



## Brij Disa Centre for Data Science and Artificial Intelligence

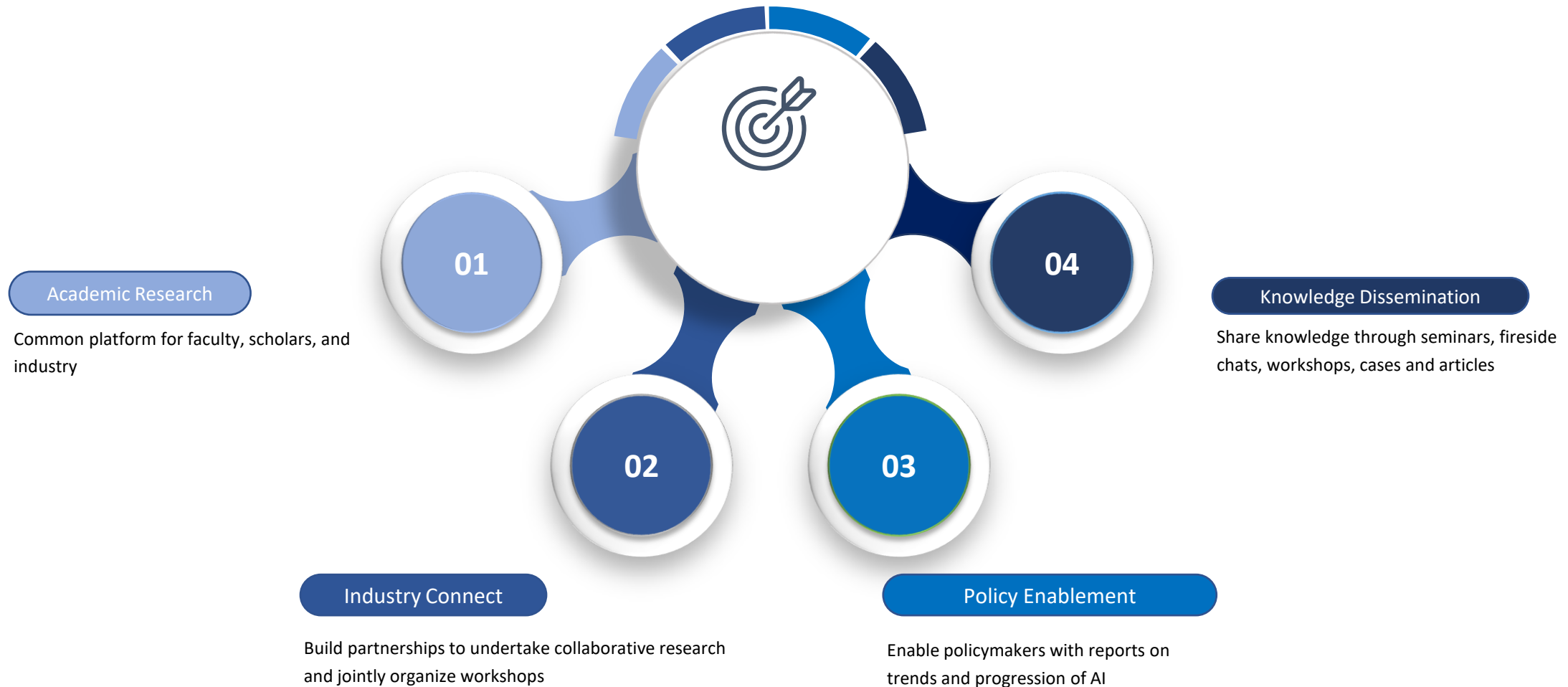
INDIAN INSTITUTE *of* MANAGEMENT AHMEDABAD



Established in August 2021

Supported by Mr. Dipak Gupta, Joint MD, Kotak Mahindra Bank

# CENTRE ACTIVITIES



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## Academic Research

Common platform for faculty, scholars, and industry

16 research projects with financial grants supported

# CENTRE ACTIVITIES



Supporting industry  
through consulting  
and training

Industry Connect

Build partnerships to undertake collaborative research  
and joint initiatives

# CENTRE ACTIVITIES



## Policy Enablement

Enable policymakers with reports on trends and progression of AI

Published reports to give insights to policy makers

# CENTRE ACTIVITIES



## Knowledge Dissemination

Share knowledge through seminars, fireside chats, workshops, cases and articles

Quarterly communique published by the centre and regular events supports learning at IIMA



# Centre members



Anindya s. Chakrabarti



Anuj Kapoor



Adrija Majumdar



Ankur Sinha



Chetan Soman



Karthik Sriram



Sobhesh Agarwalla



Cheong Siew Ann



Anirban Banerjee



Arindam Banerjee



Dhiman Bhadra



Indranil Bose



Swanand Deodhar



Anil Deolalikar



Samrat Gupta



Sachin Jayaswal



Sudha Ram



Hyokjin Kwak



Andrea Lodi



Thomas Lux



Tanmoy Majilla



Neelkant Rawal



Pekka Malo



Sheri Markose



M P Ram Mohan



Suprateek Sarker



Soumya Mukhopadhyay



Aditya Chistopher  
Moses



Sundaravalli  
Narayanaswami



Sriram  
Sankaranarayanan



Pankaj Setia



Avinash Sharma



Peng



Hemant Kumar Singh



Pranav Singh



Sitabhra Sinha



Anish Sugathan



Abhishek Tripathi



Arvind Tripathi



Ellapulli  
Vasudevan



Sanjay Varma



Pritha Dev



Amrish Dongre

# MOTIVATION FOR THE IIMA-BCG STUDY

## AI in India: A strategic necessity

- **Economic Development:** Measure benefits that the AI technologies bring through enhanced productivity, competitiveness, and innovation, thereby fostering economic progress
- **Global Competitiveness:** Identify India's position in AI research, development, and adoption, and compare with the international landscape
- **Technological Advancement:** Examine the opportunities and challenges that lie ahead given that AI has the potential to revolutionize and disrupt industries
- **Policy Formulation:** Support policy makers with insights and recommendations to shape India's AI journey
- **Social Impact:** Addressing issues such as job displacement, upskilling the workforce, and ensuring responsible and inclusive AI deployment



