EVIDENCE SYNTHESIS

Accelerating Evidence Synthesis with giles®

AI-powered data extraction for systematic literature reviews, regulatory submissions, and competitive benchmarking. Accurate, traceable, and audit-ready.

85% TIME SAVED

95% ACCURACY

98% RECALL RATE

THE CHALLENGE

The Evidence Synthesis Bottleneck

Across academia, healthcare, life sciences, and research, teams are drowning in data. Evidence lives everywhere, but researcher time is severely limited. When executing critical tasks such as systematic literature reviews (SLRs), regulatory submissions, or competitive benchmarking, teams face systemic operational roadblocks.

Heavy Manual Workload

Researchers spend weeks manually scanning and reading PDFs, extracting key fields line-by-line, and rebuilding complex datasets in Excel. A single systematic review can take months.

Inconsistency and Human Error

Manual extraction varies significantly from reviewer to reviewer, increasing the critical risk of misinterpreted or completely missed data.

High Costs and Slow Delivery

Evidence synthesis projects can drag on for months and cost hundreds of thousands, delaying vital decision-making.

Poor Scalability

As the clinical landscape evolves, adding new studies or updating analyses frequently forces teams to start the extraction process again from scratch.

THE SOLUTION

Smart Data Extraction by giles®

giles® is an AI-driven platform purpose-built specifically for evidence-heavy workflows. Its data extraction capabilities remove the manual burden from evidence synthesis without ever sacrificing accuracy, transparency, or trust.

Fast

Extraction time reduced by ~85%. What once took weeks or months now becomes hours or days, enabling rapid iteration as evidence evolves.

Accurate

Independent testing validates up to ~95% accuracy compared to manual extraction methodologies, with a 98% recall rate that minimizes AI hallucinations.

Traceable

Validated at ISPOR 2025, every extracted field is referenced back to the original source with contextual highlights and inline citations.

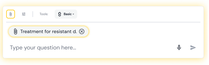
DEEP DATA INTEGRATION

The giles® Workflow

1 Upload and Connect Evidence

Bring together scattered PDFs, clinical reports, and datasets into one centralized workspace. Users can upload their own documents or seamlessly add studies directly from trusted external sources like PubMed and Clinicaltrials.gov.

Centralized workspace for all evidence



2 Define Data Outputs

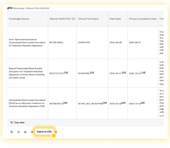
Users dictate exactly what data they need—such as patient outcomes, specific endpoints, or treatment arms. There is no complex prompting needed. giles® retrieves the requested variables straight from the source document itself.

Simple, natural language queries

3 Highly Accurate Extraction

giles® processes all documents and pulls structured values directly from unstructured text and complex tables. Every single data point includes full source traceability with references linked directly to the original publications for instant validation.

Full source traceability with citations



4 Exportable Structured Datasets

The platform generates datasets that are immediately ready for regulatory submissions, HTA dossiers, meta-analysis, and downstream analytics. Export in CSV formats, or 'copy table' directly into submission templates without losing any formatting.

Export-ready for analysis and submissions

BUSINESS IMPACT & ROI

Real results that matter

Adopting giles® fundamentally shifts the economics and speed of evidence synthesis.

Time Savings

Extraction time reduced by ~85%. What once took weeks or months now becomes hours or days, enabling rapid iteration as evidence evolves.

Better Quality

Less time spent cleaning up data, freeing up researcher capacity for interpretation and strategic decision-making. Clean, structured outputs directly support advanced analytics and meta-analysis.

Reduced Costs

Organizations dramatically reduce the researcher hours spent on manual extraction and validation. Fewer errors mean less rework and higher confidence in the final evidence.

Unmatched Traceability

Validated at ISPOR 2025, every extracted field is referenced back to the original source with contextual highlights and inline citations, ensuring rapid validation and absolute audit readiness.

Scalable Operations

New studies or updated evidence can be re-ingested with minimal additional effort. There is no need to repeat the full extraction process.

REAL-WORLD EXAMPLE

Automating the Systematic Literature Review (SLR)

The Scenario: A healthcare research team needs to compile comparative data from dozens of clinical trials evaluating a new treatment.

BEFORE GILES®

Historically, this required manually locating relevant papers and saving PDFs. Researchers would then manually read tables and text to locate outcomes, recording fields such as age, treatment arm, scores, and time points. Teams would then reconcile differences between sources before finally aggregating the results into a structured dataset.

Outcome:
Weeks to months of intense labor, high costs, and a high probability of missing critical data points.

WITH GILES® DATA EXTRACTION PROCESS

1. **Upload**
   Documents are securely uploaded into the giles® platform.
2. **Define**
   The team creates an extraction template detailing key variables (efficacy measures, populations, endpoints, etc.).
3. **Extract**
   Without a prompt, giles® processes all documents and pulls the structured values directly from unstructured text and complex tables.
4. **Collaborative Review**
   Every single data point includes full source traceability. References are linked directly to the original publications for instant validation, and users can generate bibliographies perfectly formatted for submissions.
5. **Review & Export**
   The final structured dataset is exported for analysis in CSV formats, or users can 'copy table' directly into submission templates without losing any formatting.

COMPETITIVE ADVANTAGE

Accelerate across sectors

Teams utilizing giles® rapidly accelerate their regulatory filings, SLRs, HTA submissions, and internal research workflows.

Pharma & Biotech
High-volume clinical trial data extraction
Speed up trial evidence synthesis; feed accurate structured data into modelling

Academic Research
Dissertation and review writing
Automate data collection and reduce student effort

Regulatory Affairs
Preparing dossiers for authorities
Generate evidence-based tables consistent with submission templates

Healthcare Analytics
Meta-analysis of outcomes from clinical practice
Scale extraction across disparate sources quickly

Consulting & CROs
Competitive benchmarking reports
Turn client PDFs into actionable insights faster

The difference is clear

TRADITIONAL APPROACH

- Manually scan hundreds of PDFs
- Extract data field by field
- Reconcile inconsistencies between reviewers
- Rebuild dataset in Excel

Timeline: 6–12 weeks

WITH GILES®

- Upload documents in minutes
- Define extraction template once
- AI processes all documents automatically
- Export audit-ready datasets

Timeline: 1–3 days