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Geospatial Practices Supporting Land Administration In Malaysia - Licensed Land Surveyor's Perspective

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Presentation Structure



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Introduction



Geospatial information is critical in tackling issues such as humanitarian, peace & security, environmental and development.

Examples are climate changes, natural disasters, disease pandemics, famines, population displacement, food and economic crises.

These issues are not only local but crosses borders requiring global, regional & national policy responses.

Introduction



Sound geospatial information is crucial for addressing the complex problems the world is facing today. These problems are global in nature and affect different regions, rural and urban areas alike, requiring coordinated efforts, more innovative and sophisticated approaches, as well as effective tools to ultimately guide our way to sustainable development

(Prof. Dr. Paul Cheung, 2002).

Introduction



The building of a geospatial information database is just as important as building the infrastructure itself.

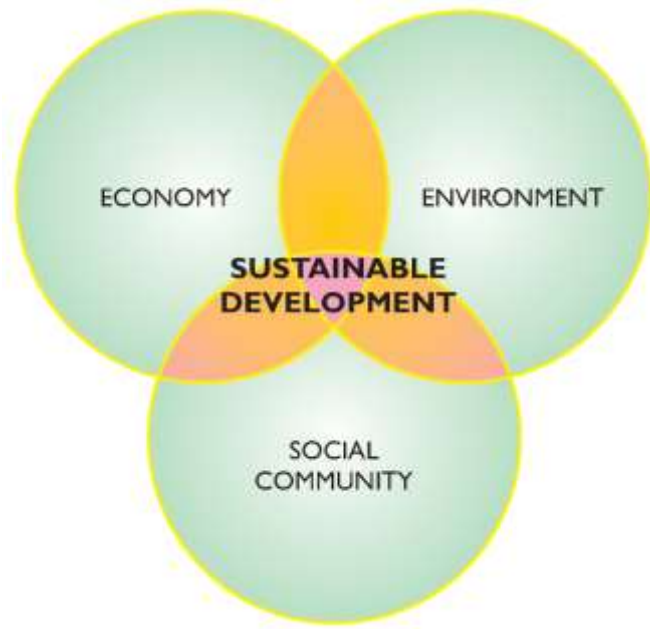
A global unified geospatial information database would need all countries to sit down to come together and cooperate with each other in the way of sharing information.

When the day comes, will Malaysia will be ready for such cooperation?

Sustainable Development



Sustainable development is defined as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”



From the World Commission on Environment and Development's (the Brundtland Commission) report *Our Common Future* (Oxford: Oxford University Press, 1987).

Sustainable Development



**“We do not inherit the Earth from our ancestors;
we borrow it from our children”**



Unknown source

Sustainable Development



Why Sustainable Development?

If it's so good, why not just adopt it?

No “one size fits all” model for Sustainable Development

The need for a good geospatial informational database to make good decisions towards the goal of Sustainable Development.

