

From Principles to Power: The 2015–2025 AI Governance Turn

Laws, Standards, and What to Do Next

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How to use this deck (interactive format)

Structure per instrument: *Title* → *Definition/Scope* → *Intuition/Example* → *Obligations/Enforcement/Timeline*.

Class prompts: discussion questions are embedded on many slides for think-pair-share.

Focus: Only the regulations, statutes, and standards covered in the assigned reading.

What we skip: generic definitions (“audit”, “governance”) unless essential to a rule.

Goal: equip you to map use-cases to obligations across jurisdictions and standards.

Agenda

- 1 Global anchors (principles, soft law, standards)
- 2 European Union
- 3 China
- 4 United States (federal & state)
- 5 United Kingdom
- 6 Canada
- 7 Asia-Pacific (selected)
- 8 Latin America
- 9 Africa (selected rights in ADM)
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- 12 Case labs (interactive)
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Roadmap

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First intergovernmental AI framework adopted by 40+ countries; later echoed by G20.

OECD AI Principles: Definition & Scope

Instrument: Non-binding Recommendation setting 5 value-based principles (*inclusive growth; human-centered values; transparency; robustness; accountability*) and 5 policy recommendations.

Scope: Applies to AI systems broadly (definition influenced later laws). Adopted by OECD members and adherents.

Purpose: Common baseline to guide national policy, standards, and cross-border cooperation.

OECD AI Principles: Intuition & Example

Intuition: Create a shared lingua franca for “trustworthy AI” before binding laws emerge.

Example: A national AI strategy cites OECD principles to justify transparency obligations for recommender systems.

Prompt: Where do these principles map to *binding* duties in later regimes?

OECD AI Principles: Obligations, Enforcement & Timeline

Obligations: None directly; influential in procurement criteria and regulator guidance.

Enforcement: Soft law (peer pressure; policy reviews via OECD AI Policy Observatory).

Timeline: Adopted 2019; continuing implementation via national roadmaps and OECD tooling.

First universal (193 states) normative instrument on AI ethics.

UNESCO Recommendation: Definition & Scope

Instrument: Non-binding recommendation addressing data governance, human rights, inclusion, environmental impact.

Scope: Governments commit to implement via domestic policy; calls for safeguards against rights-violating AI uses.

Interfaces: Informs national AI strategies, public-sector policies, and education.

UNESCO Recommendation: Intuition & Example

Intuition: A human-rights-centered anchor to shape emerging national rules.

Example: A country adopts a moratorium on some biometric surveillance citing UNESCO guidance.

UNESCO Recommendation: Obligations, Enforcement & Timeline

Obligations: Programmatic—impact assessment tools, oversight mechanisms, bans for rights-incompatible uses (via domestic law).

Enforcement: Moral suasion; periodic monitoring by UNESCO.

Timeline: Adopted Nov 2021; national implementations vary 2022–2025.

Multilateral commitments on generative/frontier AI safety and cooperation.

G7 & Bletchley: Definition & Scope

Instrument: Joint statements and principles on risk-based governance, evaluation, information sharing.

Scope: Voluntary; targeted at generative and “frontier” models and platform risks.

G7 & Bletchley: Intuition & Example

Intuition: Rapid coordination for fast-moving foundation models; prepare evaluation/red-teaming norms.

Example: Safety institutes (UK-led) test models; shared workstreams on evaluations.

Obligations: None legally binding; influence procurement and national standards.

Timeline: 2023 summits; follow-ons in 2024/2025 iterate on evaluation guidance.

First certifiable AI management system (AIMS) standard.

Instrument: International standard specifying requirements for an AI management system (policy, roles, risk processes).

Scope: Organizational-level; can be certifiable by accredited bodies.

Fit: Complements legal requirements (e.g., EU AI Act quality mgmt system).

ISO/IEC 42001: Intuition & Example

Intuition: “ISO 9001 for AI”: institutionalize governance so each AI system follows a controlled lifecycle.

