



Embracing the Future: Redefining Quality Assurance in Higher Education Amidst AI Transformation

'I think [2024 AI] is under-hyped, not over-hyped. The arrival of intelligence of a non-human form is really a big deal for the world.'

— Dr Eric Schmidt, former Google CEO, board of Apple, Princeton, Mayo... (May 2024)

Gaidi Faraj, Dean of Academics

at the American Institute of Applied Sciences in Switzerland

AI and Education: A Transformative Force

1

Catalyst for Change

AI is revolutionizing education, pushing boundaries beyond traditional learning models. It's reshaping how we teach, learn, and assess knowledge.

2

Rapid Development

The pace of AI advancement is unprecedented. New applications emerge daily, challenging our adaptability in education.

3

Societal Impact

AI's influence extends beyond classrooms, affecting job markets and skill requirements. Education must evolve to prepare students for this new reality.



Why Higher Education Needs to Change

Outdated Models

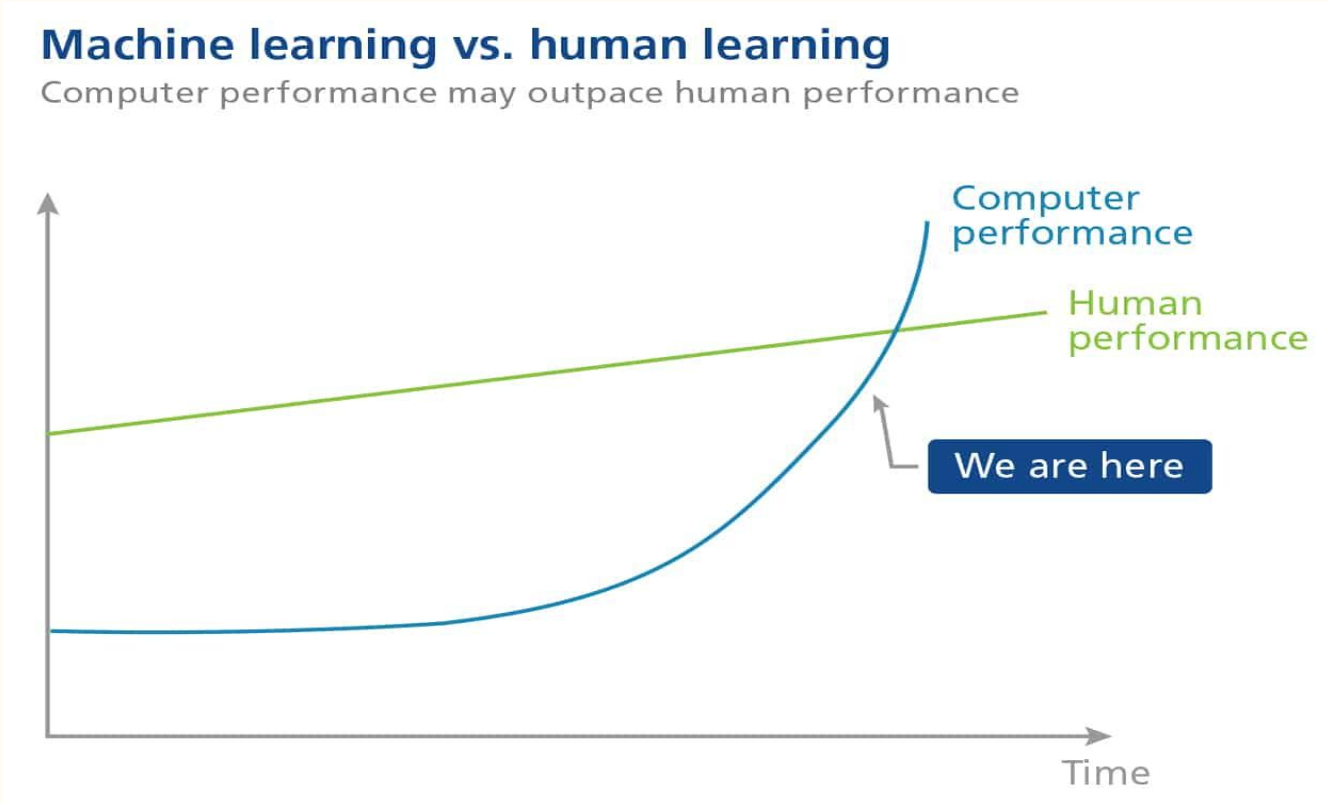
Traditional education systems struggle to keep pace with technological advancements. Rote learning is becoming obsolete in the age of instant information access.

