



The ASGR Index

Establishing the Global Benchmark for Systemic AI Governance Readiness | Patrick Upmann

The ASGR Index – Establishing the Global Benchmark for Systemic AI Governance Readiness within the AI Governance

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Abstract

The **ASGR Index (AIGN Systemic Governance Readiness Index)** establishes the global benchmark for measuring organizational maturity in AI governance. Current regulatory approaches, including the EU AI Act, ISO/IEC 42001, and OECD AI Principles, define obligations but lack a consistent and comparable measure of readiness.

The ASGR Index addresses this gap by providing a structured, sector-agnostic framework for assessing governance maturity across cultural, technical, and regulatory dimensions. Developed as part of **AIGN OS – The Operating System for Responsible AI Governance**, the Index functions as the diagnostic layer within a layered governance ecosystem.

Why it matters: The ASGR Index closes the trust gap in AI governance by making readiness measurable and comparable globally. While detailed scoring mechanisms remain proprietary to the licensed AIGN OS framework, this paper establishes the conceptual foundations of the Index and its legitimacy as global prior art.



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1. Introduction



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Over the last decade, artificial intelligence has moved from experimental deployments to critical infrastructures, permeating finance, healthcare, energy, and education. With this expansion, **governance has become an infrastructure challenge** rather than a policy add-on. Regulations such as the EU AI Act, ISO/IEC 42001, and national AI strategies have created obligations for organizations. Yet, a persistent gap remains: **how to measure AI governance readiness in a consistent, comparable, and systemic manner**.

Existing assessment models—conformity assessments, audits, or maturity models—remain **fragmented, sector-specific, or point-in-time**. They fail to provide a **holistic, systemic index** that allows governments, enterprises, and auditors to compare organizational readiness across contexts and over time. Without such a benchmark, both regulators and enterprises lack the tools to establish trust, identify systemic weaknesses, or demonstrate progress.

The **ASGR Index (AIGN Systemic Governance Readiness Index)** addresses this gap. It is the **first global benchmark for AI governance readiness**, designed to measure the maturity of governance infrastructures across multiple dimensions:

- **Governance culture and leadership,**
- **Technical and data infrastructure,**
- **Risk and compliance alignment, and**
- **Trust, ethics, and transparency mechanisms.**

The ASGR Index is not an isolated model but part of the **AIGN OS – The Operating System for Responsible AI Governance**. Within this layered governance system, the Index serves as the **diagnostic layer**, generating demand for readiness checks, trust labels, and certification journeys.

This paper introduces the conceptual foundation of the ASGR Index, situates it within the academic and regulatory discourse, and establishes it as a **scientific reference point and prior art**. Methodological specifics—such as proprietary weightings, question sets, and algorithms—are deliberately excluded, as they form part of the licensed AIGN OS framework. Instead, the paper provides the **structural logic, dimensions, and use cases** that position the ASGR Index as a global benchmark and a catalyst for systemic AI governance adoption.

1.1 Scope and Contributions

This paper makes four key contributions:



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1. **Definition of Index Constructs** – conceptualizes governance readiness across culture, infrastructure, compliance, and trust.
2. **Regulatory Alignment** – anchors these dimensions in the EU AI Act, ISO/IEC 42001, OECD AI Principles, and related frameworks.
3. **Variants and Use Cases** – outlines sector-specific adaptations and adoption scenarios for enterprises, regulators, and auditors.
4. **Proprietary Boundary** – differentiates the public conceptual framework from the protected scoring methodology to safeguard integrity and IP.

1.2 Paper Roadmap

- Section 2 outlines the conceptual foundation of the ASGR Index.
- Section 3 defines the four dimensions and their operationalization.
- Section 4 introduces sectoral variants and their specific risks.
- Section 5 discusses adoption scenarios across enterprise, regulator, and auditor contexts.
- Section 6 situates the ASGR within the broader AIGN OS ecosystem.
- Section 7 explores strategic implications.
- Section 8 addresses limitations and proprietary methodology.

