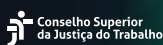




THE JUSTICE 4.0 PROGRAM

Explore the initiative that is transforming
Brazil's Judiciary through digital innovation and
making justice more accessible to everyone

WITH SUPPORT FROM



PRODUCED BY





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JUSTICE EVOLVED: FASTER, FAIRER ACCESS FOR ALL



**Chief Justice
Luís Roberto
Barroso**

*President of
the Federal
Supreme
Court and
the National
Council
of Justice*

Embracing the recent surge in technological advancements, the Brazilian court system is solidifying its position as a global leader in pioneering legal innovation. With a remarkable 99% of new cases processed electronically, we have become a frontrunner in computerized justice on the global stage.

The cornerstone of this revolution is the Justice 4.0 Program. This initiative heads the development of cutting-edge solutions for a faster, more efficient, and accessible court system for everyone. Its success rests on two pillars that work in tandem to revolutionize the court system: The Justice 4.0 Program Codex, the first pillar, is a central hub for all legal cases and national case law built through collaboration with courts nationwide. The second pillar, the Digital Platform of the Judiciary (PDPJ-Br, the acronym in Portuguese), seamlessly integrates the systems of all judicial bodies, creating a unified network.

These advancements paved the way for the launch of the Judiciary's Single Service Portal. This online environment is a one-stop platform, accessible from anywhere. Users can

check case progress, file complaints, receive court communications, and access a vast array of services – all from their device and connected to any integrated court.

The impact of Justice 4.0 extends beyond this single portal. A comprehensive set of initiatives strategically addresses the challenges of decentralized computerization. This ensures seamless communication across the entire court system, leading to a more streamlined legal process for everyone.

Justice 4.0 is a transformative journey ushering in a new era of transparency. It means broader access and, most importantly, it drives substantially faster service, ensuring a more efficient court system for all. This significant milestone reflects our unwavering commitment to providing exceptional service to Brazilian society.



**Claudio
Providas**

*UNDP Resident
Representative
in Brazil*

DEAR READERS

Since 2020, the United Nations Development Programme (UNDP) and the National Council of Justice (CNJ) have partnered on the Justice 4.0 Program to modernize Brazil's court system. This program uses various tools, including electronic solutions, strategic planning, collaboration initiatives, and structural reforms, to achieve a swifter, more transparent, and ultimately more effective justice system. Its core objective is to guarantee rights, reduce discrimination, and promote equality for all.

In its fourth year of implementation, Justice 4.0 focused on consolidating existing tools, improving databases for real-time information exchange, and establishing a unified service portal accessible to the public. These actions benefit both citizens and the Brazilian court system, encompassing justice councils, higher courts, and mediating bodies that ensure broad access to justice.

Automation of procedures through technology allows judicial staff to dedicate their expertise to critical analysis. Additionally, it minimizes potential errors and strengthens the system's ability to handle new cases, promoting broader access without leaving anyone behind. Data

processing and standardization also provide valuable insights into areas requiring more frequent judicial intervention, enhancing transparency and evidence-based policy making.

The UNDP and CNJ's partnership emphasizes internalizing these tools and methodologies by staff and institutions. This sustainability strategy includes knowledge management, technology training, and continuous initiatives for sharing best practices.

A more effective court system benefits everyone, contributing to democratic governance and poverty reduction. In a vast and diverse country such as Brazil, standardized procedures and faster proceedings, facilitated by this initiative, serve as catalysts for equality and citizenship.

Digital public infrastructure is increasingly recognized as the most promising platform for regaining public trust, ensuring government legitimacy, providing efficient and transparent services, and facilitating financial inclusion. Institutional efficiency and assertiveness are fundamental for sustainable development and a strong democracy.