Evolving Demands

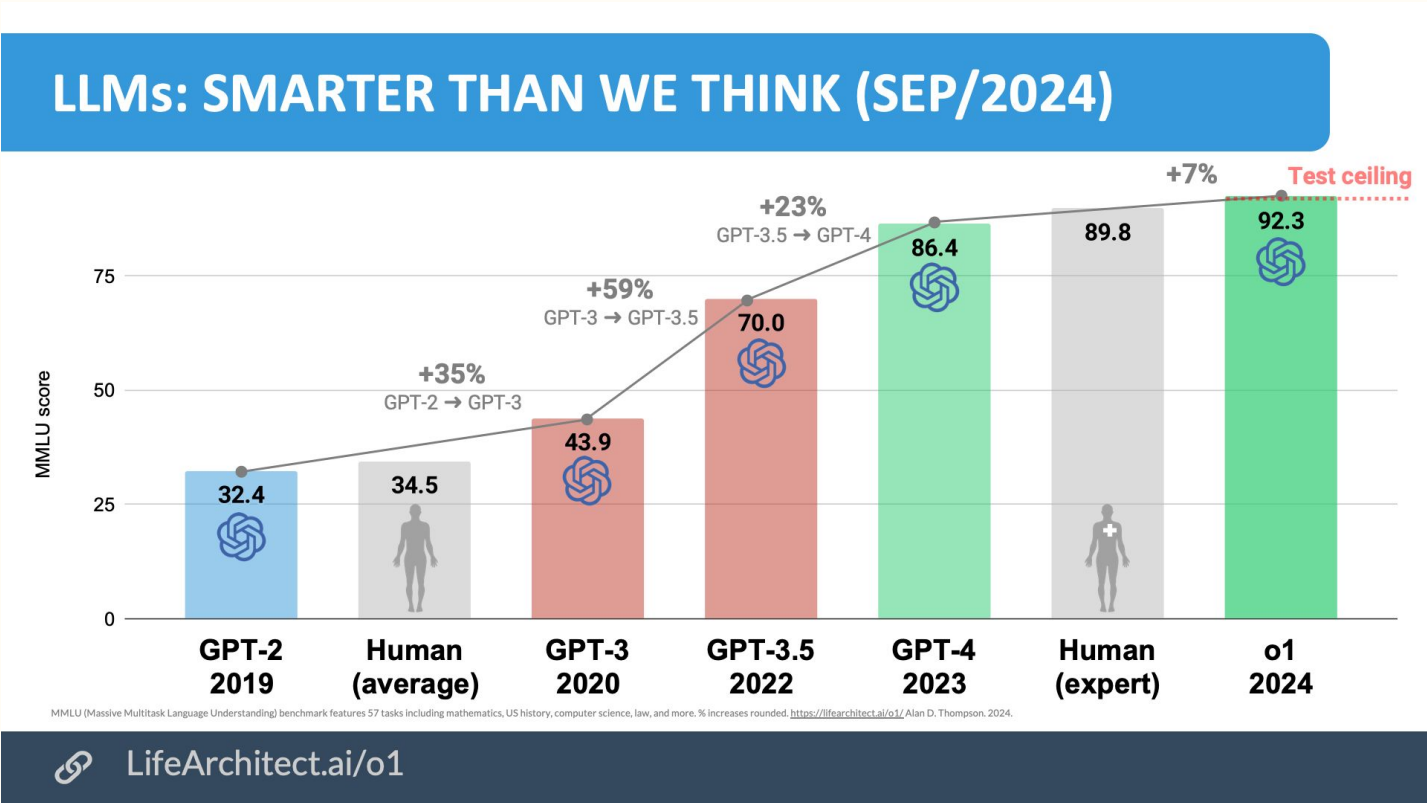
The job market craves adaptable, tech-savvy graduates. Employers seek skills that many current curricula fail to provide.

AI's Influence

AI tools are pushing education towards personalization and efficiency. Institutions must integrate AI to remain relevant and effective.



https://info.4imprint.com/wp-content/uploads/P1-4imprint_ArtificialIntelligence_BPGraphic2.jpg



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Outdated Models

Evolving Demands

AI's Influence

Swiss AI Initiative

Infrastructure

Research

Steering Committee

Researchers

Leveraging the world's most AI-capable supercomputer

Alps by the National Supercomputing Center (CSCS) is the world's first national research infrastructure with over 10,000 GPUs of the new NVIDIA Grace Hopper superchip.



