "Editar", "Borrar", and "No difundir".

### SAMPLE SCREEN: MONITORING THE ACT

The screenshot displays the EFIDELIUS monitoring software interface. On the left is a vertical navigation menu with the following items: "Selección de Equipo" (highlighted with a red box and containing a dropdown menu with "PRUEBAS" selected), "Monitorizar", "Desconectar", "Añadir Monitor", "Eliminar", "Monitorización técnica", and "Salir".

The main area contains two monitoring panels:

- Left Panel:**
  - Juzgado: JUZGADO DE PRIMERA INSTANCIA E INSTRUCCION Nº1 - XTREAM
  - Sala: SISTEMA AUTÓNOMO DEMOS
  - Descripción: DILIGENCIAS FINALES
  - Visuals: A large black video feed area with "Reproduciendo" text below it. To the right are three pie charts showing resource usage: UPS: 0%, DISCO: 24%, CPU: 27%.
  - Controls: "Tipo de Evento" dropdown set to "Alarmas/Logs" and "Nivel de Traza" dropdown set to "Bajo".
  - Table: A table with columns "Fecha", "Tipo", "Nivel", "Mensaje", and "Módulo".
- Right Panel:**
  - Juzgado: JUZGADO DE PRIMERA INSTANCIA E INSTRUCCION Nº2 - XTREAM
  - Sala: SISTEMA AUTÓNOMO DE PRUEBAS
  - Descripción: CAREO
  - Visuals: A large blue video feed area with "Reproduciendo" text below it. To the right are three pie charts showing resource usage: UPS: 0%, DISCO: 9%, CPU: 12%.
  - Controls: "Tipo de Evento" dropdown set to "Alarmas/Logs" and "Nivel de Traza" dropdown set to "Bajo".
  - Table: A table with columns "Fecha", "Tipo", "Nivel", "Mensaje", and "Módulo".

## SAMPLE SCREEN: SIGNING MINUTES

The screenshot displays the EFIDELIUS software interface. At the top, it shows 'SISTEMA CENTRAL' and the 'efidelius' logo. The user is logged in as 'JAVIER GARCIA ALVAREZ' on '03 de agosto de 2017' at '12:13'. The interface is divided into several sections:

- Left Sidebar:** Contains navigation buttons for 'Firmas pendientes', 'Buzón de mensajes', 'Gestión Copias', and 'Salir'.
- Top Section:** Displays the current case: '48 - JDO. VIOLENCIA DE MUJER' and '48 - JDO. VIOLENCIA SOBRE LA MUJER [1 - CIVIL]'. It also shows the user's name and a small profile picture.
- Central Section:** Titled '- BUZÓN DE FIRMAS PENDIENTES -', it contains a table of pending signatures and a 'FIRMAS PENDIENTES' table.
- Bottom Section:** Includes a 'PROCEDIMIENTO' summary, a video player with a '00:00:00' timer, and a 'COMENTARIOS' section.

**Table: - BUZÓN DE FIRMAS PENDIENTES -**

NP Proc.	Tipo procedimiento	Tipo actuación	Fecha	Estado
0002000-2017	ORD - PROCEDIM	ICP - INCAPAC	30/07/2017 13:36:10	capturada
0002000-2017	ORD - PROCEDIM	COM - COMPA	20/07/2017 13:49:33	capturada
0002000-2017	JVA - JUICIO VERE	JFA - JUICIO E	31/07/2017 11:57:31	capturada
0002000-2017	JVA - JUICIO VERE	COM - COMPA	24/07/2017 08:56:44	capturada
0000347-2016	DCT - DIVORCIO	COM - COMPA	24/07/2017 08:30:28	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

**Table: FIRMAS PENDIENTES**

Estado	Requerimiento Firma	Firmar
	Firma Requerida	

**PROCEDIMIENTO**  
0002000-2017  
ORD - PROCEDIMIENTO ORDINARIO  
**ACTUACION**  
COM - COMPARECENCIA  
20/07/2017 13:49:33 -  
**JUEZ**  
PIZARRO ALBUJAR, OLGA NOEL  
LETRADO ADMÓN. JUSTICIA  
JAVIER GARCIA ALVAREZ  
**COMENTARIOS**

**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

**Acceso Agenda Judicial**

SALA: [input field]

FECHA: [input field]

HORA INI: [input field] HORA FIN: [input field]

