

# The core strategy and key signals in education transformation for AI-era talent development in Korea

The rapid advancement of artificial intelligence (AI) is bringing profound changes across our society. However, questions arise about whether the Korean education system, at the heart of these changes, is effectively nurturing the talent needed for the future. Traditional education focused on memorization and exam-centered learning risks losing competitiveness in an era where AI surpasses human intelligence. Therefore, finding educational directions and strategies for developing future talent suitable for the AI era has become an urgent task.

AI has evolved beyond a simple tool to a stage where it analyzes individual habits and preferences, processes multimodal data, and multiple AI agents collaborate to perform complex tasks. This "agentic AI" offers personalized services and is expected to build an ecosystem where AI agents communicate and cooperate with each other. In this process, the importance of AI's core resources—memory and electricity—is highlighted, and the scope of AI replacing human roles is gradually expanding. AI demands fundamental changes not only in technology but also in social structures, labor markets, and education systems.

Especially when AI reaches the stages of Artificial General Intelligence (AGI) and Artificial Super Intelligence (ASI), surpassing human intelligence, fundamental changes in human labor and decision-making structures are expected. Education must shift from mere knowledge transfer to fostering uniquely human abilities that differentiate us from AI, such as creativity, collaboration, and logical thinking. The importance of math education is being reemphasized for nurturing talent fit for the AI era, with growing calls for math education focused on conceptual understanding and logical discussion rather than rote memorization. This is essential to strengthen the unique thinking skills humans need in a world where AI excels at calculation and information processing.

The nature of work is also changing alongside AI development. Simple repetitive tasks are being replaced by AI and robots, while humans focus more on planning, management, and strategy, emphasizing managerial roles. However, this shift may reduce roles for new employees and cause shortages of experienced workers, and ultimately, even managerial roles could be replaced by AI.

Therefore, long-term talent development strategies and retraining systems across education and society are essential. These efforts should focus not just on acquiring technical skills but on building the capacity to adapt to changing social environments and continue growing.

Physical AI, such as robotics, still faces technical challenges and safety issues that make full replacement difficult. Problems like precise motor control, battery limitations, and legal responsibilities arising from human-robot coexistence remain to be solved. Alongside this, regulatory measures such as limiting memory capacity are being discussed to ensure fair competition between AI and humans. Considering the impact of AI's unlimited replication and resource use on human society, controlling electricity supply and memory usage will be critical issues for future society. These regulations and technical limitations will play important roles in guiding the direction and pace of AI development.

In this way, the AI era demands fundamental changes across education, labor, and social structures. Innovation is needed to prevent existing education methods and social systems from falling behind in competition with AI, enabling coexistence with AI and the creation of new opportunities. Looking ahead to a future dominated by AI, various experts interpret its direction and key elements from different perspectives. Comparing their views offers insights into what lies at the core of AI development and how it will impact society and industry.

The table below summarizes the key perspectives and interpretation points of three prominent AI experts: Sam Altman, Peter Thiel, and Marc Andreessen. Their views provide diverse insights into how AI will transform future society, emphasizing the importance of balanced development not only in technical maturity but also in social and economic contexts.

| Expert      | Key Perspective  | Keywords                                 | Interpretation Points   |
|-------------|--|--|---|
| Sam Altman  | AI is a tool to extend human capabilities, with memory and computational power as core elements. | Scalability, Memory, Computational Power | He emphasizes that while AI can surpass human limits, it should develop in ways that cooperate with humans. |
| Peter Thiel | AI development brings  | Innovation, Monopoly,                    | He warns that   |

|                 |   |   |  |
|-----------------|---|---|--|
|                 | issues of innovation and monopoly, making regulation and ethical control crucial.   | Regulation  | technological progress could deepen social inequality and power concentration, calling for cautious approaches.          |
| Marc Andreessen | AI maximizes productivity across industries and creates new economic opportunities. | Productivity, Economic Opportunity, Industrial Innovation | He highlights AI's positive role in transforming existing industries and expanding startup and investment opportunities. |

Synthesizing these experts' views reveals that for AI to become a central force in future society, balanced development in technical, social, and economic contexts is essential. AI's memory and computational power form the foundation of technological progress, but managing the social impacts and economic opportunities brought by innovation is key to future competitiveness. Ethical issues and the need for regulation arising from AI replacing human roles remain critical challenges alongside technological advancement. Future industries and education must move toward complementary cooperation between AI and humans, with AI-driven productivity improvements and personalized services leading to new business models and job creation. Education should focus on enhancing creativity, logical thinking, and collaboration, while understanding and leveraging the cooperative structure of diverse agents within the AI ecosystem will become an important competitive advantage.

Now, ask yourself: How well does your current learning and work style fit a future society that collaborates with AI, and what areas need improvement? If you want to deepen your understanding of education and social changes in preparation for the AI era, please review the PDF summary of the key points covered here. It will help you quickly grasp important trends and provide practical support for your future readiness.

This content is an informational document reconstructed from various materials.

Investment decisions are your own responsibility, and this material is provided for reference only.

© 2026 Aquila Insight. All rights reserved.

Unauthorized reproduction and redistribution are prohibited.

AQUILA INSIGHT