NVIDIA Ethernet Networking Accelerates World's Largest AI Supercomputer, Built by xAI

NVIDIA Spectrum-X Makes Colossal NVIDIA Hopper 100,000-GPU System Possible

NVIDIA today announced that xAI's Colossus supercomputer cluster comprising 100,000 NVIDIA Hopper GPUs in Memphis, Tennessee, achieved this massive scale by using the NVIDIA [Spectrum-X](#)™ Ethernet networking platform... Colossus, the world's largest AI supercomputer, is being used to train xAI's Grok family of large language models, with chatbots offered as a feature for X Premium subscribers. xAI is in the process of doubling the size of Colossus to a combined total of 200,000 [NVIDIA Hopper GPUs](#).

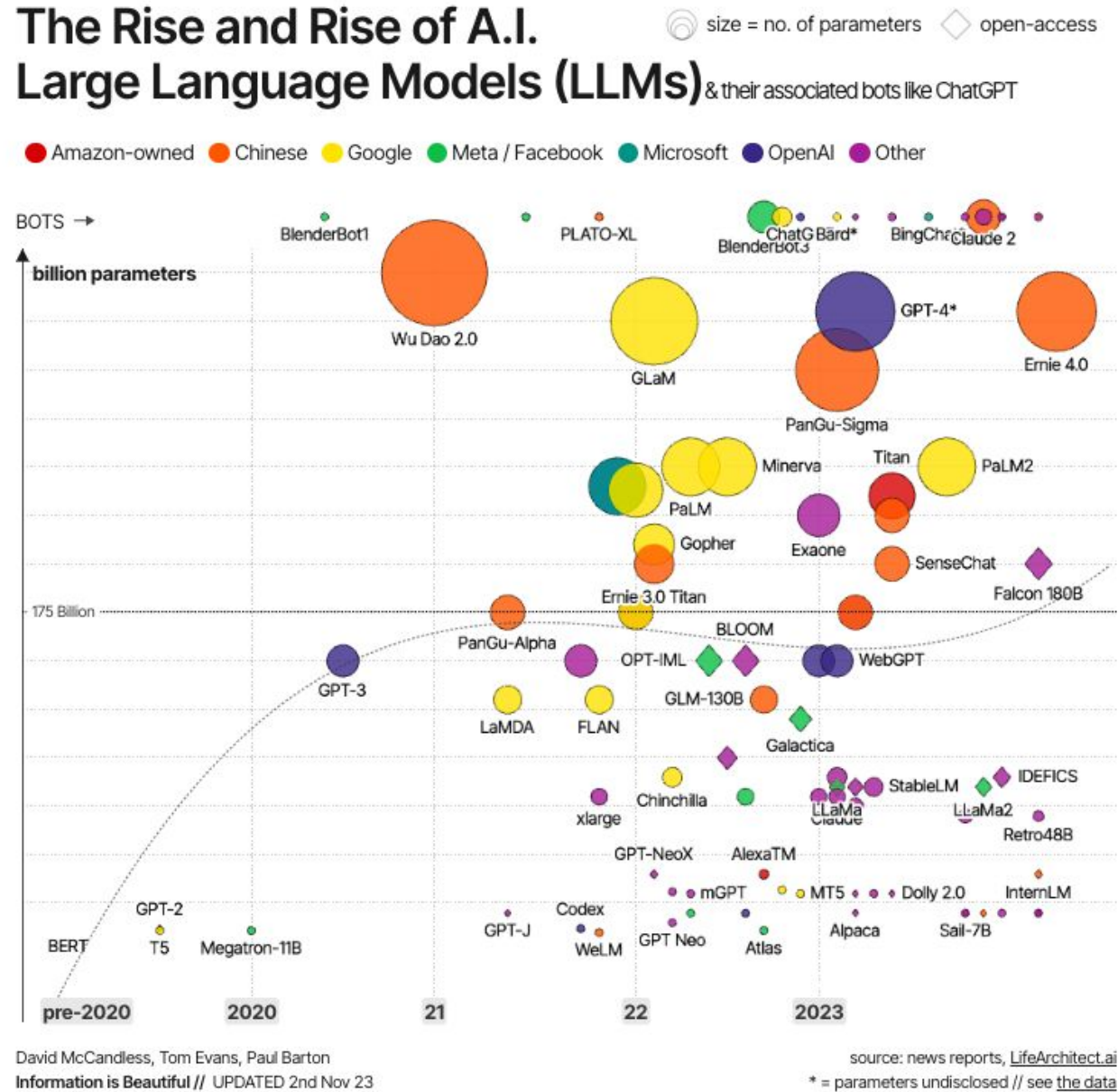
The supporting facility and state-of-the-art supercomputer was built by xAI and NVIDIA in just 122 days, instead of the typical timeframe for systems of this size that can take many months to years. It took 19 days from the time the first rack rolled onto the floor until training began.

