



AI shaping the future of work

January 30, 2026

Building The Future with Artificial Intelligence

Artificial Intelligence

A program that can sense, reason, act and adapt

Machine Learning

Algorithms whose performance improve as they are exposed to more data over time

Deep Learning

Subset of machine learning in which multi-layered neural networks learn from vast amounts of data

Generative AI

Subset of deep learning that generates text, images, or codes, based on provided data using a mix of supervised and unsupervised learning

AI enables machines to learn from experience with data & perform cognitive functions associated with the human mind.

Overarching Discipline

- A form of intelligence
- A type of technology
- A field of study

Big Spectrum

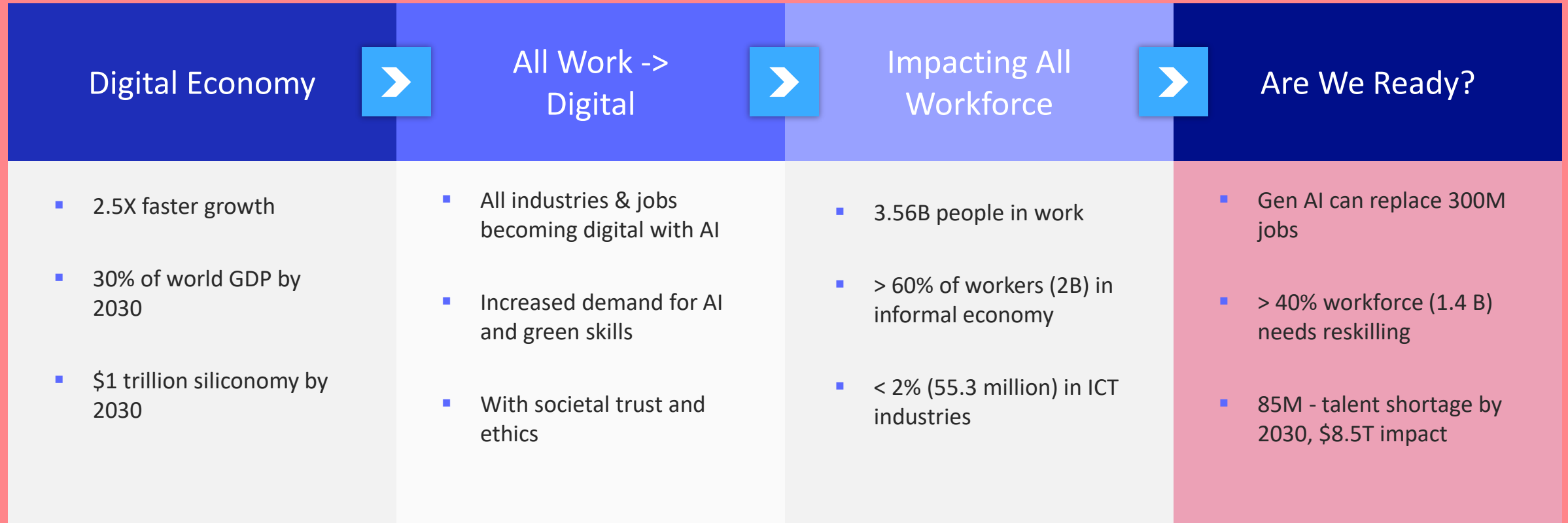
- Narrow AI: Focused on one specific task
- General AI: Intelligence that can handle any task in any domain

Moving Goal Post

- Successful technologies gets mainstreamed as software

AI : Highest-demand emerging skill set (Sources: WEF, PWC, LinkedIn)

Digital Economy, AI and Disruption Ahead



“AI won’t replace people, but people who use AI will replace people who don’t.”

Source: Intel analysis based on various industry reports

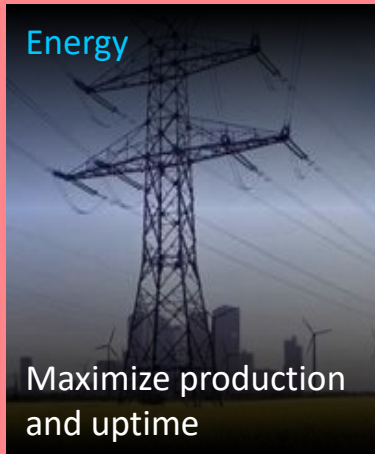
AI Fueled World

Agriculture



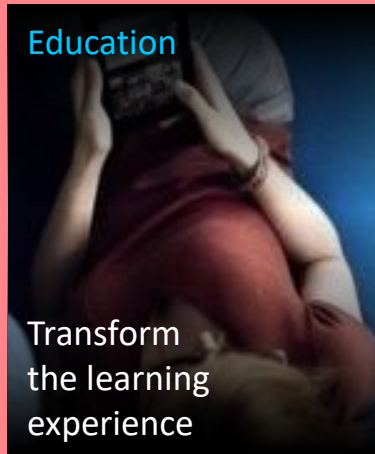
Achieve higher yields & increase efficiency