What this paper does not do

This paper does not present empirical benchmark data, statistical validation, or scoring algorithms. These aspects are reserved for future validation studies and licensed applications. The focus here is on establishing the conceptual model, its dimensions, and its systemic positioning within AI governance.

2. Conceptual Foundation of the ASGR

The ASGR Index builds on the recognition that **AI governance must evolve from principles to measurement**. International frameworks such as the **OECD AI Principles**, the **EU AI Act**, and **ISO/IEC 42001** establish normative and regulatory obligations. However, these instruments do not provide a **comparable, systemic benchmark** for measuring how ready organizations are to implement them in practice.

This challenge is not unique to AI governance. In other policy domains, **indices and readiness measures** have served as catalysts for standardization and adoption:



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- The **Human Development Index (HDI)** provided a composite measure for societal progress, combining economic and social dimensions.
- The **ESG (Environmental, Social, Governance) ratings** shaped financial markets by quantifying sustainability commitments.
- The **Digital Economy and Society Index (DESI)** enabled the European Union to monitor digitalization readiness across member states.

These indices share a common feature: they transform **qualitative principles into quantifiable benchmarks**. The ASGR Index applies the same logic to AI governance, defining a **systemic readiness benchmark** that goes beyond compliance checklists and one-time audits.

The **systemic perspective** is critical. AI systems are adaptive, data-driven, and embedded in socio-technical infrastructures. Governance cannot be reduced to isolated controls; it must reflect the **maturity of the entire governance ecosystem**. The ASGR Index is therefore designed not as a binary assessment of compliance, but as a **continuum of readiness**—capturing whether organizations have the culture, infrastructure, and trust mechanisms in place to govern AI responsibly and sustainably.

By situating governance readiness as an **index**, the ASGR enables comparability across sectors and geographies, stimulates accountability, and provides a **baseline for systemic progress** in AI governance.

Design Rationale and Validity Considerations

The ASGR Index is built to ensure conceptual validity by anchoring each dimension in existing regulatory obligations (construct validity). Convergent validity is expected through overlap with AI risk management frameworks such as NIST AI RMF, while discriminant validity arises from its systemic, cross-sectoral focus, which goes beyond technical risk or ethical maturity models. Empirical validation—inter-rater reliability, test–retest stability, and pilot sector studies—will be part of the future research agenda.

2.1 Methodological Note on Sources

The ASGR Index is grounded in a comprehensive analysis of over 1,200 international sources, including regulatory instruments (EU AI Act, ISO/IEC 42001, OECD AI Principles, NIST AI RMF), national AI strategies, academic studies, and established indices (HDI, ESG, DESI). This broad foundation ensures that the Index reflects not only normative obligations but also empirical practices and comparative benchmarks across domains. While the detailed mapping, clustering, and weighting logic remain proprietary as part of the licensed AIGN OS framework, this publication demonstrates how the ASGR Index synthesizes global evidence



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into a systemic readiness benchmark. The depth of the source base secures conceptual validity, sectoral adaptability, and resilience against regulatory fragmentation.

3. Dimensions of the ASGR Index

The ASGR Index is structured along four systemic dimensions. Each dimension captures a distinct facet of organizational readiness and maps directly to regulatory and ethical obligations. Rather than relying on abstract principles, the Index anchors each dimension in **indicator families** and **evidence types**, which organizations can demonstrate through documented policies, technical artefacts, or operational practices.

3.1 Governance Culture and Leadership

This dimension evaluates whether organizations embed responsible AI principles into leadership structures, strategic decisions, and accountability mechanisms. It measures not only the presence of policies but the degree of cultural integration and board-level oversight.

3.2 Technical and Data Infrastructure

AI governance requires robust technical underpinnings. This dimension assesses data quality management, model development practices, documentation standards, and monitoring systems that enable explainability, robustness, and privacy protection.