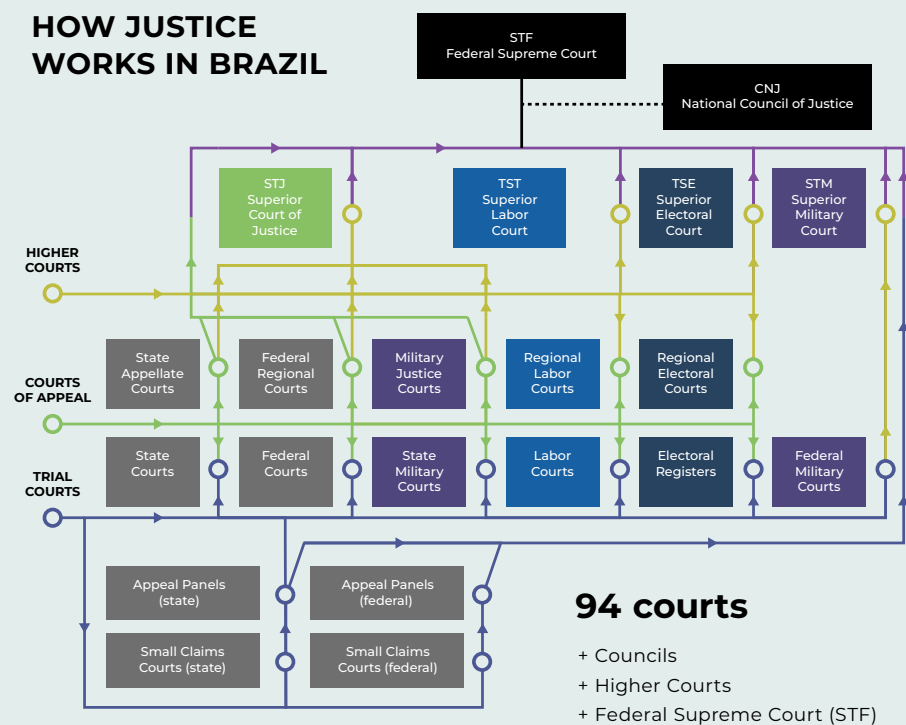
The UNDP remains committed to supporting critical human development issues, such as this cooperation.

Enjoy reading!



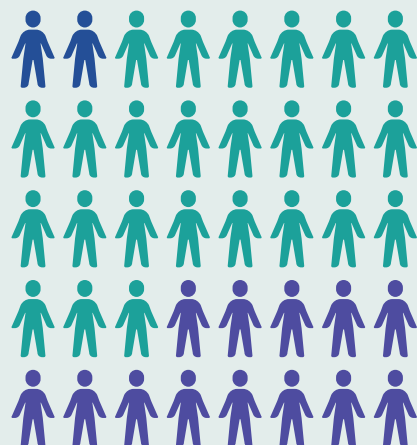
BRAZIL'S COURT SYSTEM

HOW JUSTICE WORKS IN BRAZIL





94 courts

- + Councils
- + Higher Courts
- + Federal Supreme Court (STF)



18 thousand
Judges

 275 thousand
Civil Officers

 152 thousand
Support staff

BRAZIL STANDS OUT AS A GLOBAL LEADER IN THE NUMBER OF LAWSUITS FILED ANNUALLY

Caseload in 2023

83.8 million

35.3 million

NEW CASES

35 million

**CASES
CLOSED**

PENDING CASES



Brazilian courts manage some of the heaviest caseloads globally



7,210
cases per judge

Judges per 100,000
inhabitants:



BRAZIL

C



EUROPE

18

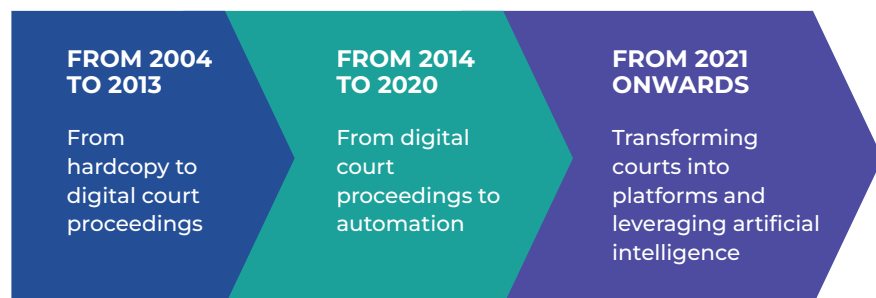
Source: CNJ,
Justice in Numbers (2024).
Note: 2023 data.



**VIEW THE
JUSTICE
IN NUMBERS
REPORT**



VIEW THE JUSTICE IN NUMBERS DASHBOARD



EVOLUTION OF E-JUSTICE IN BRAZIL

2004 – 2013

FROM HARDCOPY TO DIGITAL COURT PROCEEDINGS

- Going Digital. Electronic court proceedings in Brazil began in 2004 with the development of procedural monitoring systems and the conversion of the traditional paper-based court system to digital formats.
- 2006: Legal Framework Established. In December, the Law on the Digitalization of Judicial Proceedings (Law No. 11,419) is enacted, giving a significant boost to the digitalization of the Brazilian court system.
- 2013: The PJe Takes Center Stage. The Digital Court Proceedings (in Portuguese, PJe) system is adopted as the national court proceedings standard. Two years later, in 2015, the PJe Governance Network is established. However, despite this progress, the challenge of harmonizing multiple systems in different courts remains.

UNIFIED JUDICIARY, FRAGMENTED SYSTEMS

Prior to the establishment of the PJe as the national standard, individual courts developed their own procedural systems. This intended single system evolved into a complex landscape of derivative systems with local variations. These inconsistencies led to a situation where the PJe implemented in different courts diverged from the national version, hindering communication and data exchange between them.

