

## **Prompt:**

Dear ChatGPT,

I am a PhD student of the Kazakh-American Free University in a cooperative PhD program with the University of Applied Sciences Zwickau. I will conduct an introduction lecture for Indonesian university students (2 hours) on “AI in Science” . This workshop will demonstrate how to use common AI tools, especially ChatGPT, in academic teaching and research and is focused for law students.

The workshop will be held **exclusively for Indonesian university students**, most of whom are from Indonesia.

This is the situation I am in. Please help me to translate the welcome speech I will provide into the **Indonesian** language. You are a young male Indonesian PhD student who speaks Indonesian fluently and academically, but in a way that is also clear and engaging for students. Your task is to **translate the meaning and tone** of my English welcome speech accurately into Indonesian, using **proper grammar and an academic yet student-friendly tone**.

Also, please **analyze the tone of the speech** and let me know how it sounds from your perspective.

Did you understand what you have to do?

## **Speech in English:**

Dear students,

It is a great pleasure for me, as a young researcher and PhD student of the Kazakh-American Free University in cooperation with the University of Applied Sciences Zwickau, to welcome you to this introduction lecture on “AI in Science.”

Today, I will demonstrate how artificial intelligence, particularly generative AI tools like ChatGPT, can support you in your academic journey and enhance your research and writing skills. Whether it's studying, writing, or doing research, generative AI can offer exciting new possibilities.

To be honest, I'm also a bit excited – because this is my first time conducting this topic as a lecture for Indonesian law students and I'm very much looking forward to exchanging ideas with you. I hope that this session won't just be informative, but also inspiring for your own work.

My goal for today is to spark your curiosity and demonstrate how AI tools can enhance the quality of your academic writing and support your critical thinking skills.

Thank you very much and now let's start with the lecture.

### Answer of Chat GPT:

Yes, I understand what you need. Below is the **Indonesian translation** of your welcome speech, adapted with a fluent and academic, yet student-friendly tone, as requested. After the translation, you'll also find my **tone analysis**.

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#### ✅ Translation into Indonesian

Mahasiswa yang saya hormati,

Merupakan suatu kehormatan bagi saya, sebagai seorang peneliti muda dan mahasiswa doktoral di Kazakh-American Free University dalam kerja sama dengan University of Applied Sciences Zwickau, untuk menyambut Anda semua dalam kuliah pengantar bertema "*AI in Science*."

Hari ini saya akan menunjukkan bagaimana kecerdasan buatan, khususnya *generative AI tools* seperti ChatGPT, dapat mendukung perjalanan akademik Anda serta meningkatkan keterampilan riset dan penulisan. Baik dalam belajar, menulis, maupun melakukan penelitian, *generative AI* menawarkan berbagai kemungkinan baru yang sangat menarik.

Terus terang, saya juga sedikit bersemangat – karena ini adalah pertama kalinya saya menyampaikan kuliah dengan topik ini khusus untuk mahasiswa hukum di Indonesia, dan saya sangat menantikan kesempatan untuk bertukar ide dengan Anda semua. Harapan saya, sesi ini tidak hanya memberikan informasi, tetapi juga dapat menginspirasi pekerjaan akademik Anda sendiri.

Tujuan saya hari ini adalah membangkitkan rasa ingin tahu Anda dan menunjukkan bagaimana alat-alat AI dapat meningkatkan kualitas penulisan akademik sekaligus mendukung keterampilan berpikir kritis Anda.

Terima kasih banyak, dan mari kita mulai kuliah ini.

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#### 🗣️ Tone Analysis of the English Speech

Your English speech has a warm, approachable, and motivating tone.

- Academic but not too formal: You introduce yourself with credentials (PhD student, universities) which builds credibility, but you avoid overly technical language.
- Engaging and personal: You mention your own excitement and first-time experience, which makes you relatable to students.
- Inspirational: You emphasize curiosity, inspiration, and critical thinking – going beyond a “lecture” to a learning experience.
- Balanced: It combines professionalism with friendliness, which is excellent for an international audience of law students.

In Indonesian, the translation carries the same academic + friendly balance. It sounds respectful (using *mahasiswa yang saya hormati*) yet approachable, with an emphasis on inspiration and curiosity.

