

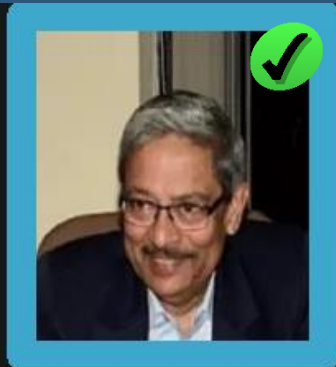
Emerging Technologies & Transition



PERFORMATICA
STRATEGY · OPERATIONS · TECHNOLOGY · ALLIANCES

Jan 18th, 2024

10:00 AM CST (USA) / 9:30 PM IST (INDIA)



Dr Tilak Agerwala
Panelist

IBM Vice President (Retired),
Adjunct Associate Professor,
Pace University-New York

Sabyasachee Panda
Panelist

CTO, Performatica and Co-Founder,
Greenjo Consulting

Murthy Divakaruni
Panelist

Founder, Performatica

Dr Phiroz Darukhanavala
Panelist

Industry Advisor, Energy &
Power, Technology Innovation,
Ex-CTO, BP



| Section | Topic | Speaker/s |
|------------------------------|--|-------------------------|
| Introduction | Social & Industry Impact from Emerging Technologies | Dr Tilak Agerwala |
| Keynote | State of Technology Transitions (Progress & Prospects of emerging technologies) | Sabyasachee Panda |
| Technology Induced Conflicts | Technology Advances causing a Clash of Trends | Dr Phiroz Darukhanavala |
| Social Innovation | Technology Impact on Social Innovation | Murthy Divakaruni |
| Panel Discussion | Discussion and Q&As | All Panelists |
| Key Takeaways | Impact on Performatica Ventures & Foundation | Murthy Divakaruni |

Has Technology advanced the human condition & the health of our planet ?

Technology Impact

(+) Impact

Healthcare, improving access to healthcare services and enhancing patient care

Education, e-learning platforms, online courses, and educational apps provide access to quality education worldwide

Agricultural technologies play a crucial role in addressing the problems of hunger, food security, environmental sustainability, & economic development

Assistive technologies have improved the quality of life for people with disabilities

Technology has facilitated the **financial inclusion** of underserved populations.

(-) Impact

Embedding biases in automated decision-making processes & information-processing algo

Exacerbating **economic and social inequalities** within and between countries

New weapons and avenues have threatened **global security and stability**

Some manufacturing processes and fossil fuel extraction have contributed to **environmental pollution**

The widespread use of surveillance tech has raised concerns about **privacy and civil liberties**.

AI Critical to Future Technology Development and Adoption

Myth: AI represents an existential threat to humanity

No evidence for AGI or Superintelligence [Emotional Intelligence, Common Sense Knowledge, Sentience].

AI (ANI/GenAI) will play a critical role.

- Increase productivity by automating/speeding up tasks.
- Drive innovation and discovery
- **Significantly impact the future of collaboration in various domains (GenAI)**
- Solve complex problems that cannot be solved by humans or machines alone

But

ANI/GenAI Issues must be overcome:

- Hallucination*
- **The spread of disinformation and polarization is significant**
 - Many of us have been subject to the loss of privacy and “surveillance capitalism”
 - Words like “ransomware” have become part of our vocabulary
- **Ethical issues (Bias/Fairness, Transparency, Privacy, Accountability, Safety)**
- Copyright Issues
- Legal & Regulatory Issues

The tendency for certain AI models to generate nonsense or errors that do not correspond to fact or real-world or common-sense logic.

Trusted and Ethical Solutions

Should AI developers apply “ethics” in deploying AI solutions?

- All AI today is narrow AI, applies to limited domains, and is based on Statistical Learning. AI has no agency and makes no ethical decision.
- AI Ethics has to do with the mindset of the people who must make responsible choices to ensure human well-being at every stage from the design to deployment.
- **AI developers must practice Ethical Design, all of us must familiarize ourselves with the available AI tools and their capabilities, limitations, and risks.**

ELSE

AI will perpetuate and exacerbate social and economic inequalities, as well as create new forms of exclusion and discrimination



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Technology Transitions that we covered last year

Target Outcomes



Leadership
Development

Business
Performance

Digital Execution

Technology Transitions (2022-23)

Industry 4.0 -
Industry 5.0

Web 2.0 - Web 3.0

Classical - Quantum

Robots - Cobots

Internet - Metaverse

Core Common Services

Process
Automation

AI/ML
Modelling

Decentralized
Assets

Internet of
Things (IoT)

Ethical
Design

Cyber-
Security

Progress of these Technology Transitions

(1/2)