Why Higher Education Needs to Change

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AI's Influence

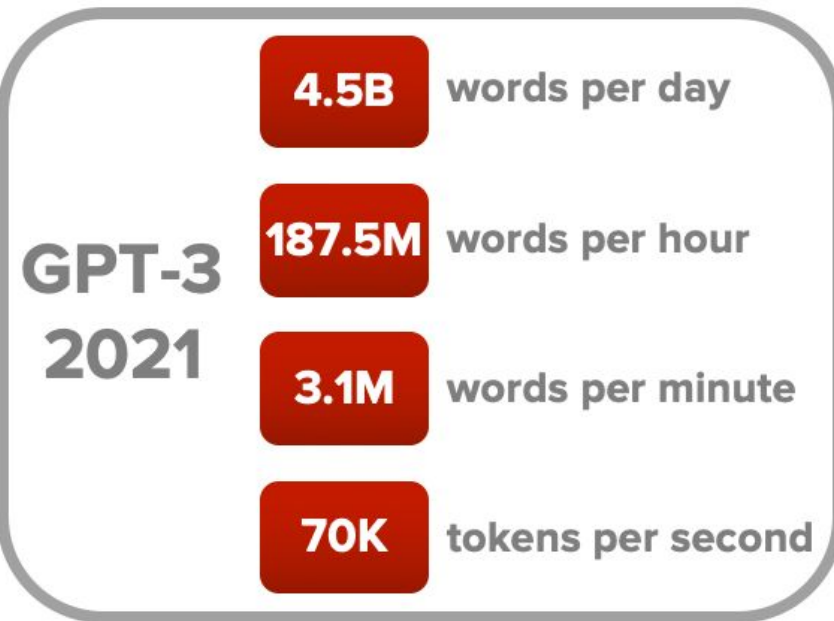


<https://lifearchitect.ai/the-sky-is-quickenig/>

At the beginning of this year, OpenAI's COO said that 2024 was 'going to be the year of adoption for AI in the enterprise. We're just seeing tremendous momentum.' As a pair of vivid case studies within Big 4 multinational professional services firms, Deloitte rolled out a GPT-3.5-based chatbot to 75,000 of its employees,⁵ while PwC purchased GPT enterprise licenses for 100,000 staff.⁶ At a retail cost of \$60/user/month, PwC's licensing fees would be \$72M/year, and they could soon triple that to cover all 328,000 staff.

Last year, one report found that only 27% of professionals were using GPT.⁷ Today, OpenAI says that 92% of Fortune 500 companies are subscribed to GPT, and the average spend by each organization has now hit US\$18,000,000 per year.

TOTAL CHATGPT OUTPUT WORLDWIDE (FEB/2024)



