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IAEA's Data Journey: Strategic Approaches, Governance, and Collaborative Operating Models

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The Agency's mandate relies heavily on data-driven initiatives, showcasing progress in specific domains. However, data management has historically been fragmented. This inconsistency has led to a disconnect between data investments and their impact on business outcomes, preventing the full harnessing of data assets.

A cohesive approach is needed to align data governance, privacy, and usage with measurable business outcomes. The data strategic roadmap includes an adaptive governance framework, hybrid operating models, and capabilities to address the entire data landscape, balancing innovation and responsibility while minimizing risks.

The Agency's data journey is moving from a fragmented approach to a cohesive strategy that enhances decision-making, unlocks insights, and aligns data initiatives with organizational objectives.

Goal 1: Data Use & Business Impact focuses on embedding data into decision-making, ensuring data is tied to business outcomes. This shift from reactive to proactive data usage aims to drive business outcomes.

Goal 2: Data Architecture & Governance emphasizes adaptive governance and the fusion of centralized and decentralized models. The focus is on robust frameworks that support innovation while maintaining compliance and control, balancing agility with governance.

Goal 3: Data Capabilities aims to enhance data maturity by fostering a data-driven culture. Building a data science ecosystem and promoting AI adoption are critical steps in evolving data literacy and innovation, embedding data into daily operations, and ensuring the Agency remains at the forefront of data-driven decision-making.

This transformative data journey has just begun under the initiative of the Chief Data Officer (CDO), in close collaboration with various departments and divisions, including the Nuclear Data Section, ensuring that all stakeholders are aligned and contributing to the Agency's unified data strategy.

Primary author: HARA, Minori (IAEA)

Presenter: HARA, Minori (IAEA)

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