Judicial acts with audiovisual support

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

November 15th, 2022

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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 wos 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 Xtream, 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.

Functions eFidelius

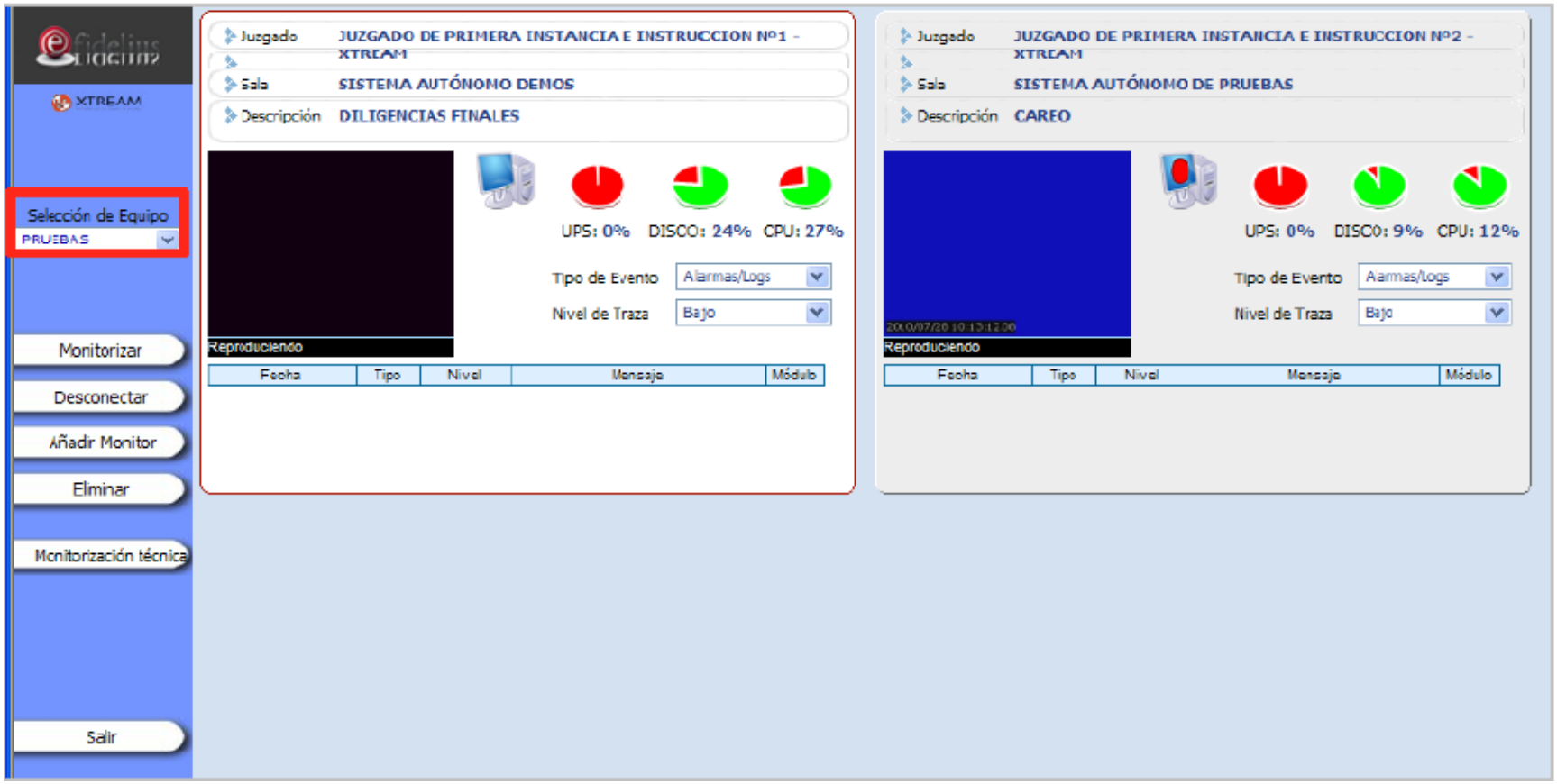
- Preparation of the judicial act
- Recording the act
- Monitoring the act
- Consultation of acts and getting copyes digitally signed