**ChatGPT
2024**

100B

words per day

4.1B

words per hour

70M

words per minute

1.5M

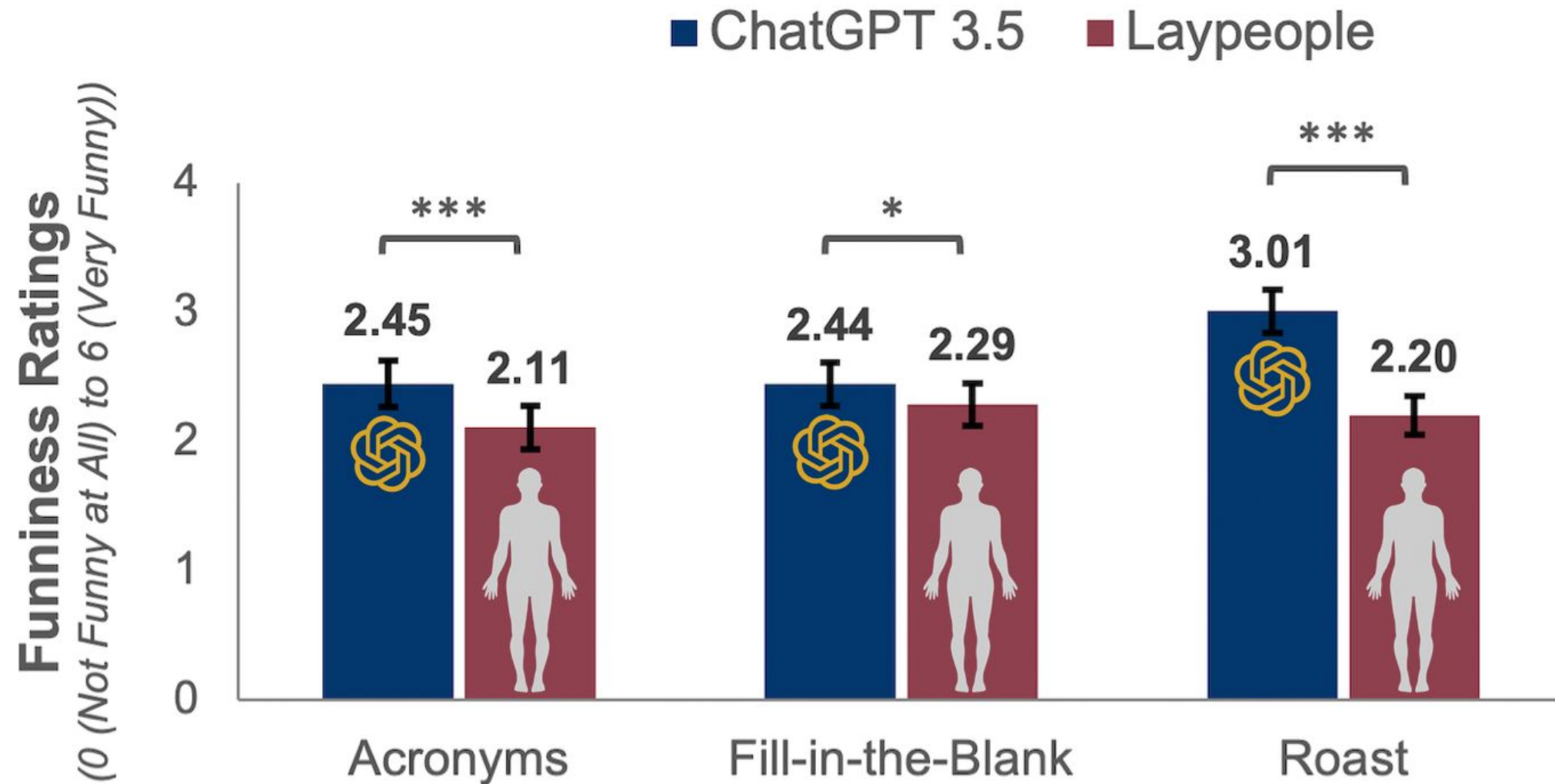
tokens per second

Rounded. 1 word ≈ 1.33 tokens.
Sources: <https://openai.com/blog/gpt-3-apps> & <https://twitter.com/sama/status/1756089361609981993> Alan D. Thompson. 2024.



LifeArchitect.ai/chatgpt

GPT + HUMOR (JUL/2024)



<https://doi.org/10.1371/journal.pone.0305364> Alan D. Thompson. July 2024. <https://lifearchitect.ai/iq-testing-ai/>



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Futures Thinking: A Strategic QA Approach

1

Anticipatory Mindset

Futures thinking in QA involves anticipating potential educational landscapes. It prepares institutions for multiple scenarios, enhancing adaptability.