Example: A bank certifies to 42001 to show due diligence to regulators and customers.

ISO/IEC 42001: Obligations, Enforcement & Timeline

Obligations: Establish AIMS, risk criteria, documentation, competence, monitoring, continual improvement.

Enforcement: Voluntary; becomes quasi-mandatory via contracts or regulatory recognition.

Timeline: Published 2023; adoption accelerates 2024–2027 alongside EU AI Act roll-out.

Process standard aligned to ISO 31000 for AI-specific risks.

Instrument: International guidance on identifying, analyzing, evaluating, and treating AI risks.

Scope: System-level risk processes across lifecycle (data, model, deployment, post-market).

Intuition: A common, auditable approach to bias, robustness, safety, and explainability risk.

Example: Impact assessment template uses 23894 controls as checklist.

ISO/IEC 23894: Obligations, Enforcement & Timeline

Obligations: Voluntary; often paired with NIST AI RMF and sector rules.

Timeline: 2023 publication; referenced by regulators and harmonized standards under EU AI Act.

Transparency of autonomous systems; algorithmic bias considerations.

Instrument: Technical standards specifying transparency artifacts (7001) and bias controls (7003).

Scope: Design-time and evaluation-time requirements; complements law.

Intuition: Make “explainability” and “bias” tangible and testable.

Example: A vendor supplies a 7001 transparency statement and 7003 bias test report with their model card.

Obligations: Voluntary; may be baked into procurement and audits (e.g., NYC hiring tools).

Timeline: Published 2021/2022; adoption grows via assurance ecosystems.

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Horizontal, risk-tiered law with GPAI/foundation-model duties; extraterritorial reach.

Instrument: EU Regulation (directly applicable) with four tiers: prohibited, high-risk, limited-risk (transparency), minimal.

Scope: Providers, deployers, importers placing AI on EU market or whose outputs affect people in the EU.

High-risk set: Safety components of regulated products and Annex III domains (e.g., employment, credit, essential services, law enforcement).

Intuition: Product-safety style, ex-ante compliance to protect fundamental rights and safety.

Example: An HR-screening system in Annex III must undergo conformity assessment and be registered before use.

EU AI Act: Obligations, Enforcement & Timeline

Core duties (high-risk): risk mgmt system; data governance; technical documentation; human oversight; accuracy/robustness/cybersecurity; CE marking; post-market monitoring.

GPAI/foundation models: documentation on capabilities and training-data summaries; safeguards for illegal content; additional duties for very capable models.

Enforcement: National market surveillance + EU AI Office; fines up to 6% global turnover.

Timeline (phased): bans early; GPAI obligations ~12 months post-entry; high-risk ~24 months; legacy grace windows.

Automated decision-making limits and rights; DPIAs for high-risk processing.

Instrument: EU data protection law provision on decisions based solely on automated processing with significant effects.

Scope: Requires legal basis and offers right to obtain human intervention, to express viewpoint, to contest decision.

Interface: Continues to apply alongside the AI Act.

Intuition: Preserve agency where algorithms decide consequential outcomes.

Example: Credit denial via automated scoring must provide meaningful information and human review path.

GDPR ADM: Obligations, Enforcement & Timeline

Obligations: Inform data subjects; ensure fairness; conduct DPIA for high-risk profiles; honor access/explanation rights (where applicable).

Enforcement: Data Protection Authorities; fines under GDPR regime.

Timeline: In force since 2018; active enforcement through DPAs.

Algorithmic accountability for very large online platforms (VLOPs) and transparency to users.

Instrument: EU Regulation imposing risk assessments, independent audits, recommender transparency and user choice (including non-profiled feed).

Scope: Platforms meeting VLOP thresholds; general duties across intermediaries.

Intuition: Mitigate systemic risks amplified by recommender algorithms (disinformation, harms to minors).