2014 – 2020

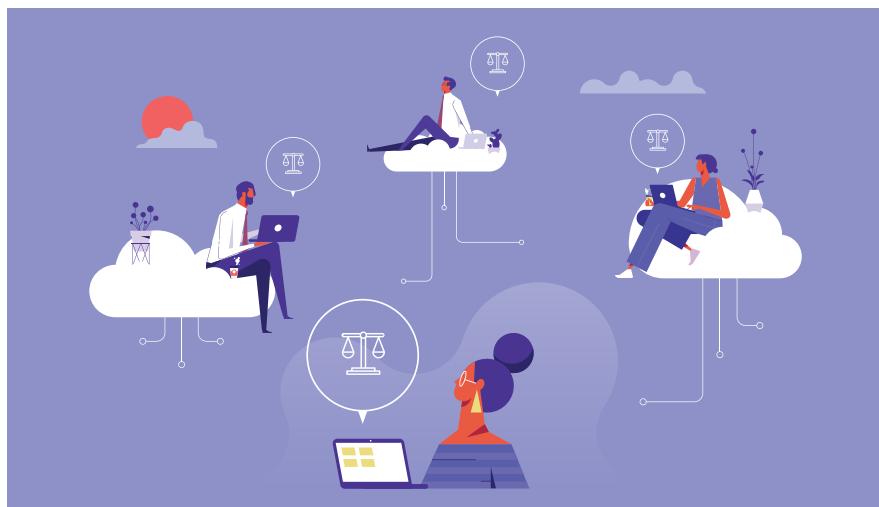
FROM DIGITAL COURT PROCEEDINGS TO AUTOMATION

- Automation Transforms Court Proceedings. The adoption of e-proceedings has sparked a significant transformation in daily court operations. Automation empowers a review of routines, workflows, and work practices. By eliminating repetitive tasks, it fosters quality improvements in managing procedural processing times.
- Software Streamlines Procedural Workflows. Human labor in bureaucratic tasks is replaced by technological resources through the growing use of software to automate procedures. This leads to a better management of both time and human resources and allows public officials to focus on activities that require a higher level of cognitive effort.

**2021
ONWARDS**
**TRANSFORMING COURTS INTO
PLATFORMS AND LEVERAGING
ARTIFICIAL INTELLIGENCE**

Digital transformation is more than just migrating paper-based proceedings to an electronic format. Recognizing this fact, the Justice 4.0 program, launched in January 2021, charts the course for the next generation of digital justice. Some of its key objectives are to:

- Provide citizens with a wider range of service channels.
- Connect court systems on a single, unified platform.
- Encourage innovation and solutions that leverage automation and AI, including machine learning, to improve court operations.
- Enable a strategic approach to data and information management.


**PANDEMIC PROPELS
BRAZIL'S DIGITAL COURTS**

Since 2020, the Brazilian Judiciary has demonstrated a remarkable ability to adapt to the social distancing measures required by the COVID-19 pandemic. Proactive judicial policies, technological advancements, and innovative court practices have empowered citizens to access legal services remotely.

- Virtual Desk. Citizens can now utilize digital channels for a variety of court services.
- 100% Digital Courts. Trials and hearings are conducted electronically, saving time and eliminating the need for travel.
- Justice 4.0 Centers. These specialized thematic centers expand a magistrate's reach beyond their traditional geographical jurisdiction.

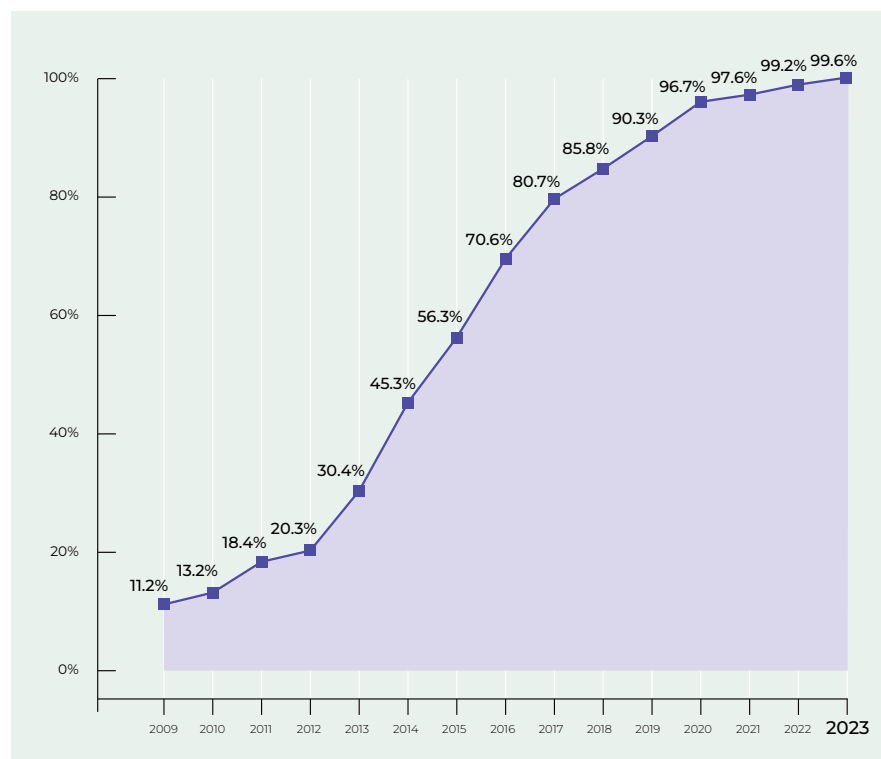
A decade of digital transformation in Brazil's courts has made physical proceedings the exception. This shift reflects a twin-track strategy pursued by the Judiciary: it proactively tackled the backlog by digitizing existing paper cases, and it significantly reduced the acceptance of new paper filings. By 2023, only 0.4% of new cases were still filed on paper.

