Intelligent Spatial Decision Support System Platform
For Sustainable Development

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Decision makers of government and enterprise today are facing many difficult tasks such as climate change, natural disasters and economic crisis which are spatial in nature and involve many stakeholders. Intelligent spatial decision support systems (ISDSS) are the promising solution for these difficult tasks. This paper proposes an ontology-based multi-agent system framework to develop ISDSS efficiently and effectively. Our ISDSS is ontology-based which means our system is knowledge-based and can perform reasoning. Our system also uses multi-agent systems to hide the complexity of difficult tasks from the user; perform tasks on the users' behalf; train/teach users; help multiple users share information; monitor events; and interact with a changing operating environment on behalf of the user.