# AI IN INDIA A STRATEGIC NECESSITY

AN IIM AHMEDABAD – BOSTON CONSULTING GROUP COLLABORATION



**Brij Disa Centre for  
Data Science and  
Artificial Intelligence**  
INDIAN INSTITUTE OF MANAGEMENT AHMEDABAD

विद्याविनियोगादिकासः



# AGENDA

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## 01. The Collaboration

Bringing together Industry insights and Academic rigor

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## 02. India's Potential

GDP growth and Global Competitiveness

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## 03. Study & Findings

130 organizations across BFSI, Consumer and Industrial Goods

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## 04. Industry-tailored Recommendations

Recommendations for organizations across sectors and maturity levels

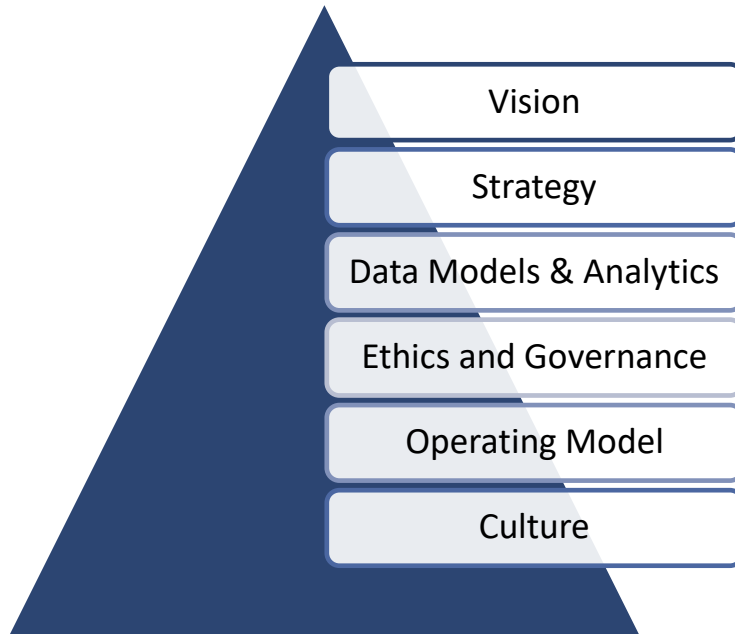
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## 05. The Road Ahead

