AI USE CASES

Beyond Question & Answer

TONY BELLOMO
TECHNICAL DIRECTOR – ERM DIGITAL SOLUTIONS

Sustainability is our business

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1 Discovering Buried Tresure

2 Reinventing the Wheel

3 Seeing the future

4 Mitigating Risks

5 Past – Present - Future

Ways we use AI?

Buried Treasure

- Mountains of valuable data hidden in thousands of files but no way to find it.

Reinventing the Wheel

- We build the same documents and reports from scratch wasting time and lacking consistency.

Seeing Into the Future

- Companies want to assess the risks of proposed process changes.

Buried Treasure

Problem:

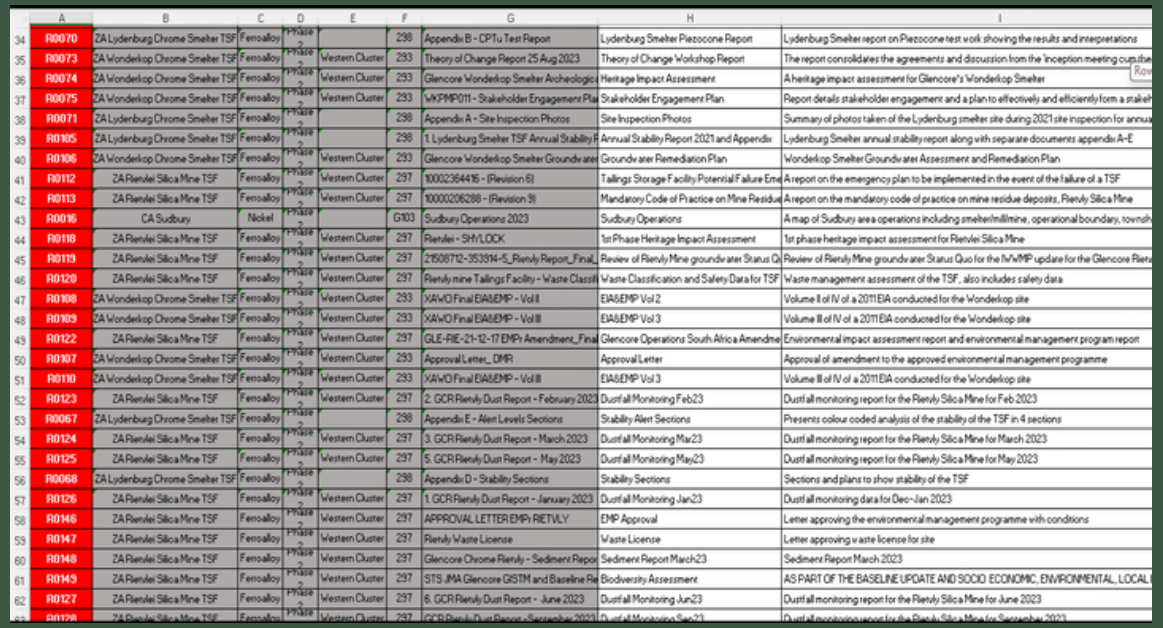
A client is scheduled to host government regulators to demonstrate readiness to close a mine.

Thousands of files are on SharePoint

- File names do not describe content
- Dates are based on when the files were placed on SharePoint
- Can’t find scanned documents or other pictures
- Tables of Data in PDF documents

