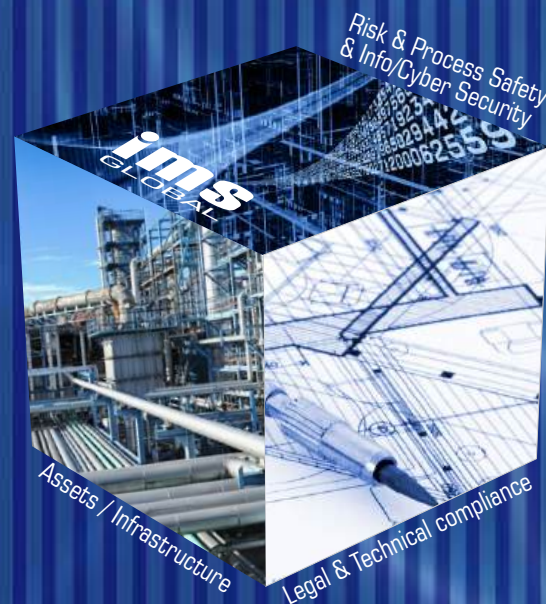




About Artificial Intelligence (AI)

- AI simulates human processes such as discovery, learning, problem solving, creativity, decision making, and autonomy.
- AI is no longer an experimental tech, it is a reality.
- An AI system includes data, algorithms, AI models, software, and interfaces.
- AI is based on Machine Learning (ML) and many of its algorithms & techniques, in special Neural Networks (modeled following human brain's structure/functions).

