

ABSTRACT

Indonesia's coastal regions face significant challenges due to climate change and natural disasters such as coastal abrasion, tidal flooding, and high waves, which impact the social and economic sustainability of rural communities. One of the vulnerable areas is Eretan Wetan Village, Kandanghaur Subdistrict, Indramayu Regency, which has a low score of 5.88 for SDGs Goal 13 (Climate Action Village). This study aims to design an Enterprise architecture to support the implementation of a more effective, structured, and sustainable Coastal Disaster-Resilient Village (Destana). The design adopts the TOGAF 10 framework, covering the phases of Preliminary, Architecture Vision, Business Architecture, Information System Architecture, Technology Architecture, Opportunities and Solutions, and Migration Planning. The outcome of this study includes IT roadmap and enterprise architecture blueprint, which are expected to serve as a strategic guide for the village government in developing an integrated and adaptive disaster management system. This enterprise architecture design not only illustrates the current conditions but also maps future technology needs that are aligned with the Sustainable Development Goals. Through this approach, Eretan Wetan Village is expected to enhance disaster preparedness, strengthen pemangku kepentingan coordination, and contribute to the achievement of sustainable development goals. This study shows how important it is in the field of information systems to solve real-world problems in rural regions through digital system integration, and is expected to be applicable to other coastal villages with similar characteristics and challenges.

Keywords— Disaster-Resilient Village, Enterprise Architecture, Disaster Management, SDGs, TOGAF 10.