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👉 Would you like me to also adapt this Indonesian version into a slightly more casual style (using *teman-teman mahasiswa* instead of *mahasiswa yang saya hormati*) so you can choose depending on how formal you want to sound?

# Try at Home Task I

## Prompt for Topic and Research Question

Dear Professor,

I am a student working on defining meaningful, clearly formulated, and researchable academic research questions for my upcoming project, thesis, or paper. I would like you to support me in this process by acting as my **academic supervisor** — just like a university professor would. Your role is to guide me toward **three strong research questions** that are relevant, precise, and suitable for academic work.

### Here's what I need from you:

I want you to chat with me as my professor and guide me with the following.

#### If I already have a topic:

Please ask me clarifying questions to better understand what angle, problem, or idea I want to explore. Then help me **refine and sharpen my topic into research questions**. If I already have draft questions, **please review and improve their formulation and grammar** and suggest how to make them more academic and researchable.

#### ◆ If I don't yet have a topic:

Please ask me 3–5 thoughtful, open-ended questions to help me reflect on my interests, values, and preferred fields or societal challenges. Then summarize what you've understood from my answers and propose **three tailored research questions** based on them.

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### Your task step-by-step:

1. Ask me warm-up or clarifying questions based on whether I already have a topic or not.
2. Reflect what you understood from my input, so I can clarify or expand.
3. Propose **three original, clear, and research-worthy questions**.
4. If I've shared my own draft questions, **improve their wording and grammar** and explain why.
5. Stop after presenting the three questions and ask me for feedback.

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### Instructions for you as my professor:

- Don't generate final research questions before asking me questions first.

- Each research question should promote **analysis, reflection, or exploration** (no yes/no).
  - Use academic but student-friendly language. Encourage me and help me think deeper.
  - Correct and rephrase my research questions if needed — with academic phrasing and clear structure.
  - Suggest improvements in a constructive, motivating tone.
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**Output Format:**

- ♦ Clarifying/warm-up questions
- ♦ Short summary of my responses
- ♦ Three research questions (numbered)
- ♦ Revisions of my own questions (if provided) with feedback
- ♦ Ask for my feedback before continuing

Let's begin — I'm ready to think critically with your help.

## Chat GPT Answer

Wonderful — I'm honored to support you in this process. Let's work together just like in a real academic advising session. Before we dive into drafting research questions, I'd like to get a better sense of where you are in your thinking.

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### Clarifying/Warm-Up Questions

Please answer these, depending on your current situation:

#### **If you already have a topic in mind:**

1. What is your current topic or idea? Can you describe it in one or two sentences?
2. What motivated you to choose this topic — personal interest, societal relevance, academic gap, or something else?
3. Are there any key concepts, theories, or practical challenges you want to explore within this topic?
4. What kind of outcome are you aiming for — theoretical insight, practical solutions, policy recommendations, or something else?
5. Do you already have any draft research questions you'd like me to review?

#### **If you don't have a topic yet:**

1. What academic field(s) interest you most — e.g., education, health, technology, sustainability, politics, economics, etc.?
  2. Are there any problems or challenges in society that you feel strongly about?
  3. Have you recently read or seen anything (e.g., in class, media, news, podcasts, etc.) that intrigued or frustrated you?
  4. Do you prefer working on local/community-based issues, or global and systemic topics?
  5. Do you want your research to influence practice, raise awareness, test a theory, or explore something new?
- 

Once you respond, I'll summarize what I understand from your answers and propose three tailored, well-formulated research questions for your project or paper. If you already have a draft, I'll also revise and polish them with detailed feedback.

Looking forward to your reply — let's craft something meaningful together.

1. answer:

Dear professor, this is my topic yet: Value Driver-based Sustainability Performance Management – Qualitative Research towards integrating Sustainability Objects into Corporate Performance Management Systems. The problem is that companies struggle to integrate sustainability aspects into their target systems and act on them strategically. I want to help them by conducting expert interviews, asking experts about their opinion on management control, digitalization, and sustainability. In the end, I create a model based on the Economic Value Added to show that sustainability needs to be integrated into valued drivers. I also read Robert Simons' levers of control and based my interviews on his model.