Building a Treasure Map

Curate, Catalog, and Extract content using AI Agents



	A	B	C	D	E	F	G	H	I
34	R0070	ZA Lydenburg Chrome Smelter TSF	Ferroalloy	Phase 2		298	Appendix B - CPTu Test Report	Lydenburg Smelter Piezocone Report	Lydenburg Smelter report on Piezocone test work showing the results and interpretations
35	R0073	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	Theory of Change Report 25 Aug 2023	Theory of Change Workshop Report	The report consolidates the agreements and discussion from the "inception meeting cum tribe
36	R0074	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	Glencore Wonderkop Smelter Archeologic	Heritage Impact Assessment	A heritage impact assessment for Glencore's Wonderkop Smelter
37	R0075	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	WKPMP011 - Stakeholder Engagement Pla	Stakeholder Engagement Plan	Report details stakeholder engagement and a plan to effectively and efficiently form a stakeh
38	R0071	ZA Lydenburg Chrome Smelter TSF	Ferroalloy	Phase 2		298	Appendix A - Site Inspection Photos	Site Inspection Photos	Summary of photos taken of the Lydenburg smelter site during 2021 site inspection for annua
39	R0105	ZA Lydenburg Chrome Smelter TSF	Ferroalloy	Phase 2		298	1. Lydenburg Smelter TSF Annual Stability R	Annual Stability Report 2021 and Appendix	Lydenburg Smelter annual stability report along with separate documents appendix A-E
40	R0106	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	Glencore Wonderkop Smelter Groundwater	Groundwater Remediation Plan	Wonderkop Smelter Groundwater Assessment and Remediation Plan
41	R0112	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	10002364416 - (Revision 6)	Tailings Storage Facility Potential Failure Eme	A report on the emergency plan to be implemented in the event of the failure of a TSF
42	R0113	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	10000206288 - (Revision 9)	Mandatory Code of Practice on Mine Residue	A report on the mandatory code of practice on mine residue deposits, Rienvly Silica Mine
43	R0016	CA Sudbury	Nickel	Phase 2		G103	Sudbury Operations 2023	Sudbury Operations	A map of Sudbury area operations including smelter/mill/mine, operational boundary, townsh
44	R0118	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	Rienvlei - SHYLOCK	1st Phase Heritage Impact Assessment	1st phase heritage impact assessment for Rienvlei Silica Mine
45	R0119	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	21508712-353914-5_Rienvly Report_Final_	Review of Rienvly Mine groundwater Status Q	Review of Rienvly Mine groundwater Status Quo for the IWWMP update for the Glencore Rien
46	R0120	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	Rienvly mine Tailings Facility - Waste Classifi	Waste Classification and Safety Data for TSF	Waste management assessment of the TSF, also includes safety data
47	R0108	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	XAWO Final EIA&EMP - Vol II	EIA&EMP Vol 2	Volume II of IV of a 2011 EIA conducted for the Wonderkop site
48	R0109	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	XAWO Final EIA&EMP - Vol III	EIA&EMP Vol 3	Volume III of IV of a 2011 EIA conducted for the Wonderkop site
49	R0122	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	GLE-RIE-21-12-17 EMPr Amendment_Final	Glencore Operations South Africa Amendme	Environmental impact assessment report and environmental management program report
50	R0107	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	Approval Letter_ DMR	Approval Letter	Approval of amendment to the approved environmental management programme
51	R0110	ZA Wonderkop Chrome Smelter TSF	Ferroalloy	Phase 2	Western Cluster	293	XAWO Final EIA&EMP - Vol III	EIA&EMP Vol 3	Volume III of IV of a 2011 EIA conducted for the Wonderkop site
52	R0123	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	2. GCR Rienvly Dust Report - February 2023	Dustfall Monitoring Feb23	Dustfall monitoring report for the Rienvly Silica Mine for Feb 2023
53	R0067	ZA Lydenburg Chrome Smelter TSF	Ferroalloy	Phase 2		298	Appendix E - Alert Levels Sections	Stability Alert Sections	Presents colour coded analysis of the stability of the TSF in 4 sections
54	R0124	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	3. GCR Rienvly Dust Report - March 2023	Dustfall Monitoring Mar23	Dustfall monitoring report for the Rienvly Silica Mine for March 2023
55	R0125	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	5. GCR Rienvly Dust Report - May 2023	Dustfall Monitoring May23	Dustfall monitoring report for the Rienvly Silica Mine for May 2023
56	R0068	ZA Lydenburg Chrome Smelter TSF	Ferroalloy	Phase 2		298	Appendix D - Stability Sections	Stability Sections	Sections and plans to show stability of the TSF
57	R0126	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	1. GCR Rienvly Dust Report - January 2023	Dustfall Monitoring Jan23	Dustfall monitoring data for Dec-Jan 2023
58	R0146	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	APPROVAL LETTER EMPr RIETVLY	EMP Approval	Letter approving the environmental management programme with conditions
59	R0147	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	Rietvly Waste License	Waste License	Letter approving waste license for site
60	R0148	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	Glencore Chrome Rietvly - Sediment Repor	Sediment Report March23	Sediment Report March 2023
61	R0143	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	STS JMA Glencore GISTM and Baseline Re	Biodiversity Assessment	AS PART OF THE BASELINE UPDATE AND SOCIO ECONOMIC, ENVIRONMENTAL, LOCAL
62	R0127	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	6. GCR Rienvly Dust Report - June 2023	Dustfall Monitoring Jun23	Dustfall monitoring report for the Rienvly Silica Mine for June 2023
63	R0128	ZA Rienvlei Silica Mine TSF	Ferroalloy	Phase 2	Western Cluster	297	GCR Rienvly Dust Report - September 2023	Dustfall Monitoring Sep23	Dustfall monitoring report for the Rienvly Silica Mine for September 2023