| Shifts | Meaning of this Transition | Challenges & Adoption | Next Trends |
|---------------------------------|---|--|--|
| Industry 4.0 To Industry 5.0 | Industry 4.0, focuses on the automation and digitization of processes, Industry 5.0 focuses on collaboration between humans and machines to achieve more flexible and personalized mfg | <ul style="list-style-type: none">• Cybersecurity• IT-OT Integrations• Legacy IT Systems• Limited Industry 4/5 Skills | <ul style="list-style-type: none">• Personalized Manufacturing• Digital Twins of Processes• Sustainable Manufacturing |
| Web 2.0 To Web 3.0 | Web 2.0 focuses on content consumption, whereas Web 3.0 focuses on content creation (Semantic Web) | <ul style="list-style-type: none">• IP Rights• Scale (as Web3 is decentralized)• Cyberattacks on smart contracts - hacking, smart contract flaws, data leaks, identity theft, etc. | <ul style="list-style-type: none">• Integrations and standardization in Web 3.0• Utility NFTs/tokenization of physical assets (real estate)• DeFi (decentralized finance) into payments, P2P lending• Virtual Identities |
| Classical To Quantum | Classical computing relies on binary digits (bits) that are either in the state of 0, or 1, while quantum computing relies on quantum bits or qubits. These can be both in the state of 0 and in the state of 1, simultaneously | <ul style="list-style-type: none">• Short lifespan of qubits• Fabrication precision challenges• Limited quantum computing resources (includes software)• Skills Gap | <ul style="list-style-type: none">• Quantum based cryptography• Standalone quantum chips to a “modular” quantum computing framework• Quantum-friendly fibre-optic and microwave connections• Emerging “hybrid” quantum computing that combines quantum computations with classical algorithms |

Progress of these Technology Transitions

(2/2)

| Shifts | Meaning of this Transition | Challenges & Adoption | Next Trends |
|-----------------------|---|---|---|
| Robots To Cobots | While a robot performs a task without human control, a cobot performs tasks in collaboration with human workers. | <ul style="list-style-type: none">• Suitable for handling small payloads (<20kg)• Safety coordination/hands off during the production• Limited Speed during production cycles (~250 mm per second)• Not in a 24x7 mode as human loops are embedded in the process | <ul style="list-style-type: none">• Increasing Adoption in Small and Medium Enterprises (SMEs)• Advancements in End-of-Arm Tooling (EOAT)• Integration of Artificial Intelligence (AI) and Machine Learning (ML)• Cloud Connectivity for Remote Monitoring and Control |
| Internet To Metaverse | The metaverse is a hypothetical iteration of the Internet as a single, universal and immersive virtual world. Creates shared experiences and virtual economies, marking the next evolution of digital interaction | <ul style="list-style-type: none">• Technical complexity - 3D environments to designing AI-powered interaction systems• Privacy in virtual worlds• Integrations and standardization limitation• Metaverse development necessitates a balance between centralization and decentralization | <ul style="list-style-type: none">• Virtual economy• Urban planning and architecture – Smart Cities• AI and gamification |

Key Industry Players

Full-Stack (End-to-End)
 Google, IBM, Microsoft, amazon, Honeywell, rigetti, Alibaba Group, D-Wave, XANADU

Software Applications
 RIVERLANE, Menten AI, ZAPATA, acWARE, MULTIVERSE, QNTUM, QBITLOGIC, QRITHM, QULAB

Cloud Computing agnostiq
 IQBit, BraneCell, Aliro, BLACK HOLE

Quantum Encryption and AI
 ISARA, agnostiq, Post-Quantum, SPEQTRAL, SHIELD, IDQ, ZY4

Systems & Firmware
 IQBit, Q-CTRL, Aliro, q|b quantum benchmark, QINDOM, STRANGE WORKS, Labber, QM QUANTUM MACHINES, QILIMANJARO

Quantum Hardware
 ColdQuanta, IONQ, PsiQ, AeroQ, QUANTUM FACTORY, QUANDELA, Quantum Microwave

Sf Silicon Foundry

SIFOUNDRY.COM | 505 HOWARD ST, SUITE 201, SAN FRANCISCO, CA 94105

Key Quantum Players

Startups drive the transition to web 3.0

Financial Services
 cashaa, twig, BANKERA, mpeda, SEBA, IDEX, LOOPRING, Bancor, NANO, UTRUST, EVERLEDGER, SKRILLA, MOBILEGO, Iqeon, ionomy, CryptoKitties, NoLimitCoin, AVAR, Peerplays, wager, Ipredictionmarkets, TREZOR, #wallet

Retail
 OpenSea, CanYa, datum, OpenBazaar, BitBay, district0x, SAFEX, MedShares, Powerledger, Swarm City, bitJob

Gaming & Sports
 Dmarket, AUGMENTORS, Ethereum, SKRILLA, MOBILEGO, Iqeon, ionomy, CryptoKitties, NoLimitCoin, AVAR, Peerplays, wager

Technology
 S0Mee, AKASHA, indorse, ProChain, odysee, livepeer, THETA, VIBERATE, status, Mercury Protocol, element, steemit, PRIMAS, Filecoin, sia, STORJ, LBRY, Beaker, Brave, Jibrel Network, PRIVATIX, SENTINEL

Media & Entertainment
 S0Mee, AKASHA, indorse, ProChain, odysee, livepeer, THETA, VIBERATE, status, Mercury Protocol, element, steemit, PRIMAS, Filecoin, sia, STORJ, LBRY, Beaker, Brave, Jibrel Network, PRIVATIX, SENTINEL

Key Web 3.0 Players

Key Industry Players



Key Cobot Players

| Online Game Makers | Design Software Vendors | Social Networking | Gaming, AR & VR Hardware | Live Entertainment |
|---------------------|-------------------------|-------------------|--------------------------|--------------------|
| Roblox | Unity | Facebook | Facebook | Live Nation |
| Epic Games | Epic Games | Tencent | Lenovo | Theme Parks |
| Microsoft | Adobe | | HP | Sports Teams |
| Activision Blizzard | Autodesk | | Logitech | |
| Take-Two | Ansys | | Acer | |
| Tencent | | | Valve | |
| NetEase | | | Razer | |
| Nexon | | | | |
| Valve | | | | |

