CREATING GIS SOLUTIONS FOR GOVERNMENT AGENCIES

During the GeoInnovation Malaysia 2026 Conference, awards were given to companies and agencies that use Esri Malaysia's GIS solutions. One of the Pinnacle Awards winners was Pusat Geospatial Negara (PGN), which is under the Ministry of Natural Resources and Environmental Sustainability.

PGN developed the MyGOS (Malaysia Geospatial Online Services) Platform to enable federal, state and local government agencies to share geospatial data and obtain real-time updates. This is done using Esri Malaysia's GIS technology. Agencies interested in building a GIS-based application can approach PGN to co-develop a solution.

"By centralising these resources, MyGOS empowers agencies to move beyond traditional data siloes towards a unified data-driven governance model. Through MyGOS, government agencies are able to update and access geospatial information online and in near real time," says PGN director Rusliza Hanim Maarif.

According to PGN, to date, 29 applications have been developed by 17 ministries. MyGOS Platform also maps the applications for achieving Sustainable Development Goals (SDGs).

"By doing the mapping, the agency can show their top management how these applications are creating impact," says PGN's GIS application developer Azira Ibrahim.

As climate change impacts are location-specific, geospatial data is essential because it allows decision makers to understand who is most exposed to the risks and what interventions are needed. For this to happen, there must coordinated spatial intelligence across government agencies and partners, says Rusliza.

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>
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Currently, 10 applications developed under MyGOS Platform are addressing SDG 13, which is climate action. For example, the transport ministry developed an application with PGN to map its facilities, allowing it to optimise routes to lower fuel usage, says Azira.

The Public Works Department, meanwhile, developed an application to map the roads in the country so it can have a view of how the road systems are connected.

PGN hopes geospatial data can be used to underpin policy formation, development planning and promote climate resilience. "When geospatial data is embedded across sectors, Malaysia is better positioned to manage climate risks, optimise resources and pursue sustainable inclusive growth," says Rusliza.

"Our aspiration is for PGN to be recognised as a trusted national coordinator, one that enables seamless data sharing across agencies without unnecessary institutional boundaries or bureaucratic constraints. Geospatial data should not be controlled by a single institution. It is a shared national asset."

Sumber: The Edge Malaysia