Open Each File

Title | Date | Summary | Tags

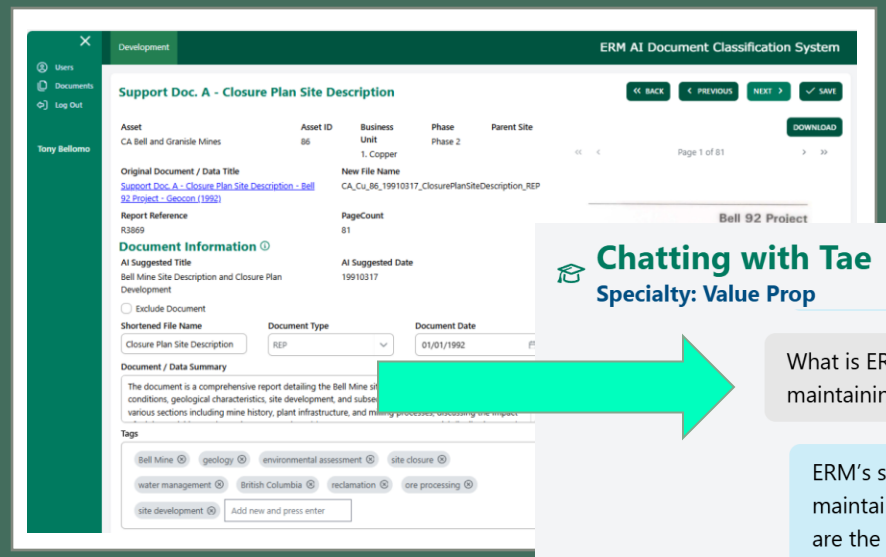
Extract Each Image

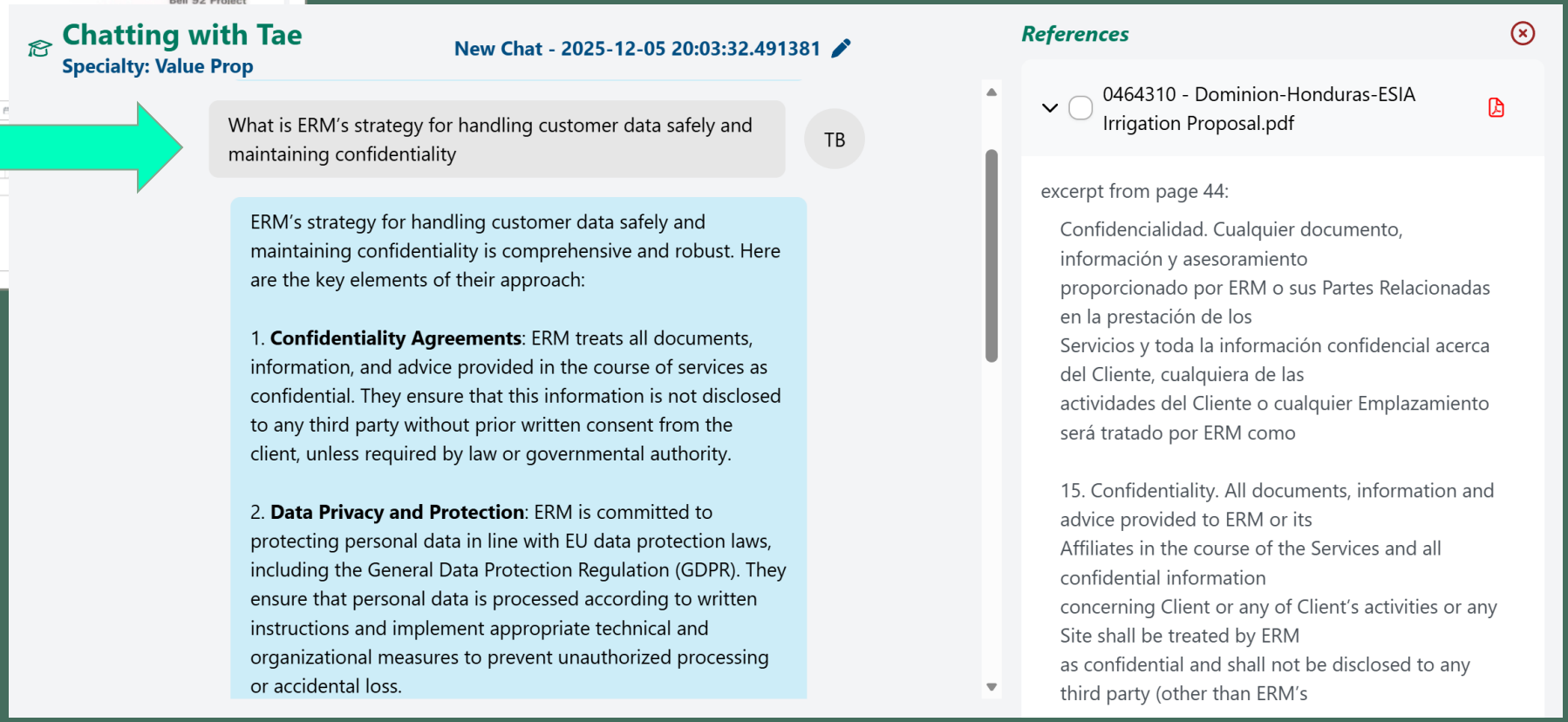
Image Type | Relevance | Save to SharePoint

