

# AI-Powered Multi-Level Classification Tool for Survey Data

Washington, DC  
December 9th, 2025

Improving Open-Ended  
Response Coding

# Why Are We Still Talking About Classification in 2025?



Classification is a solved problem **in theory**



**Manual, inconsistent coding** still dominates many censuses and surveys



Input sentences are often **incomplete or low-quality**

The gap between **what is technically possible** and **what is practically usable** remains enormous

# What We Aim to Improve

Human — in — the — Loop  
Workflow → Human — in —  
the — Loop Workflow →  
Human — in — the — Loop

02

- ✓ **Higher accuracy** and **consistency** across coders
- ✓ **Reduction of workloads** and timelines (months to days)
- ✓ **Real-time quality feedback** loops during fieldwork
- ✓ **Low-cost** and portable solution
- ✓ Build-up of **high-quality datasets** for future surveys

## Model / API Component



**Model adapts to any** hierarchical taxonomies (ISCO, ISIC, custom)



**Multilingual and low-compute;** reproducible outputs



**Incremental learning** from human corrections



Simple **REST API** for easy integration

## User Interface Component



**Full workflow management** for non-technical staff



**Upload, filter, search,** and code responses with AI suggestions



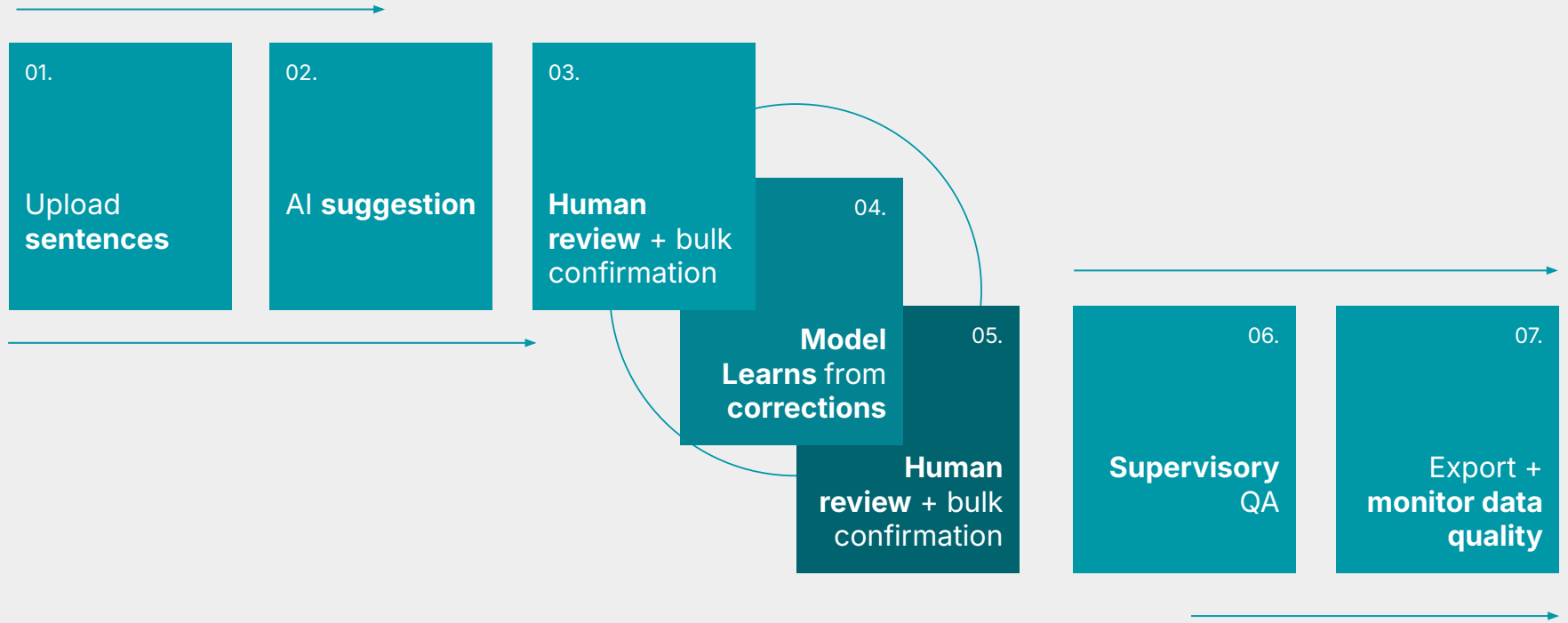
**Bulk labeling + team assignment** + **supervisory review**



**Dashboards** for progress and quality monitoring

# Workflow

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# What This Enables

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## Quality Control During Fieldwork

- ✓ Detect poor descriptions early
- ✓ Provide immediate feedback to enumerators

## Smarter Classification Strategy

- ✓ Confidence-based auto-acceptance
- ✓ Double-coding for reliability
- ✓ Targeted human review

## Rethinking Questionnaire Design

- ✓ More open-ended questions possible
- ✓ Better capture of complex, qualitative concepts
- ✓ Bridges qualitative and quantitative approaches

# Takeaways



**Better workflows** lead to **better data**



**Accessible** tools needed



**AI augments human coders** and **reduces routine workload**



**Real-time feedback** loops strengthen fieldwork and **survey implementation**

## A gentle reminder

Many bottlenecks in CSO operations still come from data management issues, file handling, versioning, lineage, and messy Excel/CSV files. AI will **not** solve these.

# Try it out yourself

## 01

Connect to  
<https://demo-classif-ai.rowsquared.org>

## 02

**User:** wbuser  
**Password:** wbuser



# Let's talk

For any inquiries [hello@rowsquared.com](mailto:hello@rowsquared.com)

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