3.3 Risk and Compliance Alignment

Regulatory obligations must be mapped into internal processes. This dimension captures whether organizations maintain AI inventories, classify systems by risk (e.g., AI Act categories), and operate continuous compliance mechanisms such as audit trails or model factsheets.

3.4 Trust, Ethics, and Transparency Mechanisms

Trust is both an external and internal condition. This dimension covers transparency practices (model cards, user disclosures), ethical alignment (bias audits, fairness policies), and mechanisms for stakeholder engagement, complaint handling, and redress.

Table 1. ASGR Dimensions, Indicator Families, and Evidence Types



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Dimension	Indicator Families (examples)	Evidence Types (non-proprietary)
Governance Culture & Leadership	<ul style="list-style-type: none"> - Board-level AI governance roles - Strategic integration of AI ethics - Training and awareness programs 	Policy documents, governance charters, organizational charts, training records
Technical & Data Infrastructure	<ul style="list-style-type: none"> - Data provenance and lineage tracking - Model documentation (factsheets, cards) - Monitoring for drift and robustness 	Data governance logs, model factsheets, system monitoring reports
Risk & Compliance Alignment	<ul style="list-style-type: none"> - AI system inventory - Risk classification (per EU AI Act) - Continuous audit trail 	AI inventory register, conformity checklists, audit logs
Trust, Ethics & Transparency	<ul style="list-style-type: none"> - Bias and fairness assessments - Transparency disclosures - Stakeholder engagement mechanisms 	Bias audit reports, user-facing transparency notices, grievance-handling protocols

4. Variants of the ASGR Index (revised with sector vignettes)

While the ASGR Index provides a **global baseline** for AI governance readiness, systemic risks and regulatory expectations vary across industries. To reflect these differences, sectoral variants of the Index have been developed, maintaining the same four dimensions but tailoring indicator families to domain-specific governance requirements.

4.1 Global-ASGR

The **Global-ASGR** variant offers a cross-sectoral benchmark applicable to governments, enterprises, and international organizations. It provides a unified reference point for



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comparing AI governance readiness across jurisdictions.

Mini-vignette: A national government wishes to evaluate AI governance capacity across ministries and public agencies. Using Global-ASGR, it identifies gaps in transparency reporting and creates a roadmap for compliance with the OECD AI Principles and the EU AI Act.

4.2 Finance-ASGR

Financial institutions face stringent requirements under prudential supervision, anti-money laundering (AML), and algorithmic credit scoring regulations. Finance-ASGR integrates these requirements to assess systemic resilience and risk governance.

Mini-vignette: A bank deploys an AI-driven credit scoring system. Post-deployment, drift introduces hidden bias against minority applicants. A point-in-time audit misses the issue, but Finance-ASGR's continuous risk alignment dimension flags the lack of monitoring controls—prompting corrective action.

4.3 Healthcare-ASGR

In healthcare, AI systems operate under high stakes: diagnostic accuracy, patient privacy, and ethical treatment. Healthcare-ASGR emphasizes provenance of training data, explainability, and accountability mechanisms aligned with HIPAA, GDPR, and WHO principles.

Mini-vignette: A hospital adopts an AI tool for radiology triage. Initial certification confirms compliance, but ongoing provenance checks reveal that new imaging data lacked proper consent documentation. Healthcare-ASGR highlights this weakness, preventing reputational and legal risks.

4.4 Energy-ASGR

The energy sector relies on predictive AI models for grid stability, load forecasting, and climate adaptation. Failures can have cascading systemic effects. Energy-ASGR tailors readiness measures toward robustness, resilience, and sustainability.

Mini-vignette: A national grid operator uses AI for load forecasting. An unmonitored model update creates inaccurate predictions during peak demand, triggering a blackout. Energy-ASGR would have required monitoring protocols and resilience testing, preventing systemic disruption.