Example: A VLOP must document risk mitigations for recommender systems and offer a non-profiling option.

DSA: Obligations, Enforcement & Timeline

Obligations: Annual systemic risk assessments; transparency reporting; access to data for vetted researchers; labeling for manipulated media.

Enforcement: European Commission for VLOPs; national coordinators otherwise.

Timeline: Effective 2023 for VLOPs; full application 2024.

Ease victim redress for AI-caused harm; clarify software as product.

Instrument: AI Liability Directive (proposal) and revised Product Liability Directive.

Scope: Presumptions of causality in certain non-compliance; disclosure obligations; extends strict liability to software and updates.

EU Liability: Intuition & Example

Intuition: Close proof gaps where opaque AI complicates causation.

Example: Court can order disclosure of technical docs from provider to injured party.

EU Liability: Obligations, Enforcement & Timeline

Status: Advancing in legislative process; expected to complement AI Act enforcement window.

Impact: Increases litigation exposure; elevates documentation and logging importance.

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Record-filing, transparency, and user controls for recommender systems.

China Recommenders: Definition & Scope

Instrument: CAC-led binding rules for algorithmic recommendation services.

Scope: Disclosure of basic principles, purposes, and mechanisms; provide opt-out and non-targeting options; prohibit illegal data use and harmful amplification.

Registration: Algorithm record-filing with CAC for certain services.

China Recommenders: Intuition & Example

Intuition: Align platforms with state policy goals and reduce harmful social effects of algorithms.

Example: Platform offers “no personalization” toggle and publishes algorithm filing ID.

China Recommenders: Obligations, Enforcement & Timeline

Obligations: Filing; transparency; content and data-use constraints; complaint handling.

Enforcement: CAC inspections, orders, fines; public registry.

Timeline: Effective March 1, 2022.

Labeling and controls for AI-generated (deepfake) content.

China Deep Synthesis: Definition & Scope

Instrument: Binding rules requiring clear labeling of AI-generated/altered media; user identity verification; log retention.

Scope: Providers of deep synthesis tools and services to the public.

China Deep Synthesis: Intuition & Example

Intuition: Prevent deception and misuse of AI media; ensure traceability.

Example: Video app watermarks AI-altered clips and keeps processing logs.

China Deep Synthesis: Obligations, Enforcement & Timeline

Obligations: Prominent labeling; security assessments; misuse handling.

Timeline: Effective Jan 10, 2023; enforcement via CAC & other agencies.

Security reviews, content controls, algorithm filing, and output labeling.

Instrument: Binding interim measures covering public generative services.

Scope: Accuracy and legality of content; safeguards to reflect “core socialist values”; registration and assessments.

China Generative AI: Intuition & Example

Intuition: License-and-control regime for public genAI amid rapid deployment.

Example: Chatbot provider performs model updates after generating illegal content and reports incident to regulator.

China Generative AI: Obligations, Enforcement & Timeline

Obligations: Algorithm filing; security assessment; watermarking/labeling; content remediation; user real-name verification.

Enforcement: CAC and co-regulators; corrective orders and fines.

Timeline: Effective Aug 15, 2023.

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Whole-of-government directives on safety standards, procurement, and frontier model oversight.

US EO on AI: Definition & Scope

Instrument: Executive policy instructing agencies (e.g., NIST, DHS, HHS, DoL) to set AI safety, security, and civil-rights guardrails.

Scope: Federal use and procurement; notification for very large training runs; watermarking guidance; worker protections.

US EO on AI: Intuition & Example

Intuition: Use executive power to coordinate in absence of omnibus federal statute.

Example: Federal contractors asked to align to NIST AI RMF and safety test guidance.

US EO on AI: Obligations, Enforcement & Timeline

Obligations: Agency actions; standards and reporting that cascade to vendors.

Enforcement: Administrative (procurement leverage; OMB oversight).

Timeline: Issued Oct 2023; rolling agency deliverables through 2024–2025.

