



Aurora: Institutional AI Infrastructure for Justice

Public Prosecution Service of
Rio Grande do Sul – Brazil

Institutional AI designed for secure, scalable
and human-centered public decision support.



The Institutional Problem



Exponential growth in judicial proceedings and evidentiary media



Migration of physical files to digital environments



High volume of audiovisual hearings and testimonies



Need for security, governance and auditability

“The challenge was not productivity.
It was institutional capacity.”



What Aurora Is

Aurora is a cloud-native institutional AI ecosystem that:

- Automatically analyzes entire judicial processes
- Vectorizes and summarizes all procedural documents
- Processes audiovisual evidence multimodally
- Provides contextual assistants per case and per testimony

It operates as cognitive infrastructure embedded in institutional workflows.

Native Multimodal Process Intelligence

Enables cross-referencing of evidence and contradiction analysis in seconds.





Multimodal Transcription & Analysis

Aurora performs:

- **Multimodal transcription** of audio and video evidence
- **Diarization:** Identifies who is speaking and when
- **Contextual Assistants:** Specific AI agents assigned to each deposition

13,012+ hours of media converted to searchable text.

Agentic Capabilities

Aurora includes an institutional AI Agent that allows users to:

- Request full case analysis
- Identify legal vulnerabilities
- Assess appeal feasibility
- Automatically draft appeals or procedural acts

The agent expands prosecutorial capacity while preserving human authority.



Multiple Drafting Modes

Aurora preserves professional autonomy through flexible drafting options.



Upload Model

Bring your own base file.



Generic Template

Standard system base.



History (SAJ)

Integration with personal history.



Institutional Bank

Institutional curation.



Prompt (Zero-Shot)

Free creation via instruction.

Users may combine structured templates with free-form analytical prompts.

Collaborative Prompt Governance

A shared Prompt Library transforms individual expertise into validated institutional knowledge.

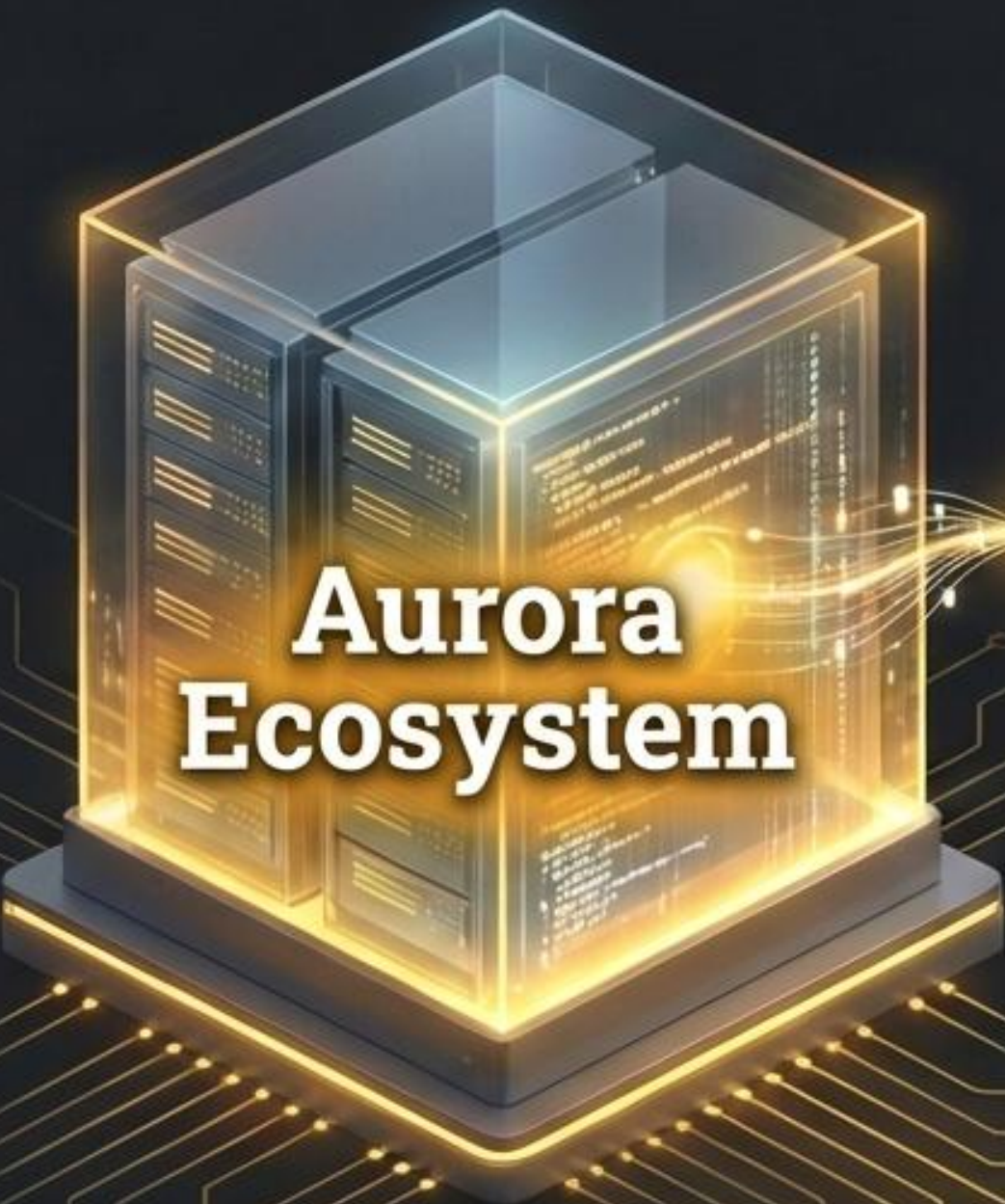
- Institutional prompt sharing
- Rating mechanisms (Peer Review)
- Instance-based verification
- Continuous refinement