5. Use Cases and Adoption Scenarios



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The ASGR Index is designed not only as a conceptual benchmark but as a **practical instrument for adoption across regulatory, enterprise, and academic domains**. By quantifying AI governance readiness, it enables consistent measurement, comparability, and accountability in contexts where principles and obligations alone remain insufficient.

5.1 Enterprises and Corporations

For enterprises, the ASGR Index provides a **diagnostic tool** to assess their governance maturity before, during, and after AI adoption.

- **Internal benchmarking:** Identifying gaps in leadership, infrastructure, or compliance capabilities.
- **Strategic planning:** Guiding investment decisions in governance technology, staff training, and compliance functions.
- **Market positioning:** Demonstrating readiness to clients, partners, and investors as part of corporate ESG or AI responsibility reporting.
- **Procurement criteria:** Embedding ASGR-based readiness checks into supplier and vendor management.

5.2 Regulators and Policymakers

Regulatory authorities require **systemic measures** to monitor AI adoption across sectors and jurisdictions. The ASGR Index supports them by:

- **Comparability across organizations:** Establishing a common reference point to evaluate readiness.
- **Policy impact assessment:** Tracking whether national AI strategies and regulatory frameworks translate into organizational maturity.
- **Cross-border cooperation:** Providing a harmonized index to align oversight efforts internationally.
- **Early-warning function:** Identifying systemic weaknesses (e.g., low trust mechanisms in finance, weak resilience in energy).

5.3 Certification Bodies and Auditors

The ASGR Index acts as a **baseline for certification pathways and trust labels**.

- **Audit preparation:** Allowing organizations to evaluate themselves before formal conformity assessments under the EU AI Act or ISO/IEC 42001.



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- **Continuous monitoring:** Moving beyond point-in-time certification by enabling periodic readiness measurements.
- **Labeling and trust schemes:** Serving as the **quantitative foundation for AIGN Trust Labels** and similar certification frameworks.

5.4 Academia and Research

The academic community benefits from the ASGR Index as a **structured, citable benchmark** for studying AI governance across sectors.

- **Comparative research:** Cross-sector and cross-country studies of governance maturity.
- **Policy evaluation:** Measuring the effectiveness of regulatory instruments (AI Act, OECD, ISO/IEC) in driving organizational readiness.
- **Educational integration:** Incorporating ASGR-based frameworks into curricula on AI ethics, governance, and compliance.

5.5 Global Organizations and Standard-Setting Bodies

The ASGR Index contributes to international standardization efforts by offering a **transparent, systemic readiness metric**.

- **OECD, UN, and multilateral agencies:** Using the Index as a reference point for global progress on trustworthy AI.
- **Standardization committees (ISO, IEEE):** Integrating the conceptual dimensions of ASGR into formal standards.
- **Cross-sector coalitions:** Providing a common language for readiness across finance, healthcare, energy, and education.

Measurement Frequency

For high-risk sectors (e.g., finance, healthcare, critical infrastructure), readiness should be assessed **quarterly** to capture rapid changes in data, models, and regulation. For general enterprise contexts, **annual or bi-annual assessments** may suffice.

Confidentiality & Data Protection

ASGR assessments rely on verifiable evidence (e.g., policies, audit logs, model cards). To protect confidentiality, the methodology requires only **evidence categories and validation checks**, not disclosure of sensitive datasets or model code. This ensures organizations can demonstrate readiness without compromising trade secrets or patient/customer data.



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Summary: The ASGR Index bridges the gap between principles and implementation by offering a **practical benchmark**. Its adoption ensures that AI governance is not only designed but **measured, compared, and continuously improved** across industries and geographies.

Validated ASGR scores are periodically published through the ASGR Monthly Report, ensuring ongoing comparability and transparency for enterprises and regulators.

6. Positioning in the AIGN OS Ecosystem

The ASGR Index is not an isolated assessment tool, but a **diagnostic layer** embedded in the broader **AIGN OS – The Operating System for Responsible AI Governance**. The OS follows a seven-layer architecture that integrates regulatory alignment, risk management, governance culture, and trust infrastructure into a unified system.