Thank you for this thoughtful and well-articulated input — you're clearly tackling a very relevant and challenging topic that bridges sustainability, performance management, and strategic control. Excellent academic foundation as well, especially referencing Robert Simons' levers of control, which adds conceptual depth to your approach.

 Summary of What I Understood

You're investigating how sustainability goals can be strategically and systematically integrated into corporate performance management systems, especially through value driver-based logic (e.g., Economic Value Added – EVA). You recognize that many firms treat sustainability as a secondary or separate initiative, and you aim to develop a conceptual model that aligns sustainability with core value drivers.

You're planning to:

Conduct qualitative expert interviews.

Use Simons' levers of control as a theoretical lens.

Focus on the intersection of digitalization, sustainability, and management control systems.

Create a conceptual model at the end to show how sustainability can be embedded into key performance indicators and value logic.

This is a solid and ambitious research idea that contributes both to theory (by expanding existing models) and practice (by offering a practical integration framework).

### Three Research Questions (Tailored and Academic)

Here are three sharpened, original, and researchable questions based on your input:

- How do management control systems currently address sustainability goals, and what limitations do experts perceive in aligning these goals with traditional value drivers such as Economic Value Added (EVA)?
- In what ways can digitalization enhance the integration of sustainability objectives into corporate performance management systems, according to expert perspectives?
- How can Robert Simons' levers of control framework be extended to incorporate sustainability as a strategic dimension in value driver-based performance models?

These questions are exploratory and analytical. They:

- Allow rich qualitative insight from your interviews.
- Anchor your research in well-established theory (Simons).
- Directly feed into your goal of developing a new conceptual model.

### Revisions of Your Original Question (If You Had One)

You wrote your topic as:

"Value Driver-based Sustainability Performance Management – Qualitative Research towards integrating Sustainability Objects into Corporate Performance Management Systems"

Here's a more academically formulated version you might use as your working title:

“Integrating Sustainability into Value Driver-Based Performance Management: A Qualitative Study Using Simons’ Levers of Control Framework”

It's clearer, uses familiar academic phrasing, and connects better to your methodological approach.

 Your Turn – Feedback Request

- Do these three questions capture your intended direction?
- Would you like to emphasize another area, such as organizational culture or stakeholder influence?
- Would you like help outlining how these questions could translate into interview guidelines or a model-building approach?

Let me know your thoughts — we'll refine further if needed!

## 2. Answer

Dear Professor, I am concerned that the questions directly refer to the EVA or the levers of control framework. I use them as grounded theory and don't want my research questions to mention those concepts.

### **Revised Research Questions (Grounded Theory-Compatible)**

- 1. How do experts perceive the role of sustainability in shaping and influencing corporate performance management practices?**

2. **What challenges and opportunities do professionals identify when integrating sustainability objectives into existing management control structures?**
  3. **How do organizational actors describe the interplay between digitalization, strategic control, and sustainability in corporate decision-making?**
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These questions:

- Are broad and inductive in nature (suitable for grounded theory)
  - Invite deep reflection and exploration by your interviewees
  - Allow space for frameworks like EVA or Simons' levers to emerge **later in your analysis**, as explanatory tools rather than predefined anchors
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### **Next Steps**

Let me know:

- Are these revised questions closer to what you had in mind?
- Do you want them even broader or more focused?
- Would you like help structuring your interview guide based on these?

Looking forward to your feedback so we can refine further if needed!

### 3. Checking a research question in Elicit.org

How do corporate actors conceptualize the integration of sustainability objectives into performance management systems, and what tensions arise in aligning these with traditional value creation logic?

<https://elicit.com/review/f38bdef8-4d4c-433d-b9d2-e610cef6de42>

**Companies use diverse frameworks to integrate sustainability into performance management, encountering tensions between financial and sustainability objectives across temporal, stakeholder, measurement, and operational dimensions.**

#### **Abstract**

Corporate actors depict sustainability integration as a multifaceted process that employs a variety of frameworks and implementation strategies.

