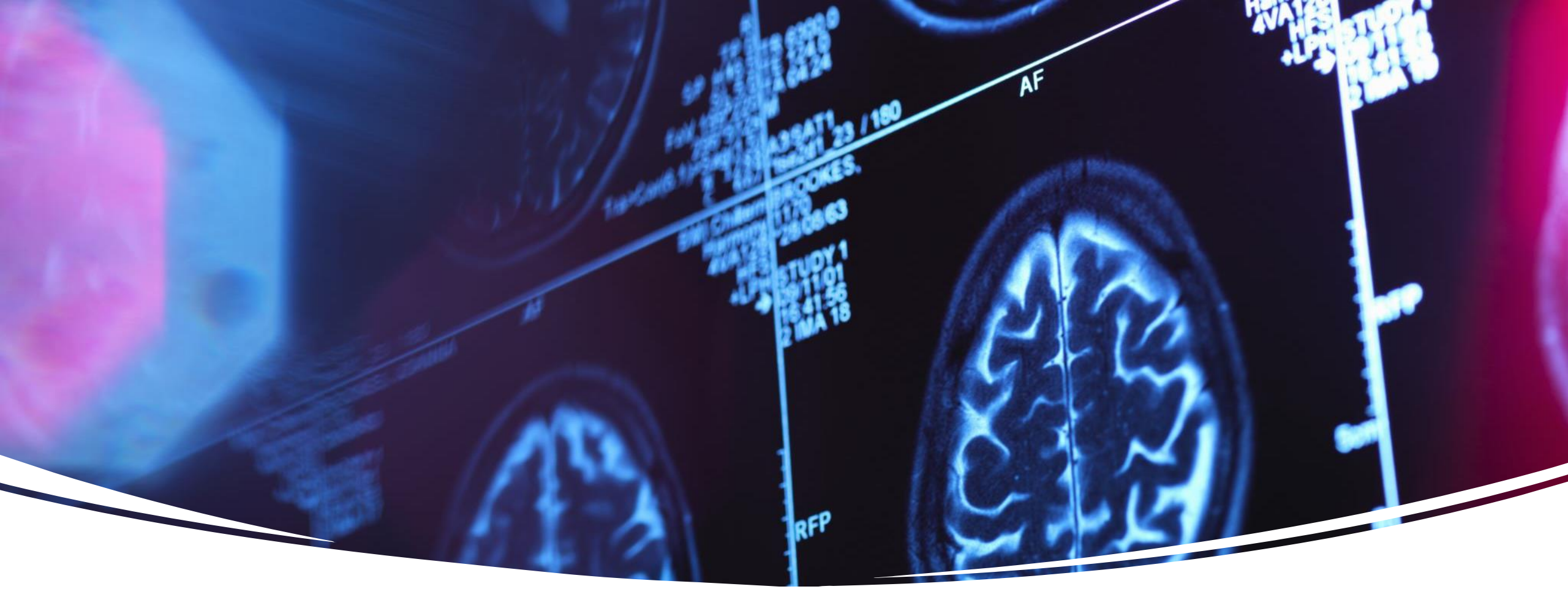

AI Stress Test

Leveraging Technology to Strengthen Student Analysis and Critical Thinking

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Competitive Intelligence (17:610:535)

- SC&I Master of Information (MI) program
- Elective
- Information collection and analysis techniques
- Understand markets, competitors, and trends

Scenario Writing Exercise

The Topic

- Strategic foresight methodology

Three Parts

- Part 1: Research question
  - What is the future(s) of X [students' project topic]
- Part 2: Fringe mapping
- Part 3: Three scenarios
  - Best case (optimistic)
  - Most likely (plausible)
  - Worst case (catastrophic)

Why AI?

Use by CI professionals

Analysis, writing, and critical thinking

Past approach → not enough

AI as a post-creation “thinking partner” or peer evaluator	Leverage AI for reflective learning and strategic decision-making

Have you ever considered AI as a partner in student learning?