AI for Good  
Safeguarding social interests

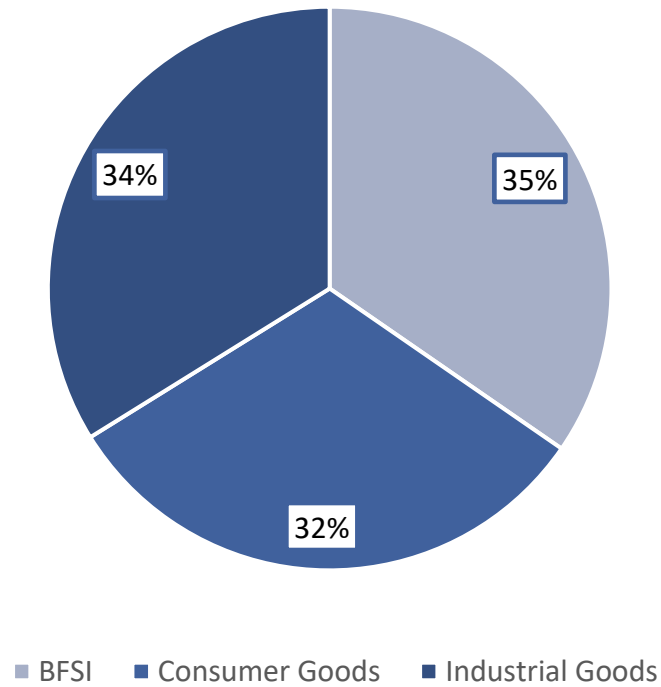


# STUDY APPROACH

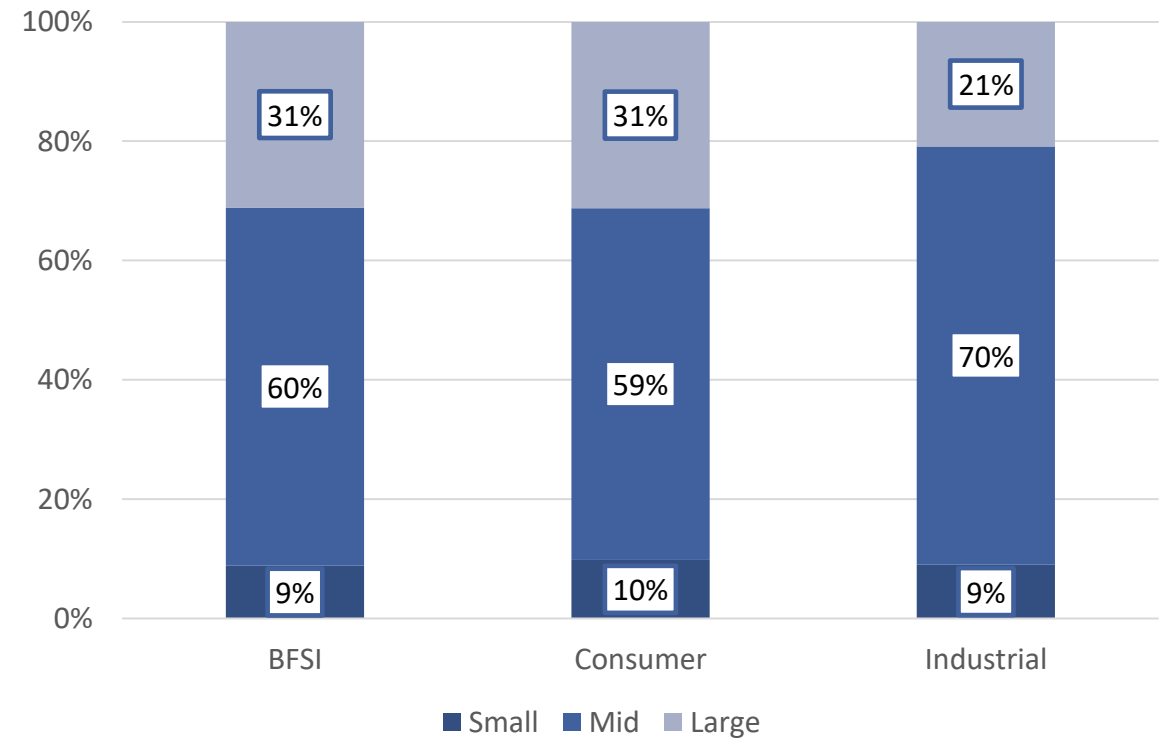


**Survey Participants:** CXO/ CXO-1 (Chief Executive Officer, Chief Digital Officer, Chief Digital Transformation Officer, etc)