Energy




Maximize production and uptime

Education



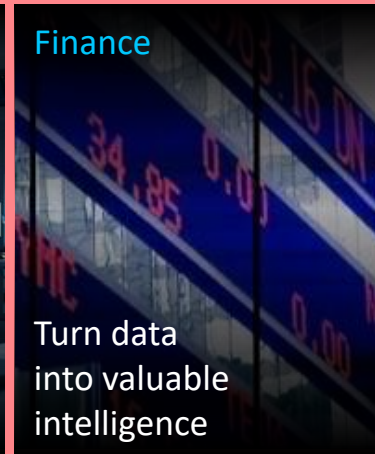
Transform the learning experience

Government



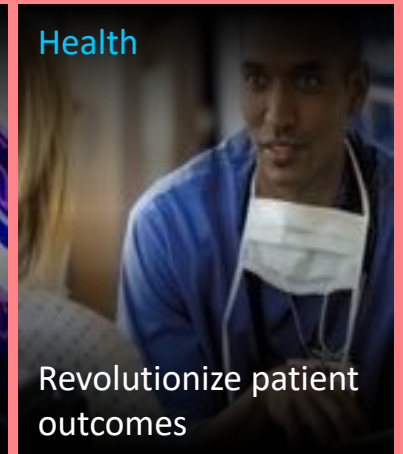
Enhance safety, research, and more

Finance



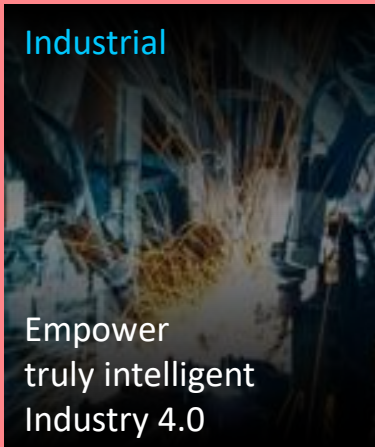
Turn data into valuable intelligence

Health



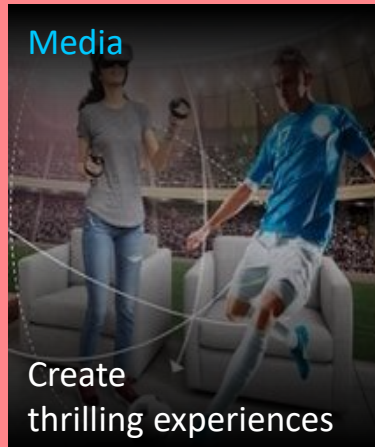
Revolutionize patient outcomes

Industrial



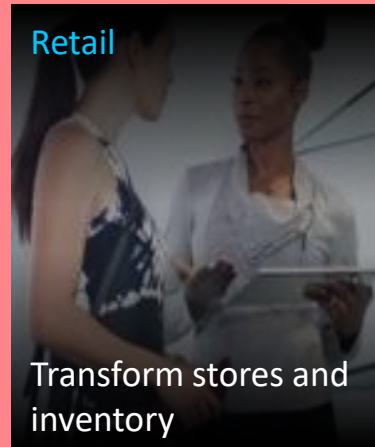
Empower truly intelligent Industry 4.0

Media



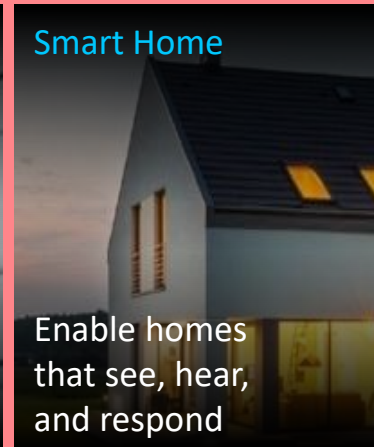
Create thrilling experiences

Retail



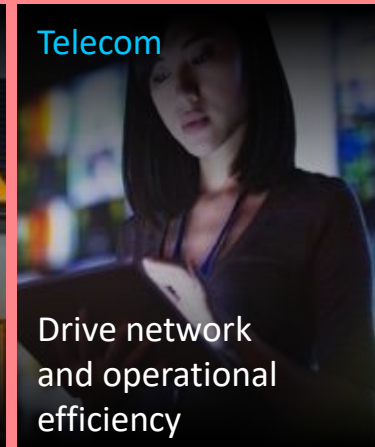
Transform stores and inventory

Smart Home



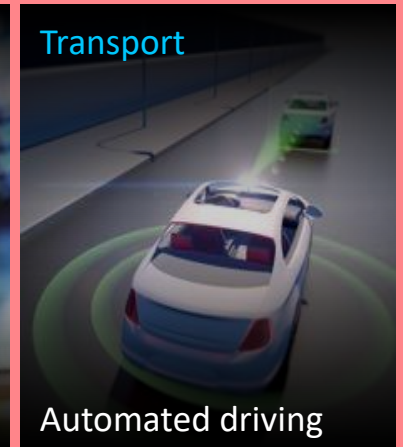
Enable homes that see, hear, and respond

Telecom



Drive network and operational efficiency

Transport



Automated driving

AI is considered new electricity.

Double Disruption For Human Capital – Covid19 & AI

50% of global workforce at risk of losing livelihoods (ILO)

\$ 3.4 trillion loss in income for global workforce (UN)

\$11.5 trillion of GDP at risk across 14 G20 countries without effective reskilling (Accenture)

75% companies plan to accelerate automation initiatives, due to Covid19 (Bain)

50% workforce reskilling and 40% workforce upskilling in post pandemic world must to ensure global growth (WEF)

What do you believe will be the most crucial factor(s) for supporting AI innovation and growth for your country? (Pick up to 3)