NO DIFUNDIR:

para volver al día actual

XXXXXXXXXX Identificación de Sala

17 jul 2017 - 23 jul 2017

	lunes 17 jul 2017	martes 18 jul 2017	miércoles 19 jul 2017	jueves 20 jul 2017	viernes 21 jul 2017	sábado 22 jul 2017	domingo 23 jul 2017
08:00							
09:00							
10:00							
11:00				11:30 - 12:45 XXXXXXXXXX 2017 CON			
12:00				12:30 - 12:45 XXXXXXXXXX 2017 JAL			
13:00				13:10 - 14:00			
14:00							
15:00							

Botones para la selección de la semana del calendario para realizar los señalamientos

Muestra las actuaciones señaladas. En rojo la selección actual y en azul las señaladas previamente

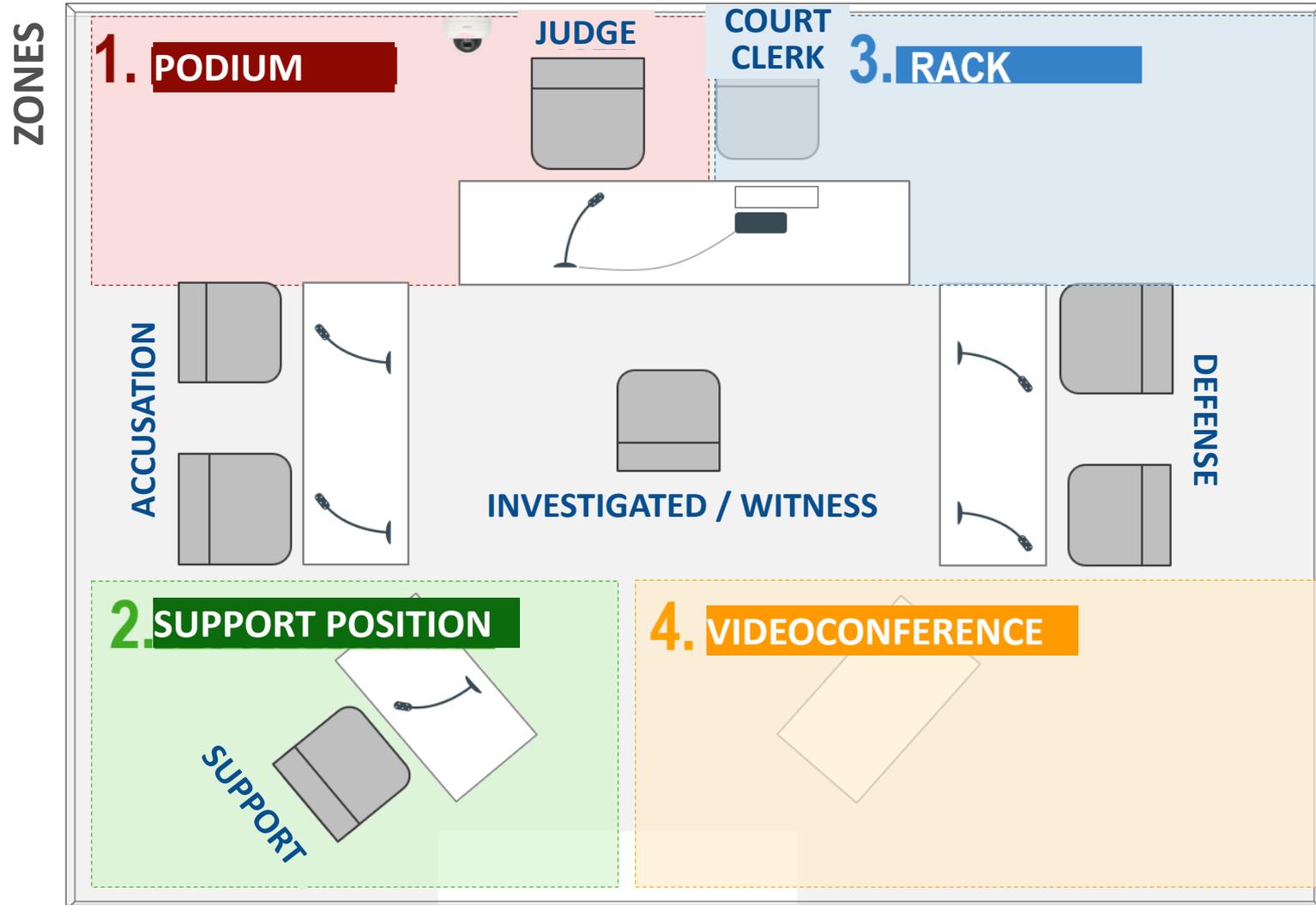
Indica si la actuación está firmada o no.

