

AI and Energy for Sustainable Digital Development: Governance, Infrastructure, and Global Cooperation

THE CORE TENSION

AI scales – energy pays the bill

More compute = more power demand

AI as load

Data centers, training, inference

TWO FACES

AI as tool

Grid optimization, forecasting

THREE DIMENSION OF THE PROBLEMS

Infrastructure

Power grids, data centers, water & cooling

Cybersecurity

Critical infra. attacks, AI-powered threats, resilience & restraint

Governance

Standards & metrics, regulatory frameworks, accountability

THE STRUCTURAL CONSEQUENCE

Digital sovereignty & global cooperation

Who controls infra. & data ? North-South divide

THE “SO WHAT” - WHAT WE NEED

Sustainable digital development

Frameworks, cooperation and accountability for a liveable AI future