Key Metaverse Players

Top Global Risks - 2024

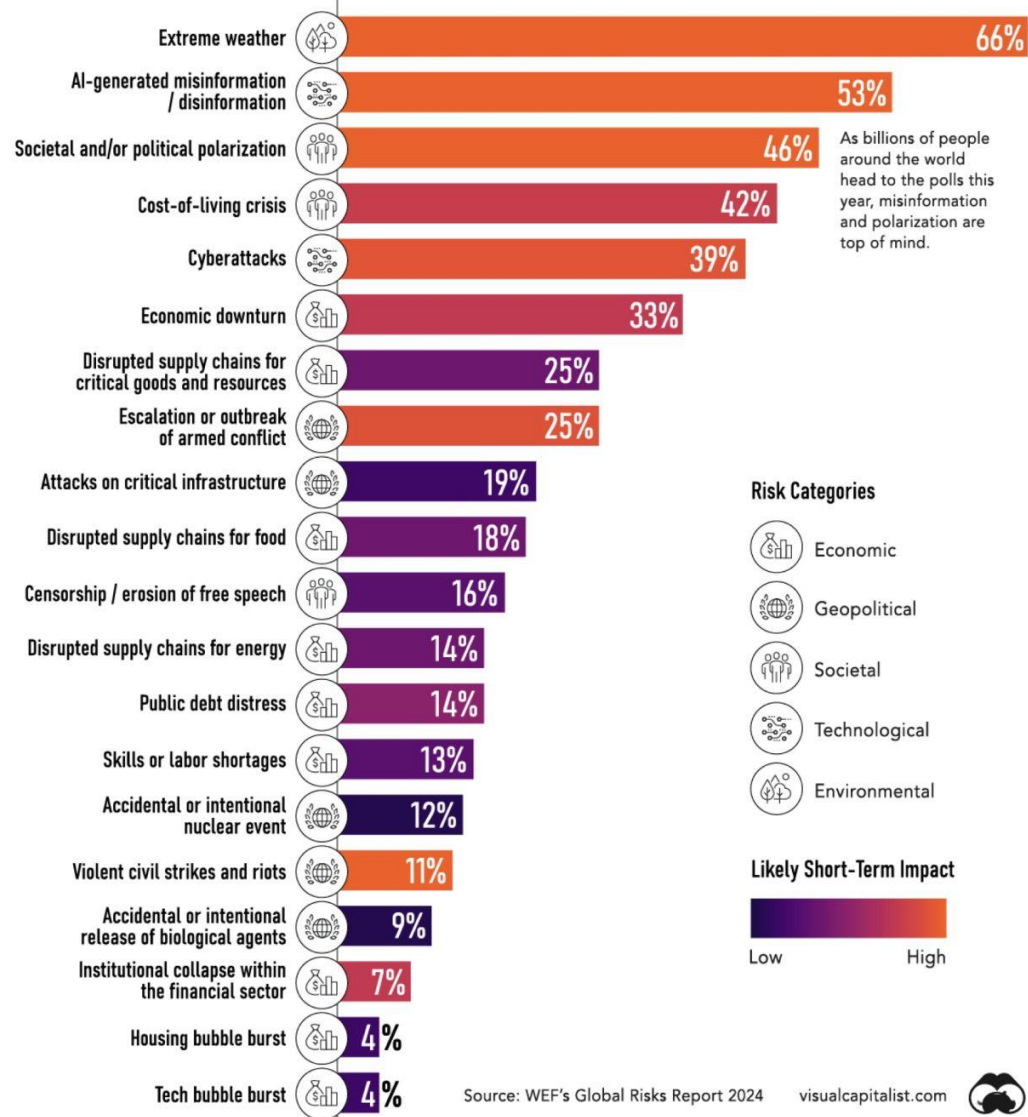
Tech Impact

- a) Extreme Weather
- b) AI Generated Untrusted Content
- c) Cyberattacks
- d) Attacks on Critical Infrastructure
- e) Skills/Labor Shortages

THE TOP GLOBAL RISKS IN 2024

The World Economic Forum surveyed 1,490 leaders on the top global risks in 2024 and their potential scale of impact.

Q Please select up to five risks that you believe are most likely to present a material crisis on a global scale in 2024.



Refreshed Set of Technology Transitions

Target Outcomes

Business
Performance/
Leadership
Development

**Sustainable
Operations/**
Digital Execution

**Safer &
Trustworthy
Systems/**
Human-Machine
Interface (HMI)

Technology Transitions (2024+)

Generative AI

Green/Sustainable
Tech (ESG)