Upskilling the workforce



Creating the right regulatory environment



Obtaining relevant data to power AI



Investing in digital infrastructure



The ethical challenges in adoption



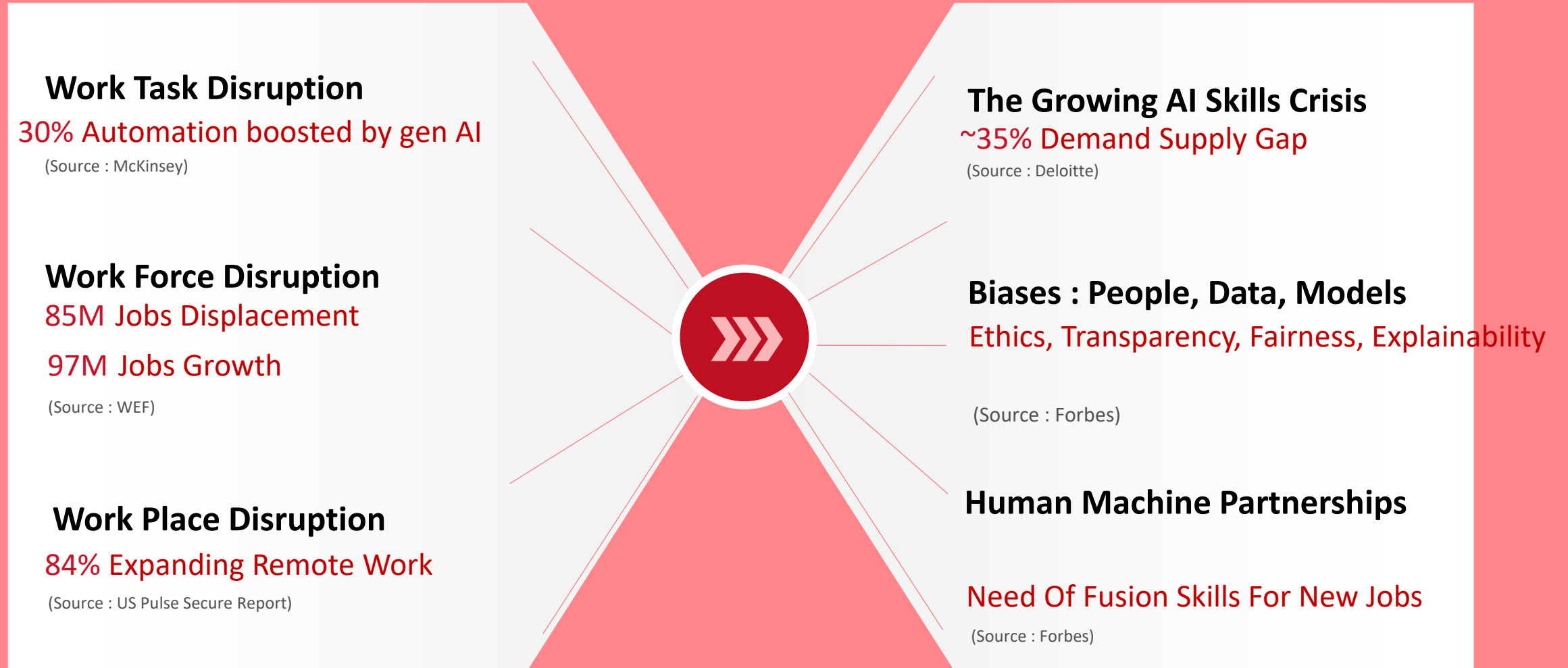
Other



Pressure to act and rebuild workforce for national competitiveness on governments worldwide

Intel – Smart Africa Digital Readiness For Leaders Workshop, March 2021. Attended by 21 African country governments leaders

The Real Future of Work: The Disruption with AI



Interventions by tech industry/higher education: often inadequate and late

Compiled from various Intel and industry analysis

AI And Tasks Encroachment : Disruption In Jobs

Manual Capabilities

- **Agriculture:**
In Japan, 90% of crop spraying is done by drones.
Cargill uses facial recognition software to monitor cows.
- **Automobile:**
Robots account for 80% of work undertaken in manufacturing a car.

Cognitive Capabilities

- **Medical:**
55+ eye diseases can be diagnosed proactively with error rate of 5.5% by DeepMind, better than clinical experts.
- **Legal:**
JP Morgan commercial loan agreement system takes a few seconds for approval which otherwise takes 360000 hours of human lawyer time.

Affective Capabilities

- **Robot Nurses:**
Paro, a therapeutic baby seal comforts people with cognitive disorders like dementia, Alzheimer's diseases.
- **Insurance:**
Ping An, a Chinese insurance company uses AI to tell whether loan applicants are being dishonest.

Opportunities In The AI World

“AI has the potential to boost the rates of profitability by an average of 38% by 2035 and lead to an economic boost of USD 14 trillion by 2035” - Accenture



Disruptions across industries
(including Government & Education segment)

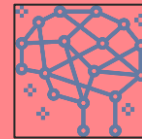


\$65B Biz Opportunity by 2025 for tech sector

(Source : Intel – Tractica analysis)



Data is the new oil for AI:
“World’s data will grow 10X in 10 years, yet only 1% of all data is ever analysed & used”
(Source : Seagate)