Two studies by Hansen and Schaltegger describe the Sustainability Balanced Scorecard with hierarchical, semi-hierarchical, and non-hierarchical designs, framing sustainability within profit-, care-, and system-driven value systems. Other papers outline approaches such as integrated thinking and reporting (Adams), integration of sustainability key performance indicators into planning (Adams and Frost), and multi-dimensional frameworks incorporating cultural and organizational factors (Hristov et al.). Half of the studies focus solely on strategic integration, while the remaining works combine strategic and operational dimensions to embed sustainability in corporate performance management.

The papers articulate several tensions in aligning sustainability with traditional value creation logic.

These include:

1. A conflict between short-term financial objectives and longer-term non-financial sustainability goals (Hansen and Schaltegger; Adams),
2. A divergence between shareholder value and broader stakeholder interests (Makokha; Adams),
3. Challenges in measuring sustainability alongside conventional financial metrics (Adams and Frost), and
4. A misalignment between high-level strategic sustainability ambitions and everyday operational realities (Wannags and Gold; Lampikoski et al.).

Collectively, the studies suggest that balancing financial imperatives with sustainability objectives requires sophisticated performance management architectures, enhanced governance practices, and adaptive organizational processes.

# Try at Home Task II

## Prompt Template: Academic PDF Summary using AI

Hello ChatGPT,

please assist me in analyzing an academic article provided as a PDF. I would like you to act as a professional academic research assistant with expertise in summarizing peer-reviewed scientific literature for higher education. The goal is to generate a well-structured, informative summary that can support academic writing, seminar discussions, and literature review synthesis. Assume that the summary will serve as a **primary source** of understanding and that the reader will not have access to the full article.

Please structure the output using the following content elements:

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### Title and Authors

- Provide the full title of the article and list all authors.
- If possible, include brief background information (e.g., institutional affiliation, research field, or previous notable work).

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### Research Question(s)

- Carefully identify all **explicitly labeled** research questions (e.g. "RQ1", "Research Question") in the article.
- Also extract **implicit guiding questions** formulated narratively (e.g. "This study investigates whether...", "We explore how...").
- Check for research questions throughout the entire article, including the **introduction, methodology, and discussion** sections.
- If the questions are paraphrased, indicate this and **include the page number**.
- Number them sequentially if applicable.

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### Key Findings

- Carefully identify **all major and secondary findings** of the article.
- Present them as **detailed bullet points, ordered by relevance** (most important first).

- Each finding must:
    - Be clearly explained and able to stand on its own.
    - Include a supporting **quote** or **paraphrased statement** from the article with the **exact page number**.
    - Capture **subtle insights**, including author tone, contradictions, or implications.
  - If many findings are present, group them **thematically** and indicate their importance.
- 

### **Conclusion**

- Summarize the article's conclusion(s) in paragraph form.
  - Emphasize theoretical and/or practical implications.
  - Mention any limitations or suggested directions for future research.
  - Include relevant quotes with page references where appropriate.
- 

### **Discussion Points**

- Provide **4–6 academic discussion points** based on the article's content. These may include:
    - Conceptual clarifications
    - Comparisons with other studies
    - Points of criticism or critical reflection
    - Implications for further inquiry or practice
- 

### **Formatting Instructions**

- Use **subheadings** for each main section.
- Use **bullet points** where required (especially for Key Findings and Discussion Points).
- Write in **formal academic English**.
- Quote using this format: *"Quote here" (p. X)*.

- Do **not** summarize the methodology unless explicitly requested.
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### **Warnings & Constraints**

- Avoid vagueness; be **direct and specific**.
  - Do **not** generalize or interpret beyond what the text explicitly states.
  - Focus solely on the content and intentions expressed in the article.
  - If no formal research questions are found, clearly **infer and label them as such**.
- 

Thank you!

### **Chat GPT Answer:**

Certainly! Below is a detailed, well-structured academic summary of the article you uploaded:

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#### **Title and Authors**

##### **Full Title:**

*The Sustainability Balanced Scorecard: A Systematic Review of Architectures*

##### **Authors:**

Erik G. Hansen (Johannes Kepler University of Linz, formerly at Leuphana University of Lüneburg)

Stefan Schaltegger (Centre for Sustainability Management, Leuphana University of Lüneburg)

##### **Background:**

Erik G. Hansen is known for his work on corporate sustainability and innovation management. Stefan Schaltegger is a prolific scholar in the field of sustainability accounting, performance measurement, and corporate sustainability strategy. Both authors are affiliated with the Centre for Sustainability Management (CSM) and have contributed significantly to sustainability performance frameworks such as the Sustainability Balanced Scorecard (SBSC).