Trusted and
Augmented Apps

Hyperscalers

Digital Twins

Core Common Services

Process
Automation

AI/ML
Modelling

Augmented
Operations

Decentralized
Assets

Trusted
Design

Cyber-
Security

Technology Transitions (2024-25)

| New Technology | Expected Adoption | Current Trends |
|-------------------------------|---|--|
| Generative AI | Gartner predicts that “by 2026, more than 80% of enterprises will have used Generative AI APIs and models and/or deployed GenAI enabled applications in production environments, compared to less than 5% in 2023 ”. Gen AI will help bring new products to market faster, increase business efficiency and productivity, hyper-personalization, and the most advanced technology available today, within everyone’s reach. | <ul style="list-style-type: none"> • <u>TimeGPT</u> • <u>Private AI</u> • <u>Gen AI for Embedded Systems</u> |
| Green/ Sustainable Tech | According to the latest CEO survey by PWC, 39% of CEOs are concerned about the future of their businesses. They believe that switching to green technologies is necessary to address these concerns. 75% of consumers are more likely to buy from companies fighting climate change. | <ul style="list-style-type: none"> • <u>Google's DeepMind AI</u> reduces energy consumption in data centers by 40% • <u>GreenWave Reality</u> enables users to track and reduce energy usage • <u>IBM Food Trust</u> promotes sustainable and ethical sourcing with blockchain-based traceability |
| Trusted and Augmented Apps | The global Artificial Intelligence Trust, Risk and Security Management (AI TRiSM) market size was USD 1.72 Billion in 2022 and is expected to register a steady revenue CAGR of 16.2% during the forecast period, according to latest analysis by Emergen Research | <ul style="list-style-type: none"> • <u>Trusted AI offerings from Top Mgmt Consulting Firms (KPMG, Deloitte)</u> • <u>User driven AI based workflow systems (KNIME)</u> |

Technology Transitions (2024-25)

| New Technology | Expected Adoption | Current Trends |
|---------------------|--|---|
| Hyperscalers | Hyperscaler data center buildouts and upgrades will nearly triple cloud compute and storage capacity in the next six years, according to Synergy Research Group projections. | <p>Gen AI workloads, which require higher-capacity server technology, has intensified competition among the largest hyperscalers to capture market share.</p> <ul style="list-style-type: none">• <u>AWS, Microsoft and Google Cloud have all pledged to upgrade infrastructure to meet customers' AI compute needs</u> |
| Digital Twins (DTs) | Gartner estimates that by 2027, 40%+ of large companies worldwide will be using Digital Twin in their projects to increase revenue. | <ul style="list-style-type: none">• Empowering DTs with <u>Artificial intelligence (AI)</u>• Integrating with <u>Virtual reality (VR) & Augmented reality (AR)</u>• <u>DT models for Sustainability Analytics</u> |

Key Industry Players – Gen AI

AI 50 2023

VISUALIZED

Forbes

SEQUOIA

MERITECH

Apps

| CONSUMER USES | ENTERPRISE STACK | INDUSTRY VERTICALS | | | | | |
|---|--|----------------------|--|--|---|--|------------------------|
| ENTERTAINMENT character.ai MidJourney | GENERAL PRODUCTIVITY ADEPT tome glean AlphaSense | LAW FIRMS Harvey. | CREATIVE runway MidJourney imagen descript | HEALTH iz.ai BAYESIAN HEALTH insitro PathAI UNLEARN | DEFENSE ANDURIL Shield AI SLINGSHOT VANNEVAR Labs | AGRICULTURE & CLIMATE Pachama FarmWise | CONSTRUCTION CANVAS |
| PRODUCTIVITY OpenAI ChatGPT neeva | GENERAL & ADMINISTRATIVE Ironclad synthesia eightfold.ai | | | | | | |
| OTHER trigo waabi | SALES & CUSTOMER SUPPORT GONG Clari RevComm PolyAI | | | | | | |
| | MARKETING Jasper WRITER | | | | | | |
| | EPD/IT/SECURITY Moveworks VECTRA Abnormal GitHub Copilot | | | | | | |

Infrastructure

| DEPLOY & MONITOR | FULL STACK LARGE LANGUAGE MODELS | | |
|--|---|--|-------------------------------------|
| Hugging Face arize | OpenAI ANTHROPIC cohere character.ai Inflection | | |
| TRAIN & FINE TUNE MODELS | | | |
| Weights & Biases mosaicML PyTorch A** | | | |
| USE OPEN SOURCE MODELS & FRAMEWORKS | | | |
| Hugging Face Stanford Alpaca LLaMA** | | | |
| STORE & COMPUTE | HARDWARE | | |
| LABEL / PROCESS DATA Snorkel scale surge* COACTIVE | DATA WAREHOUSES / LAKEHOUSE snowflake* databricks | CLOUD SERVICE PROVIDERS Google Cloud* aws* Azure* | NVIDIA* AMD* intel* (etc.) |

Reference - SEQUOIA CAPITAL

* Foundational Company not on the AI 50 because it's public

** Notable open source project not on the AI 50 because it's not a company

Key Industry Players – Digital Twins



1

Increasing implementations to meet sustainability goals

2

Increasing deployments as virtual sensors in complex conditions

3

Maturing partnerships between hyperscalers and OT/simulation specialists

4

Mounting promotion of interoperability across different systems

Reference



Summary/Learnings

- New technologies bring efficiency, cost savings, better customer experiences, and a competitive edge.
- Risks include data breaches, system failures, and impacts on morale or satisfaction.
- Evaluation involves considering implementation costs, ROI, and associated risks.
- Confidence in technologies requires transparency, accountability, collaboration, and ethical frameworks.
- A careful approach ensures these technologies benefit society at large rather than limit to few enterprises.