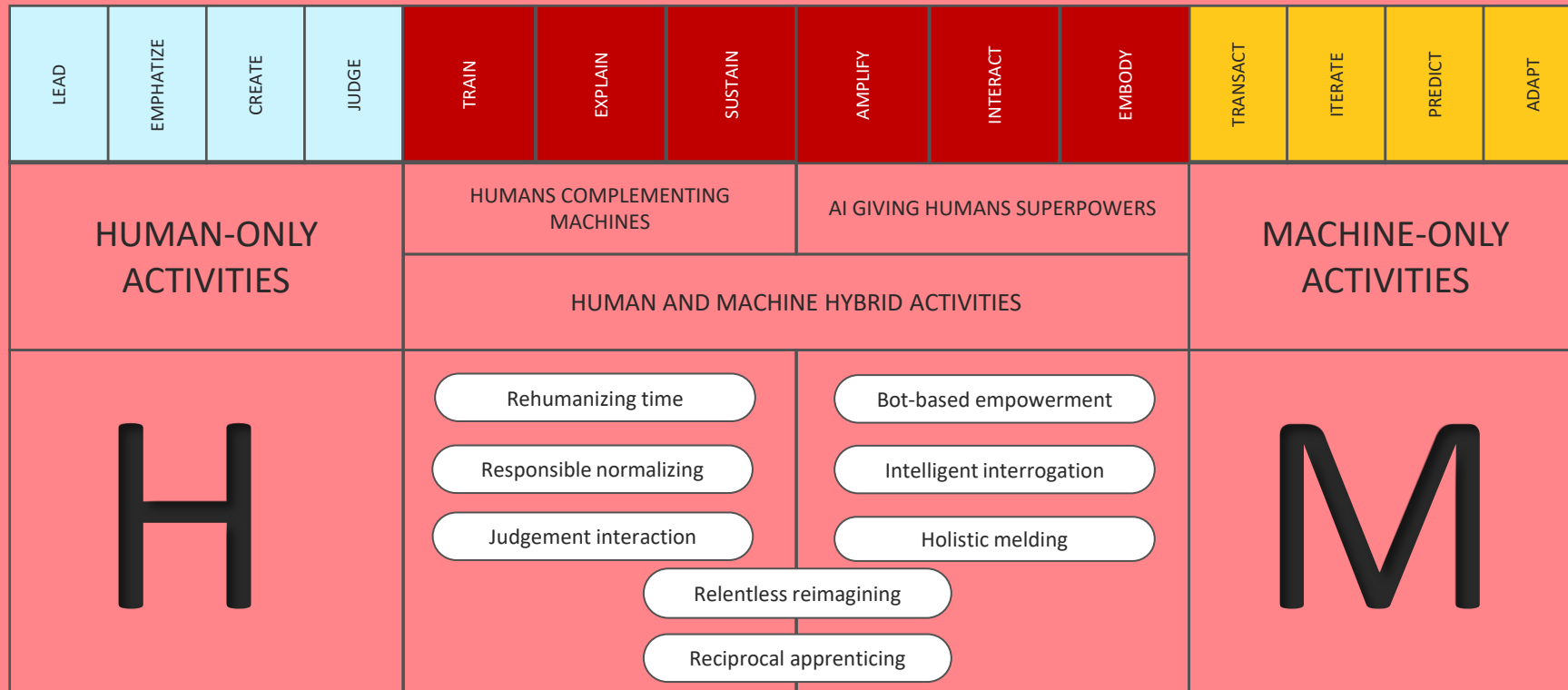


AI adoption is just beginning:
“Only 4% organisations have implemented AI while 46% have planned”
(Source : Gartner)

Reskilling and upskilling of the next generation, workforce & government leaders is a key government priority. Governments are creating national AI policies for the future of work – building readiness & market capacities.

Human + Machine Partnership

Fusion Skills For the Missing Middle



Next Generation Needs AI Skills

Future-Ready Careers

“85% of Jobs that today’s youth will be in by 2030 haven’t been invented yet ”
(Source: Institute for the Future)

Solving Real-World Problems

“AI is already used to tackle issues like climate change, healthcare, and education”
(Source: World Economic Forum)



Navigating a Data-Driven World

“The amount of data generated globally doubles every two years”
(Source : IDC)

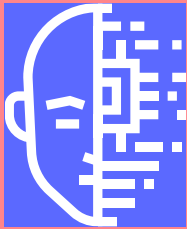
Building Digital Literacy and Responsibility

“Only 6% of companies have fully adopted AI”
(Source: Juniper Networks)

In response, 60+ countries are building national AI policies and strategies.

(Source: OECD.AI Policy Observatory)