US voluntary framework: Govern, Map, Measure, Manage.

Instrument: Consensus guidance with Playbook; profiles for sectors and genAI emerging.

Scope: Any organization developing or using AI; complements ISO 23894/42001.

Intuition: Practical scaffolding for trustworthy AI without prescriptive law.

Example: A deployer builds an AIA aligned to RMF functions with metrics for bias and robustness.

Obligations: Voluntary; often required in federal procurement and state laws' safe harbors.

Timeline: v1.0 Jan 2023; continuing updates and profiles.

Bias audits and notices for automated employment decision tools (AEDTs).

Instrument: City law mandating annual independent bias audits and candidate notices for AEDTs used in NYC.

Scope: Hiring and promotion tools that substantially assist automated decisions.

Intuition: Transparency and disparate-impact checks in employment where harms are acute.

Example: Vendor publishes public audit summary with selection rate ratios across demographics.

NYC LL 144: Obligations, Enforcement & Timeline

Obligations: Pre-use audit; candidate notice and opt-out; data retention for auditing.

Enforcement: City Department of Consumer and Worker Protection; penalties per violation.

Notice, explanation, consent for AI analysis of interview videos; reporting.

Illinois AIVIA: Definition & Scope

Instrument: State statute governing use of AI to evaluate video interviews.

Scope: Employers using AI analysis in hiring; obligations around consent and data handling.

Illinois AIVIA: Intuition & Example

Intuition: Early, narrow use-case law to protect applicants.

Example: Employer must explain how AI evaluates candidates and obtain express consent.

Illinois AIVIA: Obligations, Enforcement & Timeline

Obligations: Notice, explanation, consent; delete videos upon request; demographic reporting pilot.

Enforcement: State AG; private remedies depend on context.

Bias prohibitions in insurance; reasonable care, impact assessments, and transparency for high-risk AI.

Colorado AI Laws: Definition & Scope

Instrument: Sectoral rule for insurance unfair discrimination; broad AI statute imposing duties on developers and deployers of high-risk AI.

Scope: High-risk = significant risk of discrimination or significant effects on consumers (e.g., credit, employment, housing, insurance).

Colorado AI Laws: Intuition & Example

Intuition: Blend of consumer protection and civil-rights logic applied to AI outcomes.

Example: Insurer maintains governance program and bias testing under SB 21-169; software provider performs impact assessment and publishes summary under SB 24-205.

Colorado AI Laws: Obligations, Enforcement & Timeline

Obligations: Reasonable care to avoid algorithmic discrimination; impact assessments; incident reporting; transparency to consumers interacting with AI.

Enforcement: State Attorney General; safe-harbor concepts via documented risk programs.

Timeline: 2021 (insurance regs phased in 2023); 2024 AI Act with staged dates.

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Principles-first, regulator-led approach (no omnibus Act yet).

Instrument: Policy setting five cross-sector principles (safety, transparency, fairness, accountability, contestability).

Scope: Implemented via existing regulators (ICO, CMA, FCA, MHRA, etc.).

Intuition: Agile, innovation-friendly governance via guidance and sector supervision.

Example: ICO issues explainability guidance for ADM under UK GDPR; CMA principles for foundation models competition.

Obligations: Non-binding principles; regulators incorporate into expectations and codes.

Related law: Online Safety Act 2023 imposes algorithmic risk duties for large platforms.

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High-impact AI obligations; AI & Data Commissioner oversight.

Instrument: Proposed federal law as part of C-27; focuses on “high-impact” AI designated by regulation.

Scope: Risk assessments, mitigation, monitoring, incident reporting; prohibits harmful intent uses.

Canada AIDA: Intuition & Example

Intuition: EU-like focus on high-impact uses with flexible designation via regulations.

Example: Provider documents risks and mitigation for an AI used in credit decisions; keeps records for audits.