# SCOPE OF STUDY

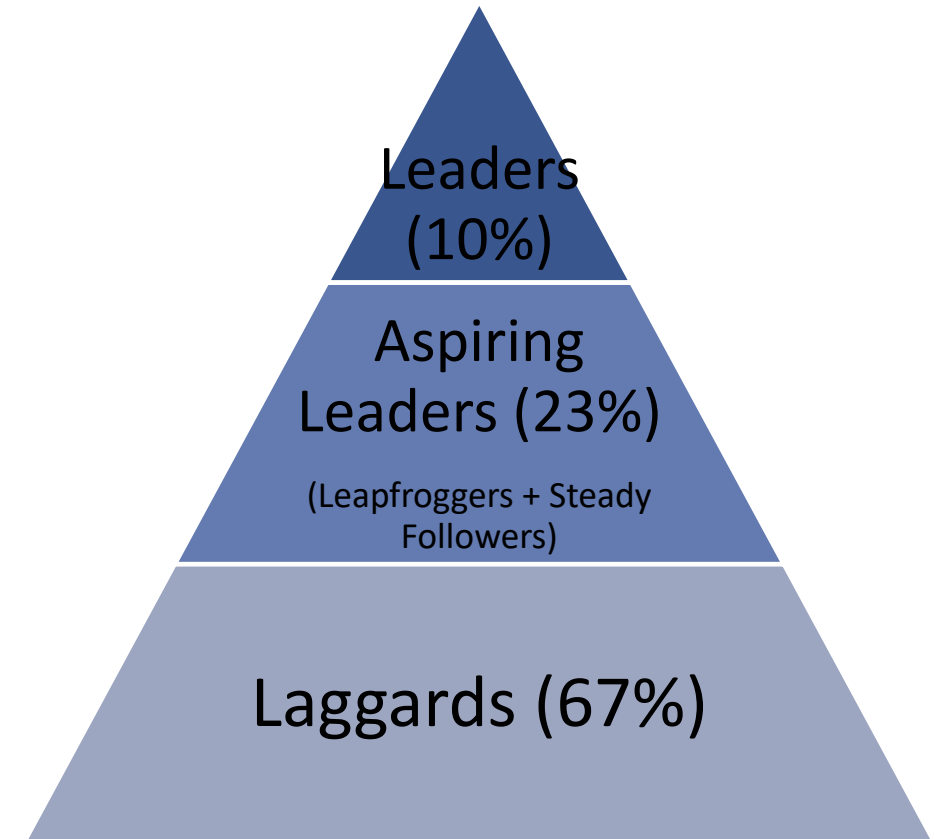


Organizations surveyed by Sector

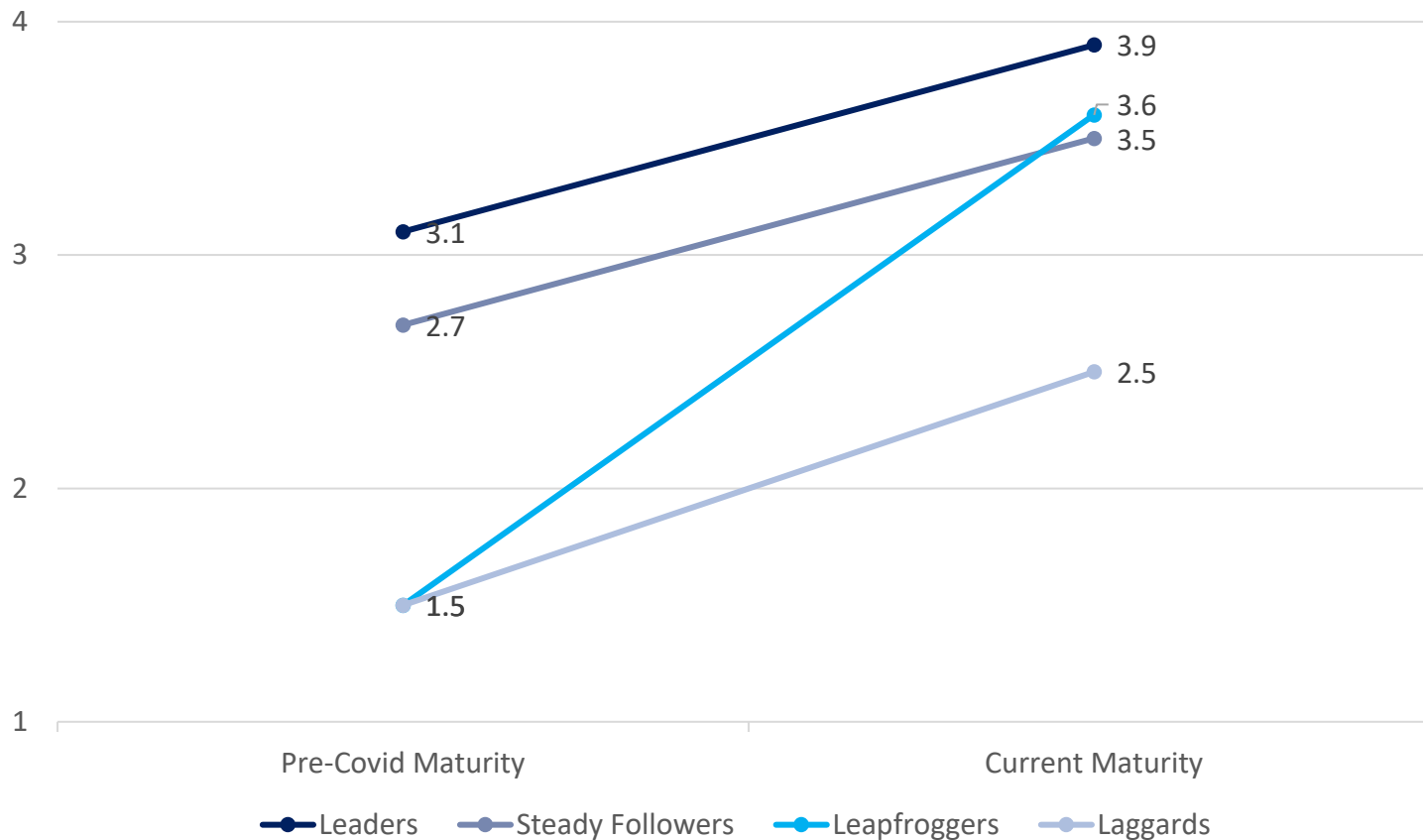


Organizations surveyed by Size

# ORGANIZATIONAL AI MATURITY LEVELS



# AI MATURITY CHANGE THROUGH COVID



- All companies have seen improvement in their AI maturity after Covid
- Maturity gap with leaders are narrowing
- Leapfroggers significantly improved their AI maturity and can give tough competition to leaders

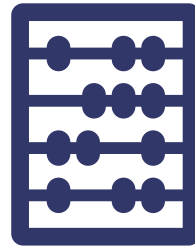


# INDIA MACRO SNAPSHOT



## **AI benefit to Indian companies**

Successful AI adoption can add INR 1.5-2.5 trillion in incremental pre-tax profit, for the top 500 Indian companies, over following 5 years



## **GDP growth**

Successful AI adoption by Indian businesses could consistently add ~1.4 percentage point to real GDP growth.



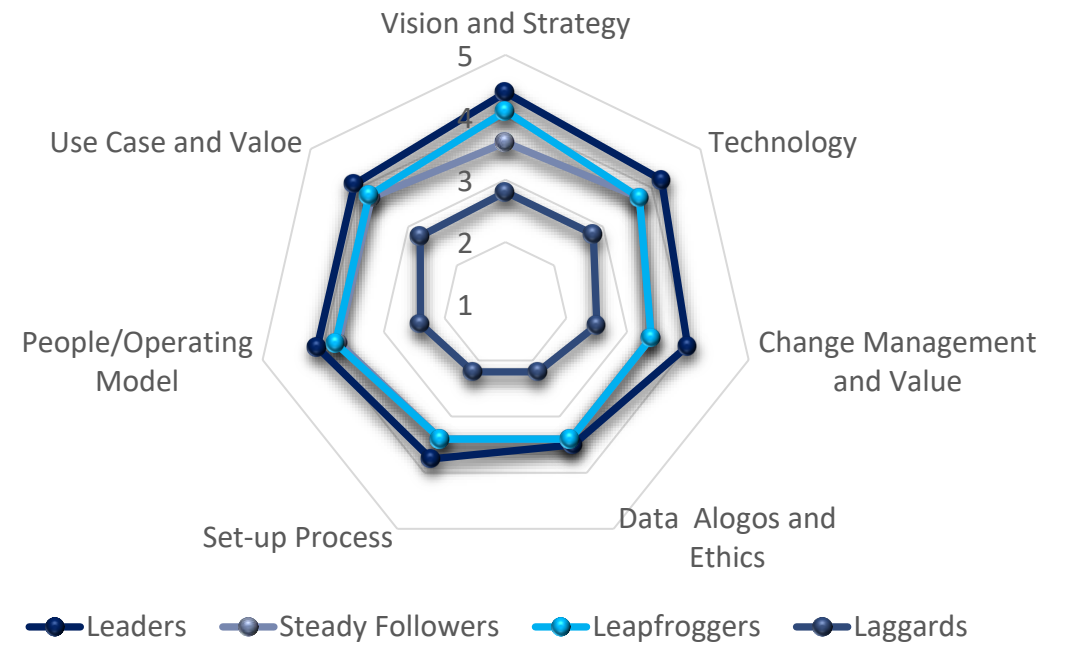
**Global competitiveness:** With 3/4 of “Laggards” Consumer Goods and Industrial Goods need to accelerate adoption to remain competitive globally and benefit from the India focus