2

Proactive Policy Making

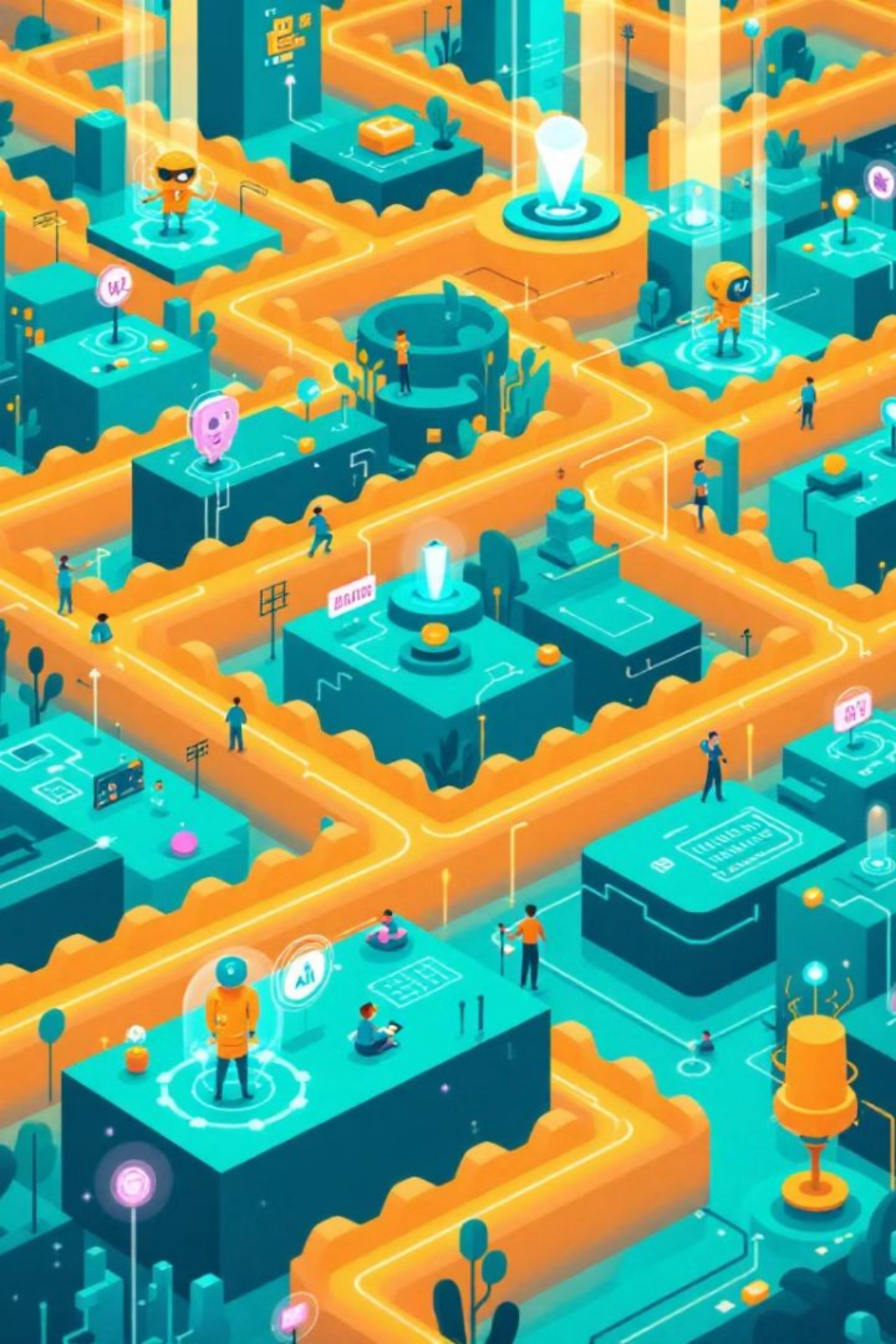
By envisioning future challenges, we can create flexible, forward-looking policies. This approach prevents reactive, outdated regulations.

3

Continuous Innovation

Futures thinking fosters a culture of ongoing improvement. It encourages experimentation with new QA methods and technologies.





Regulatory Challenges in the AI Era

Challenge	Impact	Solution
Regulatory Lag	Outdated policies hinder innovation	Agile, adaptive frameworks, Anticipatory governance models
Ethical Concerns	AI bias and privacy issues	Integrated ethical guidelines, Regulatory sandboxes
Global Inconsistency	Varied standards across regions	International collaboration
Local Inconsistency	Varied standards across systems, departments	Internal collaboration



Redesigning QA for an AI-Driven Future: A Call to Action

1 Policymakers

Develop flexible, AI-inclusive QA frameworks. Collaborate with tech experts to understand AI's educational impact. Balance innovation with ethical considerations and educational quality.

2 Institutions

Integrate AI literacy into curricula. Invest in AI-enhanced learning tools and QA processes. Foster partnerships between academia, industry, and policymakers.

3 Educators

Upskill in AI technologies. Adapt teaching methods to complement AI-driven learning environments. Stay informed about AI developments and their educational implications.