Within this architecture, ASGR functions as the **input and feedback mechanism**: it captures evidence of organizational readiness, translates it into measurable benchmarks, and informs other layers such as compliance mapping, certification, and trust labels.

Figure 3. ASGR Dimensions mapped to AIGN OS Layers (textual matrix for graphical rendering)

AIGN OS Layer	Culture & Leadership	Technical Infrastructure	Risk & Compliance	Trust & Transparency
1. Data & Model Layer	—	Data lineage & provenance	—	—
2. ML Infrastructure Layer	—	Explainability, robustness	Audit trail integration	Bias & fairness monitoring
3. Compliance Layer	Governance charters	—	AI Act alignment, ISO/IEC 42001 mapping	—
4. Risk & Control Layer	Board oversight	Model risk mgmt	Continuous risk classification	Transparency obligations
5. Ethics & Trust Layer	Ethical leadership	—	—	Stakeholder engagement, disclosure



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AIGN OS Layer	Culture & Leadership	Technical Infrastructure	Risk & Compliance	Trust & Transparency
6. Certification & Trust Label Layer	—	—	Audit readiness	Labeling evidence
7. Governance Culture Layer	Training, awareness	—	—	Organizational accountability

(Legend: “—” = not a primary linkage; entries show where ASGR evidence feeds into each AIGN OS layer.)

7. Strategic Impact of the ASGR Index

The ASGR Index has implications beyond its immediate role as a diagnostic benchmark. By establishing a systemic, comparable measure of AI governance readiness, it influences **regulation, markets, intellectual property, and thought leadership**.

7.1 Regulatory Impact

The Index provides regulators with a **common measurement logic** that complements the EU AI Act, ISO/IEC 42001, and OECD AI Principles. Instead of static conformity assessments, it enables continuous oversight and cross-sector comparability. This helps regulators move from reactive enforcement toward **proactive governance assurance**.

7.2 Market & Enterprise Impact

For enterprises, ASGR transforms compliance from a **cost center** into a **competitive differentiator**. Organizations that can demonstrate high readiness scores gain trust with customers, investors, and auditors—similar to how ESG ratings influence capital markets. The Index also creates a structured pathway from **self-assessment** → **certification** → **trust labeling**, making governance investment auditable and market-visible.

7.3 Intellectual Property & Prior Art

By publishing the conceptual foundation on SSRN, the ASGR Index becomes part of the scientific record and establishes **prior art**. This protects the originality of the model, creates barriers to fast followers, and positions AIGN OS as the reference system for AI governance benchmarks worldwide.



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Table 2. Comparison: ASGR vs. Conventional Assessment Approaches

Criteria	Traditional Maturity Models / Audits	ASGR Index
Scope	Sector-specific, often fragmented	Cross-sectoral, systemic benchmark
Timing	Point-in-time (e.g., annual audit)	Continuous / repeatable readiness measure
Regulatory Alignment	Partial, indirect	Anchored in EU AI Act, ISO/IEC 42001, OECD AI Principles
Transparency	Limited comparability across orgs	Enables benchmarking and cross-context comparability
Use Cases	Internal reporting, narrow audits	Regulators, enterprises, auditors, IOs, academia
Evolution	Static frameworks	Dynamic, updatable with sectoral variants

7.4 Risks and Mitigation

Like any measurement framework, ASGR carries risks:

- **Goodhart’s Law:** once an index becomes a target, organizations may optimize for the score rather than for genuine governance quality.
- **Gaming & superficial compliance:** risk of “paper-based readiness” without substantive implementation.
- **Over-standardization:** risk that sectoral nuances are overlooked if variants are not applied.

Mitigation strategies embedded in AIGN OS include:

- Evidence-based validation (audit logs, model cards, monitoring data).
- Periodic reassessment cycles to capture drift and organizational change.
- Sector-specific variants (Finance, Healthcare, Energy) to respect contextual risks.