PHYSICAL FILINGS PHASED OUT

Since March 2022, Brazilian courts have embraced a fully digital future, accepting all new cases mainly in electronic format. To further bolster this shift, the courts have a deadline of December 2025 to complete the digitization of all existing paper-based cases.

JUSTICE GOES DIGITAL: THE RISE OF ELECTRONIC COURT PROCEEDINGS

Evolution of e-proceedings in Brazil (from 2009 to 2023)



Source: CNJ, Justice in Numbers (2024).

Note: 2023 data



JUSTICE 4.0: A PARADIGM SHIFT

THE FOUR PILLARS OF THE JUSTICE 4.0 PROGRAM

PILLAR 1

Innovation and technology

Cutting-edge technological solutions to significantly enhance the services offered to citizens.

PILLAR 2

Data management

Improved database management allows for the formulation and implementation of evidence-based policies that strengthen human rights and promote data transparency within the Judiciary.

PILLAR 3

Preventing and combating corruption, money laundering and asset recovery

Leverages better data management and optimizing asset searches in databases.

PILLAR 4

Strengthening institutional capacities

Fosters knowledge transfer and solution development, focusing on legal certainty, project sustainability, and efficient judicial service delivery—at no additional cost to the courts. This includes extensive training for judicial staff, particularly those in information technology, to ensure consistency across the system.

INNOVATION AND TECHNOLOGY USHER IN A NEW ERA FOR BRAZILIAN COURTS

LEARN MORE
ABOUT THE
JUSTICE 4.0
PROGRAM



The Justice 4.0 program serves as a catalyst for digital transformation within the Brazilian Judiciary. By fostering the development and use of new technologies and AI, the initiative aims to guarantee more agile and effective services, ultimately simplifying access to justice for all.



DRIVERS

The Justice 4.0 Program is a collaborative initiative led by the National Council of Justice (CNJ) in partnership with the United Nations Development Programme (UNDP). It enjoys the strong support of key judicial institutions such as the Federal Justice Council (CJF), Superior Court of Justice (STJ), Superior Labor Court (TST), Superior Labor Justice Council (CSJT), and Superior Electoral Court (TSE).



REACH

The program's reach extends to all Brazilian courts, encompassing judicial councils and higher courts*.

* While not subject to the CNJ's direct authority, the Supreme Court can still benefit from the program's resources. The court has the option to use the Justice 4.0 Program's Digital Platform of the Judiciary (PDPJ-Br).



BENEFITS

Efficiency, speed, increased productivity, governance, transparency and collaboration between courts.



PARTNERING WITH ACADEMIA

Services, solutions and technologies are developed in cooperation with federal institutes, universities and research foundations.



TRAINING

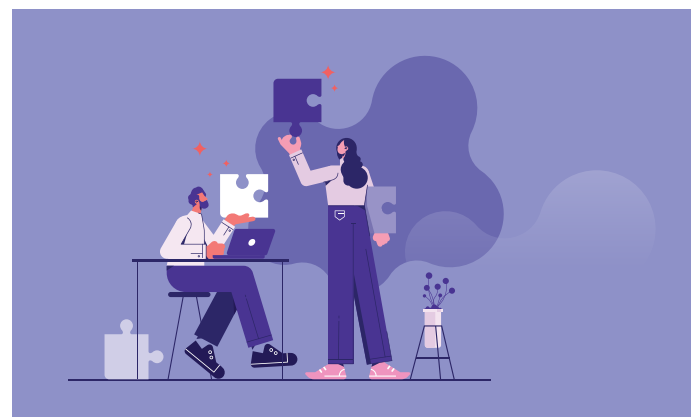
Justice 4.0 prioritizes knowledge transfer through training programs for civil officers, magistrates, and judges. This initiative is galvanized by the CNJ-UNDP technical cooperation and empowers the Judiciary with essential skills and strengthens its institutions.