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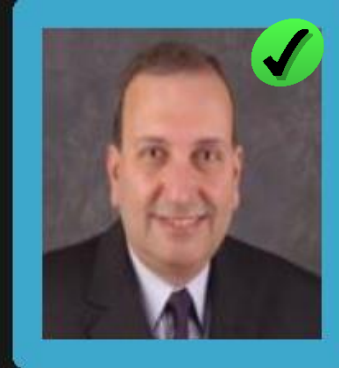
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Technology Advances causing a Clash of Trends

Remote Working is well established but now clashing with Company Governance/Operations

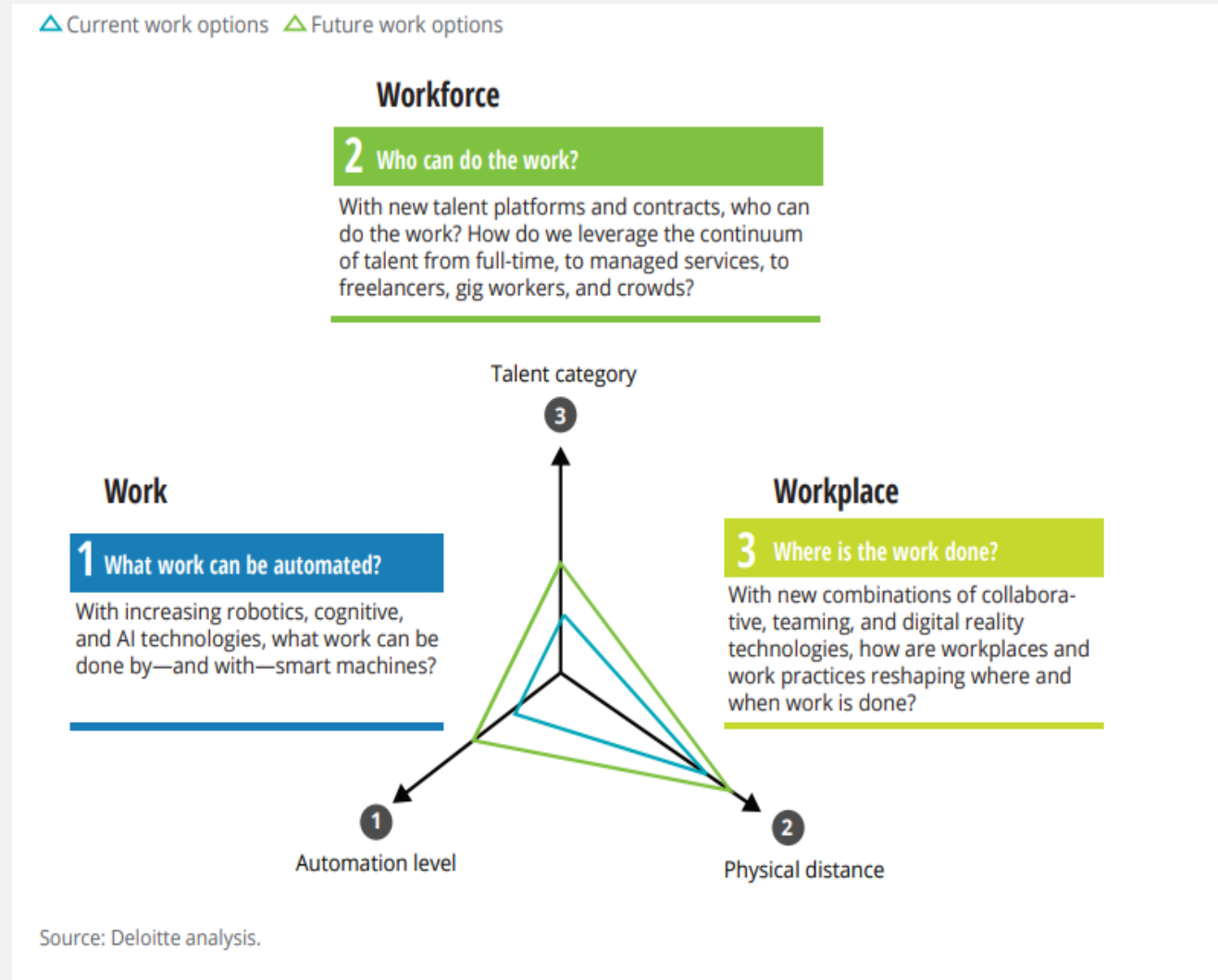
Emergence of AI tools creating fear of job loss – Trend towards Unions growing