Sustainable Development

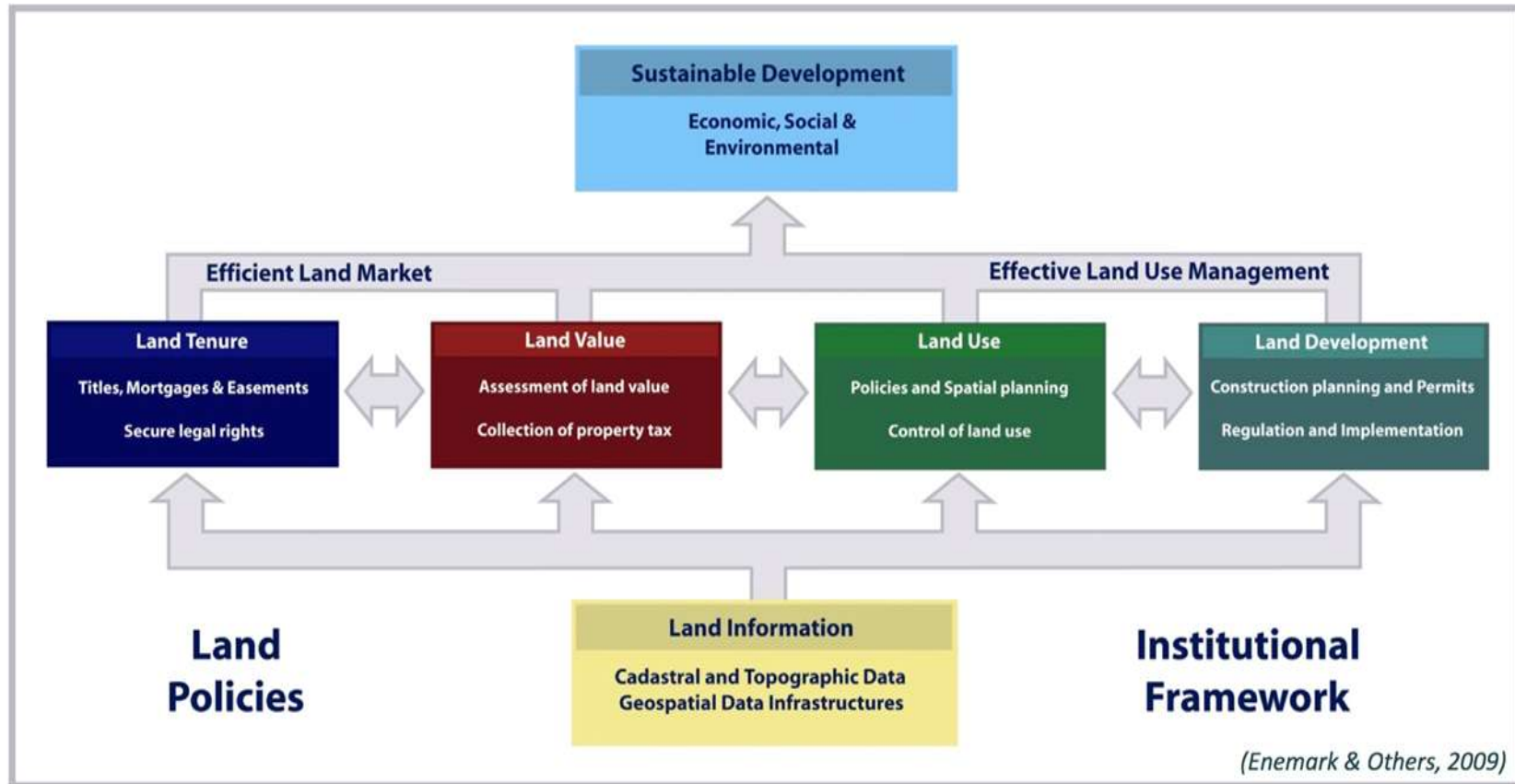


Figure 1: How land information contributes towards Sustainable Development

Land management



Good land management is the process of putting into good effect the country's resources.

Land management controls land policies, land rights, property, economics, land use control, regulation, monitoring, implementation, and development.