**SAFE & SECURE ANALYTICS AND ARTIFICIAL INTELLIGENCE
WE TAKE YOUR BUSINESS TO THE WEB 4.0 ERA**

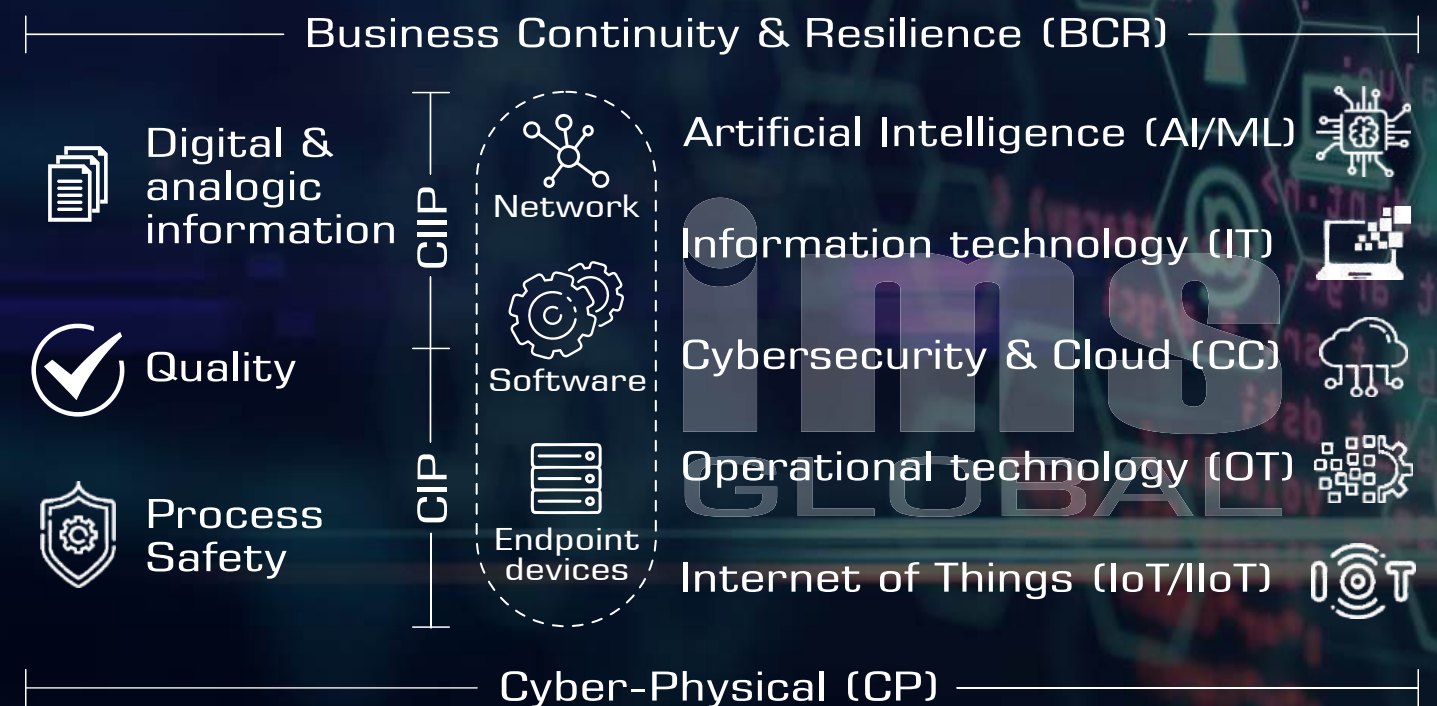
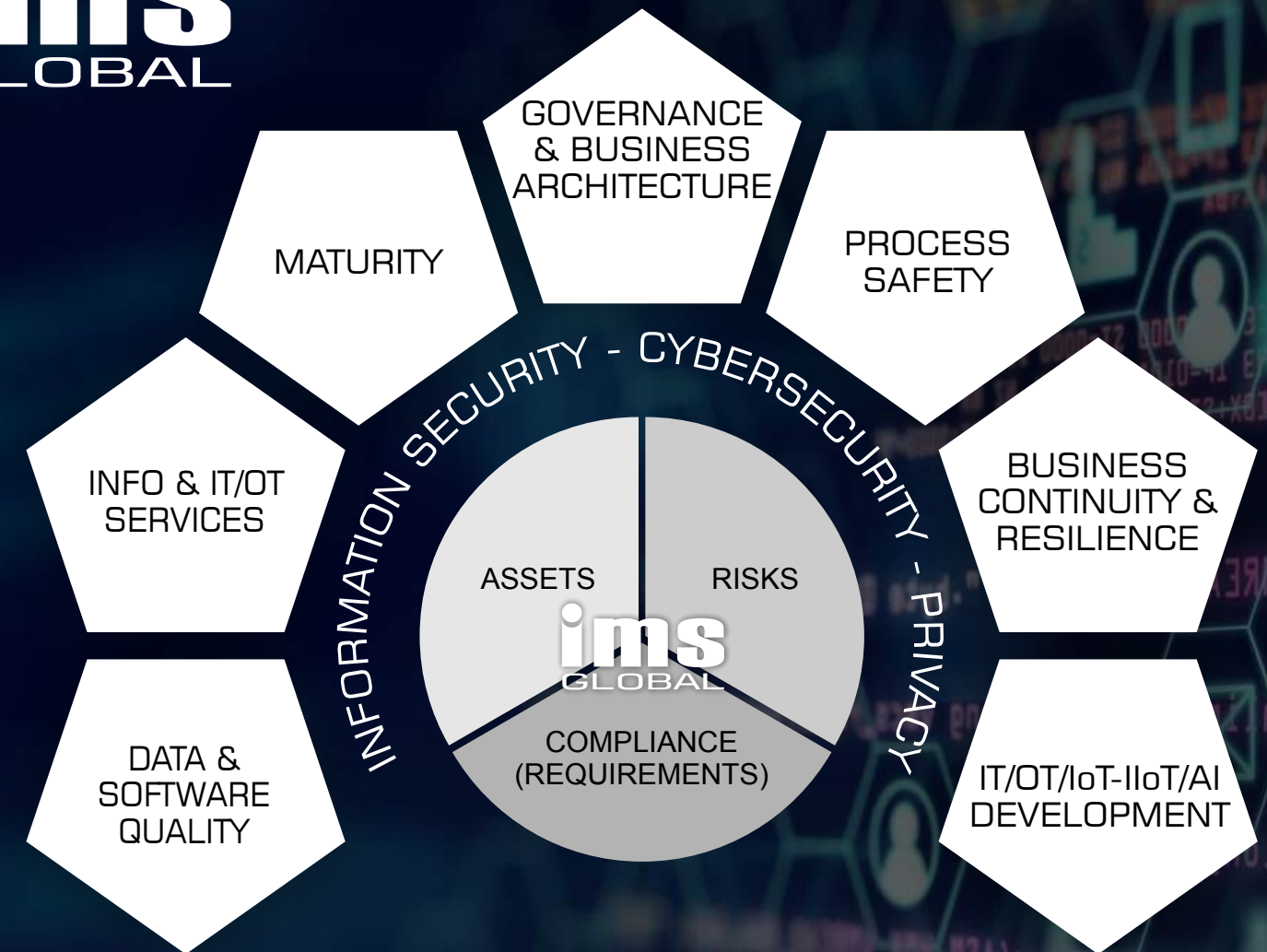
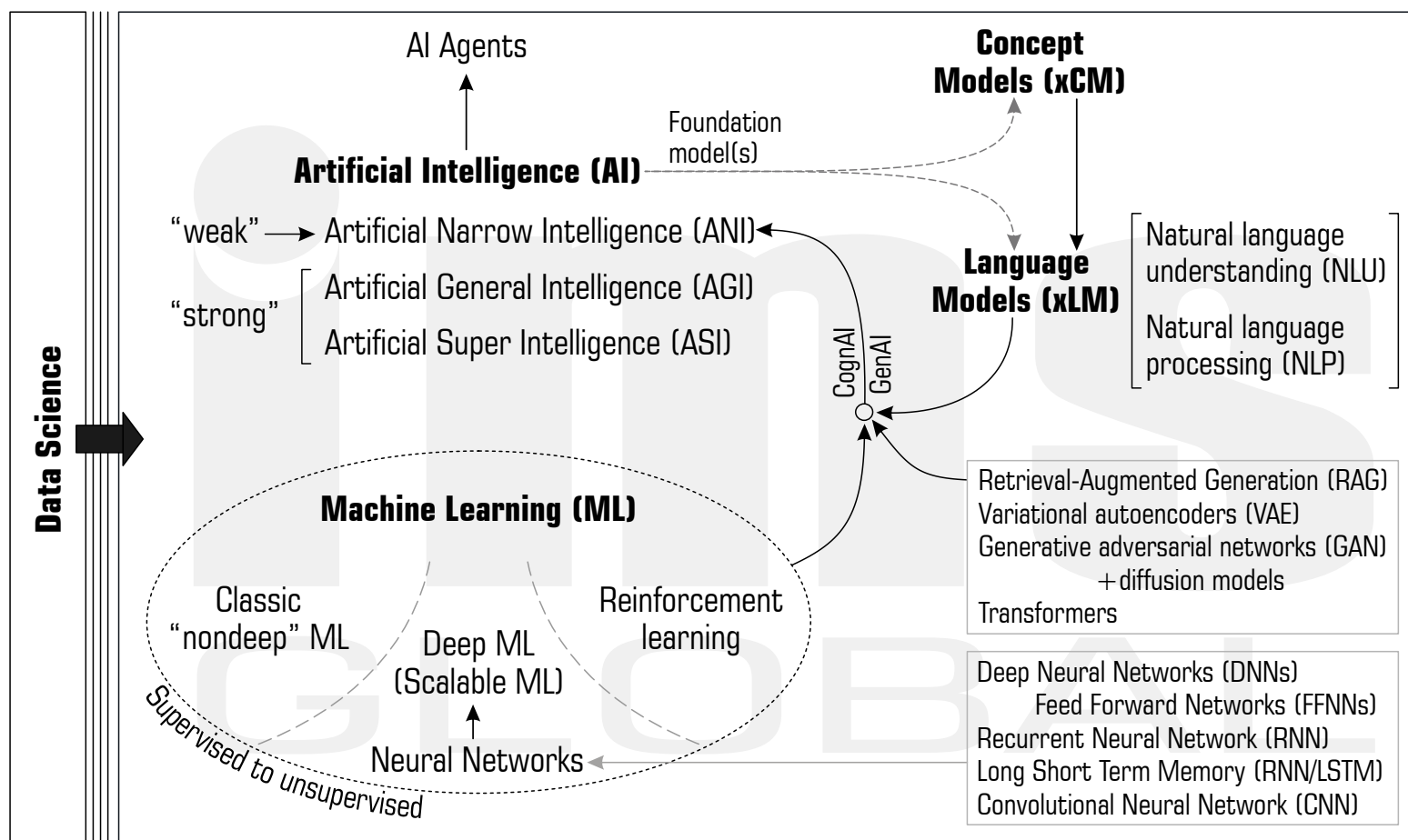