Extract Data Tables

Extract to Excel | Save to SharePoint

Result - Users can search, filter, and chat





Reinventing the Wheel

Problem:

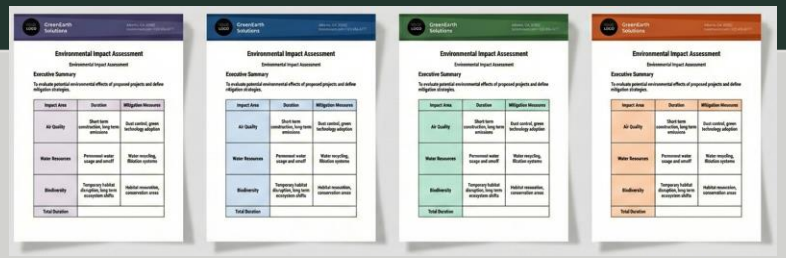
Similar documents are created repeatedly

Examples:

- Monthly regulatory reports
- Proposals
- Environmental Impact Assessment

Agents Access Project Data

Examples and Templates



Project Data

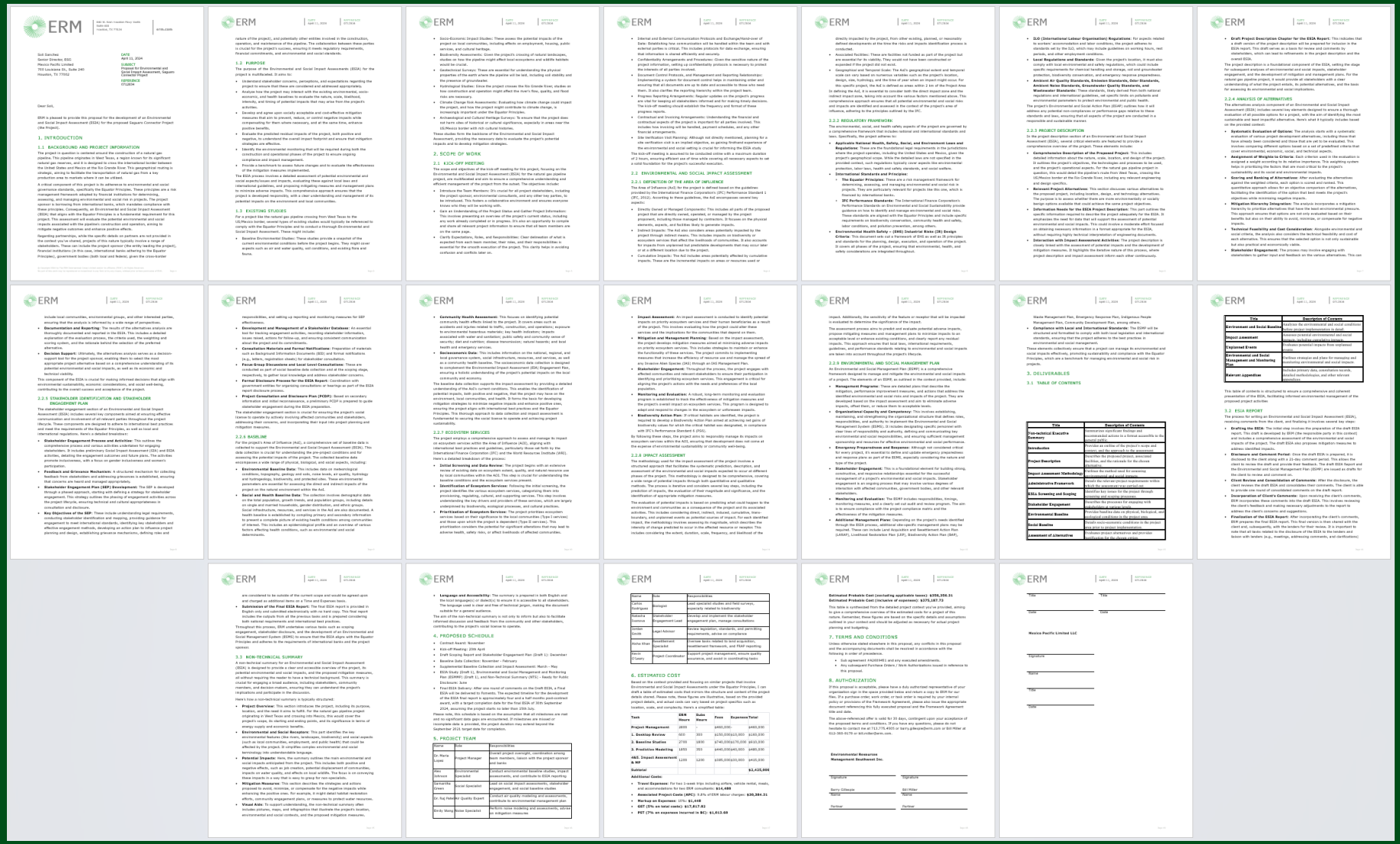
AI Agent Coordinator

Agent references current data and past deliverables to build the document with project data