Muestra al icono si ha sido ya grabada

SELECCIÓN ACTUAL: SALA: 02035AA815, HORA INI: 28/07/2017 13:15, HORA FIN: 28/07/2017 14:00

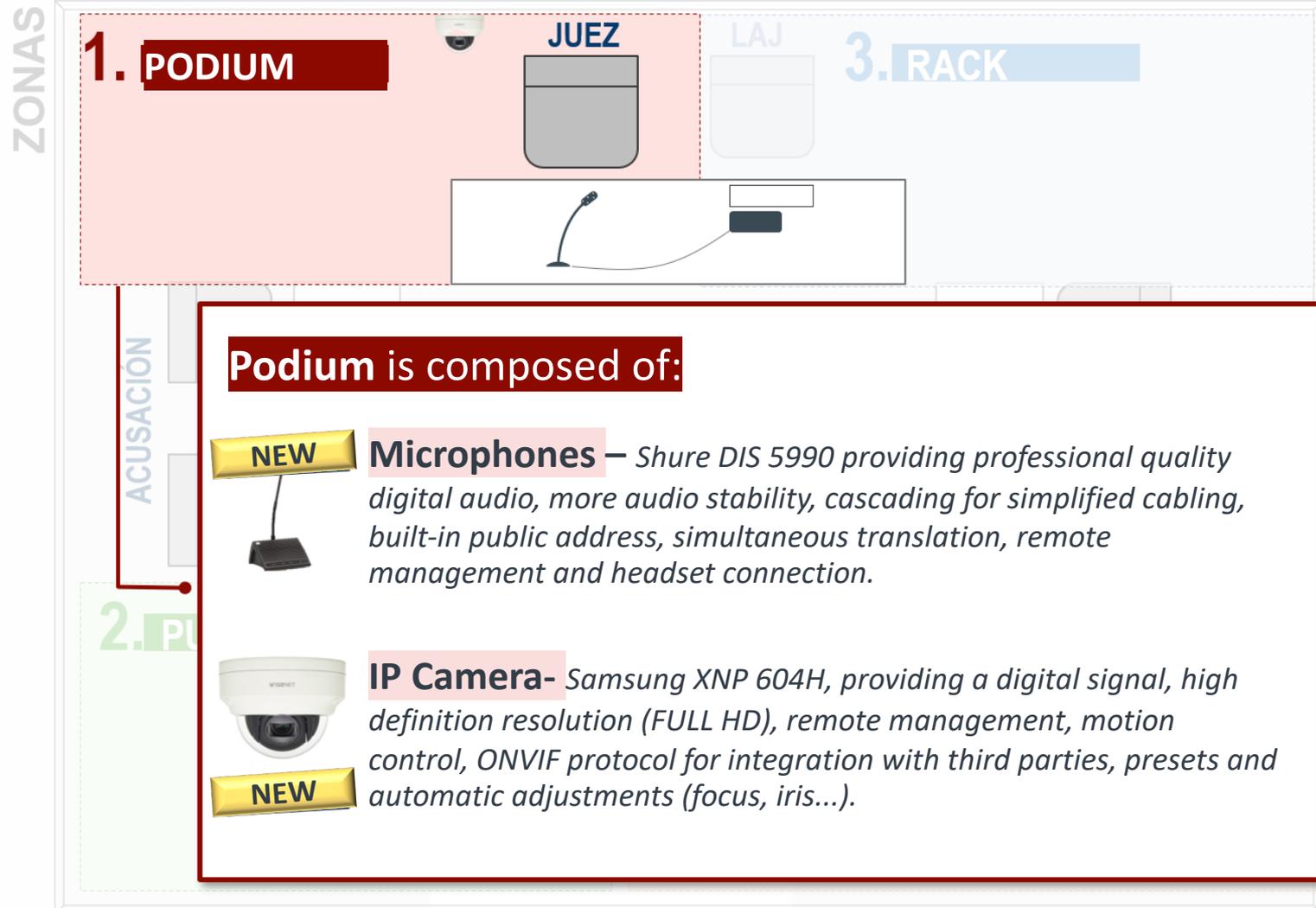
# 3. HARDWARE SYSTEM: ROOM LAYOUT

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



# 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

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**  
NEW

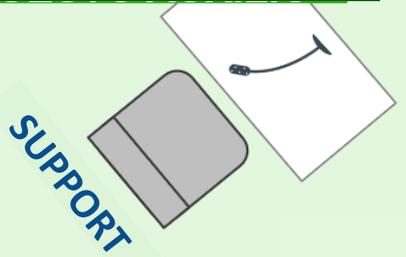


**Duplicator VGA**



**Mini PC**

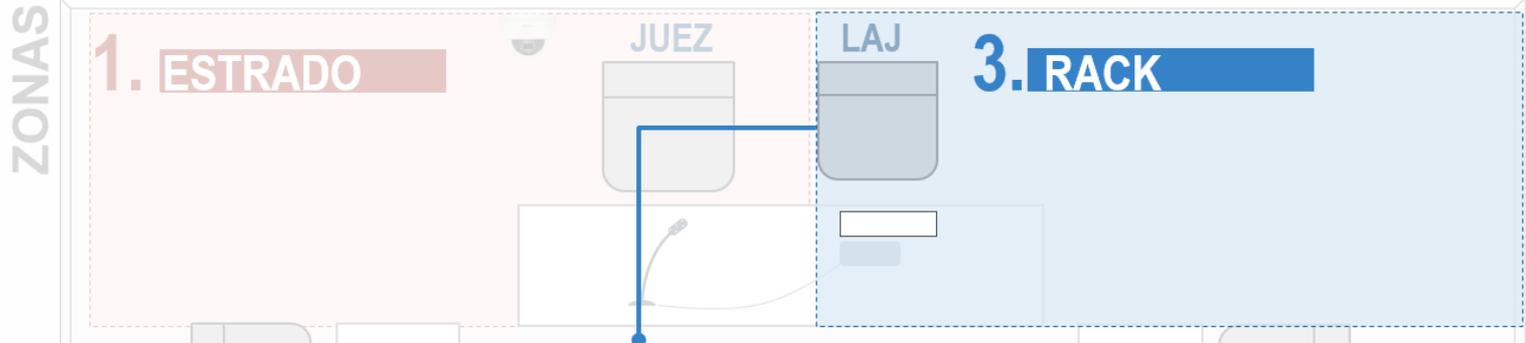