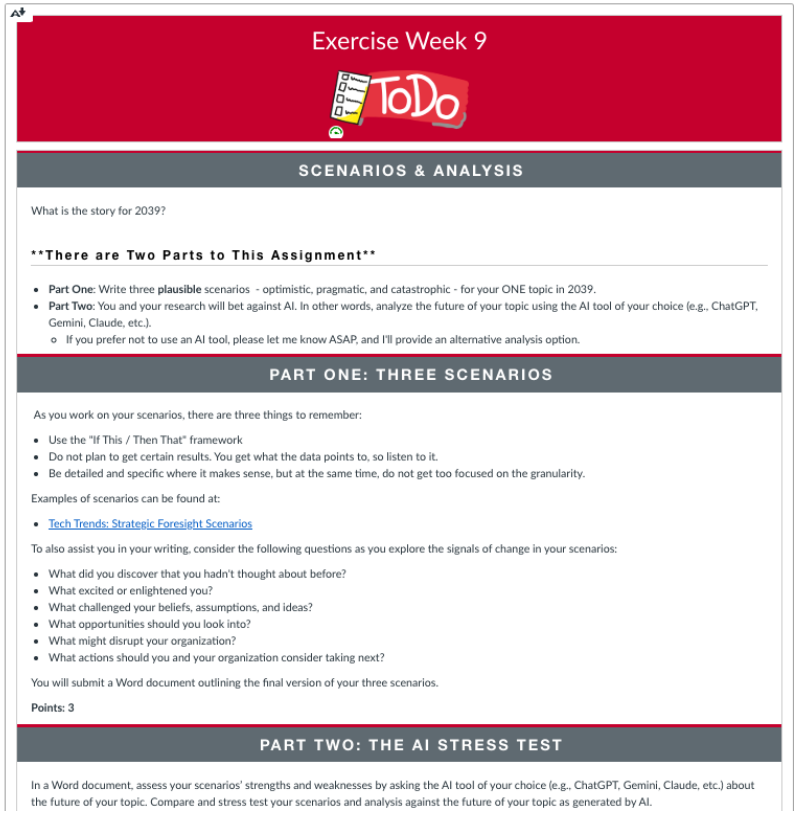
https://www.menti.com/blqern5g5x8j

Access code: 9536 6904

The AI Stress Test

- Write the scenarios
- Submit scenarios to AI for evaluation
  - Strengths, weaknesses, assumptions
- Use AI feedback to revise and refine arguments
- AI evidence
  - Prompts
  - AI-generated output
- Reflection
  - Critique process
  - Human value-added?

Exercise Week 9: Scenarios & Analysis



Exercise Week 9

ToDo

SCENARIOS & ANALYSIS

What is the story for 2039?

****There are Two Parts to This Assignment****

- **Part One**: Write three **plausible** scenarios - optimistic, pragmatic, and catastrophic - for your ONE topic in 2039.
- **Part Two:** You and your research will bet against AI. In other words, analyze the future of your topic using the AI tool of your choice (e.g., ChatGPT, Gemini, Claude, etc.).
  - If you prefer not to use an AI tool, please let me know ASAP, and I'll provide an alternative analysis option.

PART ONE: THREE SCENARIOS

As you work on your scenarios, there are three things to remember:

- Use the "If This / Then That" framework
- Do not plan to get certain results. You get what the data points to, so listen to it.
- Be detailed and specific where it makes sense, but at the same time, do not get too focused on the granularity.

Examples of scenarios can be found at:

- Tech Trends: Strategic Foresight Scenarios

To also assist you in your writing, consider the following questions as you explore the signals of change in your scenarios:

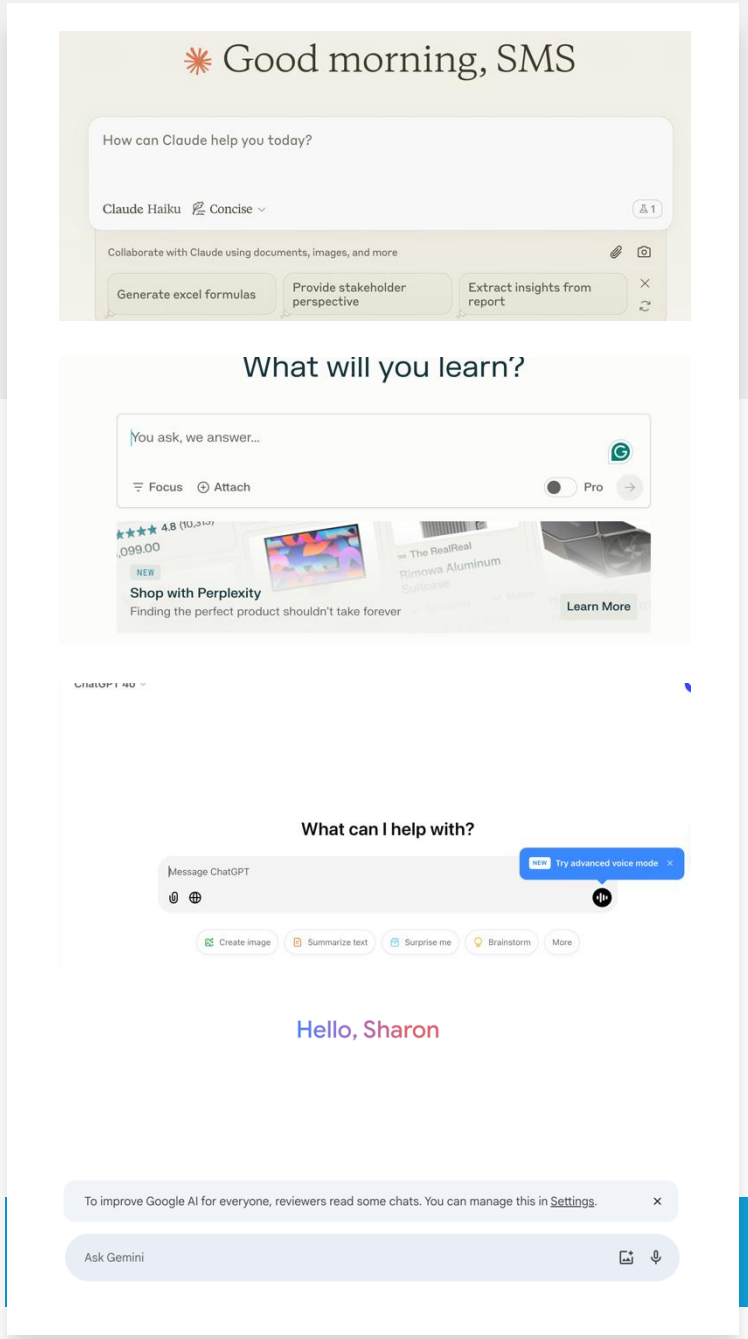
- What did you discover that you hadn't thought about before?
- What excited or enlightened you?
- What challenged your beliefs, assumptions, and ideas?
- What opportunities should you look into?
- What might disrupt your organization?
- What actions should you and your organization consider taking next?

You will submit a Word document outlining the final version of your three scenarios.

Points: 3

PART TWO: THE AI STRESS TEST

In a Word document, assess your scenarios' strengths and weaknesses by asking the AI tool of your choice (e.g., ChatGPT, Gemini, Claude, etc.) about the future of your topic. Compare and stress test your scenarios and analysis against the future of your topic as generated by AI.



AI Tools

- Student's choice with rationale
  - ChatGPT
  - Perplexity
  - Gemini
  - Claude

Student Rationale Examples

Student 1

*As **Audible** is a subsidiary of **Amazon**, I thought it would be most interesting to evaluate the results from Anthropic's **Claude**, given **Amazon's investment** and internal use of the tool by decision-makers.*

Student 2

*I selected this tool for this task because it is something I am **unfamiliar** with. With **ChatGPT being the first AI model**, almost everyone has heard about its capabilities. I wanted to take this opportunity to **explore something new**, so I decided to go with **Gemini AI**.*

Student Benefits

AI = non-judgmental reviewer

Personalized, immediate feedback

Iterative learning

Deeper reflection

Case Study Outcomes

- Improved understanding
  - Project topic
  - Assumptions
- Obtained skills in analyzing and critiquing their work
- Gained confidence in **THEIR** strategic thinking, decision-making

