

Bhutan's AI Readiness Assessment

Overview

Evaluating Bhutan's readiness to integrate AI technologies within governmental frameworks through the lens of government as an **Enabler**, **User** and **Ethical AI**.

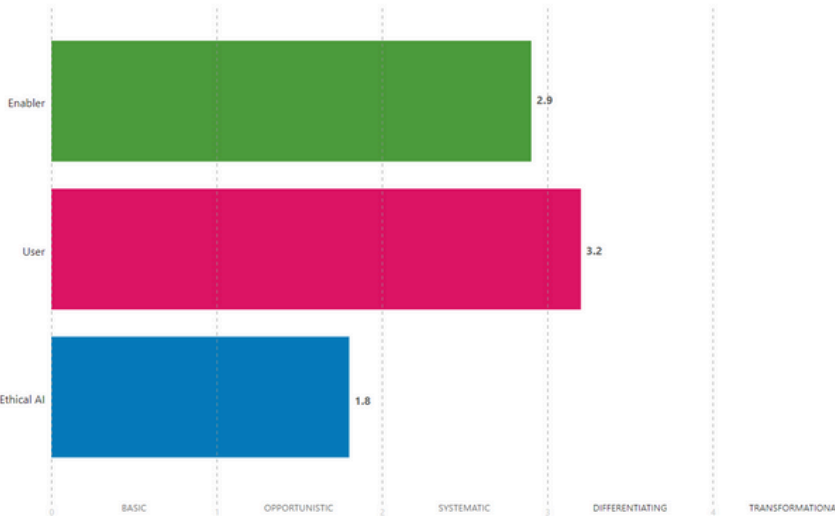
Primary objectives:

- Harnessing the benefits of AI to Transform Public service delivery
- Stimulate AI use in broader economy while managing risks

Introducing the Three Pillars

- Government as an Enabler:** How well the government supports AI development through policies, infrastructure, and skills.
- Government as a User:** The government's effectiveness in integrating AI into public services and operations.
- Ethical AI:** Ensuring AI is used responsibly and ethically to protect citizens and prevent misuse.

Key Findings



2.6 / 5

Bhutan's current phase:

SYSTEMATIC

The country is systematically advancing in key areas of AI readiness based on identified priority areas.

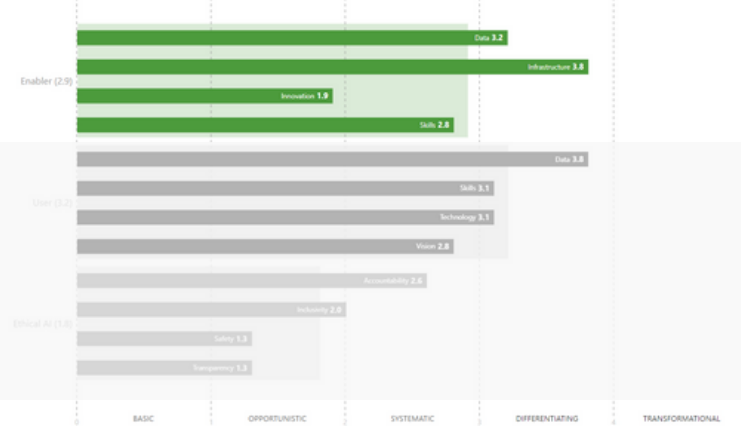
PILLAR 1: GOVERNMENT AS ENABLER OF AI

Examines how government institutions, policies, and regulations can guide and influence AI development across the economy, impacting sectors such as the private sector, academia, non-profits, and research institutions.

2.9 / 5

Systematic Phase

Dimensions



Indication:

Structured policy efforts are in place, though gaps remain

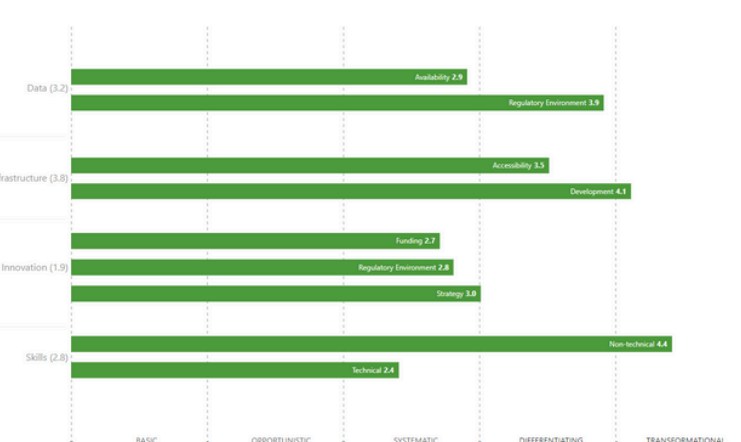
Key Initiatives:

- 2018 Information Communication and Media Act
- Upgrading the communication network, including establishing a third internet gateway
- Developing a Data Governance Framework

Challenges:

Regulations remain unclear, and funding is still insufficient, particularly in supporting AI entrepreneurship and innovation

Subdimensions



66% of the respondents mentioned they were unaware of any government open data portal or the National Digital Identity system as a key example of innovative data sharing in the economy.	66% of the respondents reported existing legislation for data protection and privacy.
40% Percentage of the population covered by 5G mobile network technology.	65% of the respondents acknowledge existing policies aimed at ensuring equal access to ICT infrastructure.
59% unaware of funding opportunities for AI researchers, and one-third indicated that no such opportunities exist.	66% indicated that starting and expanding a technology business in Bhutan is somewhat easy.
62% agreed that policies or initiatives exist to develop basic IT skills among the population.	24% mentioned existing policies or initiatives supporting the development of advanced skills, such as AI, machine learning, software development, and data science, within the population.
75% noted policies that encourage entrepreneurial skills, highlighting a focus on innovation and tech-driven growth.	

