



# R2 Mechanics – Local Transcription System for Research & Cultural Memory

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## Purpose & Mission

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**R2 Mechanics** was developed to process sensitive audio data – such as oral history, eyewitness interviews or scientific recordings – in a **structured, transparent, and fully offline** manner, and to enhance it visually.

The goal is to offer a modular, GDPR-compliant platform for institutions seeking local control, semantic structuring, and long-term archival capability. The system was developed from the ground up to meet the highest standards in data sovereignty, structuring, and archival permanence.

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## Target Groups

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- Research institutions & universities
  - Archives & museums
  - Oral history projects
  - Ethnographic fieldwork teams
  - Privacy-sensitive organizations
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## System Advantages

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- **Local processing** (no cloud)
  - **GPU-accelerated transcription**
  - **Interactive HTML output with chapters & timestamps**
  - **Optional: speaker separation and visual scene generation**
  - **Modular and extensible architecture**
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## Use Cases

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- Transcription of oral history interviews (Audio → HTML)
  - Structured documentation of ethnographic research
  - Offline processing of sensitive archive materials
  - Long-term semantic documentation with navigable output
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## Cooperation & Demonstration

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A non-operational demonstrator is available upon request for cooperation discussions.  
Test runs and technical exchanges are possible for academic institutions.

If you're interested in a specific use case, workshop or pilot project, we welcome your inquiry.

### **Contact:**

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 <https://github.com/R2-Mechanics/r2-mechanics>