Canada AIDA: Obligations, Enforcement & Timeline

Enforcement: AI & Data Commissioner; administrative and criminal penalties for egregious breaches.

Status: Passed House (2023); under Senate review through 2025.

Mandatory Algorithmic Impact Assessment (AIA) for federal services.

Canada ADM Directive: Definition & Scope

Instrument: Treasury Board directive; binding on federal departments.

Scope: Impact levels I–IV drive controls (peer review, source code openness, human oversight); public inventory of systems.

Intuition: Governance-by-procurement and transparency for public-sector ADM.

Example: Immigration triage tool undergoes AIA and publishes overview.

Obligations: AIA; documentation; human-in-the-loop at higher levels; notices to affected individuals.

Enforcement: Treasury Board oversight and audits.

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Promotional law with transparency/risk duties for high-impact AI; effective 2026.

Korea AI Framework: Definition & Scope

Instrument: National framework balancing innovation and trustworthy AI.

Scope: “High-impact” categories (e.g., health, finance); labeling for AI-generated content in contexts; coordination across ministries.

Korea AI Framework: Intuition & Example

Intuition: Moderate guardrails with relatively light penalties; administrative guidance-forward.

Example: Financial AI adheres to transparency guidance; deployer labels AI content per sector rules.

Korea AI Framework: Obligations, Enforcement & Timeline

Obligations: Risk management and transparency for designated AI; fines at administrative scale.

Timeline: Promulgated Jan 2025; enters into force Jan 2026.

Principle-based, non-penal statute to steer policy and coordination.

Japan AI Act: Definition & Scope

Instrument: Framework law promoting AI R&D and responsible use; establishes strategic council.

Scope: No direct private-sector obligations; leverages existing laws and guidelines.

Japan AI Act: Intuition & Example

Intuition: Keep innovation pace high while using soft-law to manage risks.

Example: Industry follows METI/MIC governance guidelines aligned with OECD principles.

Japan AI Act: Obligations, Enforcement & Timeline

Obligations: Voluntary adherence; sector regulators issue guidance as needed.

Timeline: Effective Sept 2025.

Detailed voluntary guidance and a testing toolkit for AI governance.

Singapore Framework: Definition & Scope

Instrument: Model governance framework (v2/v3) and AI Verify testing suite.

Scope: Practical controls (ops mgmt, stakeholder communication, transparency); pilot assurance reports.

Singapore Framework: Intuition & Example

Intuition: Market-led assurance that can scale into certification; procurement lever.

Example: Vendor provides AI Verify report with claims and test evidence.

Obligations: Voluntary; increasingly referenced in public-sector procurements.

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Toward risk-based obligations and an oversight body; building on LGPD ADM rights.

Brazil AI Bill: Definition & Scope

Instrument: Pending legislation; Senate draft strengthens duties and rights incl. explanations.

Scope: Critical/high-risk use-cases flagged; complements LGPD Art. 20 automated decision rights.

Brazil AI Bill: Intuition & Example

Intuition: EU-inspired structure adapted to Brazil's constitutional and consumer law context.

Example: Credit-scoring providers required to provide logic information and redress channels.

Brazil AI Bill: Obligations, Enforcement & Timeline

Status: Under debate; expect phased implementation after passage.

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GDPR-style right to human review for solely automated, consequential decisions.

Kenya ADM Rights: Definition & Scope

Instrument: Data protection statute with ADM clauses.

Scope: Individuals can request human intervention and challenge automated decisions.

Kenya ADM Rights: Intuition & Example

Intuition: Rights-forward approach to algorithmic decisions in emerging markets.

Example: Fintech lending app provides manual review path for adverse decisions.

Enforcement: Office of the Data Protection Commissioner; complaints and audits.

Transparency and challenge rights for impactful automated decisions.

Nigeria ADM Rights: Definition & Scope

Instrument: National data protection law modernizing ADM controls.

Scope: Notice and appeal routes for solely automated, significant decisions.