Land Management

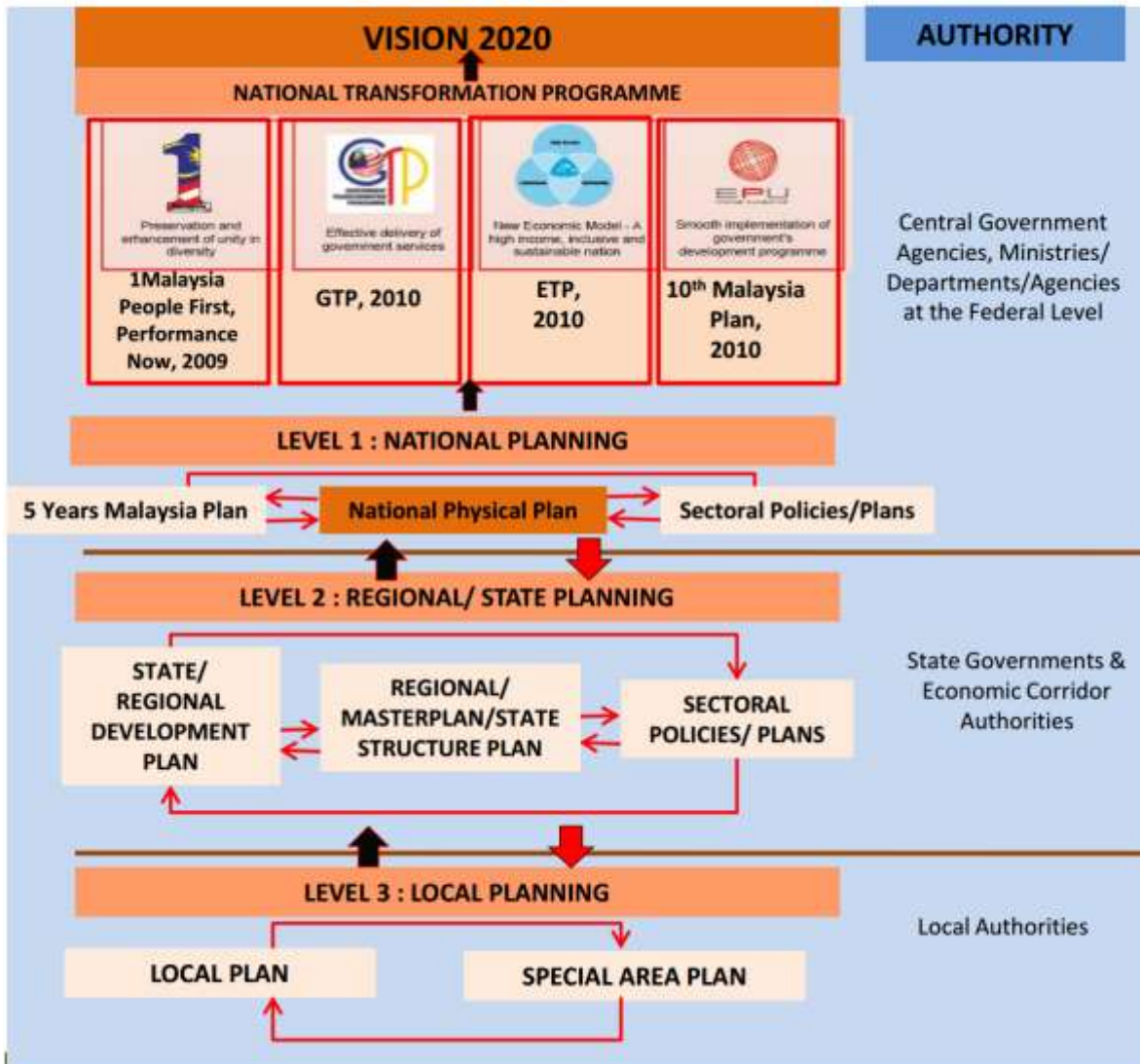


Figure 2 : National Development Planning Framework

Source: Federal Department of Town and Country Planning, Malaysia, 2013
"National Physical Plan 2"

Land Management



goal

the establishment of an efficient, equitable and sustainable national spatial framework to guide the overall development of the country towards achieving developed and high-income nation status by 2020.

1. to rationalise and consolidate the **national spatial planning framework** supported by key strategic infrastructure for economic efficiency and global competitiveness.

2. to optimise **utilisation of land and natural resources** for sustainable development and biodiversity conservation.

objectives

3. to promote more **balanced regional development** for national economic integration and social unity

5. to facilitate efficient integrated inter-state connectivity and public common users' space provision for social interaction and **sustainable communities** in line with the 1Malaysia concept