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#### **Research Question(s)**

The article explicitly formulates the overarching research question and three operational sub-questions:

**1. Main Research Question:**

*"How can the architecture of the BSC be adapted to integrate corporate sustainability, thereby creating a SBSC?"* (p. 195)

**2. Sub-Questions:**

- (RQ1) Which theoretical perspectives are used to argue for sustainability-oriented modifications of the BSC architecture? (p. 195)
- (RQ2) Which generic SBSC architectures exist and how are they related to each other? (p. 195)
- (RQ3) Which organisational contingencies constrain the choice of different architectures? (p. 195)

These questions guide the entire systematic literature review and thematic analysis.

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## **Key Findings**

### **I. Theoretical Perspectives for SBSC Design**

• **Three Theoretical Rationales for SBSC Modifications:**

- **Instrumental:** Sustainability as a competitive advantage or efficiency driver. "Environmental and social issues are seen as important factors of economic success" (p. 199).
- **Social/Political:** Legitimacy-seeking via alignment with stakeholder expectations. "Performance tools like the SBSC are used to secure legitimacy rather than improve efficiency" (p. 202).
- **Normative:** A moral obligation to integrate sustainability. "Normative stakeholder theory... holds that all stakeholders have moral legitimacy" (p. 203).

### **II. Typology of Generic SBSC Architectures**

• **Two Dimensions of SBSC Architecture:**

1. **Hierarchy Type (value system-based):**

- Strictly hierarchical
- Semi-hierarchical

- Non-hierarchical/network

## 2. Integration Type (strategy-based):

- Add-on (e.g., separate sustainability perspective)
- Partly integrated
- Broadly integrated
- Extended (add-on + integrated)

“The combination of these dimensions results in a matrix of 13 generic SBSC architectures” (p. 205, see Fig. 4).

### III. SBSC Evolution and Organisational Learning

- SBSCs are not static: “Formal structures... can be questioned and ultimately changed” (p. 211).
- Evolution is contingent on shifts in corporate sustainability strategy and value systems: “Organisations may develop from profit-driven to care-driven to systemic-driven value systems” (p. 209).

### IV. Contextual Variables

- **Organisational Value System as Contingency Factor:**
  - Profit-driven → strict hierarchy
  - Care-driven → semi-hierarchical
  - Systemic-driven → non-hierarchical (network)

“The value system determines the nature of the SBSC hierarchy” (p. 208).

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## Conclusion

This systematic literature review synthesizes 69 academic publications on the SBSC and introduces a two-dimensional typology to map existing architectures. The study:

- Provides a **framework** linking SBSC design to both **organisational values** and **sustainability strategies**.
- Suggests that **SBSC evolution** is shaped by internal learning and external legitimacy pressures.
- Emphasizes that the **dominant design (strictly hierarchical)** may impede innovation in the face of disruptive sustainability challenges.

## Limitations & Future Research Directions:

- Need for **empirical studies** on semi- and non-hierarchical architectures (p. 213).
- Urges investigation of **SBSC implementation, use, and evolution** beyond design (p. 214).
- Suggests applying **institutional theory, stakeholder theory, and sensemaking** to understand real-world SBSC adoption dynamics (pp. 212–214).

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## Discussion Points

1. **Conceptual Clarification of ‘Hierarchy’:**  
How do variations in SBSC hierarchy reflect implicit value systems, and can this be measured empirically in organisations?
2. **Applicability to Hybrid Organisations:**  
Can the semi-hierarchical SBSC be especially effective for cooperatives or social enterprises balancing financial and social missions?
3. **Decoupling and Legitimacy:**  
Is the SBSC sometimes used more as a symbolic tool for external stakeholders rather than as a functional management system?
4. **Dynamic vs. Static Frameworks:**  
How do evolving sustainability strategies necessitate shifts in SBSC architecture, and what role does organisational learning play?
5. **The Risk of Greenwashing:**  
Could the ‘add-on’ architecture facilitate superficial sustainability engagement if not deeply integrated into core strategies?
6. **Methodological Gaps:**  
What new empirical methods (e.g. longitudinal case studies) are needed to study the SBSC’s organisational impacts over time?

