Roadmap for Master Practitioner Services

NDI Maturity Stage	Timeline	Key Objectives	Action Plan Highlights	Dependencies	NDI Compliance %
Managed	Months 1–6	- Establish foundational governance, data cataloging, and metadata management.	- Develop **Data Governance Policy** and assign roles (CDO, Data Stewards).	- Availability of governance roles.	50%
			- Implement basic **Metadata Cataloging System**.	- Basic metadata automation tools.	
			- Define basic SLAs for data quality and sharing.	- Defined organizational priorities.	
		- Begin data lifecycle management and introduce data quality processes.	- Define **Data Quality Rules** and implement profiling/monitoring tools.	- Tool availability for data profiling and monitoring.	55%
			- Implement foundational **Data Lifecycle Policies** (retention and archival).	- Initial data classification and retention workflows.	
		- Ensure secure data access and develop monitoring policies.	- Implement **Role-Based Access Control (RBAC)**.	- Initial access control and monitoring framework.	55%
			- Define **Audit and Monitoring Policies** for compliance and governance tracking.	- Secure portal and dashboard setup.	
Defined	Months 4–9	- Expand metadata capabilities and enable catalog lifecycle governance.	- Automate **Metadata Tagging and Certification**.	- AI-enabled metadata automation tools.	65%
			- Establish **Metadata Governance Framework** for access and updates.	- Governance team for oversight.	
		- Integrate advanced data quality workflows and compliance monitoring.	- Automate **Data Quality Cleansing Workflows**.	- Integration of data pipelines with monitoring and anomaly detection tools.	70%
			- Implement **Real-Time Compliance Monitoring Dashboards**.	- Real-time dashboard tools.	
		- Develop data-sharing workflows and define FOI mechanisms.	- Establish **FOI Processes** for public data requests.	- Legal validation of FOI workflows.	65%
			- Enable **Secure Data Sharing APIs** with basic SLAs.	- Defined SLAs for secure portals and APIs.	
Advanced	Months 6–16	- Advance personal data protection and implement consent management.	- Implement **Consent Management Dashboards** and automated workflows.	- Consent management tools.	75%
			- Enhance **Anonymization and Masking Tools** for sensitive data.	- Integration of anonymization solutions across APIs and workflows.	
		- Launch advanced BI capabilities and self-service analytics platforms.	- Enable **Self-Service BI Dashboards**.	- Availability of advanced analytics platforms.	80%
			- Integrate **Predictive Analytics Models** with core use cases.	- Trained end-users for BI dashboards.	
		- Enhance open data capabilities and support real-time data exchange.	- Develop **Open Data Platforms** with version control.	- Cloud or hybrid integration.	75%
			- Enable **Cross-Platform Interoperability** for real-time data exchange.	- Tools for open data cataloging and publishing.	
		- Formalize ROI tracking and monetization strategies for key datasets.	- Implement **Monetization Frameworks** for licensing and revenue tracking.	- Pricing models.	70%
			- Enable **Data Marketplace** for data monetization.	- Licensing frameworks aligned to NDMO guidelines.	
Optimized	Months 12–20	- Optimize governance and automate auditing processes.	- Automate **Audit Trails** and compliance validation tools.	- Advanced monitoring and auditing tools.	85%
			- Develop feedback loops for continuous improvement of governance.	- Feedback collection mechanisms for stakeholders.	
		- Fully automate lifecycle management and MDM workflows.	- Enable **Dynamic Lifecycle Management** (retention, archival, deletion).	- AI-enabled lifecycle tools.	85%
			- Automate **MDM Workflows** with AI-driven deduplication.	- Integration with MDM systems.	
		- Scale advanced AI-driven analytics for prescriptive insights and optimize value realization.	- Integrate **Prescriptive Analytics Models** for strategic decision-making.	- AI/ML tools for prescriptive analytics.	85%
			- Refine **ROI Dashboards** for monetization initiatives.	- Enhanced data pipelines with integrated performance optimization.	
		- Enhance partnerships and collaboration through optimized data-sharing frameworks.	- Establish **Partnership Governance Frameworks**.	- Legal agreements and collaboration platforms.	90%
			- Develop **Collaboration Portals** for research and innovation.	- Stakeholder alignment and incentives for partnerships.	