

Esri National Security Summit

July 12–15, 2014 | San Diego, CA



Keynote Address: Information Management Challenges in Security a Nation

*Major General William Reddel III, The Adjutant General,
New Hampshire National Guard*



Knowledge Management

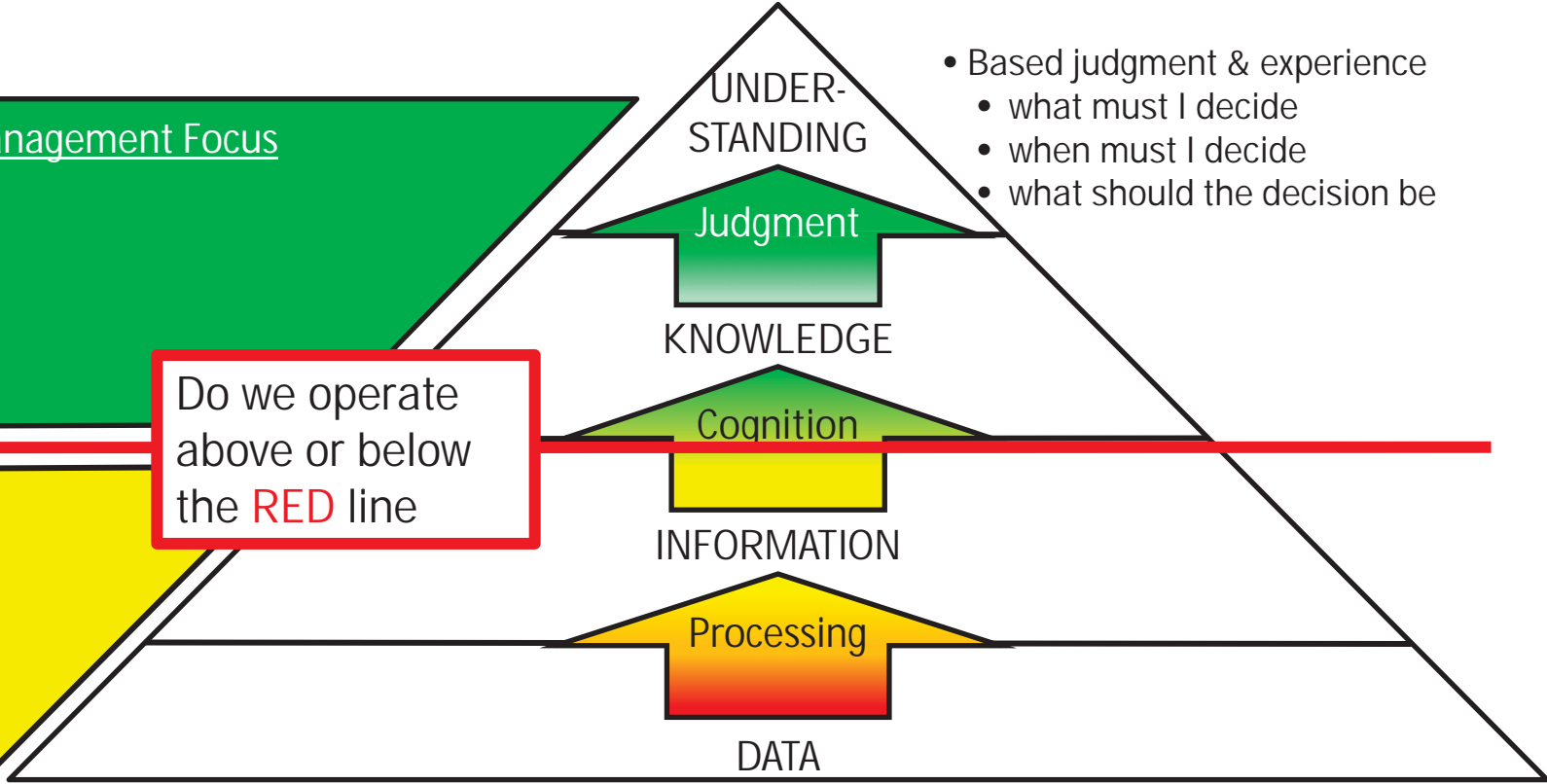
Knowledge Management Focus

- Apply
- Decide
- Create
- Assess Risk
- Organize

Do we operate above or below the RED line

Information Management Focus

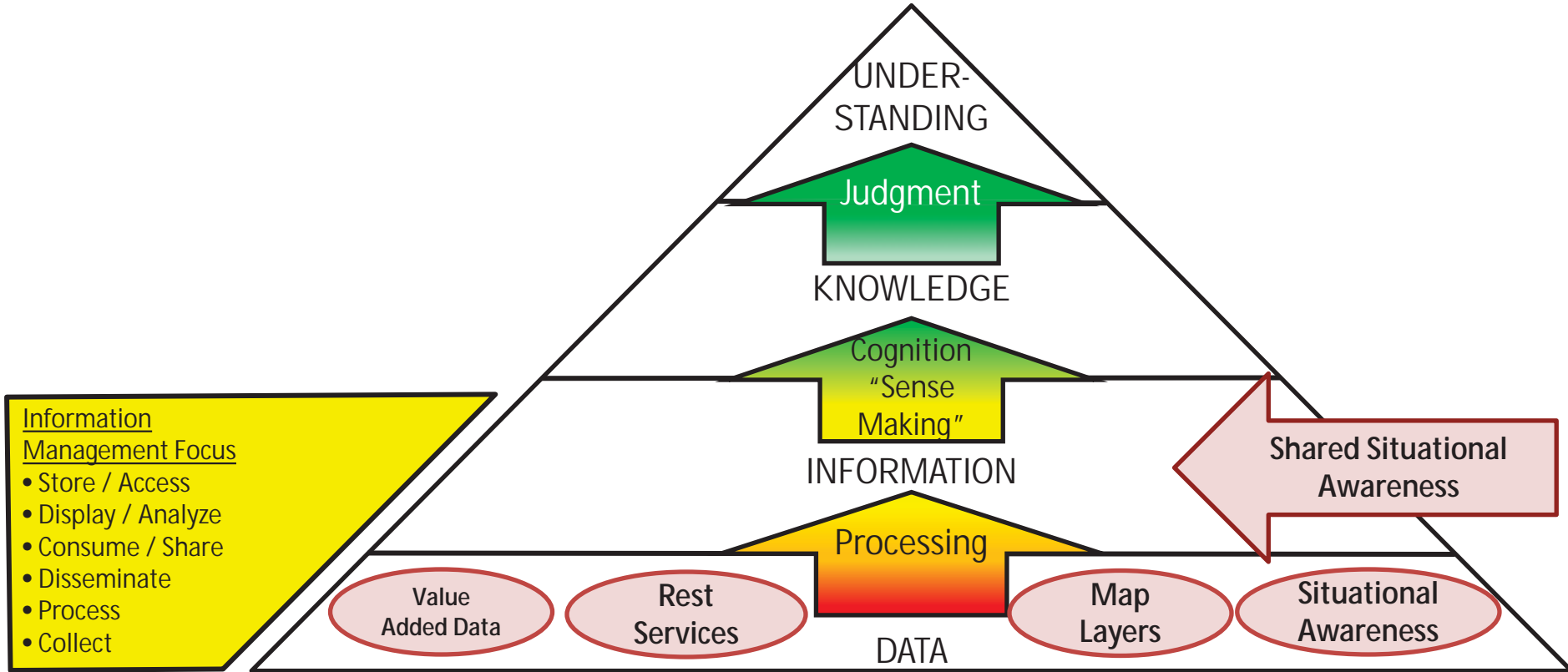
- Store
- Display
- Protect
- Disseminate
- Process
- Collect



- Based judgment & experience
 - what must I decide
 - when must I decide
 - what should the decision be



Disaster Management Architecture Vision



Disaster Management Architecture **Vision**

Users & Applications



Services

Distributed Infrastructure	Store & Forward Algorithms
Virtualization	Disadvantaged Communications
Fault Tolerance	Tactical

Scalability & Robustness

Collaboration	Video Analytics
Resource Management	Analysis/Reporting
Training Simulation	Crowd sourcing

Decision Support

Standards (OGC, WMS, KML, ...)	Portal Technology
Security & Governance	Web EOC
NISC, NSGIC & HIFLD	VIRTUAL USA