COURTROOM ENVIRONMENT & **WEB ENVIRONMENT**

SAMPLE SCREEN: PREPARATION OF THE ACT

SAMPLE SCREEN: RECORDING THE ACT

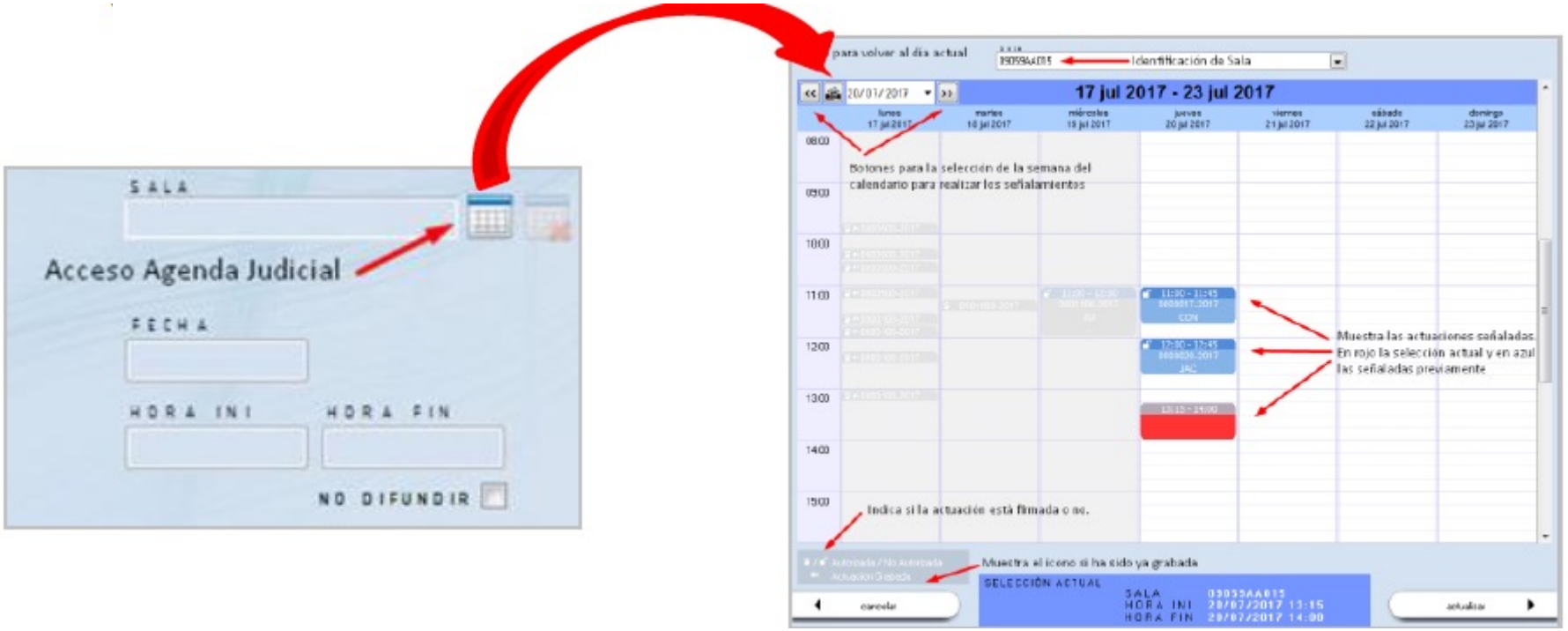
SAMPLE SCREEN: MONITORING THE ACT



SAMPLE SCREEN: SIGNING MINUTES