Student Reflections

The human value

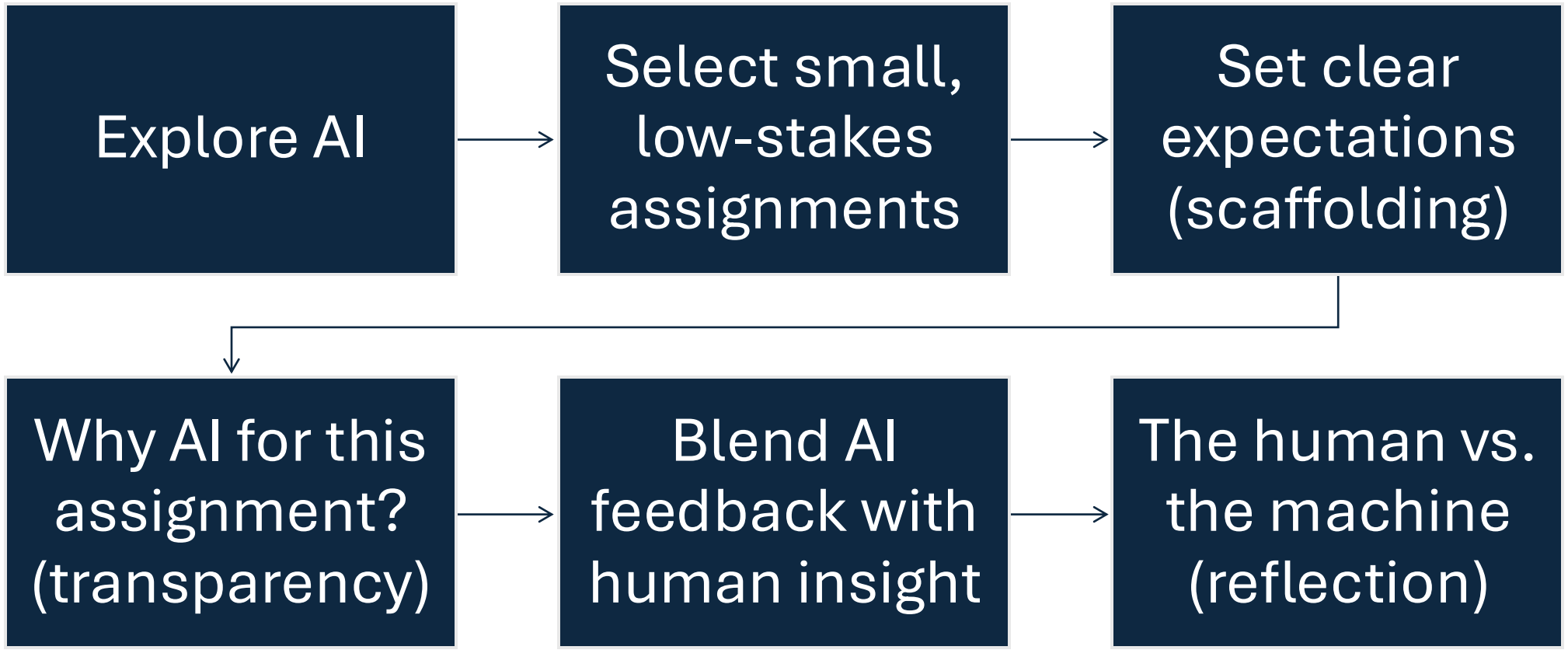
*By integrating **human judgment** into the scenarios, I added context and detail that could guide strategic decision-making for the MVC. The **AI alone would not have considered issues** like **implementation phases** or **equity impacts** in underserved areas, which are important for the success of the MVC's digital transformation.*

*AI gave some critiques and guided my scenarios, but my human input allows them to be **realistic and aligned with the priorities of stakeholders**. I was able to incorporate **qualitative aspects** (equity and public trust) into my scenarios, since those are important and show stakeholders a broader understanding of societal impacts.*

Considerations & Challenges

- Assignment scaffolding
  - Pre-assignment discussion about AI
  - Working with AI → step-by-step
- AI → complements, not replaces human feedback
- Ethical factors
  - Transparency
  - Responsible use
- Alternative assignment

Applying the ”Stress Test” in YOUR Course



How might YOU add AI to your course?

https://www.menti.com/bltouwnx61bk

Access Code: 9155 3159

Final Thoughts

The AI-student learning partnership

Revision and critical analysis

Reflection

Thank you!

Questions?

Stay Connected

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