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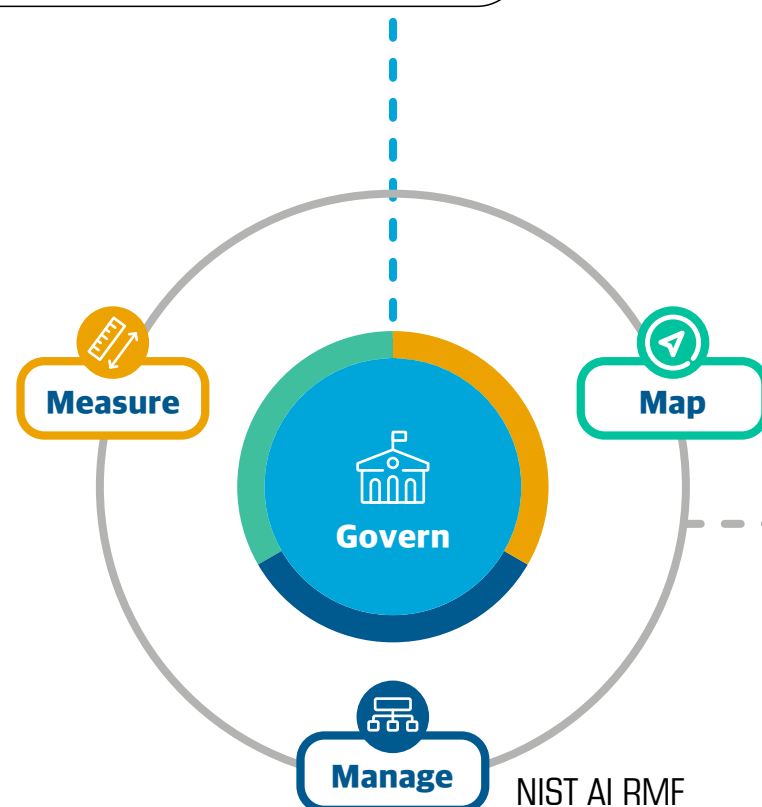