Conversion to Renewables is Hitting Roadblocks

In the real world, Automation is proving more challenging than anticipated

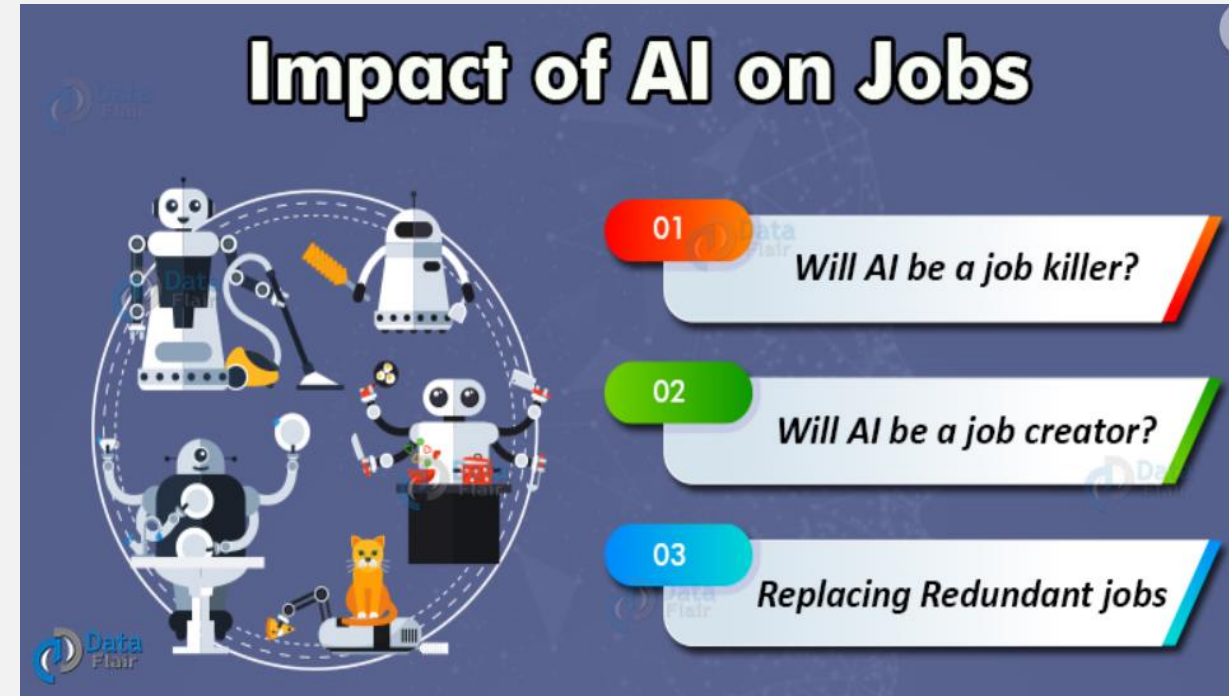
“Remote Working” Vs “Return to Workplace”

- Covid - Remote working became the norm. Conferencing technologies advanced fast
- Post-Covid - Companies need in-person meetings for innovation and project work
- Return to Workplace policies meeting with huge resistance from workforce used to working from home



“Emergence of AI Tools” Vs “Loss of Jobs”

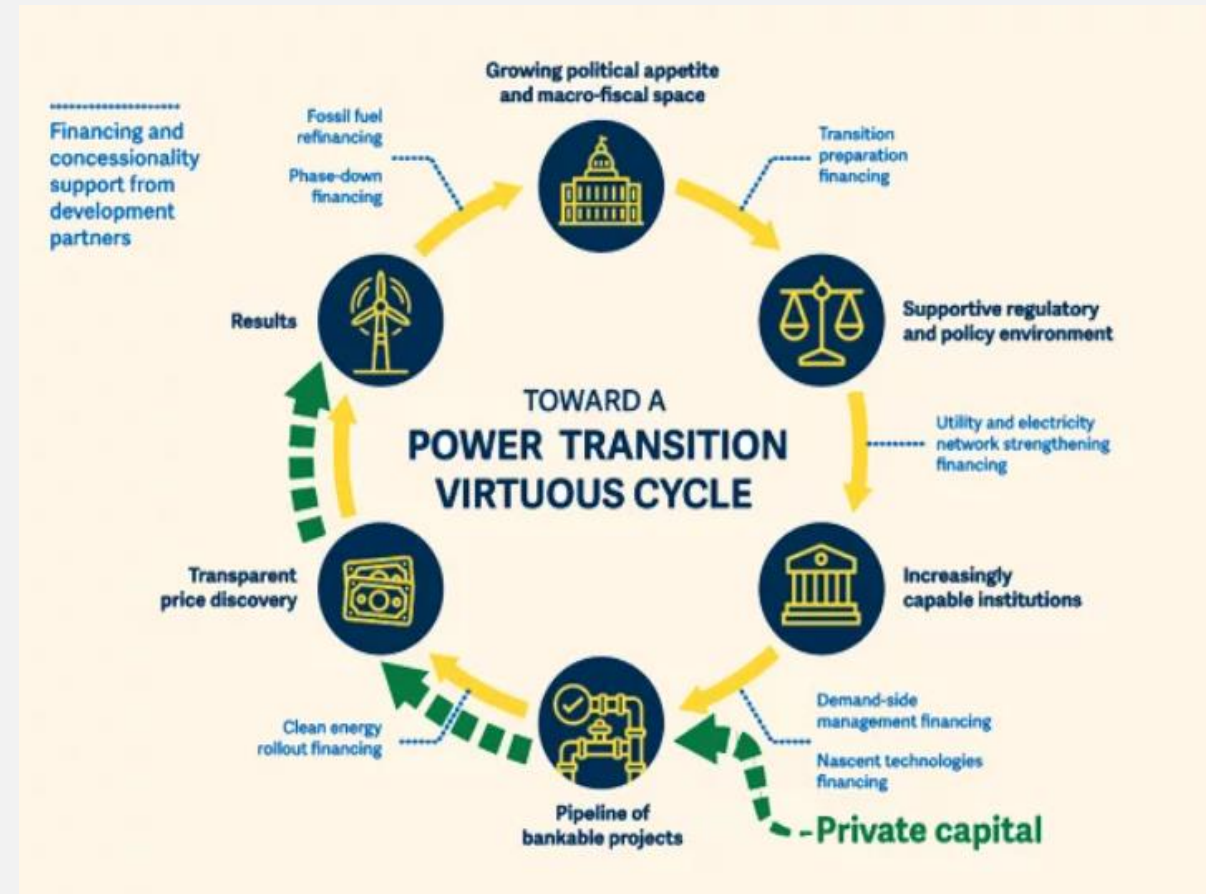
- New AI technology posing serious threat to white collar jobs
- Everything from engineering design, customer service, media to healthcare jobs is on the table
- Current workforce resisting – strikes, unionization increasing
- AI adoption challenged with Unions fighting to preserve jobs