New Job Categories With AI



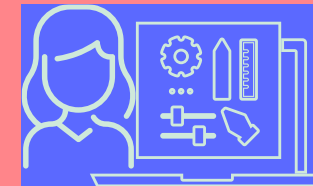
Trainers

- NLP Trainer
- Language Translators
- Machine Trainer on Human Behaviour



Explainers

- Transparency Analyst
- Algorithm Forensic Analyst
- Explainability Strategist

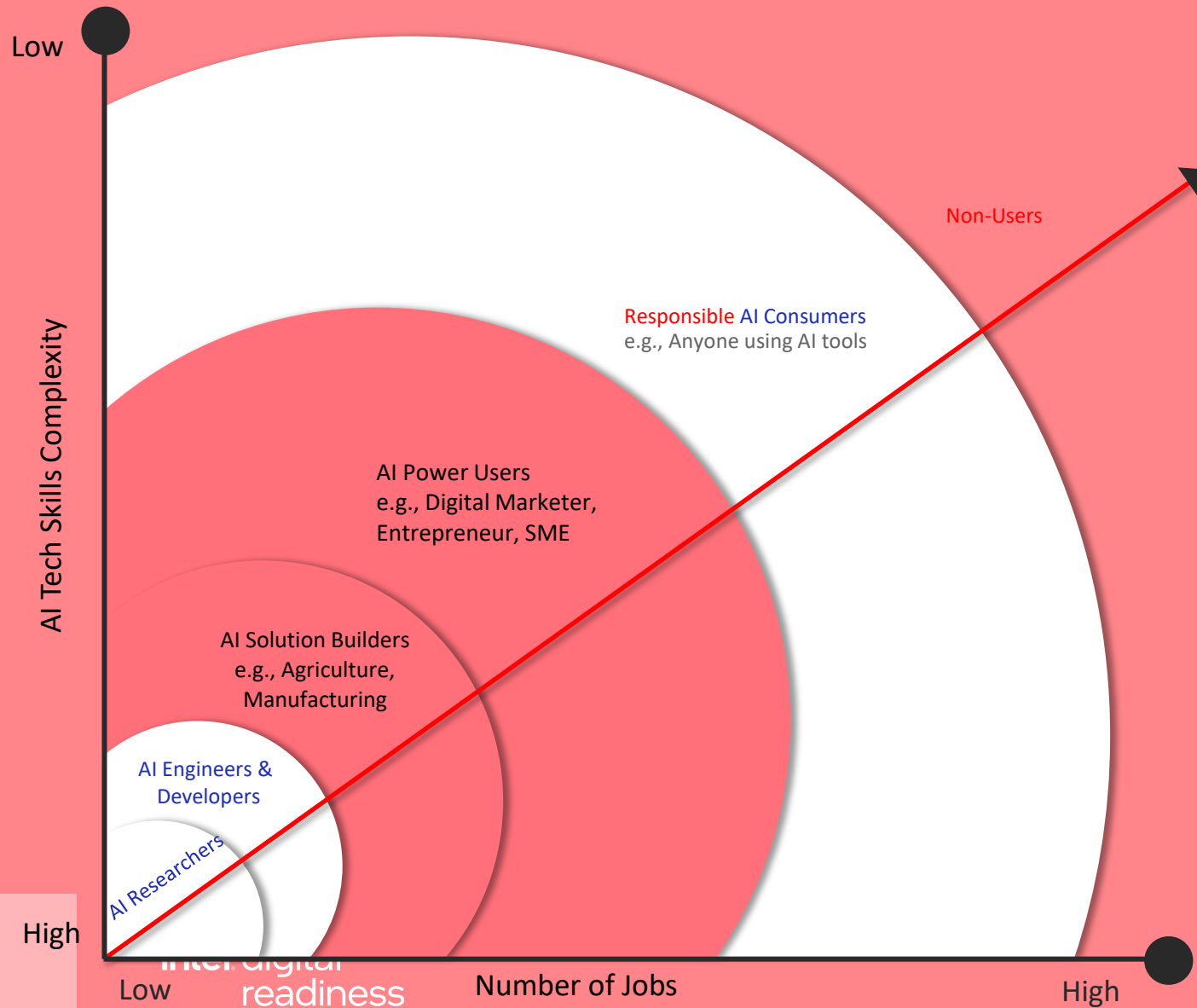


Sustainers

- Context Designer
- AI Safety Engineers
- Ethics Compliance Managers

AI Readiness for new “Human Machine Partnership” and Human Centric/Responsible AI

Bringing AI Everywhere: Starts with AI Skills for Everyone



AI as top in-demand skills:
WEF Future of Jobs 2025 Report

AI skills crisis:
Top barrier for enterprise adoption. AI-X divide and Trust deficit. Call for upskilling-reskilling

Governments rebuilding human capital,
seek long-term partnerships for national competitiveness

■ Current ICT industry focus ■ Need broader industry & society focus

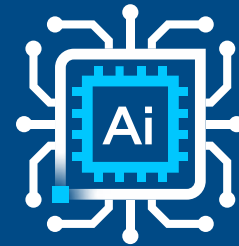
Powering Digital Disruption



Cloud



Connectivity



Artificial Intelligence



Intelligent Edge

Supportive Infrastructure Needed

- Access to High end computers and good internet
- Cloud & AI Platforms Access
- Laptops for hands-on learning
- Mentors, guidance, and real-world projects
- Safe & Ethical AI Environment

AI skills grow best when students have access to the **right tools, guidance, safe environments, and real-world practice**—not just textbooks.

How Parents Can Support

- Digital Infrastructure at home
 - Laptop
 - Stable Internet connection
 - Software access
- Exposure to Real-World AI Use
- Guide children towards ethical use of technology
- Support for Online Courses, Clubs & Bootcamps
- Safe Guidance and emotional support
- Learning space and practical opportunities