



#### NOAA and GEOSS: Meeting Our Earth Observation Needs

## Perspectives on Integrated System of Systems

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Overview
Personal experience
Some examples
Vision
How you can help move GEOSS forward

**Personal Experience** NOAA: IOOS – 2004-05 Integration across NOAA Integration nationally and internationally - Missing link to GEOSS • WMO - 2006-07 Coordination with GEOSS Secretariat Need to connect to users

**Some Examples** Successes: - Tsunami Warning Possibilities: Medical authorities anticipating public needs Community planning to address air quality End-to-end disaster planning, preparation and response

#### Vision

Information exchange benefiting people
Improved earth observation leading to ...
Improved research leading to ...
Improved understanding leading to ...
Improved analysis & prediction leading to...
New products and services leading to...

Improved human health, safety, & welfare

How you can help move GEOSS forward Recognize It's not about ownership Interoperability and architecture are key Building GEOSS requires commitment without new resources Small steps you take within existing resources will produce the strategic gain The largest payoff is years ahead

#### **9 Societal Benefits**

- **Disasters:** Reducing loss of life and property from natural and humaninduced disasters
- Health: Understanding environmental factors affecting human health and well-being
- **Energy:** Improving management of energy resources
- **Climate:** Understanding, assessing, predicting, mitigating, and adapting to climate variability and change
- Water: Improving water resource management through better understanding of the water cycle
- Weather: Improving weather information, forecasting, and warning
- Ecosystems: Improving the management and protection of terrestrial, coastal, and marine resources
- Agriculture: Supporting sustainable agriculture and combating desertification
- Biodiversity: Understanding, monitoring, and conserving biodiversity

#### GEOSS has the potential to make a significant contribution to a better US and world

# Your program needs to be a part of reaching its vision.

