



World Federation of Engineering Organizations  
Fédération Mondiale des Organisations d'Ingénieurs

# Inter-Civilization Exchanges and Mutual Learning: Innovative Development of Science and Technology

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WFEO / FMOI

# AI in the Civilizational Context

## Transformative Force

AI is rapidly changing the world, impacting healthcare, supply chains, disaster prediction, and education.

## Profound Questions

How will AI affect civilizations? Will it bridge cultures or deepen divides? Amplify humanity or erode heritage?

## Technology's Intent

History shows technology is not neutral; it carries the intent, ethics, and values of its designers and societies.



# WFEO: Global Voice for Ethics & Equity

Founded in 1968 under UNESCO, WFEO represents over 30 million engineers globally, promoting sustainable, ethical, and inclusive innovation aligned with UN SDGs.

WFEO's Committee on Engineering for Innovative Technologies (CEIT) published *"Big Data and AI Principles in Engineering,"* outlining seven guiding principles for responsible AI development.





# Ethical Imperatives for AI

## 1 Humanity & Environment

AI must benefit humanity and protect the environment.

## 2 Inclusiveness & Fairness

Ensure AI is inclusive, fair, and empowering for all.

## 3 Privacy & Integrity

Maintain privacy with integrity in AI systems.

## 4 Transparency & Accountability

Promote transparency and accountability in AI development.

## 5 Peace, Safety & Security

AI should contribute to global peace, safety, and security.

## 6 Collaboration

Foster collaboration across disciplines and cultures.

# Generative AI & Global Governance

WFEO's 2024 report on *"Safety and Global Governance of Generative AI"* urges an inclusive, multilateral framework under the UN system.

WFEO advocates for global AI safety standards, transparent auditing, and equitable access to AI education, especially for developing nations.



# AI's Impact: A Five-Dimensional Lens



## Cultural Representation

Develop multilingual, culturally aware datasets for diversity.



## Ethical Frameworks

Build AI on plural civilizational values like compassion and justice.



## Access & Equity

AI inclusion is a human right; empower developing nations.



## Inter-Civilizational Learning

AI can translate ancient wisdom and indigenous knowledge globally.



## Resilience & Sovereignty

Build local AI capacity to avoid dependence and ensure cultural compatibility.



# WFEO in Action: Engineering for Humanity

This year, WFEO hosted the Global AI Symposium 2025, co-led the UN STI Forum session on AI for SDGs, and trained 300+ engineers in Africa in AI applications.

These actions reflect WFEO's belief that technological progress must be co-created by all civilizations.





# Conclusion: Engineering Tomorrow's Civilizations

“Wisdom, compassion, and courage are the three universally recognized moral qualities of humanity.”

— Confucius

We must build AI with conscience, for peace, progress, and plurality, interconnecting civilizations in deeper understanding. AI must enrich, not erase, civilizations.