Integrated Justice Ecosystem

Aurora is natively integrated with:

- Judicial back-office systems (eProc, SAJ)
- Internal systems for extrajudicial proceedings (defending diffuse rights: environment, elderly, children)
- Workflows for vulnerable population protection, with specialized support for high-priority cases



**Aurora
Ecosystem**

The Aurora Ecosystem is depicted as a glowing, transparent cube containing server racks and data visualizations. It sits on a base of circuitry lines. A woman in a judge's robe and headset stands between it and the Judicial Systems, with glowing energy lines connecting the three main components.



**Judicial Systems
(eProc / SAJ)**

The Judicial Systems are represented by a classical building with columns, sitting on a base of circuitry lines. It is connected to the Aurora Ecosystem and the central figure by glowing energy lines.

Google Cloud

Public Prosecution Service Results and Impact

Monthly Document Evolution (Jul/25 - Jan/26)

37,028
documents generated

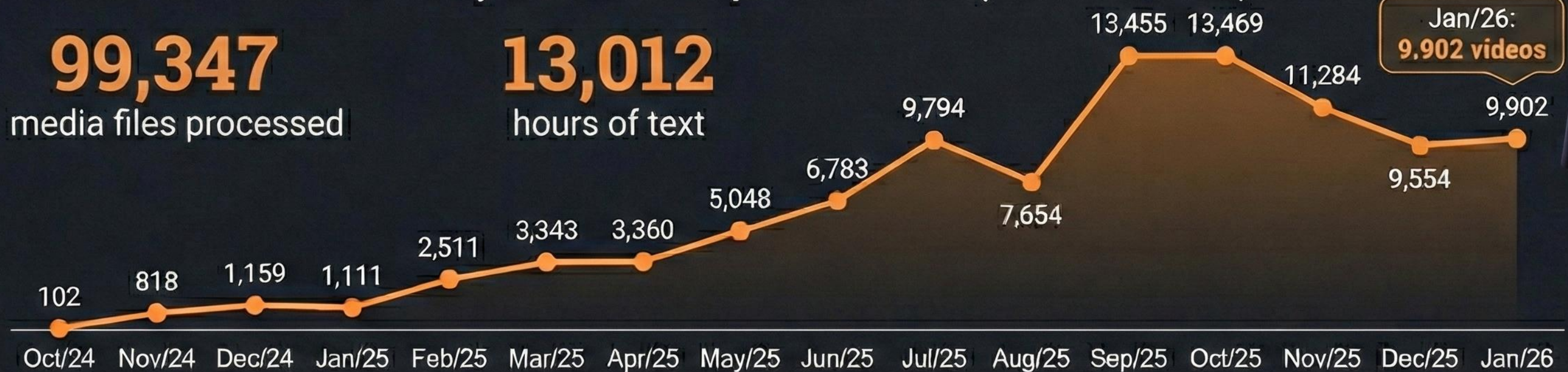
1,432
unique users



Monthly Video Transcription Evolution (Oct/24 - Jan/26)

99,347
media files processed

13,012
hours of text



Governance, Ethics and Security



- ✓ • 600+ technical and ethical requirements during procurement
- ✓ • Anonymized datasets during selection and proof-of-concept
- ✓ • Human-in-the-loop decision model
- ✓ • Logical data isolation and secure storage
- ✓ • Full logging and traceability

AI outputs **support decisions**. Final determinations remain **human**.

Innovative Procurement Model

Aurora was implemented through a zero-upfront-cost partnership model.



- **No direct** public development expenditure
- **Componentized** architecture
- **Replicable** and **scalable** design
- **Commercial viability** aligned with public interest

“Scalability was not optional. It was a structural requirement.”

Lessons and Future Roadmap



Future Vision

Next phase: Transition toward a fully agentic architecture capable of orchestrating complete bureaucratic workflows while maintaining auditability, accountability and human authority.

Aurora demonstrates that AI in government can scale without standardizing justice or replacing human judgment.

Ready to transform your institution?

A strategic partnership for innovation in AI.



ALURORA



MPRS
Ministério Público
do Rio Grande do Sul

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