VIEW
AVAILABLE
COURSE LISTING



STAGES OF THE JUSTICE 4.0 PROGRAM

STAGE 1: STRUCTURING (from 2021 to Mid-2023)	STAGE 2: CONSOLIDATING (Mid-2023 Onwards)
<ul style="list-style-type: none"> ■ Program Launch (January 2021): Justice 4.0 is officially introduced, garnering support from courts across Brazil. ■ Creation of the PDPJ-Br platform (August 2021): The Judiciary's digital platform is launched, providing the technological and policy foundation for the program. ■ Data Ecosystem & Infrastructure Design. ■ Framework for collaboration and sharing technological solutions is established. ■ Data sanitization process. 	<ul style="list-style-type: none"> ■ Enhancing the national judicial database (Codex) for Real-Time Functionality. ■ Launch of the Judiciary's Single Service Portal. ■ Scaling up the use of digital breakthroughs across all court systems. ■ Innovative Services, including automation of tax enforcement and streamlined management of Small Claims (RPV, the acronym in Portuguese) and IOUs.



THE DIGITAL PLATFORM OF THE JUDICIARY (PDPJ-BR): POWERING BRAZIL'S JUSTICE SYSTEM

What it does

The PDPJ-Br is a public policy that unifies the management of electronic judicial proceedings across all courts in Brazil, ensuring compatibility between different procedural systems.

This cloud-based platform will provide a central hub for the Judiciary's Single Service Portal, allowing users to access services from any court nationwide within a seamless environment.

Why it matters

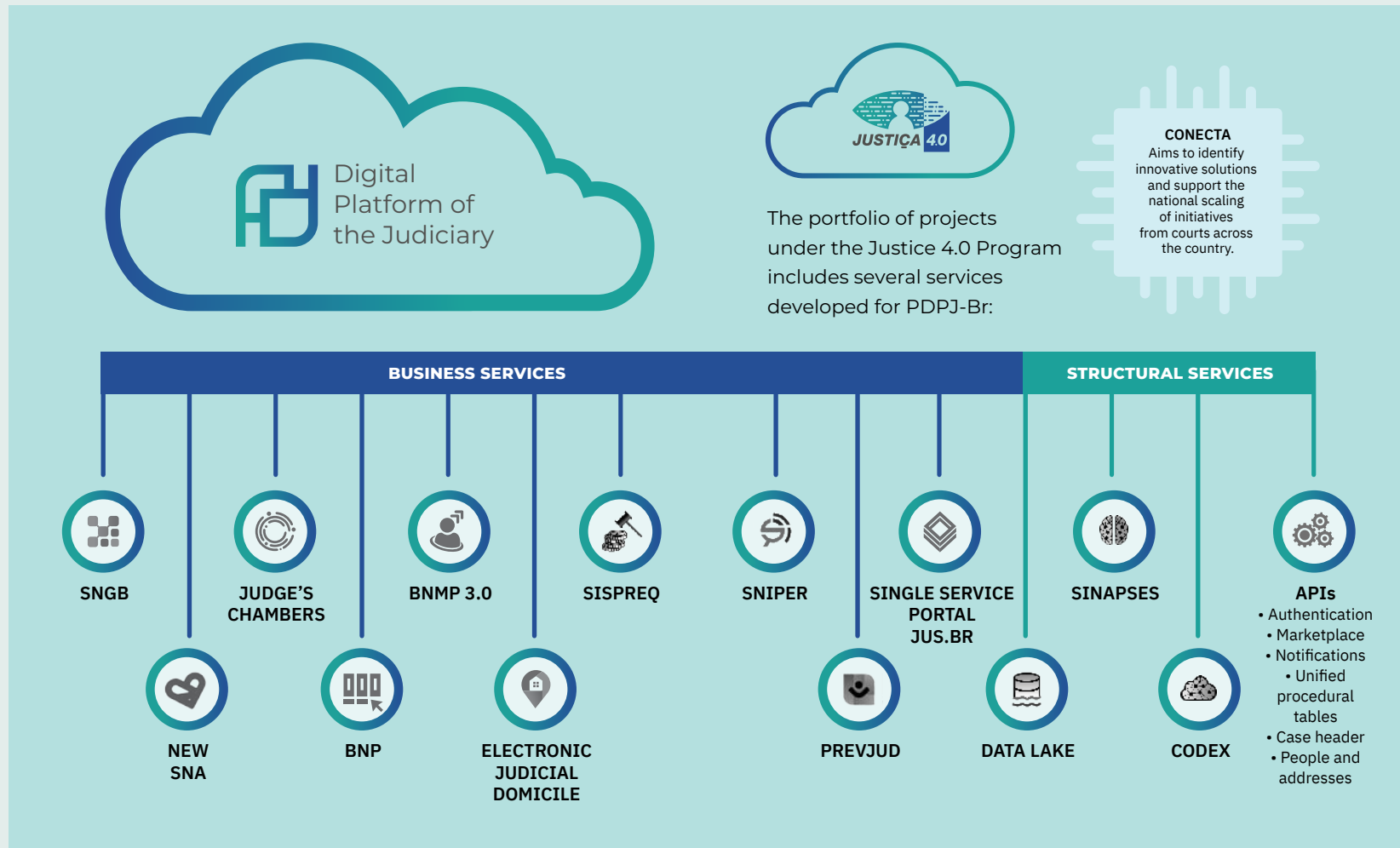
It's a one-stop solution for all judicial needs, accessible with just one login conveniently integrated with Gov.br. This platform acts as a marketplace for court services, offering a suite of modules, services, and applications—a veritable app store for the Judiciary.