# MATURITY ACROSS DIMENSIONS

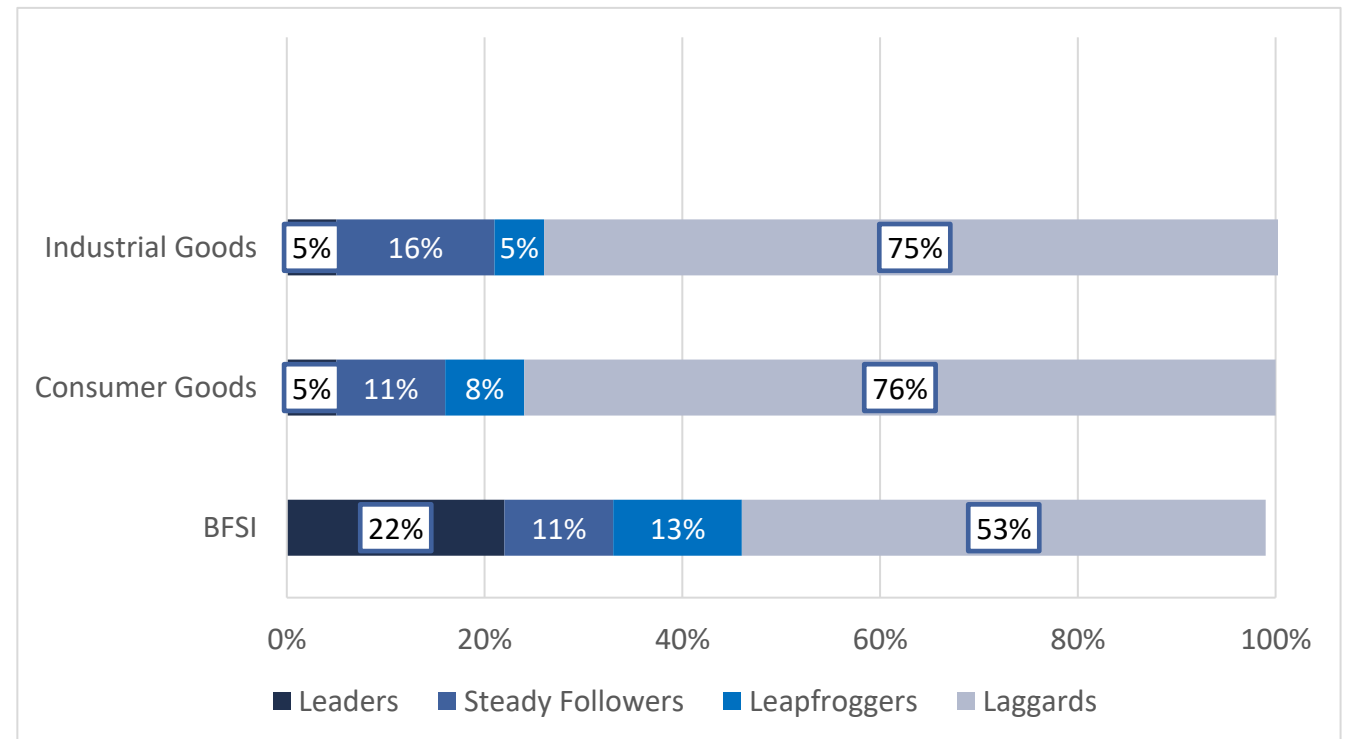
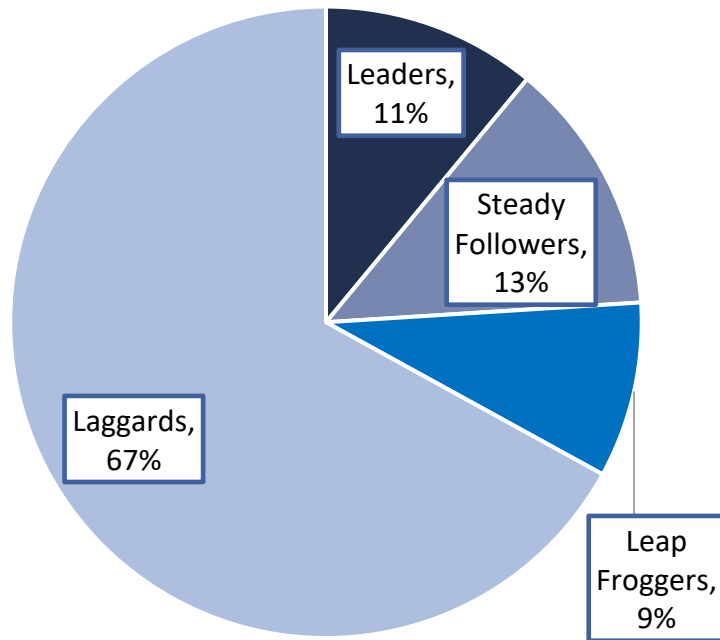
Pre-covid maturity



