

Research 1

Development corridor between society's needs and visions of the future

(Proposed spatial information system)

The emergence of the Sahara is a life necessity for tomorrow's future. It is a vast space for building, organizing and investing on new rules without spatial constraints. Four key elements of the desert's development are: population and related

Housing issues, water and energy availability, food and waste disposal, consumption that must depend on available environmental sources, and finally sustainability and communication through building systems that allow environmental balance to continue without depleting resources.

The proposal of Egypt's Western Sahara Development Corridor aims to address the developmental issues of urbanization by providing new, longitudinal and pivotal population attractions to Western Sahara. Integrated physical, environmental and economic information systems are a fundamental requirement for planning and making development decisions for this proposal because information systems have the potential to make the most appropriate decisions for reality.

The research aims to achieve the interaction and integration of urban and economic planning in order to meet the needs of the community and achieve the visions of the future of urban agglomerations by proposing the formulation of a spatial information system to support the decision to spatially scrutinize the validity and priorities of the development areas of the Egyptian desert development corridor

The research consists of three entrances: one theoretical entrance, two analytical entries and the third applied entrance.

The research proposes a spatial audit information system to assess the viability and priorities of the urban areas of the development corridor that builds on several environmental, urban and socio-economic information dimensions to derive criteria to provide strategic alternatives to urban development to achieve an integrated and balanced planning vision that meets the needs of development and society.