“80% Draft” Document

Draft document in minutes
Ready for your review

Result – Customized, project specific drafts in minutes



AI Automated Research and Monitoring

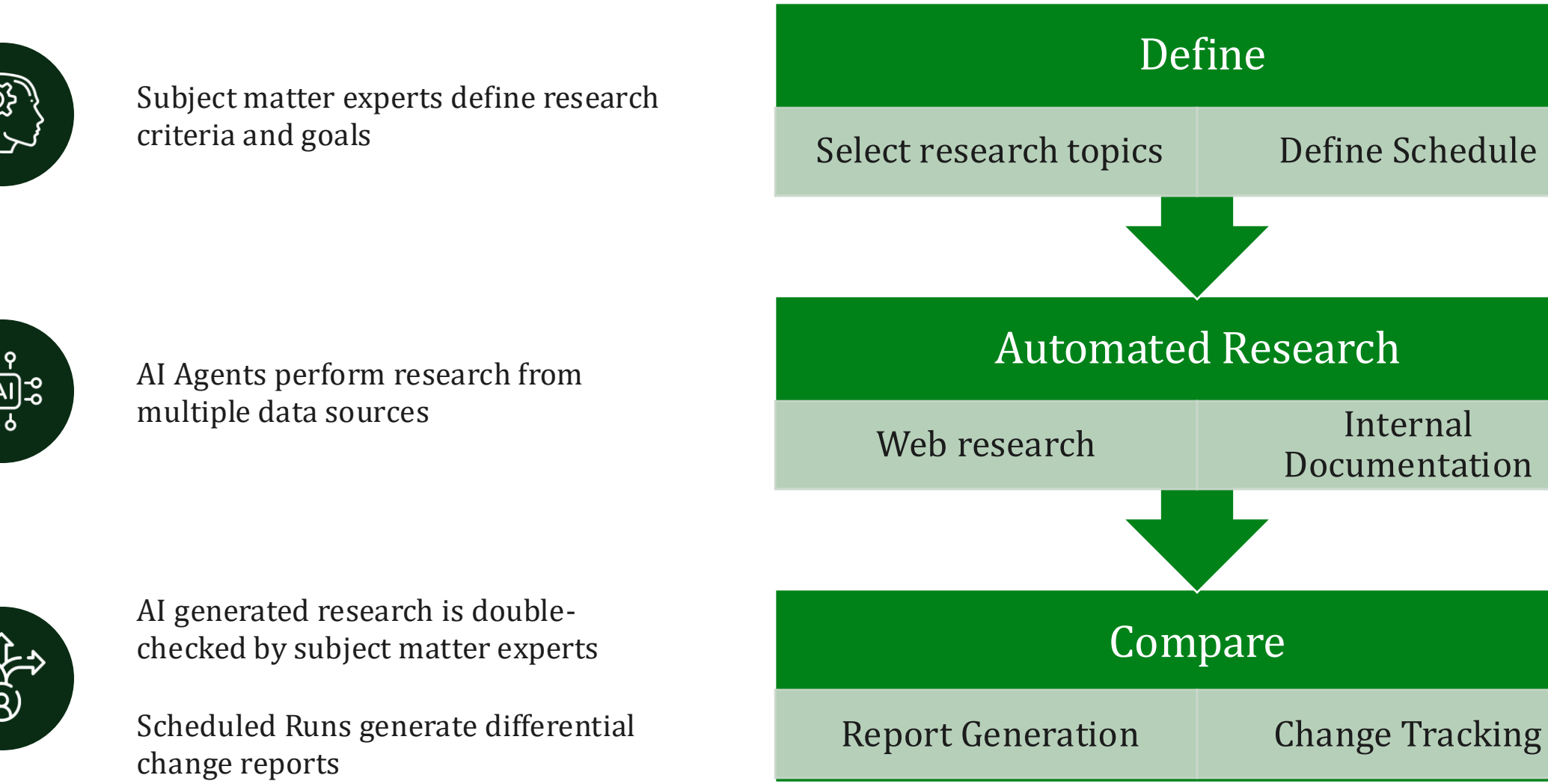
Research topics, monitor changes

Subject matter experts define research criteria and goals

AI Agents perform research from multiple data sources

AI generated research is double-checked by subject matter experts

Scheduled Runs generate differential change reports



Automating Standardized Research Questionnaire

to determine a company's decarbonization maturity

Consolidated Research | Bullet Points | Sources

Example Company: Disney

Section	Subsection	Metric	AI Prompt	AI Answers	AI Bullet Points	AI Sources
Maturity in Decarb Journey	Climate Transition Plan	The company has stated climate or sustainability targets that it will seek to align with	Does CLIENT's customers have specific climate targets they need to achieve?	Disney itself has established ambitious environmental goals, aligning with global climate initiatives such as achieving net-zero greenhouse gas emissions from its operations (Scope 1 and 2) and working on reducing Scope 3 emissions in line with the "well below 2°C" scenario by 2030 ([Hotel Management Network](https://www.hotelmanagement-network.com/data-insights/walt-disney-net-zero-targets/), [Disney Environmental Goals](https://impact.disney.com/environmental-sustainability/environmental-goals/)). Disney's climate policy primarily affects its own operations and product lines through responsible sourcing of materials like forest products, plastics,	- Disney aims for net-zero greenhouse gas emissions for Scope 1 and 2, and a significant reduction in Scope 3 emissions by 2030 ([Hotel Management Network](https://www.hotelmanagement-network.com/data-insights/walt-disney-net-zero-targets/)). - The company focuses on reducing the environmental impact of its products by responsibly sourcing materials like forest products, plastics, and textiles ([Disney Environmental Goals](https://impact.disney.com/environmental-	https://www.hotelmanagement-network.com/data-insights/walt-disney-net-zero-targets/ https://thewaltdisneycompany.com/the-walt-disney-company-sets-2030-environmental-goals-2/ https://impact.disney.com/environmental-sustainability/environmental-goals/ https://thewaltdisneycompany.com/app/uploads/2025/05/2024-SSI-Report.pdf
Maturity in Decarb Journey	Climate Transition Plan	The client is an an industry or region with high risks from claimte change	Is CLIENT in an industry or region that is highly vulnerable to risks from climate change?	The Walt Disney Company, known for its extensive theme parks and entertainment operations, faces significant risks from climate change due to its industry and regional presence. Disney	- Disney's theme parks are vulnerable to climate change, particularly the risks posed by extreme weather in regions like Orlando, Florida	https://climatecheck.com/florida/orlando https://insidethemagic.net/2023/07/climate-change-severely-impacting-disney-theme-park-attendance-cm1/
Maturity in Decarb Journey	Climate Transition Plan	Their plans are aligned with the required reporting frameworks in their regions	Are CLIENT's climate transition plans aligned with any of the following: CSRD, CBAM, CSDDD, TPT, or California Climate Disclosure Rules?	Disney has been examining its alignment with multiple frameworks aimed at enforcing climate transition plans. Here's a summary of how Disney's climate transition plans align or do not	- **CSRD Alignment:** Requires strategic roadmaps for emission reductions. Disney may align if they adhere to CSRD guidelines	https://www.sweep.net/blog/climate-transition-plans-under-the-csrd https://www.sustainable-markets.com/2024/12/03/looking-