Current maturity



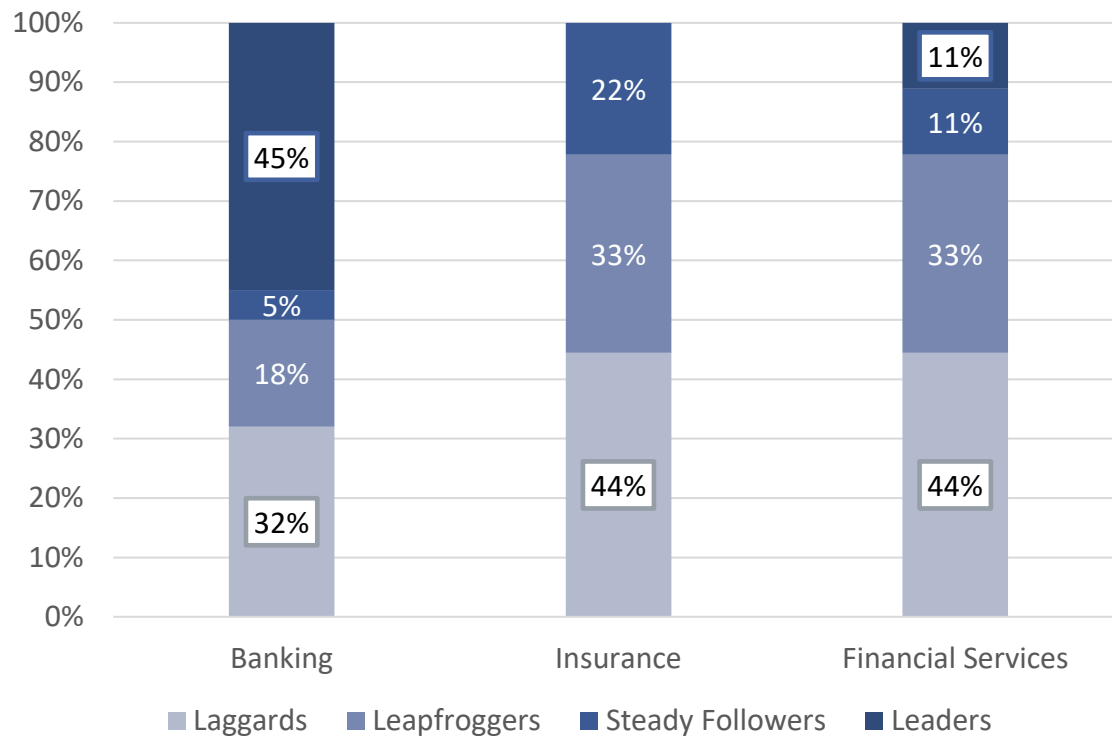
# INDIA: CURRENT STATE OF AI MATURITY



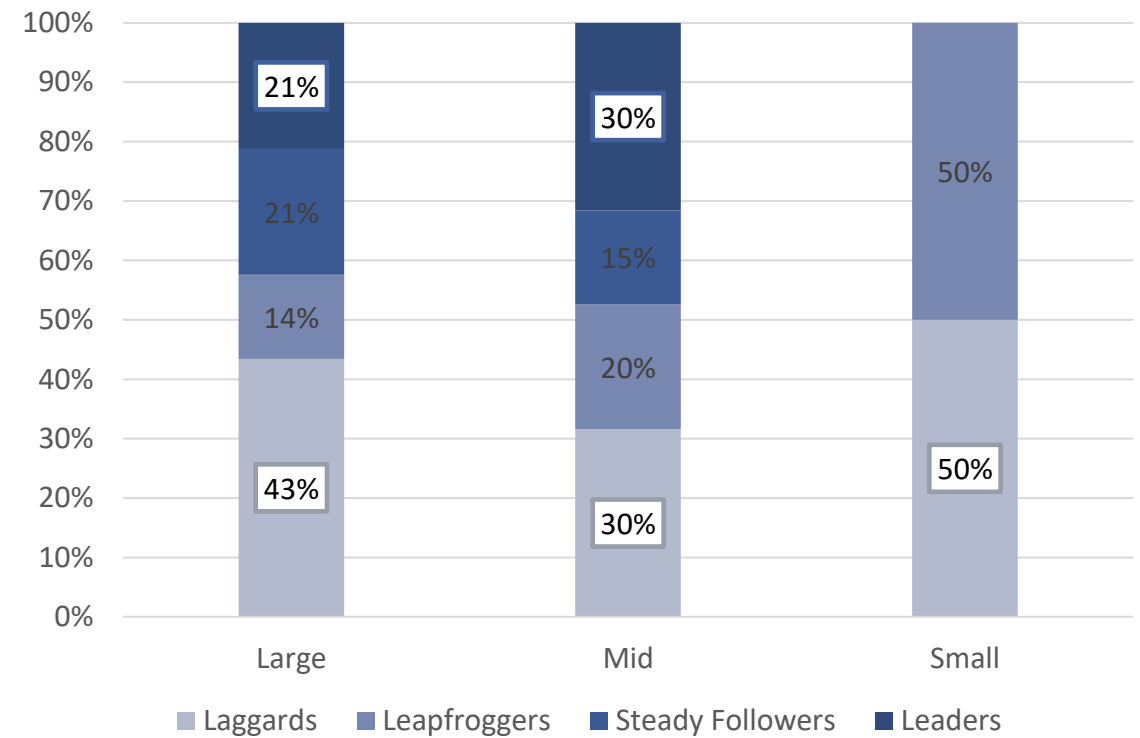
2/3rds of Indian companies are AI laggards

3 out 4 companies in IG and CG are laggards

# BANKING, FINANCIAL SERVICES, INSURANCE – SNAPSHOT



Banking leads maturity, No leaders in Insurance



Category distribution by company size

# BFSI – LEARNINGS FROM LEADERS

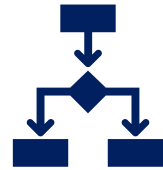


## People

Senior data specialists with business knowledge and ability to innovate use cases

A thriving R&D community

64% Leaders



## Process and Operating Model

A value-realization team that goes beyond project office scope, measuring and feeding back to continuously improve the data-driven systems

73% Leaders



## Technology

Advanced ML tools and automation capabilities allowing faster and more effective feedback loops, significantly crashing the period of streamlining of models

72% Leaders

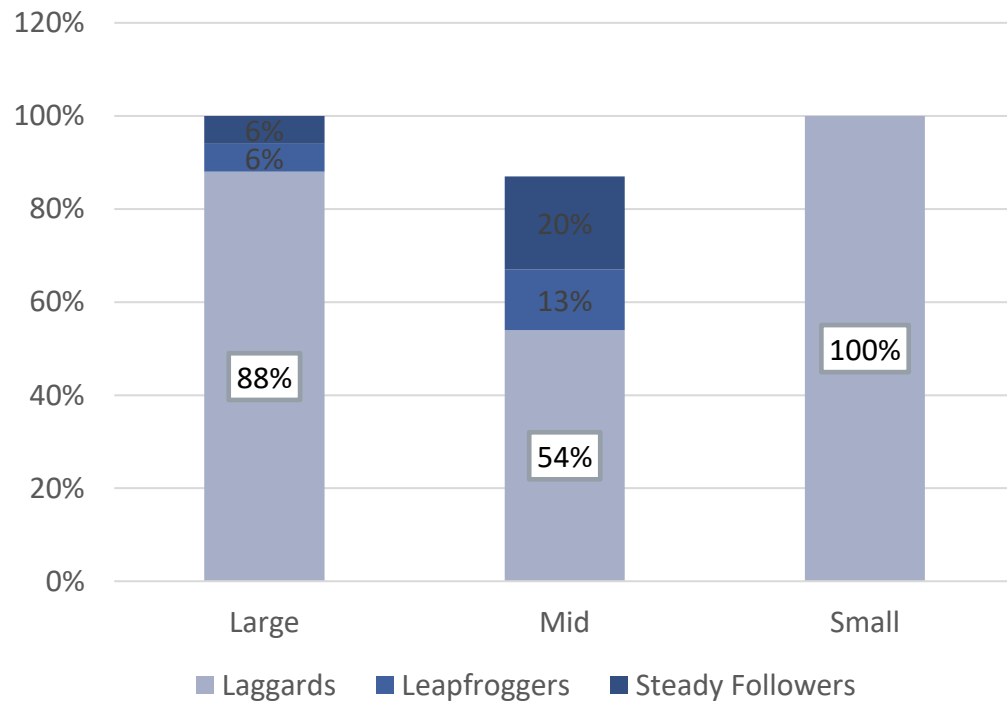


## Use cases

Moving from cost- and optimization-based use cases to a differentiating customer experience through product and service personalization

82% Leaders

# CONSUMER GOODS



- Average Maturity level at 2.7, up from 1.6 three years ago.
- Only 5% organisations are AI Leaders, while 76% are laggards.