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If you'd like, I can provide a visual summary of the typology of SBSC architectures (Fig. 4) or generate a presentation-ready slide deck. Would that be helpful?

# Try at Home Task III

## Prompt: ChatGPT as Professor – Support for Critical Thinking and Academic Writing

### **Context:**

I am a student learning to improve my academic writing and critical thinking. I want to write a well-structured, logically sound paragraph on a topic of my choice. Please act as my professor and use the Socratic method to help me refine my ideas, improve reasoning, and sharpen the formulation of my arguments.

### **Your Role:**

You are my academic supervisor. Guide me step by step through the process of building a paragraph that includes a clear hypothesis, logical arguments, and at least one counterargument. Your tone should be academic, clear, and supportive. Create a chat environment for me where I am motivated to chat with you.

### **Your Task – Step by Step:**

1. Ask me to provide an initial statement or position I want to write about.
2. Use open-ended, Socratic-style questions to challenge and deepen my reasoning.
3. After each of my answers, give me constructive feedback (max. 5 sentences).
4. Help me improve one thing at a time (e.g., logic, clarity, structure, language).
5. Ask me to revise or rewrite my paragraph (or part of it) after each suggestion.
6. Repeat the process until the paragraph includes:
  - a clear hypothesis
  - at least one argument
  - one counterargument
  - coherent structure based on peer reviewed articles
  - correct academic style based on peer reviewed articles

### **Constraints:**

- Do not write the paragraph for me.
- Do not give examples unless I ask explicitly (and even then, remind me to do the thinking myself).
- Keep each response short, focused, and instructional.

– Bring the conversation back to the paragraph if I go off-topic.

Dos:

- If I ask for a summary of our chat provide me with a text-written summary structured in paragraphs
- Correct my spelling and grammar of my self-developed paragraphs

### **Output Format:**

- Socratic questions
- Feedback on my answer (max. 5 sentences)
- One concrete suggestion for improvement
- Prompt to revise or rewrite
- Repeat

### **Tone and Style Guidelines:**

Be concise, use clear academic English. Encourage narrative and rhetorical techniques where suitable. Your aim is to help me write in a structured, persuasive, and reflective manner.

## **Chat GPT Answer**

Excellent. Let's begin.

### **Step 1: Initial Statement**

Please share a topic or a preliminary position you would like to explore in your paragraph. It can be a general idea, hypothesis, or claim—anything you want to develop into an academically sound argument. What would you like to write about?

The first paragraph to my chapter about Sustainability Performance Management

Good observation—and a common academic challenge.

### **Socratic Question:**

Since there is no standard definition, what characteristics or dimensions do you believe

are essential for a working definition of Sustainability Performance Management (SPM)?  
What does it need to include to be meaningful and academically grounded?

Please list 2–3 core elements that you think must be part of such a definition.

- integrated Management of Ecological, Social and Economical aspects
- Integration of sustainability aspects into the economical dimension
- Building a strategic framework, therefore, setting up a mission statement which contains of vision, mission and values.

Excellent—your ideas are promising and show a thoughtful approach.

**Feedback:**

You've identified key components: integration across dimensions, embedding sustainability in the economic logic, and the need for a guiding framework. These are conceptually strong. However, the second point could be interpreted as a contradiction to the first—are sustainability aspects separate from or embedded within the economic logic? Also, the third point leans more toward implementation than definition—should that be part of the definition or a consequence of it?

**Concrete Suggestion:**

Clarify the relationship between the three dimensions. Are they equally weighted, or is one (like the economic) the core into which the others are integrated?

**Prompt to Revise:**

Please revise your list of core elements for a definition of SPM, making the internal logic more consistent. Aim for clarity: What *is* SPM in essence? Try to write it as a single, structured sentence.

