The Novartis Foundation



BROADBAND COMMISSION

Reimagining Global Health through Artificial Intelligence: A Roadmap to AI Maturity

Global challenges

Al is today's defining technology, and greatest opportunity to address growing challenges:



Global healthcare spending Projected to double over the next 20 years



Health worker shortage 50% of countries have <1 doctor for 1 000 people



Dual disease burden Noncommunicable diseases now cause 70% of deaths, while infectious diseases remain prevalent

70%

Rapid urbanization 70% of people will live in cities by 2050, increasing exposure to unhealthy lifestyles

90% premature deaths

Emerging threats COVID-19, climate change, pollution and antimicrobial resistance



Underserved populations >734 million people lack access to essential health services



Misinformation and disinformation Incorrect health information is putting millions of lives at risk

Potential of Al



C-suite executives believe they must leverage AI to achieve growth.

93%

agree that AI helps achieve previously hidden or unobtainable value. 86%

agree that AI is finding solutions to previously unsolved business problems.

Top 5 use cases for AI in health

A new report from the Broadband Commission Working Group on Digital and AI in Health identifies five use cases for how AI is addressing global and public health priorities, strengthening health systems, and improving outcomes for patients.



The roadmap for AI maturity in health

The report presents actionable recommendations tailored to individual stakeholder groups, enabling governments, health organizations, civil society, the private sector and others to capture the gamechanging capabilities of AI for health. The recommendations are grouped into six interdependent areas that must all be prioritized to enable mature integration of AI in health.

An accompanying roadmap charts three stages on the progressive path towards AI maturity in health.

Six areas for AI maturity in health

	Stepwise progression for AI maturity in health		
	1 Exploring	2 Emerging/ activating	3 Integrated ecosystem
	People & workforce: education, training, agile workforces, talent, human-centric, change management		
	Data & technology: data, infrastructure, business intelligence, privacy & trust, interoperability, algorithms & models, explainability		
<u>()</u> _()	Governance & regulatory: strategy & budget, validation, privacy & rights, data governance, workforce, institutions		
Å. Ø	Design & processes: humans at the center, integration, model KPIs, needs-driven, localization, behavior		
مکم	Partnerships & stakeholders: government leadership, needs-driven partnerships, structured prototyping, localization		
	Business models: fu monetization	unding, incentives, public	c-private partnerships,

About the working group

Digital and AI technology offer an unprecedented opportunity to transform health systems from being reactive to preventative and even predictive. The Working Group on Digital and AI in Health is tasked with generating knowledge about how these technologies can advance health and care globally. The working group's comprehensive landscape review identified actionable recommendations for how governments and other stakeholders can create the ecosystem necessary to achieve mature integration of AI in health.

The objective of this report, **Reimagining Global Health through Artificial Intelligence: A Roadmap to AI Maturity**, is to generate knowledge on the challenges, lessons learned, and best practices for AI solutions in health, and to provide actionable recommendations.

Discover the top AI solutions in the report: AI in Health

Morking Group on Digital and Al in Health Reimagining Global Health through Artificial intelligence: The Roadmap to Al Maturity

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