



KEMENTERIAN SUMBER ASLI DAN ALAM SEKITAR

**SIMPOSIUM MAKLUMAT
GEOSPATIAL KEBANGSAAN**

NGIS^{ke-}6

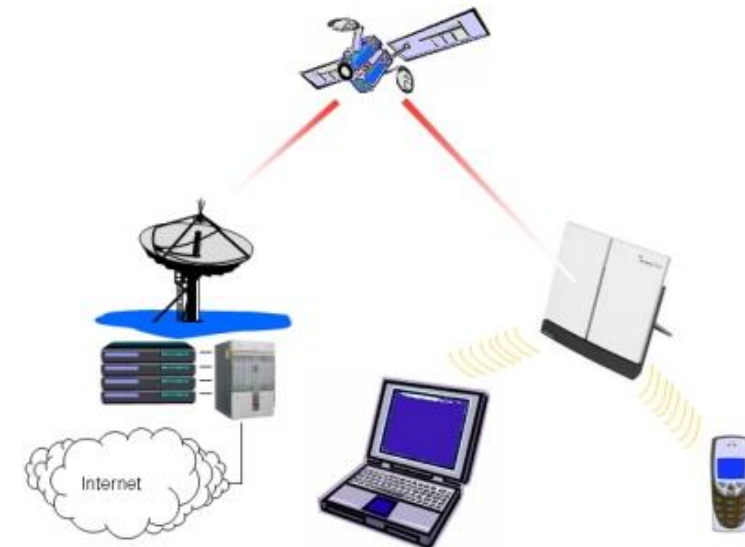
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GEOSPATIAL DRIVES NATIONAL VISION



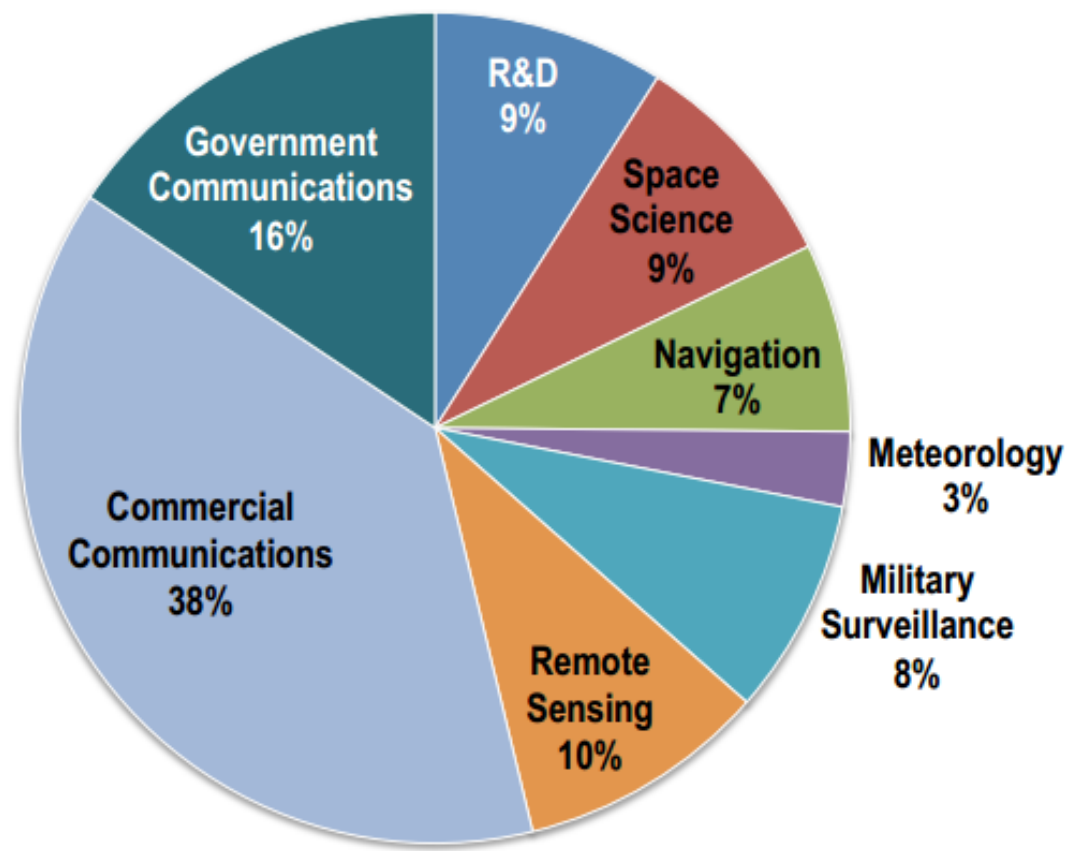
17-18 Mac 2014
Pusat Konvensyen Antarabangsa Putrajaya
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Space Technology for Socio-Economic Benefits: *The Case for Geospatial Applications*