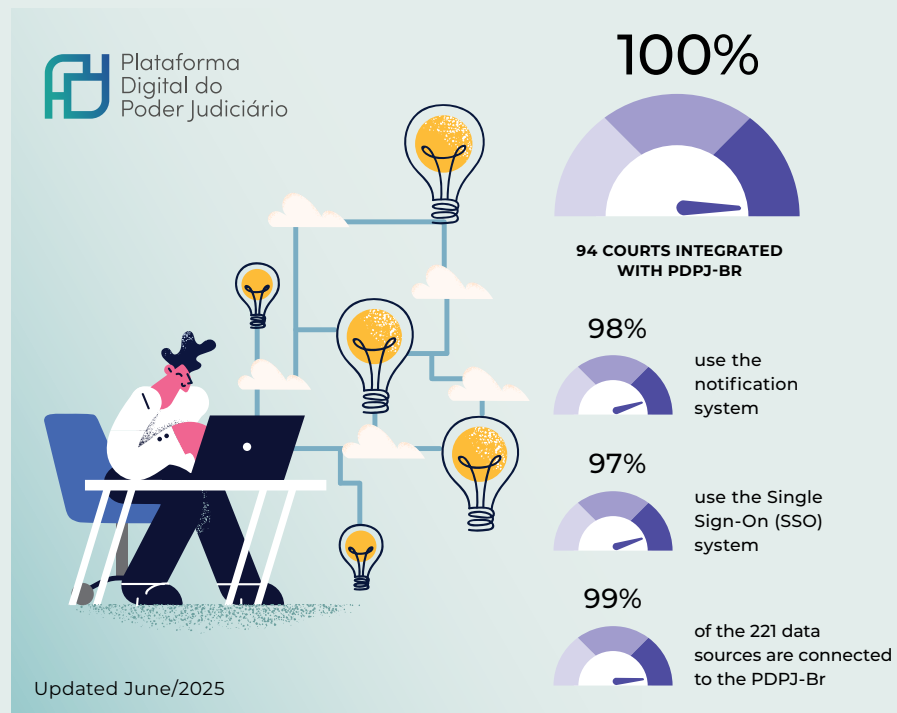
THE JUDICIARY REIMAGINED AS A PLATFORM

The PDPJ-Br, **collaboratively developed by Brazilian courts**, leverages existing e-proceeding solutions and converts them into a service platform.

THE POWER
OF THE
PLATFORM
MODEL

DELVE INTO THE
SPECIFICS OF
NOTIFICATIONS AND
SINGLE SIGN-ON (SSO)





THE PARADIGM SHIFT WITH THE PDPJ-BR

BEFORE	AFTER
National needs addressed through local solutions	Unified national solutions for all needs
Fragmented structure: Over 50 systems with limited database and proceedings integration, requiring multiple logins.	Streamlined efficiency: 14 integrated systems under PDPJ-Br
Isolated innovation: Knowledge and technology developed independently by courts, often outsourced	Collaborative innovation: Courts work together to develop and share solutions



CODEX: UNIFYING BRAZIL'S COURT CASE DATA

What it does

Codex serves as the nation's central repository for court case information. This database houses case content, including pleadings and other papers, regardless of the court's electronic system. Since 2022, it has become the official hub for receiving and storing all electronic court case data in Brazil.