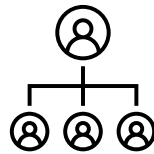
# WHY DO LAGGARDS FALL BEHIND?



## Vision and Strategy

Data plan backed by top-level value drivers

13% Laggards



## Executive Support

Executives participate in ideation of use cases and show visible support

8% Laggards



## Use Cases

Business logic drives use cases

13% Laggards



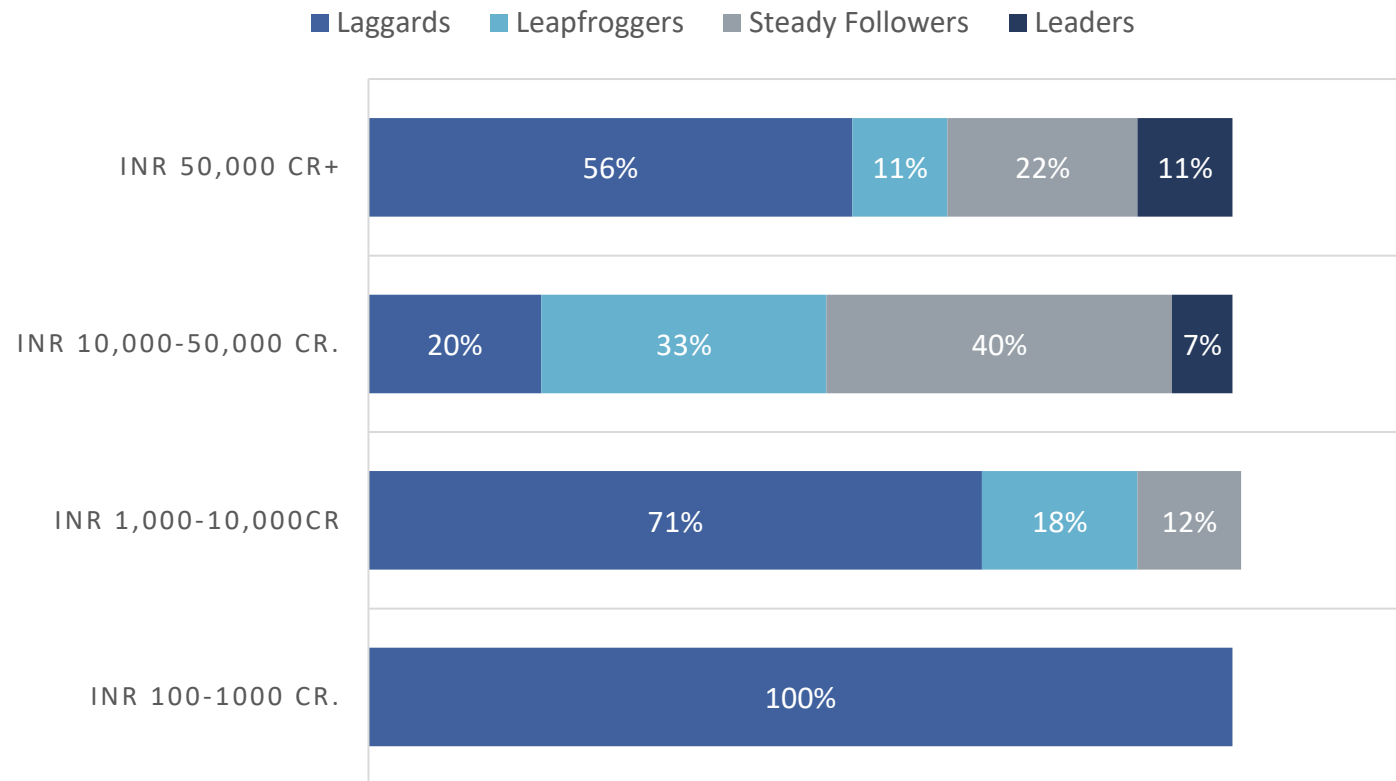
## Impact

Use cases impact on select functions

4% Laggards

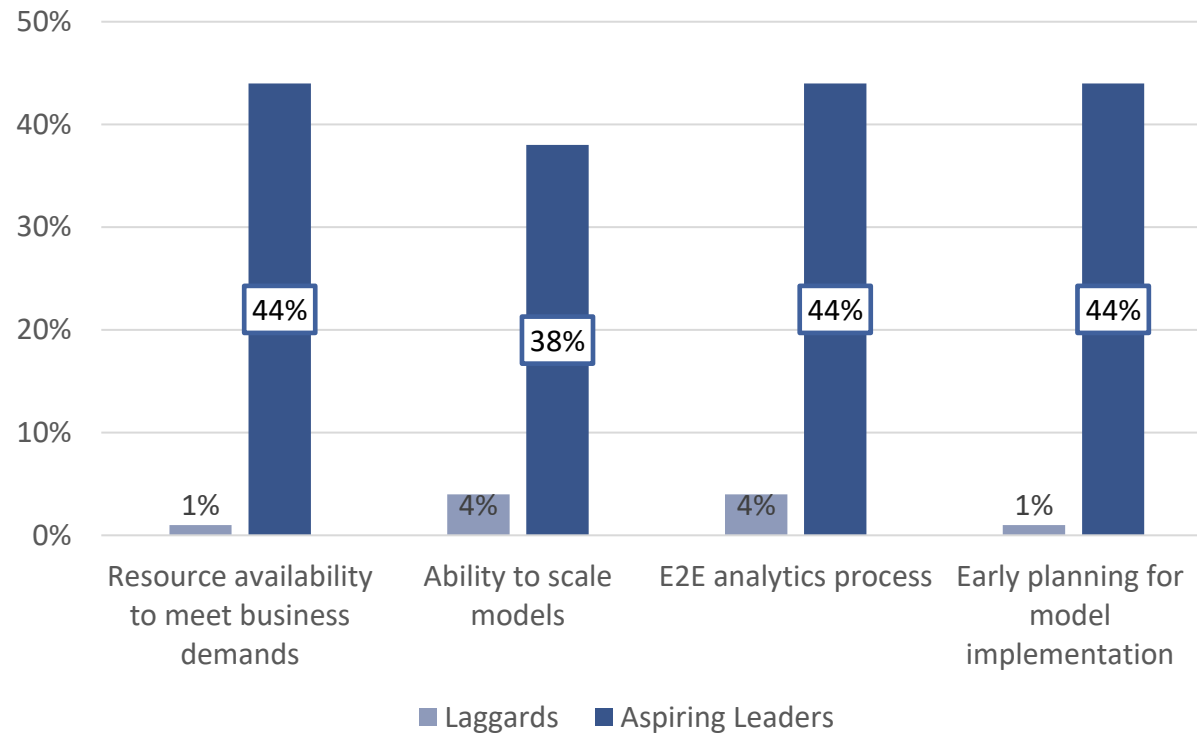
# INDUSTRIAL GOODS

## DISTRIBUTION OF COMPANIES BY SIZE



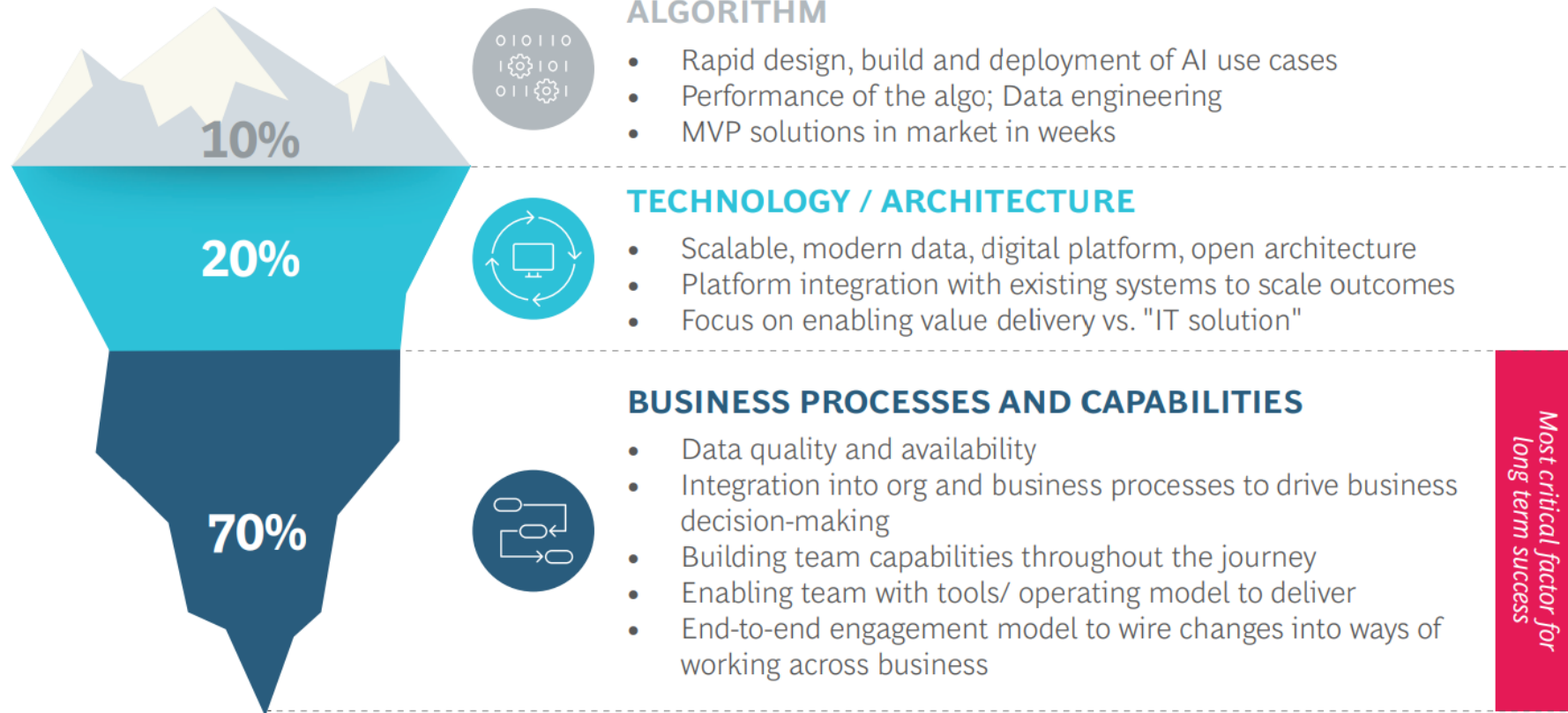
- Least AI maturity level of 2.2, up from 1.7 in 2019.
- Only 5% of organisations in this sector are leaders

# FOCUS AREA FOR LAGGARDS



- Key Areas were laggards need to invest to move up the curve
- The maturity levels set by Aspiring Leaders are achievable with time, focus and investments by most organizations

# THE WINNING FORMULA



*Most critical factor for long term success*

# ROAD AHEAD FOR INDIA'S AI JOURNEY+

## Effective Analytics



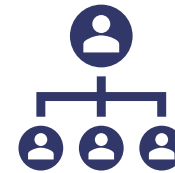
Business Acumen



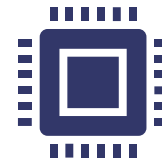
Processing Capabilities



Information Resources



**Managerial upskilling required:** The top 500 Indian companies would require at least 1 Million hours of training in upskilling mid and senior level management on the business aspects of AI



**Investment in Infrastructure:** Calibrated business-case driven modernization a necessity to drive large scale AI



**Dearth of AI Specialists with Domain expertise:** Just the top 500 Indian companies they would need at least 25,000 to 30,000 advanced practitioners of AIML in the next 3-5 years

Thank You