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MassVision2050 Details a Strategic Blueprint for Making Massachusetts the Global Leader in Applied Artificial Intelligence in Healthcare & Life Sciences

Boston Consulting Group and Massachusetts High Technology Council—in collaboration with leaders from industry, hospitals, and academia—examine AI's impact and chart a strategy to strengthen Massachusetts' leading position in healthcare and life sciences.

Boston, Massachusetts (June 4, 2024): Today, as part of its [MassVision2050 initiative](#), the Massachusetts High Technology Council released, "Becoming the Global Leader in Applied AI for Healthcare & Life Sciences," a comprehensive whitepaper exploring how Artificial Intelligence (AI) can significantly enhance Massachusetts' leadership in healthcare and life sciences. Developed in collaboration with Boston Consulting Group (BCG) and an advisory council of 13 senior leaders from industry (biotech/biopharma, MedTech, life sciences solutions), hospitals, and academia, the MassVision2050 whitepaper articulates a visionary strategy to establish Massachusetts as the global leader in applied AI for healthcare and life sciences, aligning with the ambitious goals outlined in the Healey-Driscoll Administration's Economic Development Plan.

The strategic framework put forward in the MassVision2050 whitepaper is designed to operationalize this vision through a concerted effort across public and private sectors, focusing on three programmatic areas:

1. **Advancing Breakthrough Innovation:** AI can expedite the development and delivery of healthcare products, making them more accessible and affordable for patients.
2. **Enhancing Patient Care Delivery:** AI applications can improve the quality and accessibility of healthcare services, enhancing patient outcomes and promoting health equity.
3. **Improving Healthcare System Efficiency:** Integrating AI can reduce administrative burdens on healthcare professionals, allowing them to focus more on patient care and reducing burnout.

To achieve this ambition, the whitepaper identifies five ecosystem enablers that support the three programmatic areas. **Talent & Workforce** and **Data** are highlighted as two critical near-term priorities.

- The Commonwealth is a leader in producing AI talent, with the highest per capita graduates in AI-related fields of any state and the fourth highest overall. However, **retention is low, with around 38% of AI-related graduates staying in the state after graduation, compared to New York, California, and Texas, which each retain more than 80% of AI-related graduates.**
- High-quality, diverse data is essential for developing AI tools that improve healthcare without perpetuating biases. **Health data accounts for nearly one-third of all data generated today.** Despite the growing abundance of health data, **approximately 97% remains unused.** This under-use has delayed the development of health AI tools, and AI projects typically spend **~80% of the project execution time on data handling.**

"Our blueprint can position Massachusetts at the forefront of the global dialogue on applied AI in healthcare," said **Valery Panier, Ph.D.**, Managing Director and Senior Partner in BCG's healthcare practice. "Massachusetts has the ingredients to lead in innovation, patient care delivery, and healthcare system efficiency with AI. The global conversation on applying these new tools in healthcare and life sciences is dynamic and rapidly evolving. Our strategy balances workforce development, data interoperability, and collaboration necessary to fuel successful pilot projects demonstrating the potential of AI."

"The potential of AI in healthcare is immense," said **Peter Healy**, President of Beth Israel Deaconess Medical Center. "This whitepaper showcases opportunities for advancing patient care, reducing administrative burden, and supporting clinical decision-making. The recommendations ensure

Massachusetts amplifies its leadership in healthcare and technology, driving better patient outcomes and health equity. This project is pivotal for healthcare providers and hospitals in addressing today's complex challenges."

"Massachusetts is ideally equipped to bring AI to its full potential not only in healthcare and life sciences but across our tech-driven economy," said High Tech Council President **Chris Anderson**. "However, the rapid rise of AI could erode Massachusetts' leadership as other states and countries compete for talent and business. To maintain its position, coordinated action among employers, educators, and the state is needed. This whitepaper is the blueprint for that collaboration, and we are eager to work with the state and other stakeholders, including the Administration's AI Strategic Task Force."

"Massachusetts hospitals and health systems are synonymous with world-class innovation, and AI represents the exciting next chapter of that legacy," said **Steve Walsh**, President and CEO of the Massachusetts Health & Hospital Association. "The promise of AI aligns with the very mission of our healthcare system: expanding equitable access for patients, empowering caregivers, and leading the charge on lifesaving medical care. MHA is proud to partner with the Healey-Driscoll Administration and Massachusetts technology leaders on this type of smart planning that positions the Commonwealth to break boundaries yet again."

AI presents a once-in-a-generation opportunity to cement Massachusetts' leadership in healthcare and life sciences. By committing to a wide-ranging and well-funded effort, Massachusetts will help realize the potential of AI to foster medical breakthroughs, improve patient outcomes, and advance health equity.

To access the full whitepaper, "Becoming the Global Leader in Applied AI in Healthcare & Life Sciences," please [click here](#).

About the Massachusetts High Technology Council

The [Massachusetts High Technology Council, Inc.](#) is an organization of CEOs and senior executives representing innovation, technology, and scientific companies, professional services firms, and research institutions who are dedicated to creating and sustaining conditions that support investment, job growth, and improved quality of life in Massachusetts. Our members are growth-oriented, knowledge-intensive employers and institutions that develop, deliver, and depend on technology products, services, and innovations to advance their organizational objectives—a definition that covers just about all business enterprises in Massachusetts today. Our mission is to help make Massachusetts the world's most attractive place to live and work, and in which to create, operate, and grow businesses within the innovation ecosystem.

About MassVision2050

Spearheaded by the Massachusetts High Technology Council, [MassVision2050](#) is a multi-year collaboration between private, public, and academic leaders to advance Massachusetts' global economic leadership, focusing on key sectors that are likely to drive employment and economic growth in the coming decades. MassVision2050 aims to put Massachusetts at the forefront of global conversations and cross-industry collaboration on new technologies and their societal impact.

About Boston Consulting Group

Boston Consulting Group partners with leaders in business and society to tackle their most important challenges and capture their greatest opportunities. BCG was the pioneer in business strategy when it was founded in 1963. Today, we work closely with clients to embrace a transformational approach aimed at benefiting all stakeholders—empowering organizations to grow, build sustainable competitive advantage, and drive positive societal impact. Our diverse, global teams bring deep industry and functional expertise and a range of perspectives that question the status quo and spark change. BCG delivers solutions through leading-edge management consulting, technology and design, and corporate and digital ventures. We work in a uniquely collaborative model across the firm and throughout all levels of the client organization, fueled by the goal of helping our clients thrive and enabling them to make the world a better place.

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