

## **Table of Contents**

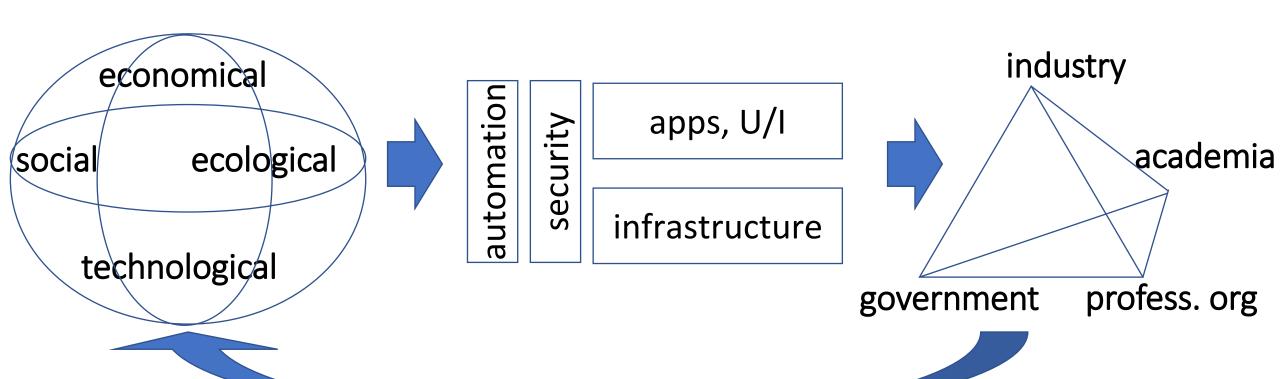
- Executive Summary (4 slides): executive summary
- Report (49 slides): high level report
- Extra Materials (55 slides): materials introduced originally pre-panels
- Regional Reports (141 slides): summary from 10 panels (ONLY DISTRIBUTED TO PANELLISTS)
- Unstructured Feedback from Survey (92 slides): feedback from 15000 surveyed individuals (ONLY DISTRIBTUED TO SURVEY TAKERS)



world is changing.....

technology is evolving....

....stakeholders can help



**FACTORS** 

**TECHNOLOGIES** 

RECOMMENDATIONS

## **How is the World Changing?**

Global just-in-time supply chains → Regional, home-bound deglobalization, plan B

Global industry production → Customized regional products owning tech

Regional workforce market → Crowdsourcing cutting global boundaries

Supplemental gig economy → Gig economy responsible for individuals

Benefits/ Corporate → Purpose/ Ecosystem

Office WF  $\rightarrow$  Hybrid WF

White/blue collar → New collars

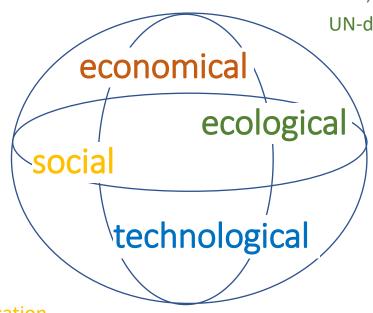
Diversity → Diversity, Equity, Inclusion

People ready for tech → Tech-ready people

High-tech → high-touch, high-care

Training → reskilling, upskilling, continued education

Work as a means of living → Work as a means of fulfilment



Cities, hub & spoke model → Support geo depressed regions

UN-driven sustainability → Social startups & global industry

Protect the Planet → Return to the Planet

Signing the treaties → act collaboratively

Reactive (to COVID, ...) → Preventive

Automated → Autonomous

Technical standards → Social-technical standards

Stove pipes in technology → Interdisciplinary co-design

Social networks (humans) → Sensor networks (machines)

Technical advancement → human-centricity and ethical enablement

## **How is Technology Evolving?**

Robots in fenced environment  $\rightarrow$  real-time responsive collaboration Al-assisted  $\rightarrow$  Explainable, mission-critical AlOps Reusable code, patterns  $\rightarrow$  Low-code no-code Virtual and assisted reality  $\rightarrow$  Metaverse

Telepresence → Digital twins

automation

security

apps, U/I

infrastructure

Al-assisted cyber analysts → Al/ML replacing analysts

Physical protection → Supply chain guarantees

Privacy-preserving → Privacy-driven

Bitcoins and digital currency → NFTs

5G, WiFi6 → drone satellites communication for rural

Just-in-time production → Additive manufacturing

Quantum communication → Quantum computing

Assisted driving → autonomous driving

Data analytics → Datacentric AI

Economical divide education → digital divide education

Corporate IT, devices → CostShare, Byo\*, broadband

Voice recognition → Hands-free Voice Control

Centralized data analytics → Al@edge

## Recommendations

It is all about people! Hire those who can adapt! Best people bring best people!

Office/home have advantages/drawbacks for different career stages; go hybrid

Early career employees and new tech – attractor for hiring

Companies have a duty to give back to communities

industry academia

professional

organizations

Enable people to re-invent themselves multiple times throughout career

Retrain for new tech., e.g., AI, reskill, upskill, vocational

Changing demand for skills: interdisciplinary, global:

Learning never ends; train to learn how to learn

Balance properly labor markets

government

Look holistically at technology & society

Take advantage of remote work for geo-depressed areas

Enable reliable, high-speed communications infrastructure

Establish sustainable Workforce in a well-balanced labour system

Enable inclusive and equitable technology access for the underserved populations

Redefine concepts, define hybrid career, assist individuals and corporations

Derive principles, best practices for trust, transparency, accountability, policies

Leverage power of convening, educate legislators, technology predictions & roadmaps

Organize community responses to the issues of safety, security, and privacy when exploiting AI & Robotics; collaborate with legislators, international bodies