

Perancangan Strategi Tata Kelola Data Penginderaan Jauh: Studi Kasus Badan Riset dan Inovasi Nasional (BRIN) = Designing Remote Sensing Data Governance Strategy: Case Study of the National Research and Innovation Agency (BRIN)

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Abstrak

Sejak berlakunya Peraturan Presiden Nomor 78 Tahun 2021 tentang BRIN, seluruh lembaga pelaksana penelitian, pengembangan, pengkajian, dan penerapan di Indonesia terintegrasi ke Badan Riset dan Inovasi Nasional (BRIN). Adanya perubahan proses bisnis kegiatan penginderaan jauh yang sebelumnya dikelola oleh satu unit di Lembaga Penerbangan dan Antariksa Nasional (LAPAN), kini dipecah ke dalam enam unit di BRIN. Pusat Data dan Informasi (Pusdatin) BRIN menjadi unit yang melanjutkan operasional layanan data citra satelit penginderaan jauh. Ditemukan beberapa masalah pengelolaan data yaitu belum detail-nya pembagian peran dan tanggung jawab data. Hal ini dikarenakan belum adanya tata kelola data yang lengkap. Untuk mengatasi masalah tersebut, penelitian ini bertujuan merancang strategi tata kelola data penginderaan jauh di BRIN. Penelitian menggunakan metode kualitatif melalui wawancara readiness assessment tata kelola data kepada tujuh narasumber di tim layanan data dan informasi citra satelit. Hasil readiness assessment menunjukkan tingkat kematangan tata kelola data penginderaan jauh pada level 2 (managed) yang artinya pengelolaan data sudah terencana dan mulai terdokumentasi namun masih memiliki risiko dalam biaya, waktu, serta masih terdapat pelaksanaan ad-hoc. Selanjutnya dirancang strategi tata kelola data yang terdiri dari enam aktivitas tata kelola data berdasarkan Data Management Body of Knowledge (DMBOK). Hasil rancangan strategi tata kelola data pada penelitian ini berupa dua puluh lima rekomendasi aktifitas tata kelola data, usulan tujuan, sasaran, prinsip, kebijakan, struktur organisasi, serta pembagian peran dan tanggung jawab tata kelola data, peta jalan implementasi, dan rencana keberhasilan operasional berupa deskripsi indikator kinerja setiap sasaran untuk mencapai tujuan tata kelola data penginderaan jauh. Since the enactment of Presidential Regulation Number 78 of 2021 regarding BRIN, all research and development agencies in Indonesia have been integrated into The National Research and Innovation Agency (BRIN). There have been changes in the business processes of remote sensing activities, which were previously managed by a single unit within the National Institute of Aeronautics and Space (LAPAN), now divided into six units within BRIN. The Center for Data and Information (Pusdatin) of BRIN continues the operational remote sensing satellite images data services. Several data management issues have been identified, including the lack of detailed data role and responsibility. These issues are mainly attributed to the lack of detailed data governance. To address these issues, this research aims to develop a data governance strategy for remote sensing data within BRIN. The research employs qualitative methods, involving readiness assessments of data governance to seven key informants from the remote sensing satellite imagery data and information services team. The result of the readiness assessment indicates a level 2 (managed) data governance maturity level, meaning that data management is planned and starting to be documented but still poses risks in terms of cost, time, and ad-hoc implementations. Subsequently, a data governance strategy is designed, consisting of six data governance activities based on the Data Management Body of Knowledge (DMBOK). The outcome of this data governance strategy includes twenty-five

recommendations for data governance activities, proposed goals, objectives, principles, policies, organizational structure, and roles and responsibilities for data governance, implementation roadmap, and operational success plan, including a description of performance indicators for each goal to achieve the objectives of remote sensing data governance.