Reference – DataFlair

“Energy Transition” Vs “Growth & Profitability”

- Big push from governments and the climate change lobby to move to renewable energy sources
- Solar, Wind and EV technologies advancing rapidly
- But serious challenges have emerged
 - War in Ukraine and energy supply uncertainty has increased reliance on fossil fuels
 - Solar facing huge resistance from landowners and local townships
 - Wind technology has serious reliability issues, costs of wind projects have skyrocketed, many wind projects cancelled
 - EV sales have been slower than expected – other than Tesla, customers not buying EVs at scale – battery cost and performance issues remain



Reference – The World Bank

“Automation Expectations” Vs “Ground Realities”

- Robotics technologies advancing rapidly
- Factory automation progressing – new technologies lowering cost of implementation
- Digital twins have seen strong adoption
- *But autonomous driving is hard to implement* – **regulators have banned self-driving vehicles** – big setback
- Cybersecurity threats are growing, giving pause to companies implementing highly connected automation solutions

Small & Medium Enterprises (SMEs) can take advantage of these clashes by developing innovative apps or services to enable compromises and reduce friction



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Organizations In the Future: Digital & Social Innovation

Using technology to enable social innovation.
“Awareness, Connectivity, Execution”



Performatica
Foundation

Build on new MMI paradigm

(Technology & Experience)

- ✓ Access to experiential & industry knowledge
- ✓ Collective thinking on key global issues



(System Advisors helping to solve complex industrial problems)



Performatica
Ventures



Entities working
towards
Transformation

Digital & Social innovation
through sustainable
enterprises and leadership
development

Strive for Social & Industry Innovation

- ✓ Awareness of ESG issues
- ✓ Purposeful Organization models to create, demonstrate & propagate results at individual, business & community levels

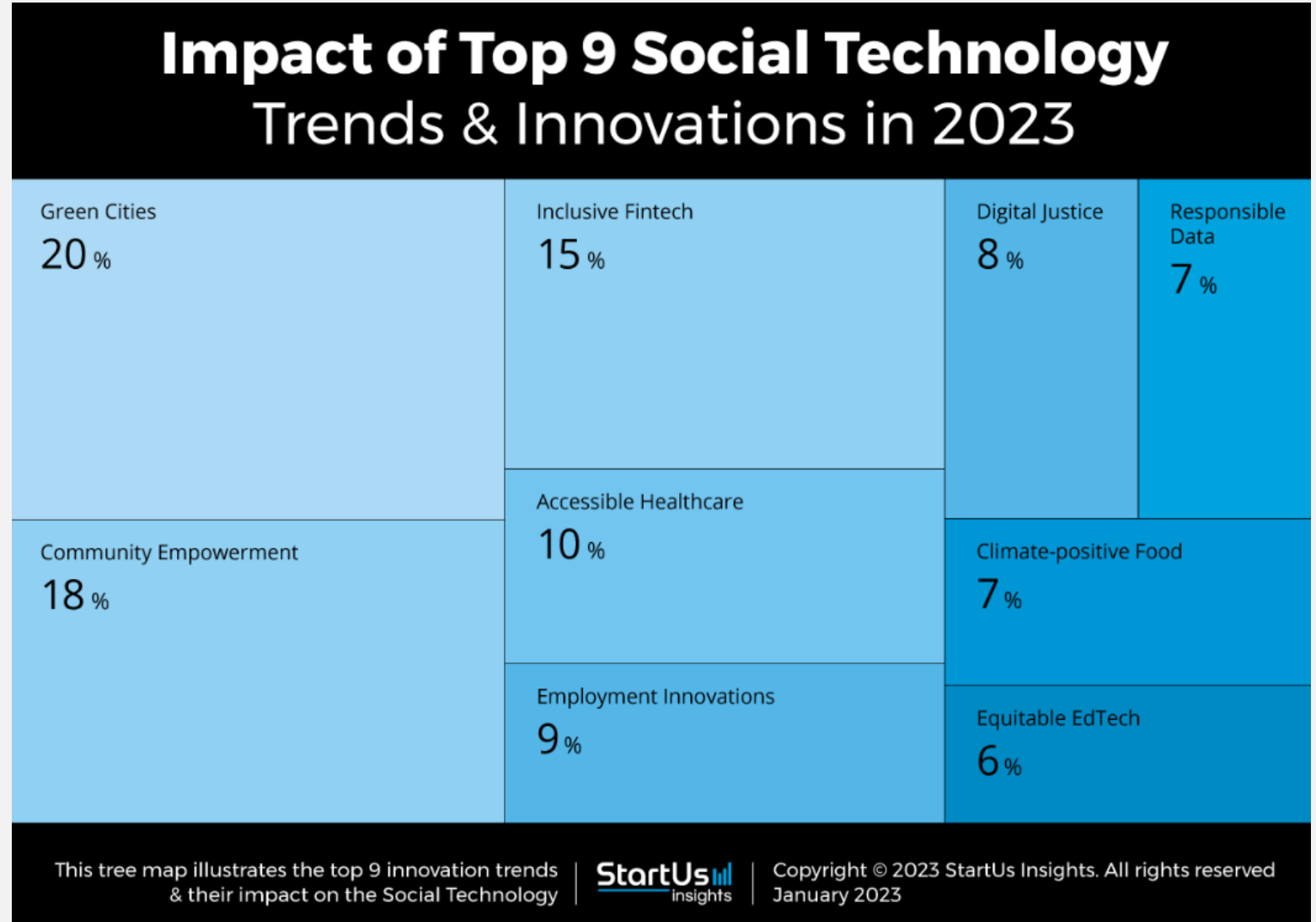
(Technology enabling Sustainable Social Enterprises)