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- Oversight of methodology updates via a governance board.

7.5 Strategic Thought Leadership

By defining AI governance readiness as an **infrastructure metric**, the ASGR Index shifts the discourse: governance is no longer a reactive burden but a **foundational capability**. This positions AIGN OS and its components not only as compliance tools but as **global standards for responsible AI adoption**.

7.6 Scientific and Societal Value of the ASGR Index

The ASGR Index holds unique value for multiple stakeholder groups, both in its current application and in shaping future governance infrastructures:

For enterprises

- Provides a **validated and comparable readiness benchmark** that goes beyond checklists or one-time audits.
- Positions governance maturity as a **competitive differentiator**, similar to ESG in financial markets.
- Enables strategic planning and reporting under emerging regulations (EU AI Act, ISO/IEC 42001).

For regulators and supervisory authorities

- Delivers a **systemic measurement logic** that transforms regulatory obligations into observable, comparable evidence.
- Supports **risk-based supervision** and cross-sector comparability.
- Reduces regulatory fragmentation by offering a **single global reference point** for governance readiness.

For auditors and certification bodies

- Establishes a **quantitative foundation** for trust labels, certifications, and conformity assessments.
- Allows for **continuous monitoring** of governance maturity, not just point-in-time audits.

For academia and research



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- Creates a **citable, scientifically grounded benchmark** for studying AI governance maturity across sectors and geographies.
- Provides a structured framework for comparative studies, policy evaluation, and the development of future governance models.

For international organizations and standard-setting bodies

- Offers a **transparent global metric** for tracking readiness across countries.
- Serves as a foundation for international cooperation and harmonization.
- Bridges regulatory, ethical, and technical perspectives into a **single systemic measure**.

For AIGN OS and the governance ecosystem

- Establishes **prior art** and intellectual property protection for systemic AI governance benchmarking.
- Anchors ASGR as the **diagnostic layer** in the AIGN OS, ensuring that future governance innovations build on a consistent foundation.
- Positions AIGN as the **exclusive provider of validated readiness scores and reports**, safeguarding methodological integrity and market authority.

By making AI governance readiness **measurable, comparable, and auditable**, the ASGR Index ensures that governance evolves from principle to infrastructure. Its scientific value lies in standardization and comparability; its societal value lies in enabling trust, accountability, and systemic adoption.

7.7 AIGN OS as the Proprietary Container of ASGR

The ASGR Index is inseparably embedded in the **AIGN OS – The Operating System for Responsible AI Governance**. While the Index establishes the conceptual benchmark for systemic governance readiness, its operationalization, scoring, and reporting are exclusively contained within the AIGN OS framework.

This proprietary integration has three implications:

1. **Scientific Exclusivity** – Any academic or regulatory use of the ASGR Index must be anchored in the AIGN OS logic. This ensures conceptual consistency, methodological integrity, and citation of prior art.
2. **Operational Exclusivity** – Valid ASGR scores can only be generated through licensed AIGN OS applications and official ASGR Reports. External attempts to approximate or replicate the Index outside this architecture cannot be recognized as legitimate assessments.



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3. **Market Protection** – By embedding ASGR in AIGN OS, the Index is shielded against fragmentation and imitation. Competing maturity models or readiness checklists may exist, but they remain partial and non-comparable. Only AIGN OS provides the systemic, cross-sectoral benchmark recognized by enterprises, regulators, and international organizations.

This explicit positioning guarantees that ASGR is not only a scientific innovation but also a **protected infrastructure asset**, owned and governed by AIGN. As a result, **all pathways to measurable AI governance readiness lead through AIGN OS**.

8. Limitations and Proprietary Methodology

While the ASGR Index provides the first global benchmark for systemic AI governance readiness, several limitations must be acknowledged. These are important both for transparency and for situating the Index within the broader academic and regulatory discourse.