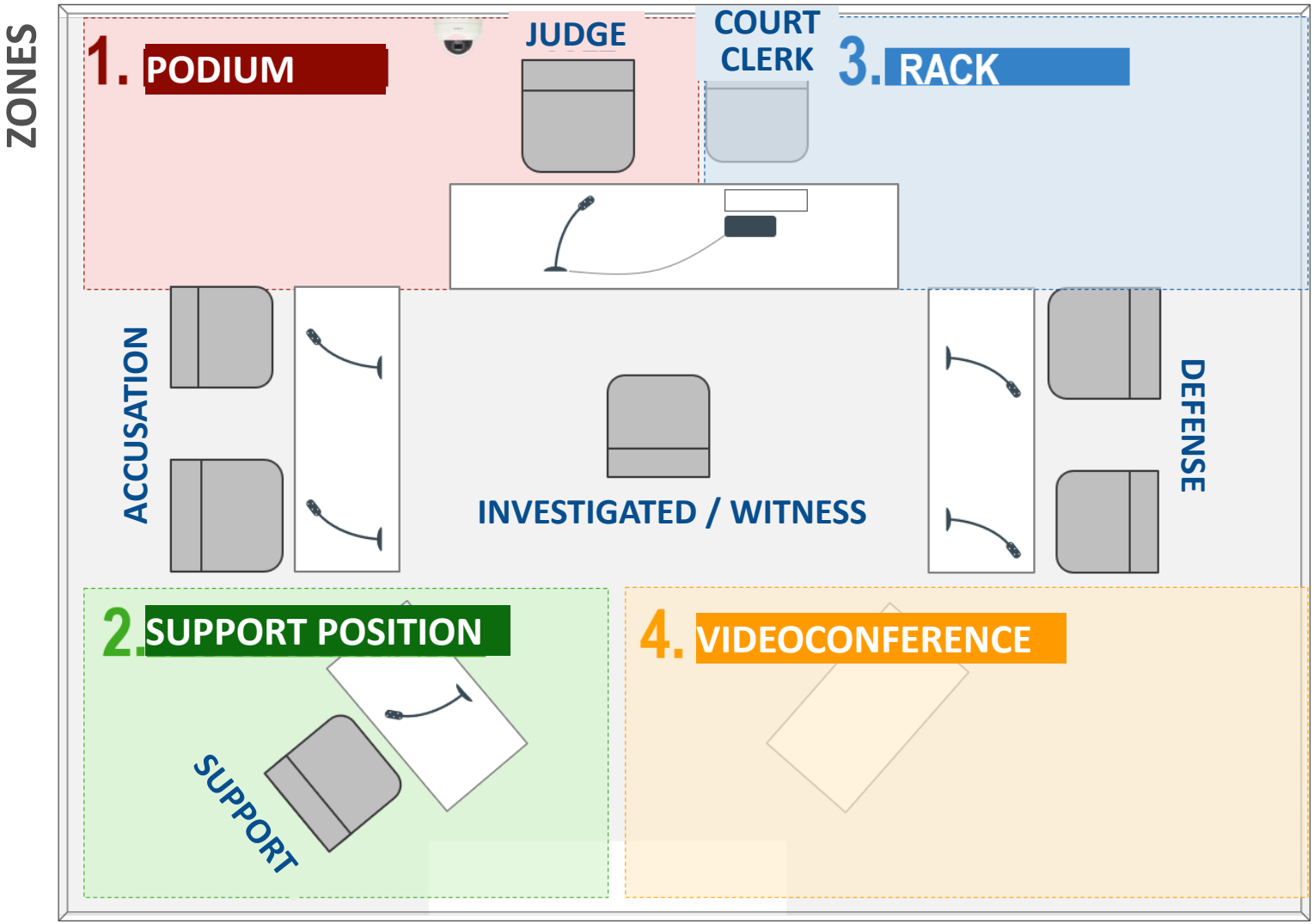
2. SOFTWARE SYSTEM: EFIDELIUS

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



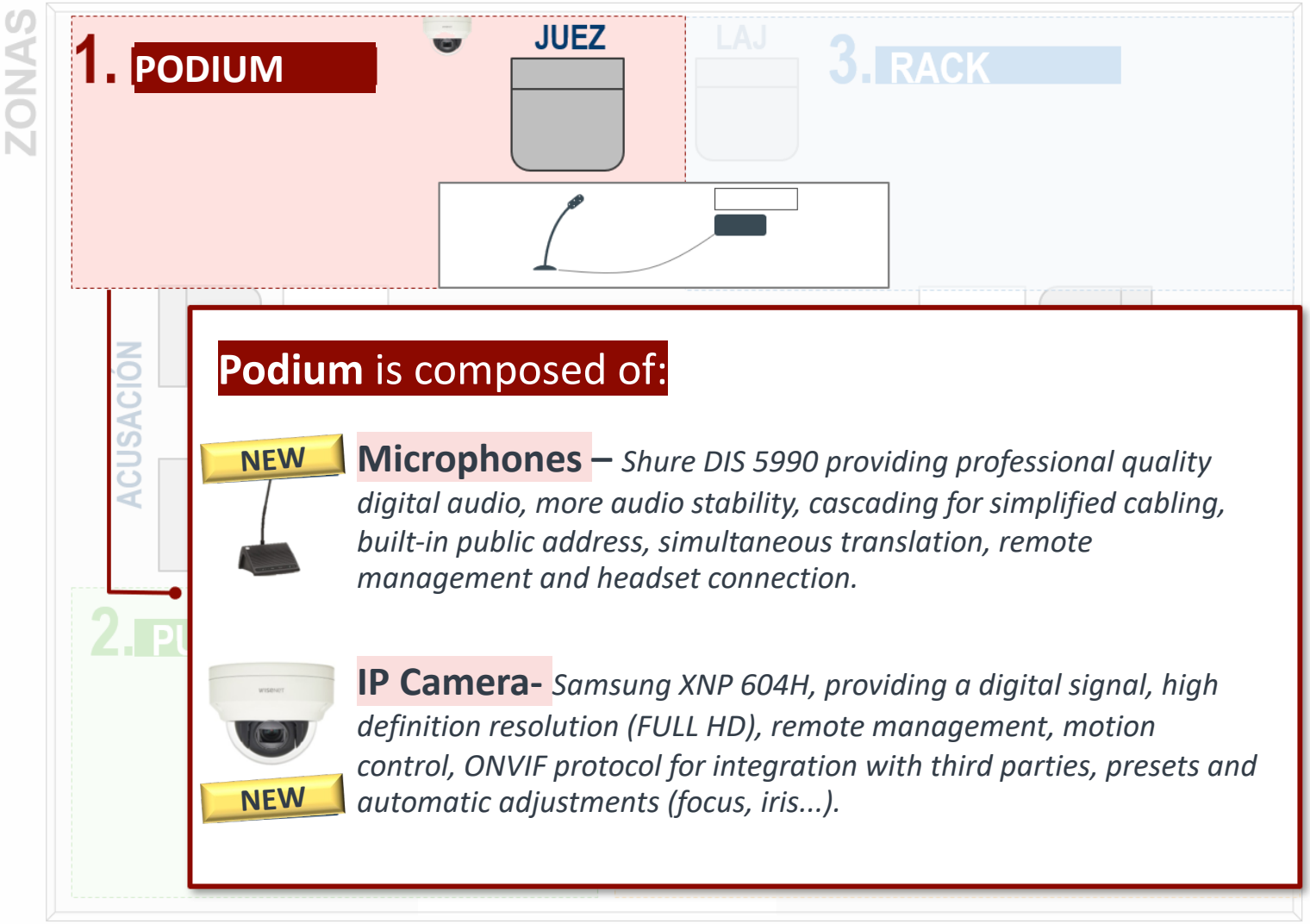
3. HARDWARE SYSTEM: ROOM LAYOUT

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



Podium is composed of:

NEW

Microphones – *Shure DIS 5990 providing professional quality digital audio, more audio stability, cascading for simplified cabling, built-in public address, simultaneous translation, remote management and headset connection.*