-  **We improve** the management of technological and knowledge assets in AI/ML throughout their life cycle following specialized methodologies, best industry practices, the state of the art, and relevant requirements, using an intensive innovation process mixing engineering, techniques and knowledge.
-  **We protect** technological **assets** in the domain of Artificial Intelligence (AI) (and Machine Learning), and their application and convergence in other domains (such as IT, OT & IoT), and the associated information, throughout their entire value chain and life cycle, including the supply chain.
-  **We streamline** the complexity of AI assets and the myriad of applicable **requirements** with focus on value generation, compliance, and the achievement of your objectives.
-  **We analyze and solve** **safety & security risks** using our rich ecosystem of knowledge that involves a comprehensive set of techniques, methods, technologies, and standards, using a global oversight, to help protect your entire business and investments.
-  **We prepare** you to be ready for what's next, building or enhancing your **AI/ML architecture and management systems**, making informed decisions in the face of ever-growing technological advances.



Compliance, Governance and MOAT

- Multidimensional **compliance & conformance** solutions for AI/ML systems across legal, technical, and contractual requirements (including supply chain and third-party actors).
- **AI systems & MLOps governance:**
 - Optimization of AI systems life cycle: Acquisition (from existing models, by Design & Development, or by integration), Training, Deployment, Operation, Tuning, and Decommissioning.
 - Technological surveillance and comprehensive innovation.
 - Compliance & Risk (including trust, auditability, and ethics).
- **AI MOAT advantage:**
 - Speed, Power, Complexity, Switching Cost, and Positioning.
 - Efficient inference and scale economics.
 - Safety & (cyber) Security with ecosystem control.
 - Highly specific / domain-expert.
 - Data & feedback/learning loops
 - Cornered resources:
 - Expert human-in-the-loop curation.
 - AI natively in business workflow and processes, part or end-to-end.
 - Network effects.



AI/ML systems (**assets**) management in their life cycle

- Discovery: Identification, analysis, cataloguing and classification of AI/ML systems for complete ecosystem visibility.
- Governance: AI/ML systems, knowledge base, synthetic assets.
- Protection: - Safeguarding of AI-related intellectual property.
- Alignment with Infosec, Cybersecurity, and Privacy.

AI/ML Risk Management

- Evaluation: Cross-domain risk modeling for AI/ML assets, addressing complex vulnerabilities across IT, OT, and IoT/IloT environments.
- Control architecture: Robust, state-of-the-art control solutions for AI/ML systems, including their data, vector DB and code.
- Posture: AI/ML Security/Safety Posture Management (AI-SSPM) for continuous visibility, control, governance, and compliance.
- Intelligence: threat modeling & vulnerability management for dual-threat vectors: attacking AI systems and weaponizing AI systems.
- Defense: Adversarial AI-Defense protecting critical AI systems.

Alignment with Human Values & Goals

Security

- Confidentiality
 - Data Privacy (PII).
 - Model Security.
- Integrity
 - Data Integrity. <adversarial attack>
 - Model Integrity.
 - Output Integrity.
- Availability
 - System availability.
 - Data availability.
 - Resource availability.

Safety

- Quality
 - Specification.
 - Assurance.
 - Robustness.
- Transparency
 - Transparency.
- Reliability
 - Bias
 - Hallucination.
 - Drift.
 - Brittleness.
 - Overfitting.

