TACI.ai | TASK-AI CAPABILITY INDEX CONFIDENTIAL ADVISOR BRIEF | v0 .1 | JULY 2025

MEASURING LLM JOB-TASK PERFORMANCE: 180-Task Core Slice, 24-Hour Turn-Around

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Abstract

TACI benchmarks frontier language models on a 180-task slice of real O*NET job statements that spans text, GUI, and vision. Each run finishes within twenty-four hours of a new checkpoint, with SHA-256-logged prompts, six-axis grading, and 95 % confidence intervals. The framework is adaptable: any occupation from the full ≈14 000-task O*NET taxonomy can be analysed by selecting the desired rows. This brief shows one occupation (Paralegals) and invites methodological feedback from researchers, model labs, and business decision-makers.

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1. WHY THIS MATTERS

Public model leaderboards still test synthetic trivia and academic exams. Businesses, AI labs, and policymakers need to know how new checkpoints perform on the *actual work tasks* that power the economy.

TACI answers that gap with a reproducible, twenty-four-hour pipeline over a 180-task core slice. Because every O*NET record is indexed, the system can be directed at **any occupation** in the U.S. Department of Labor taxonomy, today, by toggling the input manifest.

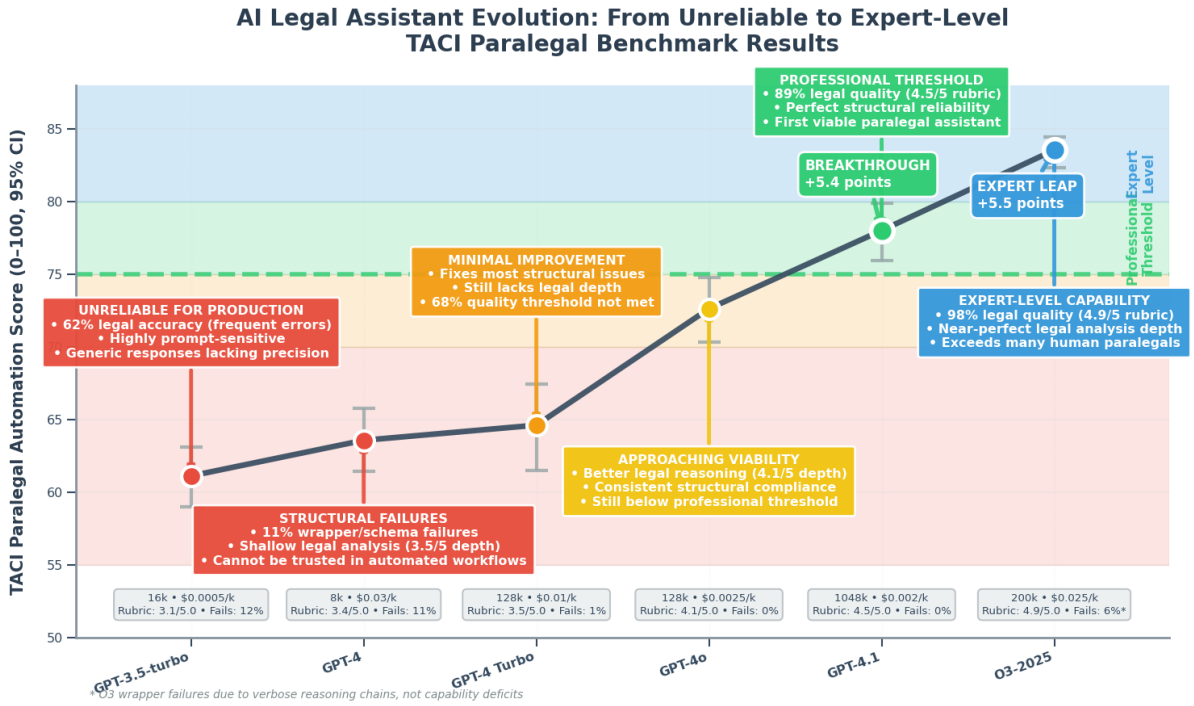
2. WHAT MAKES TACI DIFFERENT

- **Real-task grounding:** Importance-weighted O*NET tasks.
- **Multi-modal prompts:** Text, structured GUI actions, vision findings.
- **24-h refresh cadence:** New checkpoint, new numbers next day.
- **Transparent hashing:** Prompts, outputs, and grades SHA-256-logged.
- **Six-axis rubric + hard gates:** Quality *and* structural reliability.
- **Statistical discipline:** 1 000-bootstrap 95 % confidence intervals.

★ **Your input requested** A 30-minute call to critique design choices would be invaluable. If the approach proves useful, may we list you as an informal advisor (name & head-shot; no ongoing duties)?

3. SPOTLIGHT – PARALEGALS & LEGAL ASSISTANTS (SOC 23-2011)

Line chart of TACI paralegal scores for six GPT checkpoints; annotations mark structural failures, viability, expert level.