Using leadership training to benefit from social & responsible digital technology trends
“Leadership Development Need for Ethical Technology Deployment”

Social Technology Trends

- Smart/Green Cities
- Community Empowerment
- Inclusive Fintech (Lending)
- Accessible Healthcare
- Employment/Job Profile Innovations
- Smart Legal
- Climate for Food
- Equitable EdTech

Reference – StartUs Insights



Technology Impact on Social Segments

Agriculture

Carbon Credits Wallet,
Market Connectivity
for Farmers

Crop
Production/Distribution/
Yield Prediction with
Financial models—
Insurance, Carbon
Credit, Commodity

Healthcare

Tele-Medicine with
e-Clinics

Gen AI as a Health
Advisor from Trusted
Sources

Education

Remote Learning
Community
Development
Green Energy Skills
Development

Connected
Communities
Energy, Education,
Health & Resource
Access Options

Panel Discussion: Emerging Technologies & Transition



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Performatica: Adopting a Trusted & Sustainable Enterprise Model

Performatica Ventures

Sustainable Analysis for Energy Transitions

Scope Emission Analytics for Energy, Utility & Mfg firms

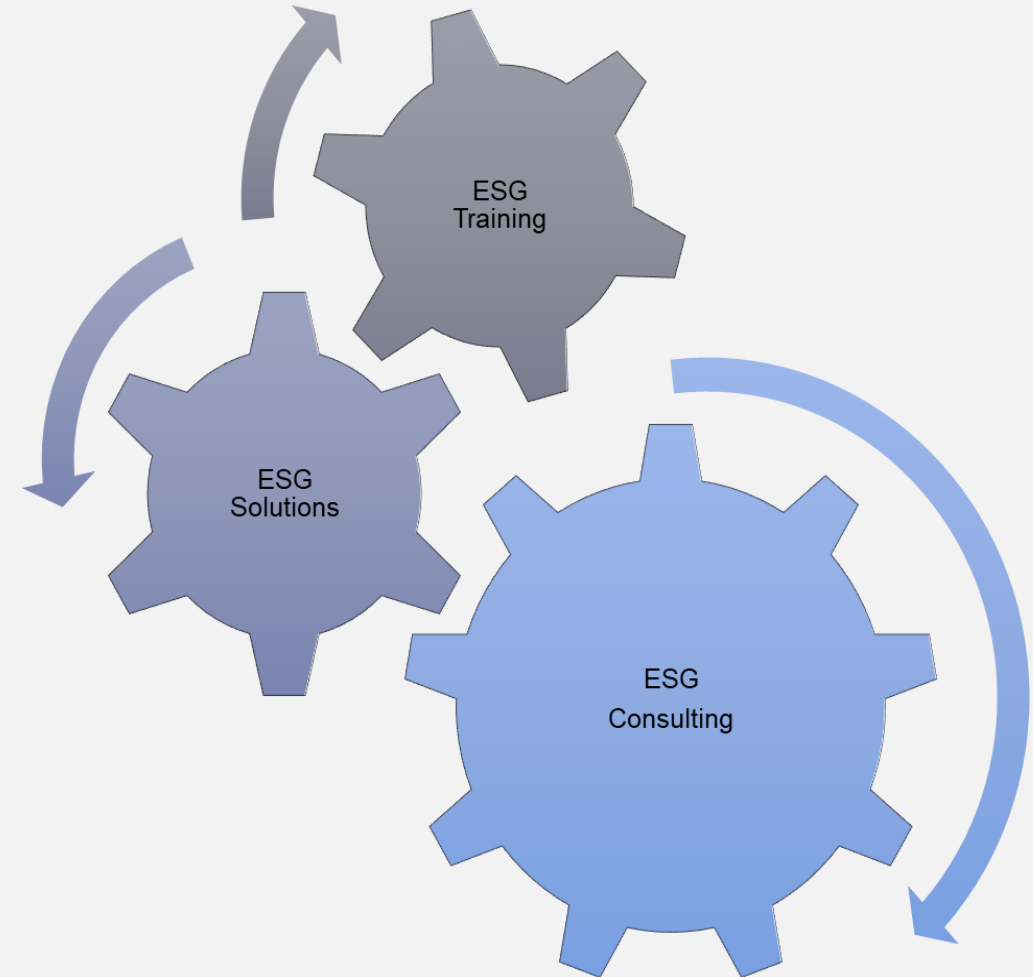
ESG Training for Leaders

Performatica Foundation

Carbon Credits Wallet Platform for Farmers

Climate Data Analytics for Agriculture/Farming Community

Green Skills Development for Farming Community



Thank you



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