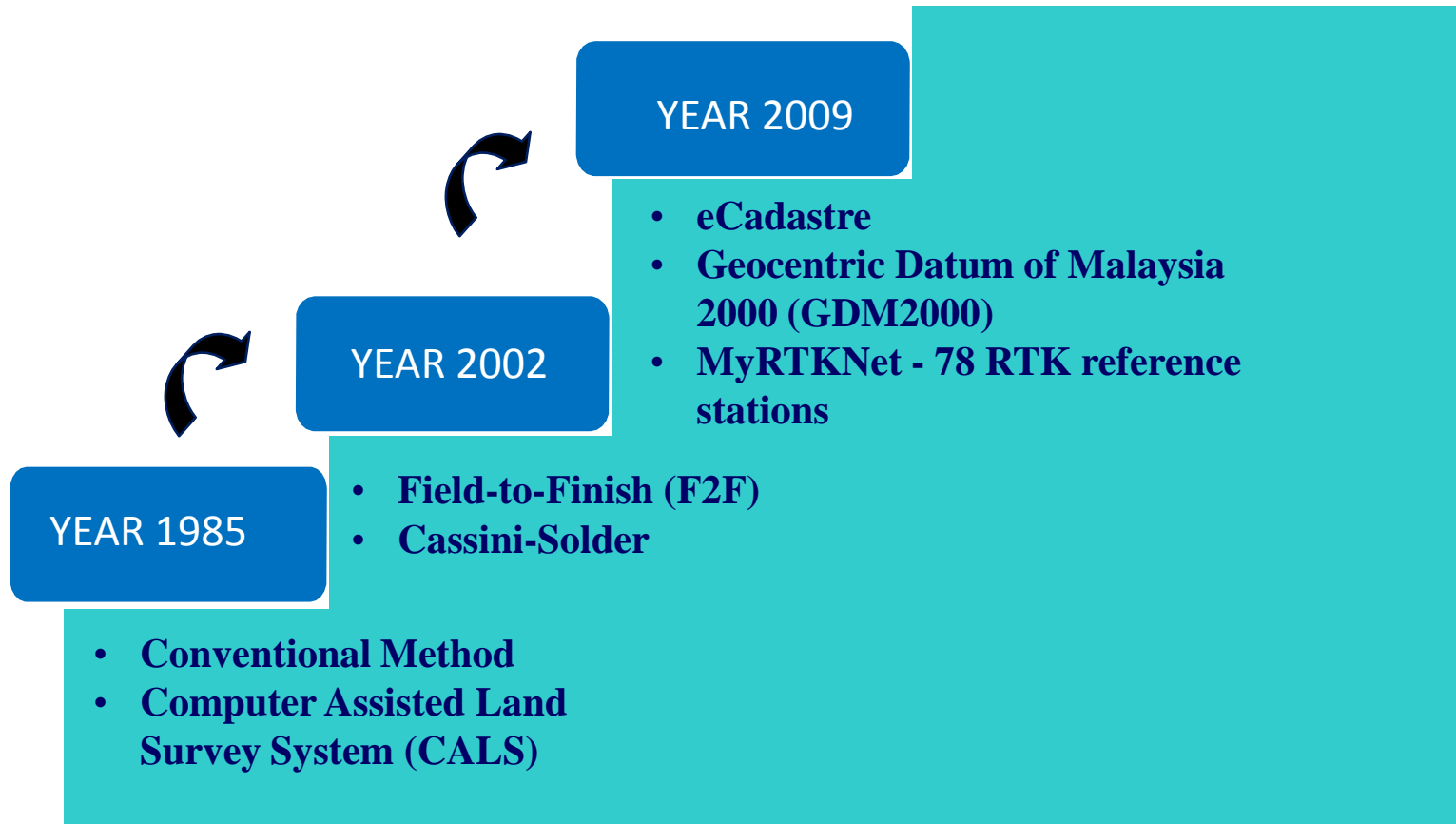
4. to enhance spatial and environmental quality, diversity and safety for a **high quality of life and liveability.**

Figure 3 : National Development Planning Goals

Modernisation of Cadastral Survey in Malaysia



Figure 2: Flow Chart Modernisation of Cadastral Survey in Malaysia



Modernisation of Cadastral Survey in Malaysia



- **MyRTKnet consists of 78 permanent GPS stations as reference stations covering Peninsular Malaysia, Sabah and Sarawak.**



**Figure 3:
Malaysia
MyRTKnet
Stations**

Conclusions



Geospatial information technologies are the key to planning, management and administration of land in areas such as Malaysia. Geospatial information technology as used in eKadaster also stands as a necessary tool in the design of decision support systems in sustainable management of land resources and policy development. JUPEM, along with Licensed Land Surveyors of Malaysia will always be at the forefront of providing spatial data to the Government so that land administrators can make the right choices in planning and (spatial) designs in the area, whether regionally or globally.

Modernisation of Cadastral Survey in Malaysia



THANK YOU
<http://pejuta.com.my>