*Each point aggregates all 14 O*NET paralegal tasks with task-level importance weights. Results reflect 72 outputs per model (14 tasks × 2 temperatures × 3 prompt variants). Error bars show 95% confidence intervals computed from 1,000 bootstrap samples.*

• Reliability Cliff: The 11% Structural Failure Problem. GPT-4 has an 11% wrapper/schema failure rate, making it fundamentally unreliable for automated legal workflows, while GPT-4.1+ achieve perfect structural compliance. This is not just a performance gap; it's a trust threshold for real deployment.

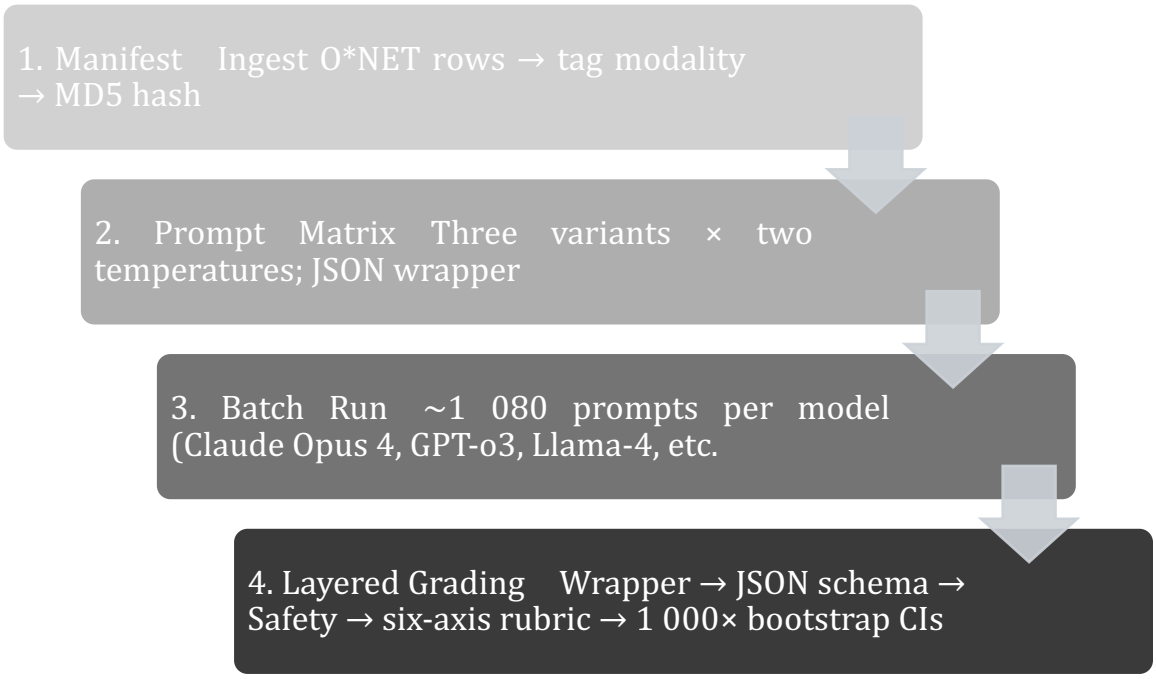
• Professional Viability Jump: GPT-4.1 as the Inflection Point. TACI pinpoints when AI becomes professionally viable: GPT-4.1 scores 78% with 4.5/5 rubric quality, crossing the "colleague-level" threshold. Below this, AI is only assistance-level; above, it can do independent paralegal work.

• Expert Paradox: O3's Tradeoff: Higher Quality, More Failures. O3 delivers 98% legal quality (4.9/5) and 83.5% score, despite 6% wrapper failures. GPT-4.1 has 0% failures

but lower quality. This shows reasoning depth and formatting compliance are separate axes: O3's verbose reasoning boosts analysis but breaks wrappers.

The identical analysis can be generated for *any* occupation or custom task list within twenty-four hours.

4. METHOD IN FOUR STEPS



Context-and-price bonus (v0 .1): Extra weight for models offering ≥ 128 k context at ≤ $0.002 / k tokens. (adjustable)

5. COMPARATIVE CONTEXT

Dimension	*HELM (Stanford '22)*	*MMLU (OpenAI '21)*	*BIG-Bench (Google '22)*	*TACI (2025)*
Real-world grounding	48 evaluation scenarios (HELM v2.1)	57 academic MCQs	399 synthetic tasks (BIG-Bench full)	**≈14 000 O*NET job tasks**
Modalities	Text	Text	Text	**Text + GUI + Vision**
Refresh cadence	Manual releases	Frozen snapshot	One-off release	**24-h automated core slice**
Longitudinal deltas	✗	✗	✗	**Built-in panel tracking**
Main use-cases	Ethics research	Education testing	Benchmark research	**Labour policy Business strategy Model eval**

HELM v2.1 (public release Oct 2024) contains 48 scenarios; the original 2022 paper listed 42. † BIG-Bench figure uses the full 399-task repository; many summaries cite the 204-task "Lite" subset.

6. CONTACT & NEXT STEPS

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To discuss or request additional occupations, please choose any open slot: https://calendly.com/founder-taci/30min