Maturity in Decarb Journey	Investor Grade Decarb Plan	They have set clear near-term targets for emissions reduction	What are CLIENT's climate targets?	The Walt Disney Company has laid out substantial environmental targets as part of its commitment to sustainability and reducing carbon emissions. A central part of	- Disney aims for net zero greenhouse gas (GHG) emissions in direct operations (Scope 1 and 2) since 2009 ([Disney	https://impact.disney.com/environmental-sustainability/environmental-goals/ https://sustainabilityreports.com/reports/walt-disney-company-
Maturity in Decarb Journey	Investor Grade Decarb Plan	They have set net zero targets	What are CLIENT's climate targets?	The Walt Disney Company has committed to a comprehensive set of climate and sustainability goals with major milestones set for 2030. These goals focus on five key areas: greenhouse gas	- Disney's climate strategy aims for net zero greenhouse gas emissions from direct operations by 2030	https://impact.disney.com/environmental-sustainability/environmental-goals/ https://blooloop.com/theme-park/in-depth/disney-
Maturity in Decarb Journey	Investor Grade Decarb Plan	Emissions reduction targets are as or more ambitious than their competitors	How do CLIENT's targets compare to their competitors' targets?	Disney's targets for 2025 focus on various aspects including stock price forecast and strategic goals. According to analysts, Disney's average stock price target is set around $123.96 with a potential	- Disney's stock price target for 2025 is $123.96, indicating a 4.38% upside ([MarketBeat](https://www.marketbeat.com/stocks/	https://www.marketbeat.com/stocks/NYSE/DIS/forecast/ https://www.marketbeat.com/stocks/NYSE/DIS/competitors-and-alternatives/
Maturity in Decarb Journey	Investor Grade Decarb Plan	There are few gaps in their decarbonization strategy	Based on CLIENT's sustainability report what is CLIENT's decarbonization strategy?	Disney has laid out a comprehensive decarbonization strategy as part of its broader sustainability goals. A key component of Disney's strategy is its commitment to achieving net zero	- Disney aims for net zero greenhouse gas emissions from direct operations (Scope 1 and 2) ([Disney Impact](https://impact.disney.com/environmental-	https://impact.disney.com/environmental-sustainability/environmental-goals/ https://www.tayloredtripsblog.com/disney-and-sustainability-
Maturity in Decarb Journey	Investor Grade Decarb Plan	Current lineup of solutions leverages best options currently available in the market	Internal Analysis	Internal analysis is a vital process undertaken by organizations to evaluate the components within their boundaries in order to identify strengths, weaknesses, and areas for improvement.	- Internal analysis helps identify a company's strengths, weaknesses, assets, opportunities, and potential threats with tools like SWOT	https://www.zippia.com/advice/internal-analysis/ https://www.questionpro.com/blog/internal-analysis/ https://www.studocu.com/en-
Maturity in Decarb Journey	Investor Grade Decarb Plan	There is a clear lineup of initiatives to achieve targets	Based on CLIENT's sustainability reports, is there a clear lineup of initiatives to achieve their targets?	Disney has outlined a range of initiatives as part of their sustainability and corporate social responsibility strategies for 2025, with a focus on achieving clear environmental and social	- Disney's ESG Reporting highlights initiatives in animal welfare, community, health and safety, inclusion, and supply chain ([Disney	https://impact.disney.com/esg-reporting/ https://www.tayloredtripsblog.com/disney-and-sustainability-how-the-parks-are-going-green/
				As of 2025, Disney is actively pursuing its climate targets and	- Disney targets a 46.2% reduction in Scope 1 and	https://www.hotelmanagement-network.com/data-

