

# AI Accelerator // Whitepaper

## High-level whitepaper structure:

- The Kent program's goals
  - The epistemological shift (representational → constructivist knowledge)
  - The economic shift (knowledge economy → innovation economy)
  - References (Polanyi, Brynjolfsson, Blaise Agüera y Arcas).
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## Whitepaper Structure: The AI Accelerator – Shaping the Future of Work & Value Creation

### 1. Executive Summary

- One-page synthesis of the challenge and opportunity.
  - Why AI transformation requires a new way of thinking about knowledge, value, and human-machine collaboration.
  - The role of the AI Accelerator at University of Kent as a catalyst for academia-business partnerships.
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### 2. Introduction: The Age of Constructive Intelligence

- Context: AI as more than a technological upgrade — a paradigm shift in how intelligence is understood.
  - From representational epistemology (knowledge as “mirror of reality”) to constructivist epistemology (knowledge as dynamic, co-created).
  - Implications: We are moving from a **Knowledge Economy** to an **Innovation Economy**, driven by **human–AI co-intelligence**.
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## 3. Rethinking Intelligence and Value Creation

- **Intelligence just changed** (Jonathan Boymal's argument).
  - Socially & technically distributed intelligence (Guardian piece).
  - Tacit knowledge and Polanyi: what humans uniquely bring into the co-intelligence equation.
  - Biological systems vs. AI: lessons from evolutionary intelligence.
  - Towards **constructive, distributed reasoning**: knowledge as process, not product.
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## 4. The New AI Economy: From Knowledge to Innovation

- Brynjolfsson's AI Transformation Research Agenda — productivity, complementarities, and organizational redesign.
  - The role of AI in shifting business models from efficiency/knowledge storage → innovation/knowledge creation.
  - Changing value chains: where and how innovation emerges in AI-enabled ecosystems.
  - Implications for labor, work design, and organizational culture.
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## 5. Human–AI Symbiosis: Beyond Tools to Partners

- Revisiting *Man-Computer Symbiosis* (J.C.R. Licklider).
- Human judgment + machine scalability = new innovation paradigms.
- Case examples: co-creative design, data-driven innovation, knowledge construction in real-time.
- What corporate leaders need to understand about **symbiotic intelligence**.

## 6. The Role of Academia and Corporate Partners

- Academia: provides epistemological depth — helping to reframe how we understand intelligence and learning.
- Corporate partners: provide economic and organizational testbeds — real-world contexts where transformation happens.
- AI Accelerator at Kent as the **bridge** between the two:
  - Building co-intelligence sandboxes.
  - Running collaborative projects.
  - Developing leadership, resilience, and innovation mindsets.

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## 7. The AI Accelerator Program: Structure and Value

- Overview of the program (modules, design, goals).
  - How it addresses both epistemological and economic transformation.
  - Key benefits for corporate partners:
    - Early access to insights and talent.
    - Opportunities to shape and pilot transformative applications.
    - Co-developing practices for thriving in the Innovation Economy.
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## 8. Why Corporate Partners Should Join

- The **strategic imperative**: Preparing for fundamental shifts in work and value creation.
  - The **innovation opportunity**: Access to new models of human–AI co-intelligence.
  - The **global platform**: Positioning companies at the forefront of the international AI transformation.
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## 9. Call to Action

- Invitation to join the AI Accelerator network.
  - Outline of partnership models (research collaborations, executive education, project sponsorship, innovation pilots).
  - Contact details.
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## 10. Appendix / References

- Core references: Brynjolfsson, Polanyi, Licklider, Boymal, Guardian piece on distributed intelligence, etc.
  - Links to University of Kent AI Accelerator website and corporate engagement material.
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**Thought-provoking yet practical arc:** from epistemological revolution → economic transformation → program as the solution → invitation to partner.

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## Resources:

Intelligence just changed: Jonathan Boymal post // <https://whatisintelligence.antikythera.org/https://www.linkedin.com/feed/update/urn:li:activity:7378997300913897472/>

Socially & technically distributed intelligence:  
<https://www.theguardian.com/technology/article/2024/jul/03/ai-human-intelligence>

AI Transformation Research Agenda from Eric Brynjolfsson:  
[https://www.nber.org/system/files/working\\_papers/w34256/w34256.pdf](https://www.nber.org/system/files/working_papers/w34256/w34256.pdf)

Tacit Knowledge / Michael Polanyi:  
[https://en.wikipedia.org/wiki/Michael\\_Polanyi](https://en.wikipedia.org/wiki/Michael_Polanyi)

Man-Computer Symbiosis:  
[https://en.wikipedia.org/wiki/Man%E2%80%93Computer\\_Symbiosis](https://en.wikipedia.org/wiki/Man%E2%80%93Computer_Symbiosis)

Are Biological Systems More Intelligent Than  
Artificial Intelligence?  
<https://arxiv.org/abs/2405.02325>