Interoperability

Resources



Location Information



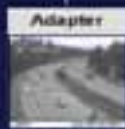
Airborne/Satellite



Crowd-sourcing



Maritime



Transportation



CBRNE



Services & Databases
GIS
HSIP



Maps



Geospatial Knowledge Management Path to Decision Making

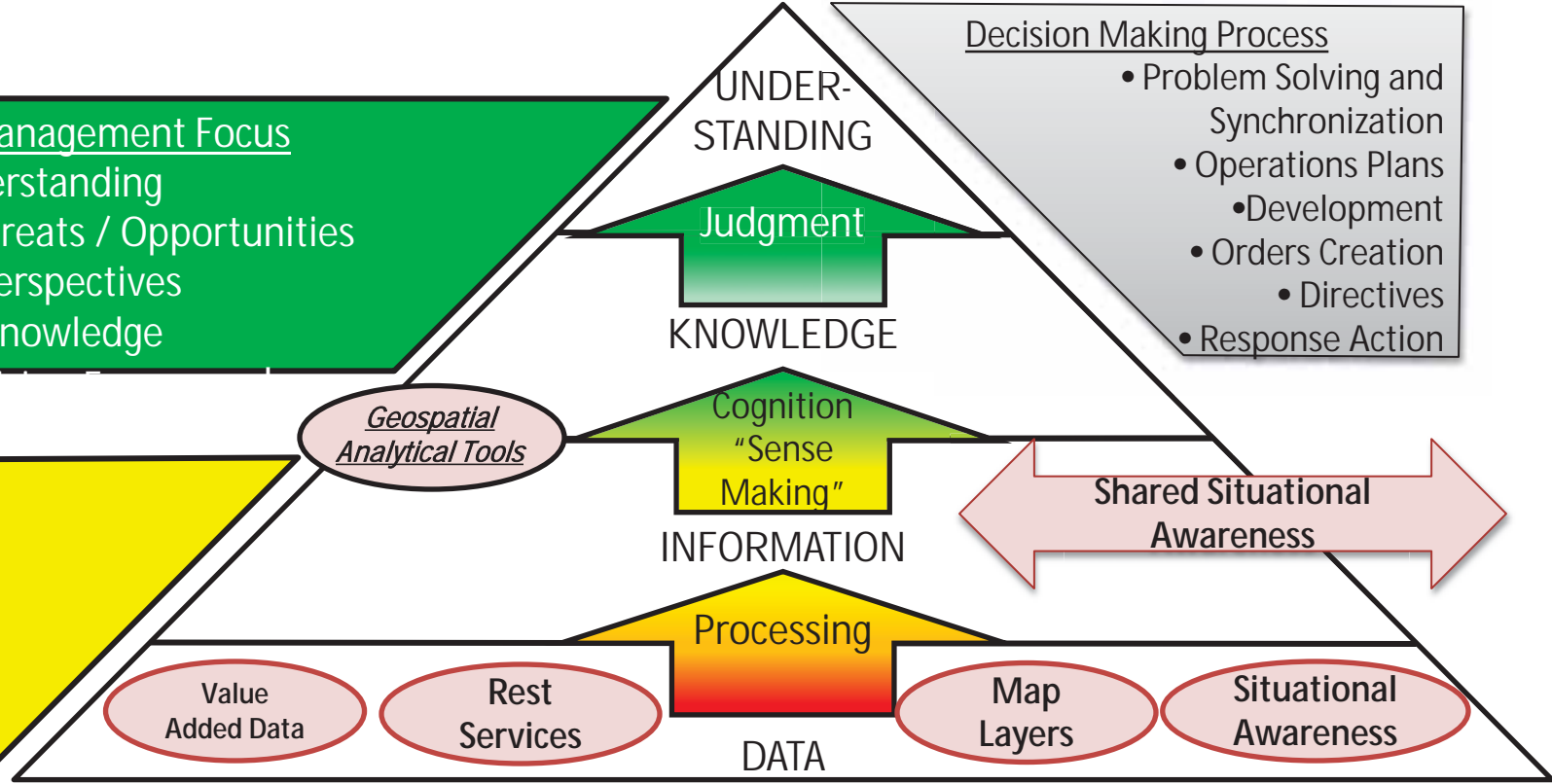


Knowledge Management Focus

- Shared Understanding
- Identified Threats / Opportunities
- Integrated Perspectives
- Actionable Knowledge

Information Management Focus

- Store / Access
- Display / Analyze
- Consume / Share
- Disseminate
- Process
- Collect



Decision Making Process

- Problem Solving and Synchronization
- Operations Plans
 - Development
- Orders Creation
 - Directives
- Response Action

Foundational Guidance from DHS & FEMA



PLAN

PREPARE

MITIGATE

RESPOND

RECOVERY


Communicate

“One of the lessons that emerged out of the Capstone 2014 Exercise is that ArcGIS On Line can serve as a backbone for information sharing.”

Chief Charles Werner

Fire Chief, Charlottesville, Virginia; Chairman, National Information Sharing Consortium (NISC)

Challenges

- **Policies**
 - **Firewalls (hiding data that does not need to be hidden)**
 - **Integration of all GIS solutions**
 - **Identity Management**
 - **Is data shared?**
 - **Is data accessible?**
 - **Is data discoverable?**
 - **Is data secure?**
- 

Challenges

- **Social Media**
- **Big Data (hiding data that does not need to be hidden)**
 - **So what?**
 - **Where is the actionable data?**
 - **What connections need to be made to receive actionable data?**
- **Recognition that all incidents occur locally**
- **Establishing a common set of policy or ground rules for information sharing – a united approach**