# Cost Analysis

# More Agents = More Cost?

- Does the greater performance come at a higher cost?

- There is a cost increase, mostly due to multiple agents each utilizing their full context

- Limiting agents' context lengths can improve performance while *dropping* costs

- Communication overhead is negligible

| System | MJ | Δ (↑) | Cost | Δ (↓) |
|---|---|---|---|---|
| ReDel (4o) | 0.494 | +25.4% | $222.17 | +116% |
| RD Short (4o) | 0.426 | +8.2% | $39.84 | -61.2% |
| Base Short (4o) | 0.361 | -8.2% | $13.71 | -86.6% |
| Baseline (4o) | 0.394 | — | $102.65 | — |
| ReDel (hybrid) | 0.255 | +229% | $9.20 | +641% |
| ReDel (3.5-t) | 0.087 | +12.5% | $2.78 | +124% |
| Baseline (3.5-t) | 0.077 | — | $1.24 | — |

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# Error Analysis
## Your LLMs have commitment issues

| System | FOQA | | TP | | WA | |
|---|---|---|---|---|---|---|
| | **OC** | **UC** | **OC** | **UC** | **OC** | **UC** |
| RD (4o) | 22.7 | 11.3 | 41.1 | 0.5 | 31.3 | 44.8 |
| RD (3.5-t) | 40.8 | 1.1 | 96.7 | 0 | 54.6 | 17.7 |