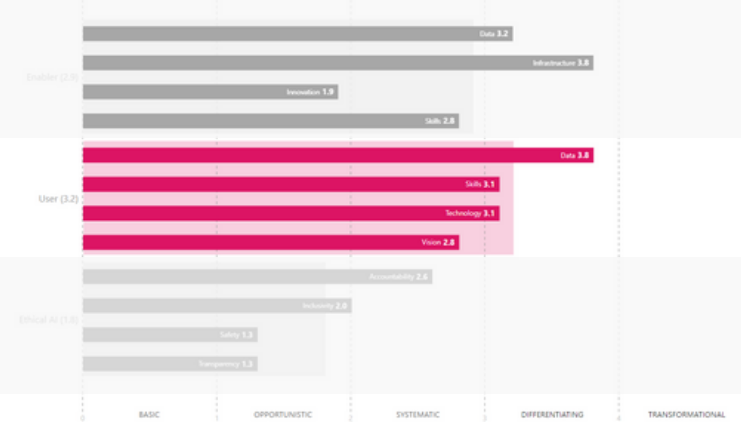
PILLAR 2: GOVERNMENT AS USER OF AI

Examines the strategies, capacities, and processes required in government to support AI adoption by ministries and agencies, as well as in the delivery of public services.

3.2 / 5

Differentiating Phase

Dimensions



Indication:

Significant progress has been made in preparing for AI deployment, with established systems and skills.

Key Initiatives:

- G2C services
- E-payment gateways
- National Digital Strategy 2024 for 'Intelligent Bhutan'

Challenges:

A strategic AI vision aligned with national plans is needed, along with further strengthening of digital infrastructure and addressing skills gaps and data quality issues to fully leverage AI.

Subdimensions



47% of the respondents mentioned efforts to facilitate data sharing between government bodies.	64% stated that they were unaware of any data quality frameworks or standards that the public sector is required to follow.
73% states that there is guidance on where government data should be stored.	27% says that it is easy to find where a particular dataset exists.
57% mentioned that there are not enough people in government with the advanced technical skills required to build effective AI tools for public sector use.	30% says there is a mechanism for public servants to trial the use of technology or data in new ways within their department.
40% mentioned that the government currently uses AI in any of its services or operations.	60% classify the standard of IT skills among civil servants in your country as good.
47% mentioned that a shared cloud platform is available for all government bodies.	93% of the respondents mentioned that the government has an online public service delivery platform.
74% mentioned that there is a government team responsible for AI use in the public sector.	20% believed government is reportedly making significant efforts to hire people with technical skills in data science, software development, and machine learning.

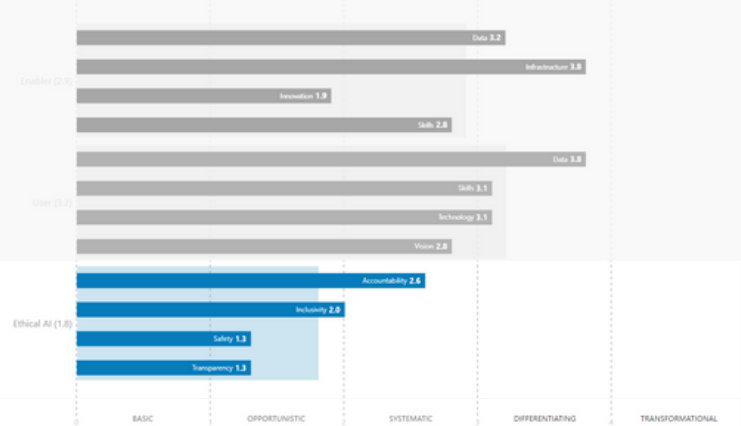
PILLAR 3: ETHICAL AI

Examines policies and legal mechanisms to ensure AI benefits are shared inclusively and to protect individual rights from risks across all stages of AI development and deployment.

1.8 / 5

Opportunistic Phase

Dimensions



Indication:

Initial policy work is underway, though significant gaps remain.

50% believe uncertainty exists about government bodies for AI ethics, with many respondents unaware of any such entities.	86% think there is lack of clear ethical AI principles and regulations hinders accountability. Transparency is also limited regarding international AI initiatives and the right to challenge algorithmic decisions.	57% were unaware of policies for representative datasets.
60% of respondents were unaware of initiatives to subsidize resources, such as cloud computing clusters, for academic and non-profit innovation.	57% were unaware of any efforts due to the lack of gender equity advocacy.	
57% were unaware of a framework for categorizing AI systems based on the level of risk they pose to human life and health.	57% were unaware of Algorithmic Impact Assessments due to their scarcity.	40% indicated that this assessments were not conducted.
67% mentioned a significant gap in monitoring AI systems and making related records publicly available. Transparency in AI procurement is also a concern.	70% of the respondents were unaware of any legal right to explainability for government algorithms due to the lack of legal frameworks for AI transparency.	30% stated that no such right exists.