Nigeria ADM Rights: Intuition & Example

Intuition: Align with global privacy norms; rein-in opaque scoring tools.

Example: Mobile credit scoring subject to user contestation and oversight.

Enforcement: Nigeria Data Protection Commission; guidance emerging.

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First binding human-rights-centered AI treaty (pending adoption).

Instrument: Multilateral treaty focusing on human rights, democracy, rule of law safeguards for AI.

Scope: Public sector and possibly private when performing public functions; risk assessments; oversight.

Intuition: Create a transnational floor for rights-preserving AI governance across Europe (EU and non-EU).

Status: Text finalized in committee; open for signature expected 2024/25; domestic ratifications to follow.

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Comparative models at a glance

	EU (AI Act)	US (EO/NIST & States)	China (CAC rules)
Style	Risk-tiered, prescriptive	Sectoral, enforcement-led, voluntary standards	Category-specific, licensing/content control
Scope	Providers & deployers, extraterritorial	Agencies & sectors; state patchwork	Public-facing platforms/services
Duties	Ex-ante conformity, docs, oversight	Impact audits (NYC), reasonable care (CO), notices	Filing, labeling, security reviews, value alignment
Teeth	Up to 6% turnover	AG/FTC/CFPB enforcement; civil rights	Administrative orders; fines; registration

Standards crosswalk (quick map)

EU AI Act ↔ *ISO/IEC 42001* (quality management) & *ISO/IEC 23894* (risk), plus IEEE 7001/7003 for artifacts.

US NIST AI RMF ↔ maps cleanly to ISO 23894 functions; often used as practical playbook.

NYC LL 144 ↔ IEEE 7003 bias considerations; independent audit reporting patterns.

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Case Lab #1: Hiring across NYC and EU

You deploy an AI screening tool in NYC and across the EU.

Discuss: What documents and tests must exist *before* go-live? Who signs off? What public disclosures are required?

Hint: NYC LL 144 (audit+notice) + EU AI Act (Annex III HR high-risk) + GDPR ADM rights.

Case Lab #2: Generative AI feature in a consumer app (US, EU, China)

You add an image generator and chatbot available globally.

Discuss: Labeling/watermarking, security reviews, content filters, and timeline differences for EU (transparency), US (voluntary/NIST), China (filing and content rules).

Case Lab #3: Insurance pricing model (Colorado, EU)

Discuss: SB 21-169 unfair discrimination testing; EU Act high-risk under essential services; documentation and monitoring regimes.

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Minimal viable AI governance program (reg-driven)

Inventory & classify: map systems to jurisdictional obligations (EU high-risk, NYC AEDT, CO high-risk).

Impact/risk assessments: adopt NIST AI RMF/ISO 23894 aligned templates; store technical files.

Human oversight: define roles and escalation paths per use-case.

Bias & robustness testing: pre-deployment and periodic; vendor attestations; logs for audits.

Transparency: user notices; model cards; deepfake labeling where required.

Post-market monitoring: incident reporting triggers; regression guardrails for updates.

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Key dates (selected, 2024–2027)

EU AI Act: bans and governance early; GPAI ~2025; high-risk ~2026; full ramp by 2027.

China: recommender (2022) → deep synthesis (2023) → genAI (2023) in force.

US: EO deliverables rolling; NYC LL 144 in force 2023; CO AI 2024 staged.

Canada: AIDA progress through 2025.

Korea: Framework Act in force 2026.

Discussion prompts to take home

Where do standards create *de facto* safe harbors across regimes?

What is the strongest extraterritorial hook you must plan for in your product?

How would you evidence “reasonable care” if audited tomorrow?

Convergence on core duties: risk assessment, documentation, transparency, human oversight, monitoring.

Divergence in structure: EU prescriptive tiers; US sectoral + state patchwork; China licensing/control; UK/Japan principle-led.

Practical path: build to the strictest applicable regime; evidence through standards-aligned artifacts.

Q & A