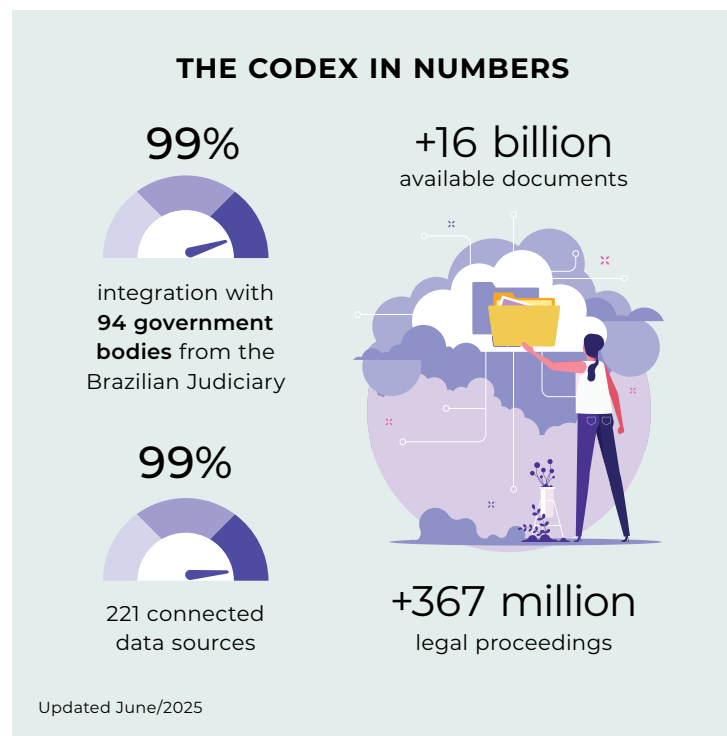
HERE'S
HOW CODEX
WORKS



Why it matters

It powers many systems serving the Judiciary and society by providing near real-time access to data, fueling the development and training of AI models, while also informing public policy decisions.

Codex data seamlessly integrates into the **Judiciary's Data Lake**, a centralized pool fed by multiple sources. This Data Lake acts as the primary data source for integrated queries, such as those powering the Single Service Portal - Jus.br. Looking ahead, it will further evolve to provide data for business intelligence tools and AI model training sets.



SINGLE SERVICE PORTAL – JUS.BR

The Single Service Portal, known as Jus.Br, is the central hub for all judicial services across the nation. This vision hinges on the nationwide implementation of PDPJ-Br in all courts and a fully operational Data Lake. Upon activation, users experience a seamless flow between any procedural system, benefiting from functionalities like a unified procedural consultation—eliminating the need to navigate individual court websites.

jus.br



AI: EMPOWERING INFORMED DECISION

Machine learning solutions support the justice system in discovering patterns and improving decision-making processes. By automating repetitive tasks and integrating intelligent capabilities into the workflow, AI frees up valuable time for officers and judges. This allows them to focus on complex activities that require more in-depth analysis. By doing this, AI helps get things done faster and reduces the backlog of pending cases.

While adopting an e-proceedings model and eliminating paper is a significant step, it's not enough to cope with the enormous demand for new cases and the existing backlog in Brazil's courts. **AI has emerged as a critical ally in this context.**

**DISCOVER
THE SINAPSES
PLATFORM AND
AI PROJECT
DASHBOARD**





AI APPLICATIONS IN THE JUDICIARY

- By automating bureaucratic and repetitive tasks, AI can significantly reduce the time spent on these activities.
- AI can facilitate the provision of high-quality information. This reduces information asymmetry and potentially opens up greater opportunities for settlement.
- AI has the potential to restructure and streamline the legal procedures, making them more logical.
- Finally, AI will free up valuable time for staff. This will allow them to focus on tasks that require human judgment and expertise.



JUSTICE 4.0 PROGRAM: SOLUTIONS PORTFOLIO

EXPLORE THE
PROJECTS
PORTFOLIO



LEARN MORE
ABOUT THE
ELECTRONIC
JUDICIAL
DOMICILE



FIND OUT
MORE ABOUT
CONECTA



VIEW THE
STATISTICS
DASHBOARD



VIEW THE
MAJOR
LITIGANTS
DASHBOARD



DISCOVER A RANGE OF SOLUTIONS READILY AVAILABLE FOR IMPLEMENTATION

These open-source solutions are freely offered by the CNJ, including to foreign Judiciaries through cooperation agreements.

ELECTRONIC JUDICIAL DOMICILE

This virtual address platform connects Brazilian courts and jurisdictions, centralizing procedural communications like summonses and subpoenas. Replacing physical delivery by process servers, it promotes agility and resource savings. Mandatory use applies to public/private companies, institutions, public administration entities, with optional use for individuals.

CONECTA

Aims to build a network of connections with more than 90 courts and support them in the process of integrating with PD-PJ-Br. The project will focus on monitoring and tracking the systems that best meet the specific needs of each court, as well as identifying innovative solutions that can be scaled at the national level.

DATAJUD

DataJud enables informed decision-making by providing user-friendly dashboards displaying data from all Brazilian courts. This sanitized and updated data makes in-depth analysis possible.