AI/ML systems Performance

Safe & Secure AI/ML powered Transformation

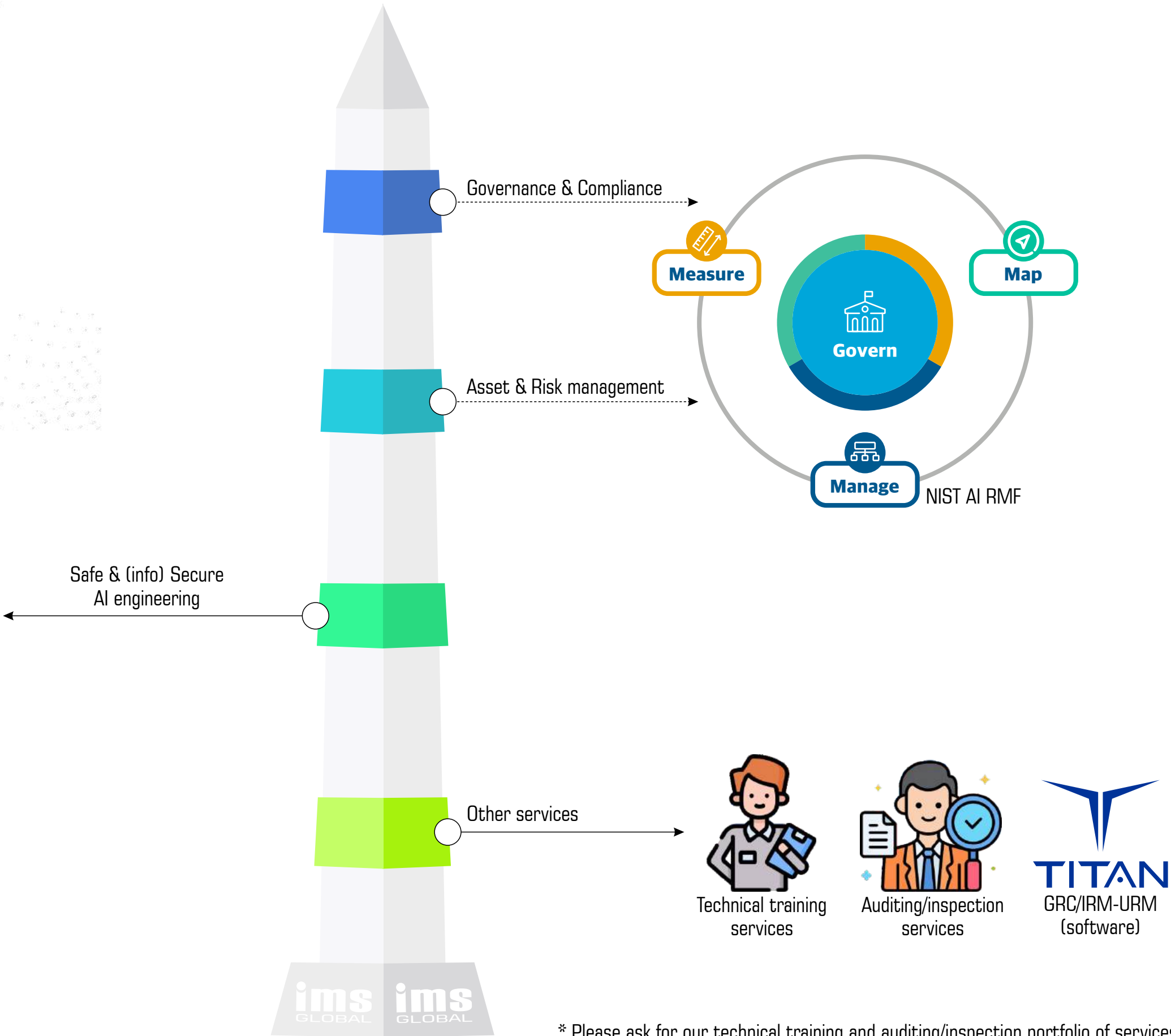
- Safe and Secure optimization of business process using AI/ML.
- Definition of use cases, business models and domains for AI/ML.
- Integration with other domains: IT/CT + OT (IACS/ICS) + IoT/IIoT.
- Alternative technologies (such as blockchain, extended reality).

Safe & Secure Data Science road to AI/ML

- Modeling: Structured alphanumeric data, geospatial information (GIS/RS) and time series, alongside unstructured data, such as life-feed, images, audio, video, as well as industry-specific data.
- Creation: Data discovery, capture, and synthetic generation.
- Preparation: Smart debugging, cleansing, wrangling, structuring, and anonymization / obfuscation / masking of data.
- Secure support: Optimized data storage, sharing, and removal.
- Processing: Transformation, enrichment, simulation, prediction.
- Analytics: Data / visual analytics and Business Intelligence with deterministic, probabilistic, and stochastic approaches.

Safe & Secure AI/ML SecDevOps

- Design, development, improvement, and integration of software with AI systems, across various architectures (Layered / N-Tier, Microservices, Monolithic, Event-Driven, Serverless / FaaS, Service-Oriented Architecture – SOA, and Peer-to-Peer – P2P).
* Security, Safety and Privacy by design, default, and deployment.
- AI as business enabler: Design, development and optimization of functional safety and infosec capabilities for AI/ML systems.
- Multi-modal AI systems: integrating diverse data types, series, advanced AI interfaces, autonomous Agents, and MCPs.
- Best on demand (local or cloud): Where AI run best and secure.
- Multi-scale models: large for reasoning, small for execution.
- Optimization: AI/ML Training and Tuning, as well as token usage.
- Collaboration: Systems integration and interoperability.
- New interface frontier: from “chat” to “delegation” with “goals”.
 - Chain-of-Draft
 - Tree of Thoughts (ToT)
 - Atom of Thought
 - Directed Acyclic Graph (DAG)
 - Chain-of-Verification (CoVe)
- Advanced Chain of Thought



* Please ask for our technical training and auditing/inspection portfolio of services