8.1 Conceptual Scope

The present paper introduces the **conceptual foundation** of the ASGR Index. It defines the four readiness dimensions, situates them in regulatory logics, and outlines adoption scenarios. However, it does not disclose the proprietary scoring algorithms, weightings, or question sets that operationalize the Index in practice. These elements are part of the licensed AIGN OS framework and remain confidential to preserve both integrity and intellectual property.

8.2 No Empirical Validation in This Version

This publication does not present benchmark data, statistical validation, or sector-specific pilot results. Such empirical evidence is essential but deliberately excluded from this first SSRN publication, which focuses on establishing prior art, conceptual clarity, and systemic positioning.

8.3 Future Work and Validation Roadmap

Future research and development will address:

- **Reliability testing** (inter-rater reliability, test–retest stability).
- **Construct validity** (alignment with NIST AI RMF, ISO/IEC 42001, EU AI Act conformity).



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- **Sectoral pilot studies** in finance, healthcare, and energy, benchmarking readiness across organizations.
- **Longitudinal studies** to capture organizational improvement over time.

These steps will form part of a validation roadmap that strengthens the Index as both a scientific and operational benchmark.

All validation activities are conducted under the exclusive governance of AIGN OS to ensure methodological integrity and protect proprietary rights.

8.4 Governance of the Methodology

To maintain integrity and trust, the ASGR methodology is subject to a **versioning and oversight process** within AIGN OS. Each release is tracked via a version log, with updates documented and governed by an oversight board to ensure transparency, accountability, and consistency across applications.

8.5 Confidentiality and Licensing Boundary

By design, the ASGR Index separates **conceptual openness** from **methodological protection**:

- **Open:** dimensions, indicator families, use cases, sectoral variants, regulatory mapping.
- **Protected:** detailed scoring logic, weighting, proprietary questionnaires, algorithmic aggregation.

This separation allows the academic community to engage with the conceptual model, while enterprises and regulators access validated implementations through licensed AIGN OS applications.

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- Upmann, P. (2025). *AI Governance Stack – The Agent Era*. SSRN Working Paper No. [5543162](#).
- Upmann, P. (2025). *IGN Systemic AI Governance Stress Test*. SSRN Working Paper No. [5489746](#).

Together with previous SSRN publications (IGN OS architecture, SAP Compliance Framework, AI Governance Stack, Stress Test), the ASGR Index completes the foundational suite of proprietary benchmarks.

9.4 Annex – Comparative Indices Overview

Table A1: Benchmarking Analogous Indices

Index	Domain	Purpose	Relevance to ASGR
HDI – Human Development Index	Societal development	Composite measure of health, education, and income	Demonstrates how indices can establish global comparability
ESG Ratings	Corporate responsibility	Environmental, social, and governance scoring for companies	Shows how governance principles are operationalized for markets
DESI – Digital Economy and Society Index	Digital transformation	Tracks EU digital readiness	Provides precedent for measuring readiness in a systemic domain



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Index	Domain	Purpose	Relevance to ASGR
ASGR – AIGN Systemic Governance Readiness Index	AI governance	Measures systemic governance maturity	First global benchmark for AI governance readiness

10. Declarations

- **Conflict of Interest:** The author declares no conflicts of interest.
- **Funding Statement:** This research received no external funding.
- **Ethics Statement:** This study does not involve human participants, personal data, or clinical trials.
- **Author Contribution:** The ASGR Index and all conceptual models presented are original intellectual property of the author.

11. Governance and Market Implications

The ASGR Index is not only an academic construct but also an **operational instrument for global governance practice**. By establishing a systemic and comparable benchmark, it introduces both opportunities and responsibilities for how readiness scores are generated, distributed, and applied in regulatory and enterprise contexts.

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This governance structure ensures that the ASGR Index functions comparably to global credit rating or ESG benchmark systems: open as a scientific reference, but **exclusive and licensed in its operational scoring**. Consequently, **all stakeholders seeking recognized AI governance readiness values must obtain them directly from AIGN OS**.