15 Hours per company reduced to 5 minutes

Saving 30-45 hours monthly for a one time 20-hour investment

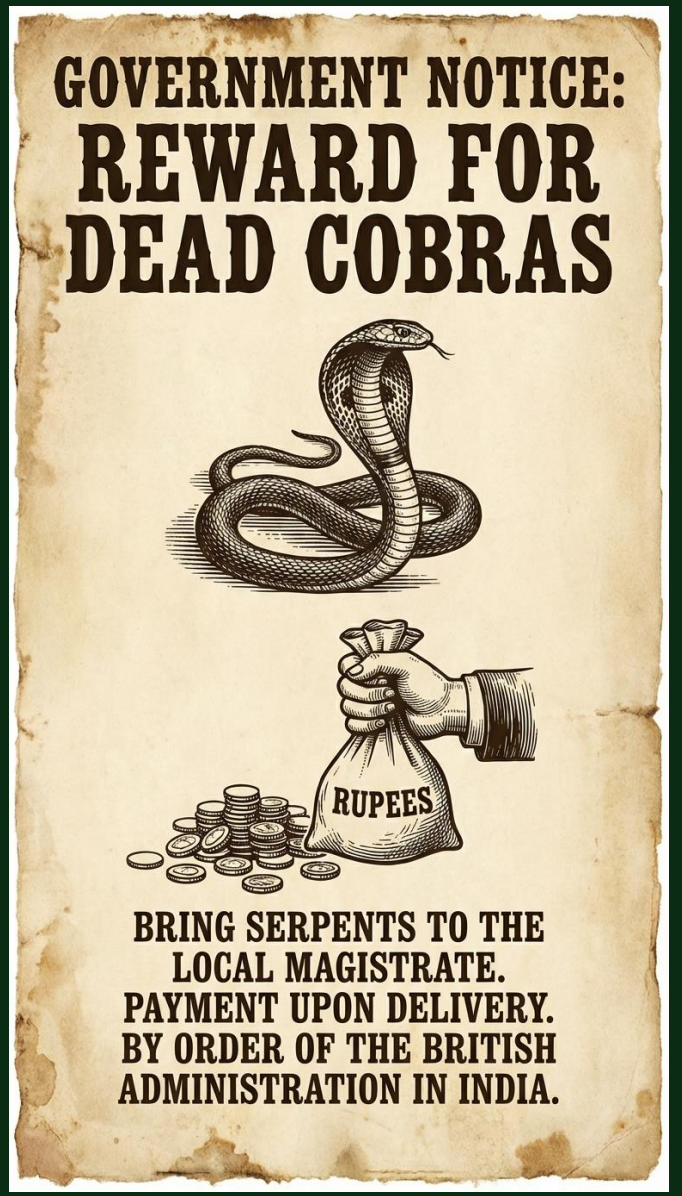
Seeing the future

Problem:

We've made changes that have unintended or unanticipated consequences

Examples:

- Safety guidelines
- New project proposals
- Software upgrades
- Changing shift hours



Looking for past unexpected consequences

Designed a custom model to look for correlation between changes and undesired effects.