Statistics Panel. Presents consolidated information from all Brazilian courts to enhance judicial management.

Major Litigants Panel. Identifies the biggest litigants within the system, enabling the mapping of case filing trends and backlog. This facilitates the implementation of targeted measures to address these challenges and promote alternative dispute resolution (ADR).

Conciliar é Legal* Dashboard. Tracks court performance in conciliation and mediation initiatives recognized by the “Conciliar é Legal” Award.

JUDGE’S OFFICE

It manages daily office activities such as drafting orders, decisions, and judgments, signing documents, scheduling hearings, and accessing productivity data. Powered by AI, it centralizes information, streamlines workflows, and supports judges and staff in organizing tasks and making decisions, delivering greater efficiency to judicial services.

JUDICIAL EXPERTISE SYSTEM (SISPERJUD)

Sisperjud is an automated management tool designed to expedite the processing of medical expertise requests in lawsuits related to the grant or restoration of social security benefits from the Brazilian National Social Security Institute (INSS). It accelerates the processing and transmission of medical expert reports, leading to a reduction in processing time.

NATIONAL ASSET INVESTIGATION AND RECOVERY SYSTEM (SNIPER)

Sniper utilizes a graph visualization approach to combine data from various databases. This facilitates the identification of economic groups and relationships of interest between individuals and companies, enabling asset investigations within seconds. It addresses bottlenecks in execution and enforcement of sentences, a key challenge for the Brazilian Judiciary.

* Translators' Note: in an effort to appeal to a specific target audience, this program has taken a light-hearted and playful approach to its name. The name in “Conciliar é Legal” is a play on words, which may be freely translated in English as Settlement Rules.

VIEW THE
CONCILIAR
É LEGAL
DASHBOARD



LEARN MORE
ABOUT THE
JUDGE’S OFFICE



FIND OUT
MORE ABOUT
SNIPER



FIND OUT
MORE ABOUT
SNGB



NATIONAL ASSET MANAGEMENT SYSTEM (SNGB)

SNGB (the acronym in Portuguese) offers a comprehensive system for tracking the custody chain of assets across all judicial branches. Aligned with the National Strategy to Combat Corruption and Money Laundering (ENCCLA, the acronym in Portuguese), it allows for searching assets across judicial bodies and identifying those with no allotment. The system enhances control over judicial proceedings, preventing asset depreciation, loss, and misappropriation. Authorized users, including law enforcement agents, can also register assets within the system.

LEARN MORE
ABOUT THE
BNMP 3.0



NATIONAL DATABASE OF PENAL MEASURES AND PRISONS (BNMP 3.0)

A tool that integrates national databases monitoring the Brazilian prison system, consolidated into a repository of information on individuals deprived of liberty and fugitives from justice. It strengthens oversight at the entry and exit points of the prison system, with features focused on document management, event logging, and alert notifications for court staff and judges.

LEARN MORE
ABOUT THE
BNP/PANGAEA



NATIONAL PRECEDENTS DATABASE (BNP/PANGAEA)

BNP/Pangaea is a platform that compiles data from over 60 courts to support textual and statistical research on legal precedents. Developed in partnership with the Regional Labor Court of the 4th Region (TRT-4), the tool enables access to legal information to ensure consistent handling of repetitive or large-scale legal claims. It contributes to more efficient judicial management, standardization of legal interpretations, and uniform jurisprudence. The platform is designed for judges, court staff, lawyers, and legal researchers.



LEARN MORE
ABOUT THE
JUSTICE 4.0
LAWS AND
REGULATIONS



PREVJUD

Designed to meet the high demand in the social security sector, Prevjud streamlines communication and saves time and resources by eliminating paper-based correspondence. It enables the near-instantaneous implementation of already automated National Social Security Institute (INSS) benefits, such as those for the elderly and disabled, following a court decision. The solution provides instant access to social security information and automated transmission of court orders to the INSS.

FIND OUT
MORE ABOUT
PREVJUD



SINAPSES

This platform serves as a catalog, training ground, and access point for AI models within the Brazilian Judiciary. Over 150 models are currently available, including four co-developed by the Justice 4.0 Program in partnership with universities:

FIND OUT
MORE ABOUT
THE SINAPSES
PLATFORM



- PEDRO (Platform for the Extraction and Discovery of Judicial Precedents)–University of Brasília
- KAIROS (k-means clustering similarity for legal documents)–Federal University of Goiás
- ANA (Automated Standards Analysis)–University of Fortaleza
- ALICIA (Linguistic Analysis for Automated Classification)–University of Fortaleza.





Learn more about the program
revolutionizing the Brazilian Judiciary
through digital transformation and
expanding access to justice for citizens

www.cnj.jus.br/justica-4-0

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