Dr Noordin Ahmad
National Space Agency of Malaysia



Operational Satellites by Function (as of 2012)



- Over 1,000 operating satellites as of year-end 2012
 - » More than half are communications satellites
 - » More than one third are commercial communications satellites
- More than 50 countries operate at least one satellite (some as part of regional consortia)



SOCIO-ECONOMIC : how economic activity affects social processes

Space technology

Can be used to monitor crops, provide precise location, linking remote areas, map water courses to determine water storage locations, develop risk maps for areas prone to floods or droughts etc. Data collected through space technology applications thus help policymakers develop better strategies to cope with problems.

VALUES AND BENEFITS ?



Communication/Broadcasting

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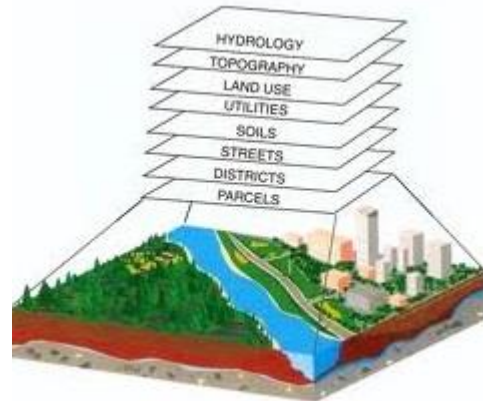
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Tracking and navigation



Resource/environmental planning and monitoring



Disaster management and Search & Rescue (SAR)