**2. SUPPORT POSITION**



**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.



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



**Audio mixer**



**Network Card**



**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.

# 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**

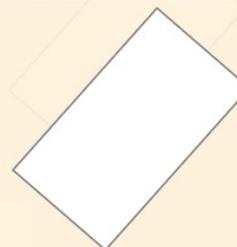


**Projector**

**2. PUESTO AUXILIO**



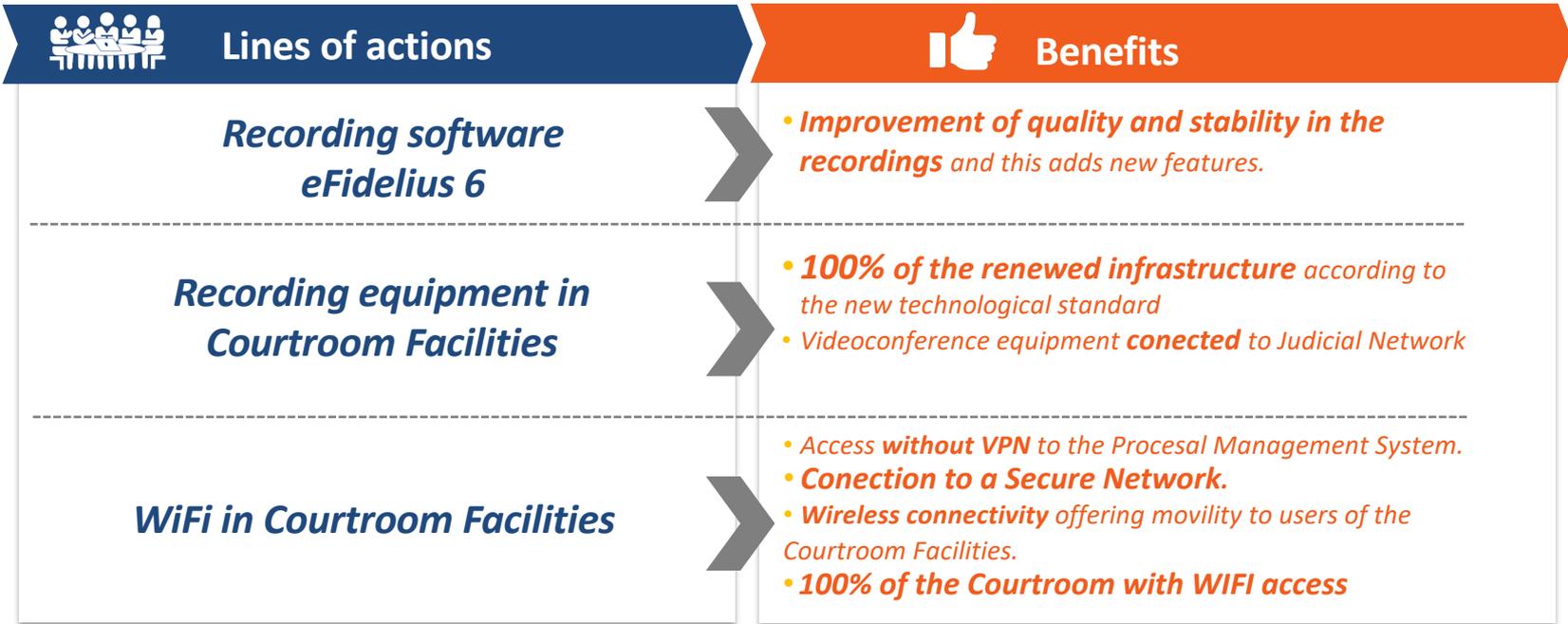
**4. VIDEOCONFERENCE**



# 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.





**Has allowed new features :**

- ✓ Direct streaming transimition
- ✓ 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

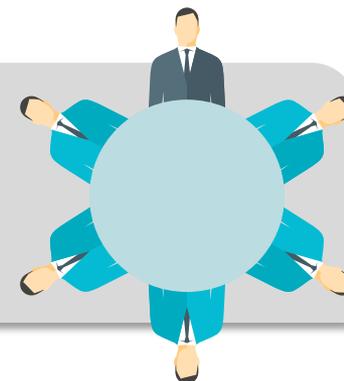


FIXED  
VIDEOCONFERENCING  
SYSTEM

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.



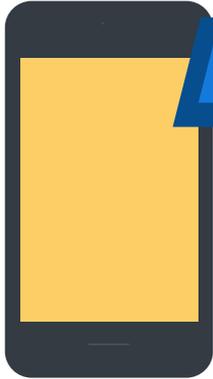
### The recording equipment ...



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.



You have been invited to the videoconference at Chamber xxxxxxxxxxxx



To connect to the meeting you have the following options:

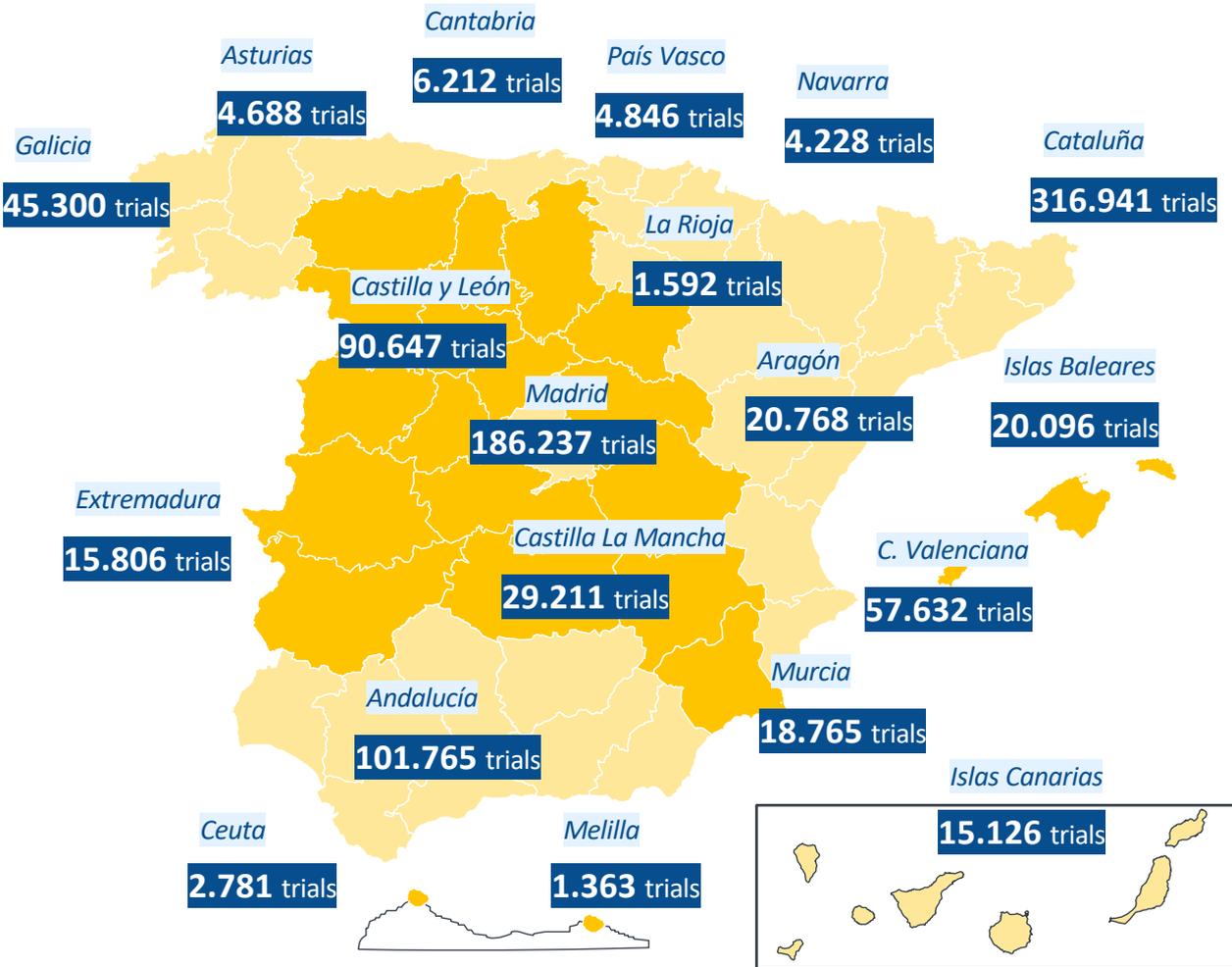
- 1** If you have a Mobile Video Conferencing user, log in and click on meet and enter xxxxxx if you have been given a pin, enter it and click on connect to the meeting
- 2** If you are making the call from an internal video conferencing machine, dial xxxxx, and if you have been given pin, enter it and #
- 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**.

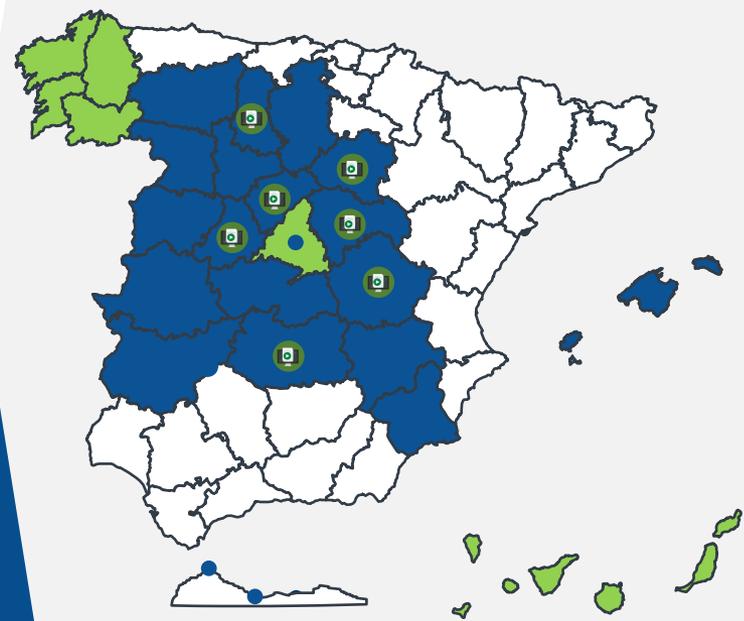
✓ **Improves productivity**, saves an estimated **60% of the time** it takes users to locate a specific extract of a recording and perform the analysis of the views held.

✓ **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.



### 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



Videoconference



Monitor 10" NDI



Cutting button Indicator light



## Realization rooms

Mini Tricaster



Display LED 55"



## Press Room

Rack o press kit





# Thank you for your attention



GOBIERNO  
DE ESPAÑA

MINISTERIO  
DE JUSTICIA

DIRECCIÓN GENERAL DE  
TRANSFORMACIÓN DIGITAL  
DE LA ADMINISTRACIÓN DE JUSTICIA