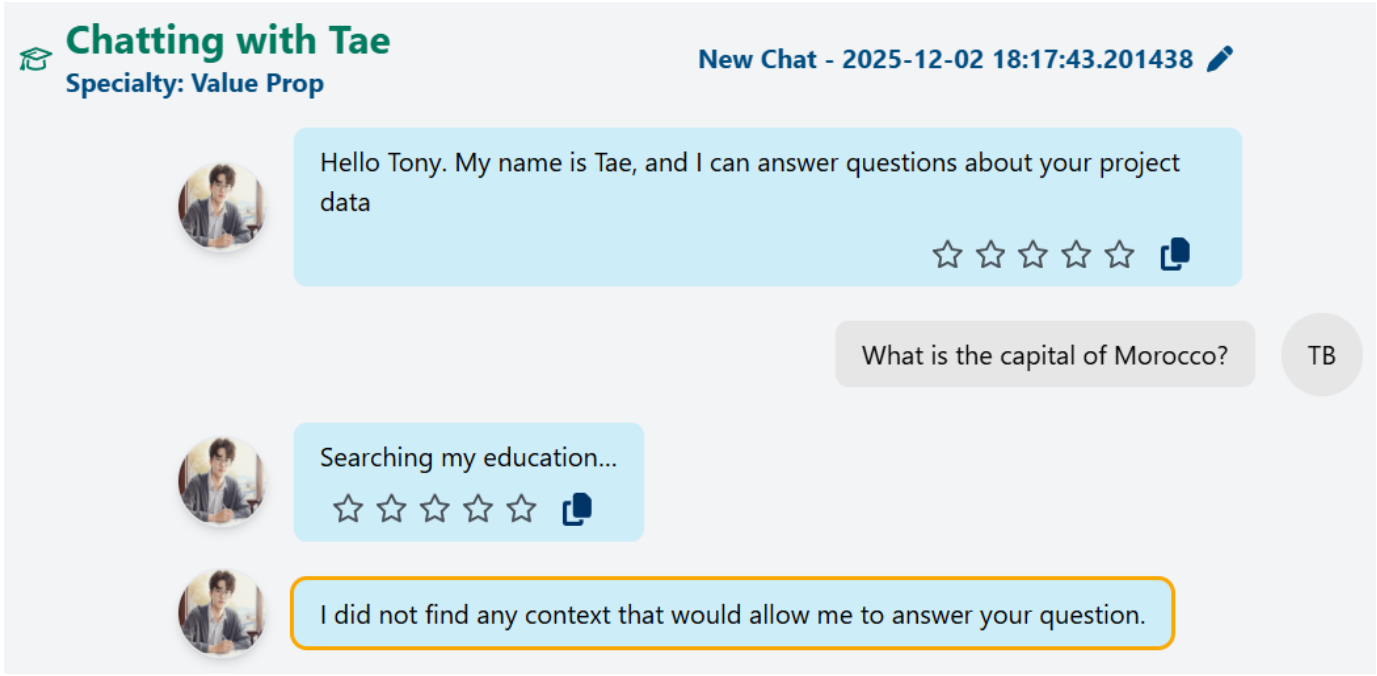
When a new change is proposed, the model is consulted to find similar types of changes and effects of the changes.

Allows us to remember history in detail and not repeat past mistakes.

Establishing Trust

Don’t take the answer at face value.

- Require sources
- Require human approval on any AI generated content
- Establish standard tests and verify against known good results
- Encourage “I don’t know” answers from your AI vendor



To infinity and beyond?

Past — A curiosity

- Simple but amazing conversational proof of concept
- Often wrong – Sometimes hilarious, sometimes terrifying

Present — Cautious Optimism – Growing Trust

- Trained on a large set of data for a one-size-fits-all solution
- Summarization, rewriting, suggestions
- Repetitive action automation

Future — Complex decision making, more human

- Teams of AI agents working together, each with a focus, expertise and rules
- Data available in real-time across multiple disciplines and sources
- Expectations of AI accelerated processes

Thank you

Question & Answers
with the panel