AREAS OF APPLICATIONS

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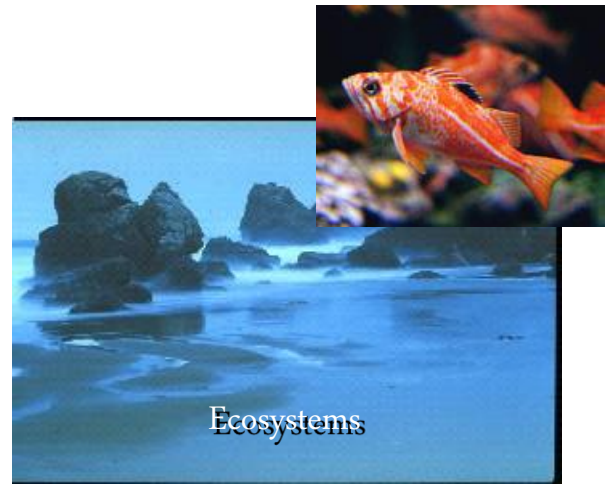
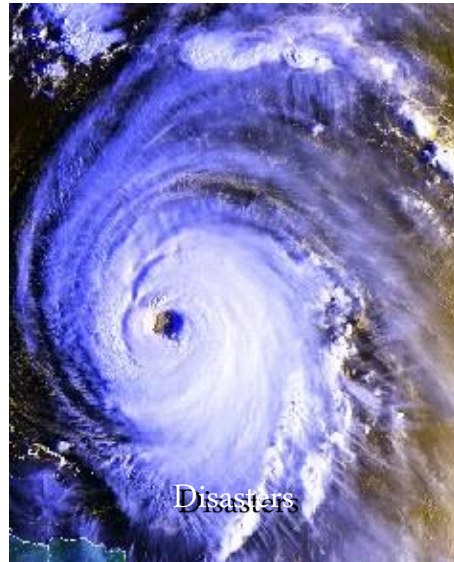
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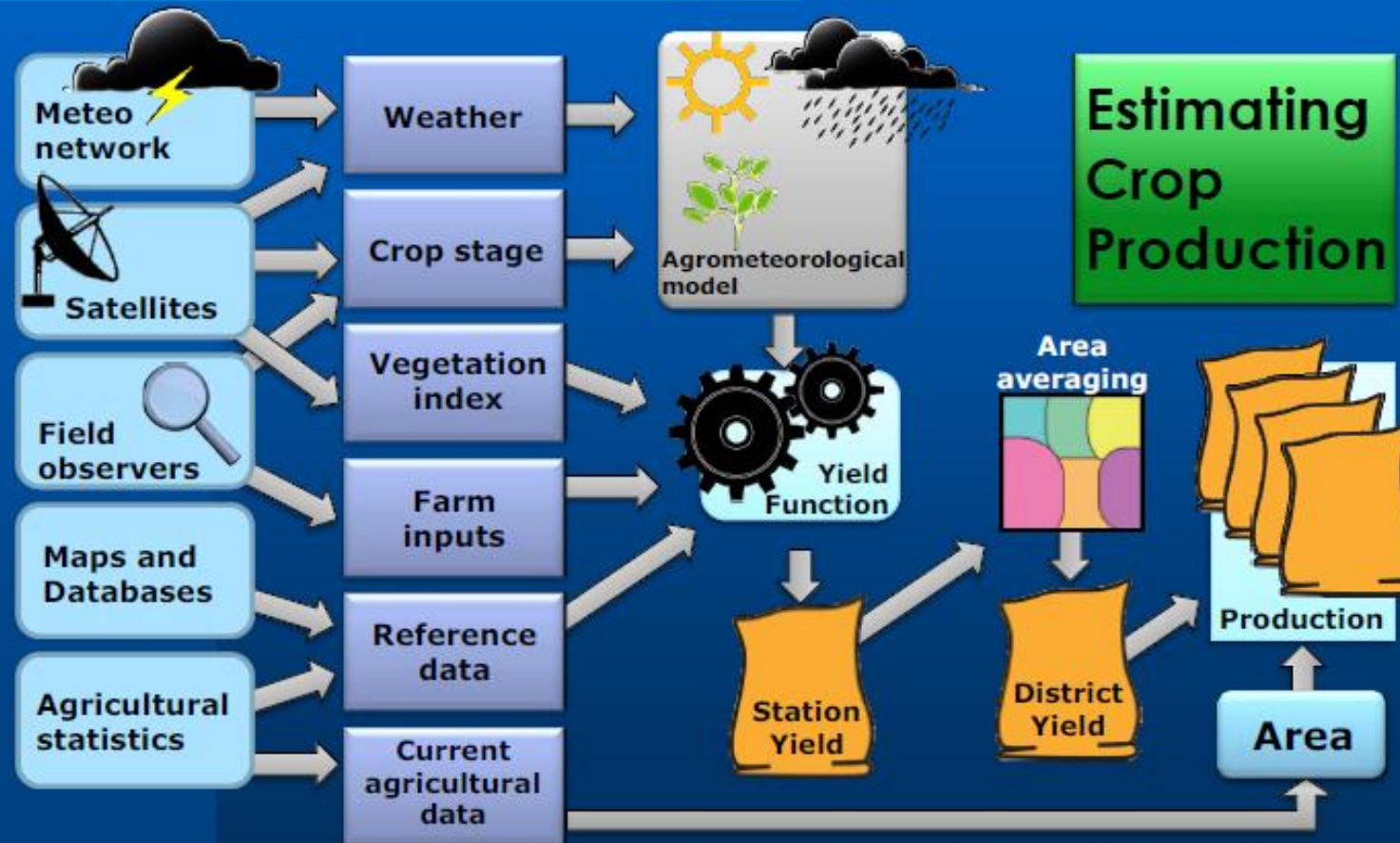
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VALUES AND BENEFITS ?

National
Level

Monitoring of Crops through Satellite Technology



VALUES AND BENEFITS ?

Tipping Points on Earth (source: Lenton et al., 2008).