NEW

IP Camera- *Samsung XNP 604H, providing a digital signal, high definition resolution (FULL HD), remote management, motion control, ONVIF protocol for integration with third parties, presets and automatic adjustments (focus, iris...).*

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:

NEW

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

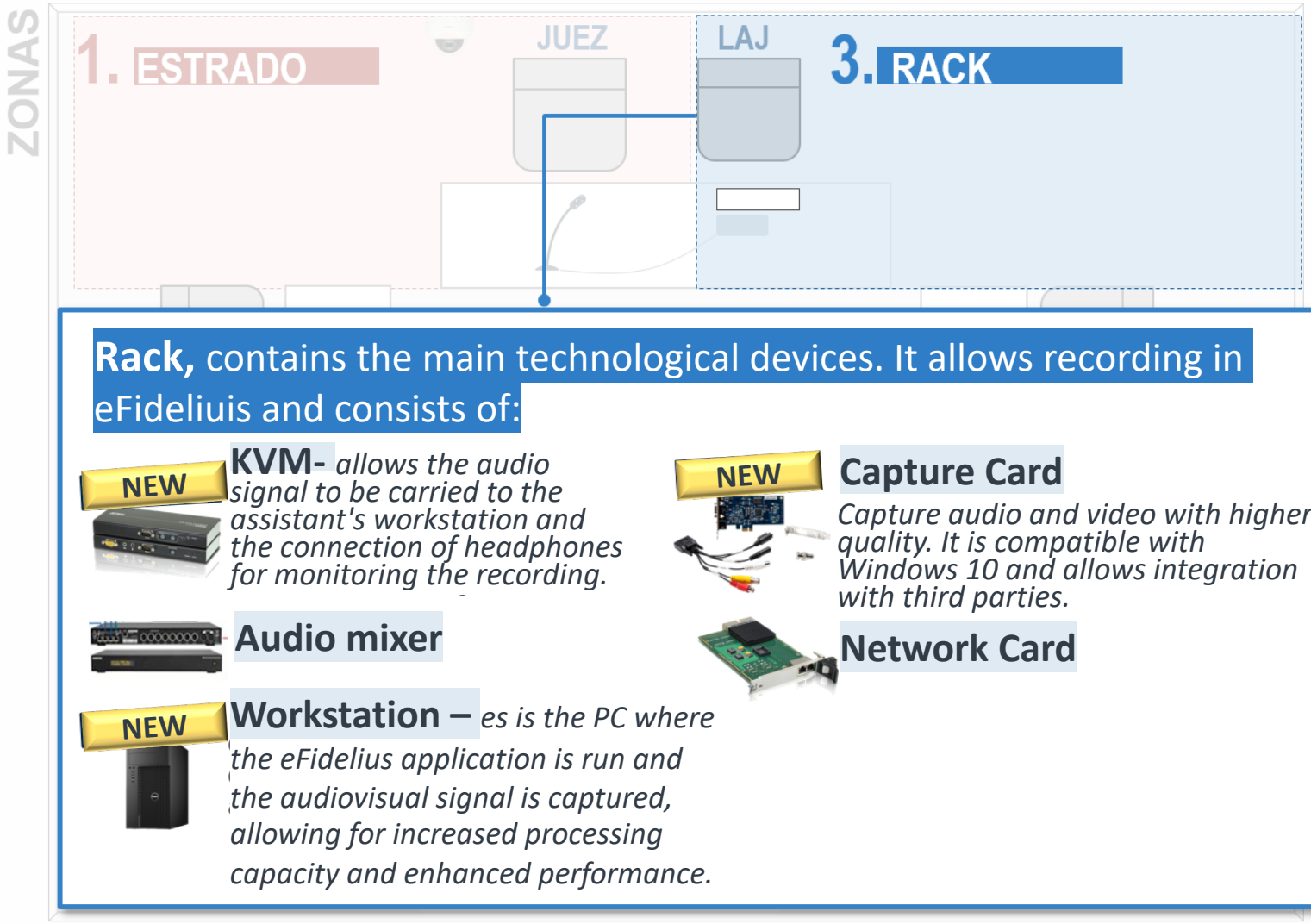
Mini PC

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:

NEW

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

Audio mixer

NEW

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

NEW

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

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 soung 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	• ***Improvement of quality and stability in the recordings*** *and this adds new features.*
Recording equipment in Courtroom Facilities	• ***100% of the renewed infrastructure*** *according to the new technological standard* • *Videoconference equipment* ***conected*** *to Judicial Network*
WiFi in Courtroom Facilities	• *Access* ***without VPN*** *to the Procesal Management System.* • ***Conection to a Secure Network.*** • ***Wireless connectivity*** *offering movility to users of the Courtroom Facilities.* • ***100% of the Courtroom with WIFI access***

Has allowed new features :

- ✓ *Direct streaming transmition*
- ✓ *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

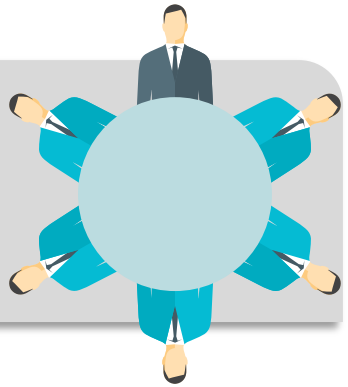
This technological solution has as its main objective ***to be able to carry out actions by videoconference and other means, with full legal validity, without the need to act in person****, all related to teleworking systems, fundamental to improve the efficiency of the Administration and the conciliation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

4. COVID – 19: TECHNOLOGICAL TOOLS

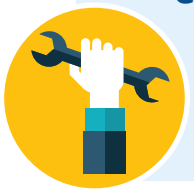
ADD NEW TECHNOLOGICAL TOOLS

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 xxxxxxxxxx

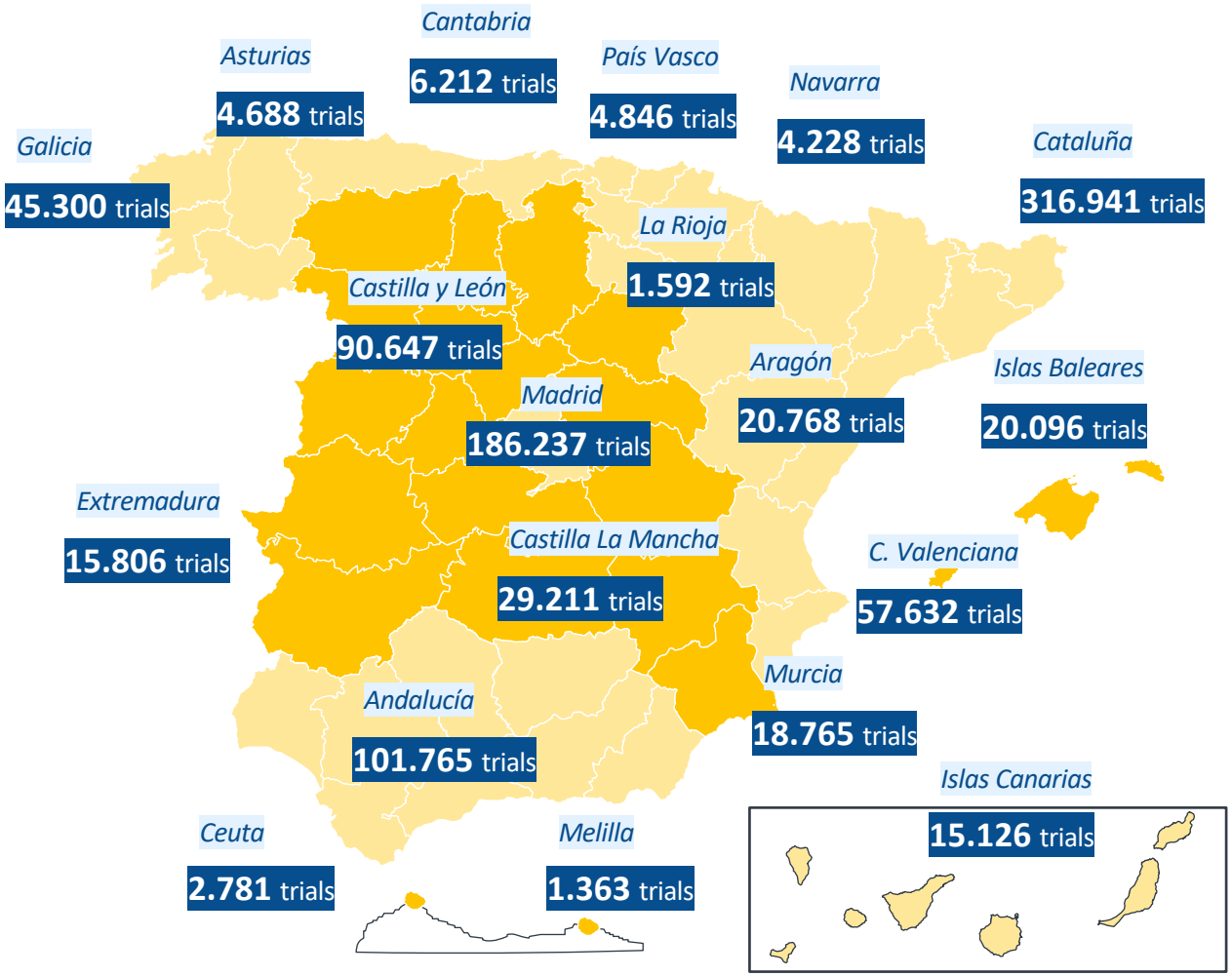
To connect to the meeting you have the following options:

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 xxxxxxx@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)

Provinding:

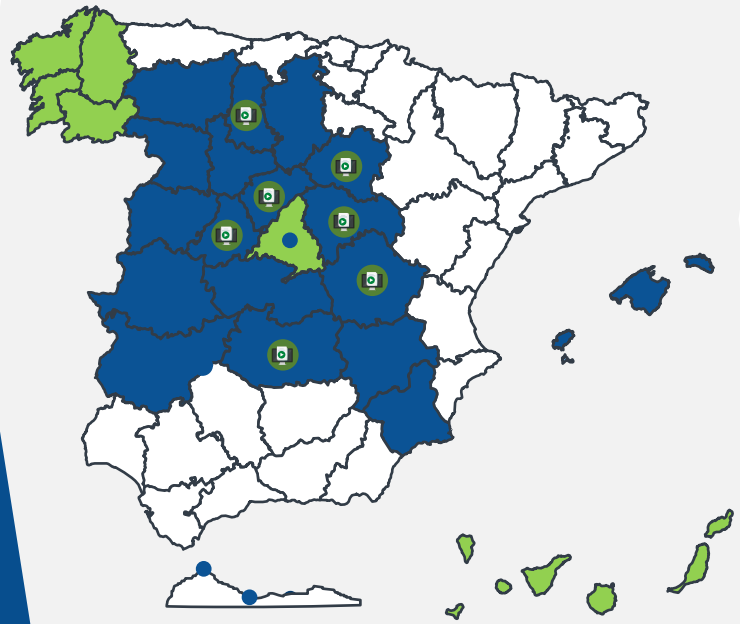
A significant **saving of time** when searching for content of the views, so far **149 thousand hours** have been saved, which is equivalent to **90 officials.**

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 analisis 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

Press Room

Rack o press kit

Display LED 55”

6. REQUESTS AND QUESTIONS

Thank you for your attention

GOBIERNO DE ESPAÑA
MINISTERIO DE JUSTICIA
DIRECCIÓN GENERAL DE TRANSFORMACIÓN DIGITAL DE LA ADMINISTRACIÓN DE JUSTICIA
AGENDA 2030