11.2 Role of the ASGR Monthly Report

The **ASGR Monthly Report** serves as the official mechanism for disseminating aggregated and anonymized readiness insights. It transforms the Index from a conceptual benchmark into a **living governance observatory**, tracking organizational maturity, sectoral trends, and regulatory alignment over time. Reports provide stakeholders with:

- **Comparability:** Cross-sector and cross-country benchmarks grounded in the same systemic logic.
- **Accountability:** Evidence of progress or persistent gaps in governance readiness.
- **Transparency:** Regular reporting intervals (monthly, quarterly) that align with governance cycles.

By linking the Index to a recurring report, the ASGR becomes not only a static benchmark but also a dynamic infrastructure for **continuous monitoring of AI governance maturity**.

11.3 Implications for Regulators and Enterprises

For regulators, the exclusivity of ASGR scores ensures that supervisory bodies can rely on a **single global reference standard**, free from competing or diluted indices. For enterprises,



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the official ASGR assessment provides a **validated signal of governance readiness**, comparable to established rating systems in finance or sustainability.

This governance structure establishes AIGN OS and its associated reports as the **sole authoritative source** for AI governance readiness measurement. It guarantees that ASGR maintains both scientific credibility and market legitimacy.

12. Reference and Citation Framework

The ASGR Index and its related publications form part of the *AIGN OS Research Series* authored by **Patrick Upmann**, establishing the scientific, legal, and systemic foundation of *Systemic AI Governance*.

This chapter defines how the ASGR Index and associated materials should be referenced, cited, and integrated within academic, regulatory, and institutional contexts.

12.1 Canonical Citation Format

When citing the ASGR Index, the following standard format shall be used:

Upmann, Patrick (2025). *The ASGR Index – Establishing the First Global Benchmark for Systemic AI Governance Readiness*.

AIGN OS Research Series, DOI: [insert Zenodo DOI once registered] / SSRN Working Paper No. [insert number].

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All citations must retain the full title and reference to *AIGN OS – The Operating System for Responsible AI Governance* to preserve the systemic context of the Index.



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12.2 Related Core Publications in the AIGN OS Research Series

Publication	DOI / SSRN No.	Functional Layer
<i>AIGN OS – The Operating System for Responsible AI Governance</i>	10.2139/ssrn.5374312	Core Architecture
<i>AIGN OS – Trust Infrastructure: Certification, Licensing and Market Enforcement for Responsible AI</i>	10.2139/ssrn.5561078	Enforcement & Trust Layer
<i>AIGN OS – AI Agents: The AI Governance Stack as a New Regulatory Infrastructure</i>	10.2139/ssrn.5543162	Technical Governance Layer
<i>AIGN Systemic AI Governance Stress Test</i>	10.2139/ssrn.5489746	Diagnostic & Resilience Layer
<i>The AIGN Academy – Institutionalizing Systemic AI Governance Education</i>	10.5281/zenodo.[insert DOI]	Education & Capacity Layer
<i>The ASGR Index – Establishing the First Global Benchmark for Systemic AI Governance Readiness</i>	10.5281/zenodo.[current DOI]	Readiness & Measurement Layer

Together, these works define the **scientific corpus** of AIGN OS and serve as the intellectual and methodological backbone for the global discipline of **Systemic AI Governance**.

12.3 Integration with ORCID, SSRN and Zenodo

Each publication in the series is linked to the author’s verified ORCID ID to guarantee authorship authenticity, transparency, and long-term traceability of citations. Cross-platform linking between SSRN, Zenodo, and ORCID ensures persistent identifiers, facilitating interoperability across research repositories and global citation databases.



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12.5 Purpose of the Reference Framework

This reference architecture guarantees that all derivatives, citations, and methodological applications trace back to the original conceptual source.

It preserves **scientific integrity**, **IP authenticity**, and **global recognition** of *AIGN OS – The Operating System for Responsible AI Governance* as the authoritative framework for measuring, certifying, and institutionalizing responsible AI governance worldwide.