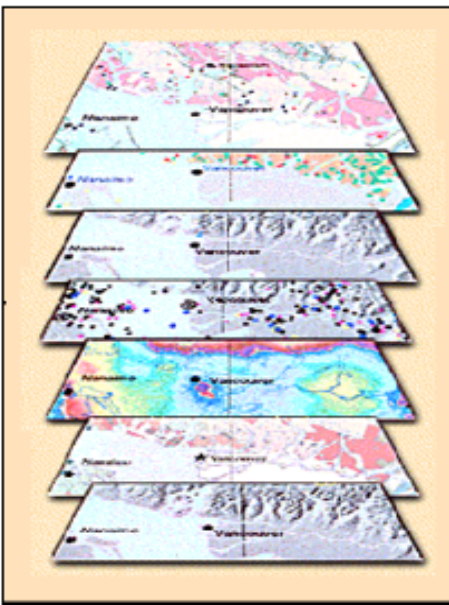


International Level

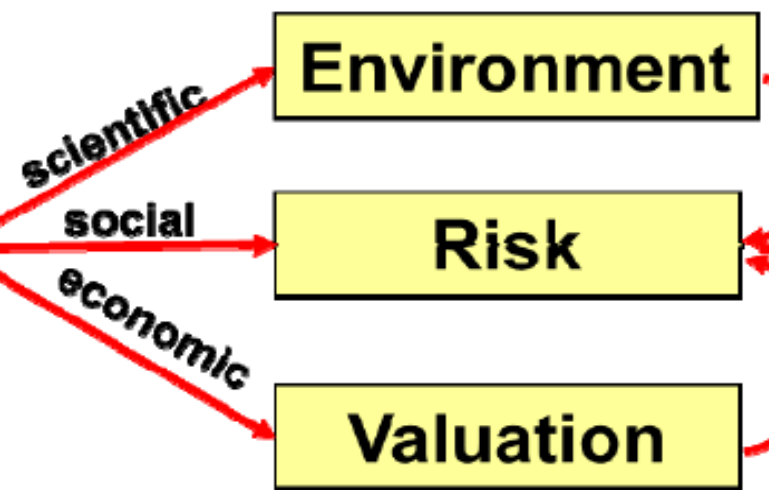
VALUES AND BENEFITS ?

The Geospatial Decision Framework adopted.

Information



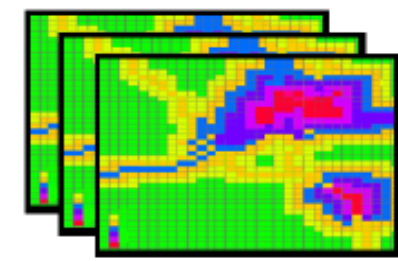
Assessment



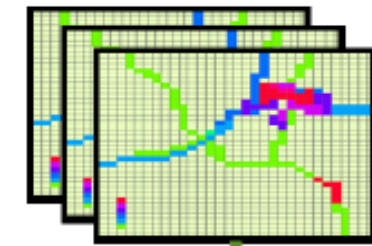
Scientific
Modeling

Integrated
Assessment
Modeling

Outcome



Environmental



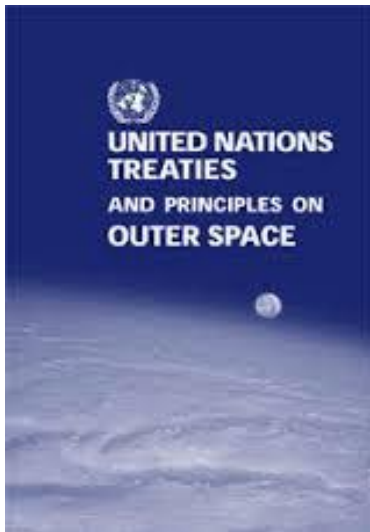
VOI

ANGKASA SPACE PROGRAM AND ACTIVITIES

- Pursue **R&D activities** in space science, space technology and allied fields for achieving the objective of self-reliance
- Enhance indigenous capabilities in space technology and promote peaceful applications of space sciences and technology for economic development of the country
- Prepare and propose national long term as well as short term space programs
- Advice the government in all space related matters
- Liaise with national & international bodies and agencies



Need for a national space policy



Immersion of the Government in space programs that translate into a public good such as resources and environmental monitoring, communication and broadcasting, disaster management and SAR, and tracking and navigation.

Emphasizing that space activities contribute to the goals of, **and fully respect the principles set out by, the United Nations' "Outer Space Treaty"**, in particular the exploration and use of outer space for the benefit and in the interests of all mankind for exclusively peaceful purposes .

Reinforcing public and industry support for the research, development and applications of space technologies, ensuring complementarities of actions and maximizing synergies with other developments;

Organizing the **governance of activities** in particular to shape the evolution of the national space programs.





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CONGRATULATIONS

TO THE "TRY ZERO G 3" WINNERS FROM MALAYSIA

<p>Winner Name</p> <p>FABIEN BOUHIER</p> <p>Proposed Idea</p> <p>"Growing bubbles in a glass of water"</p>	<p>Winner Name</p> <p>SABRINA BINTI MOHAMMAD SALIM & ZAKIAH BINTI MOHAMMAD SALIM</p> <p>Proposed Idea</p> <p>"Bernoulli's principle"</p>
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