Actionable Intelligence to Identify and Manage the Response to Pandemics

Jeffery Marshall

Director, Homeland Security

SAP Public Services

Goal

Prevent a pandemic outbreak.

If an outbreak occurs, rapidly gain situational awareness, determine the best course of action and respond rapidly to save lives and prevent further spread.

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Key Challenges

Determining if a pandemic breaks out

- **Location(s)**
  - **Current**
  - **Predicted**
- **Scope and Severity**
- **Timelines**
- **Vectors**

Determine proper response

- **Nature of the pandemic**
- **Approved policies**
- **Decision trigger points**
- **Resources available**

Manage the response

- **Containment/quarantine**
- **Mobile and deploy resources**
- **Treatment**
- **Public information**

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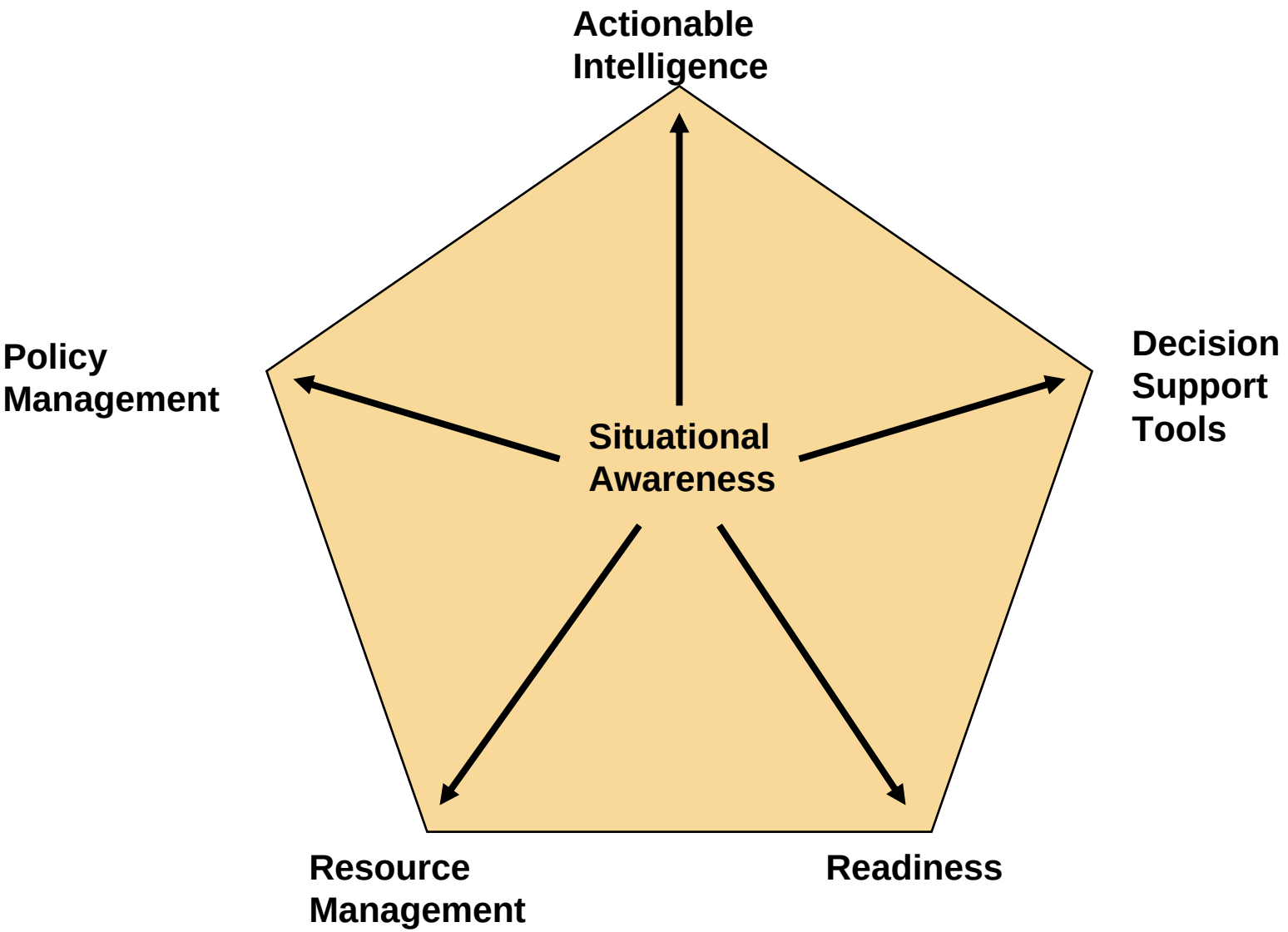
Critical Success Factors



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Actionable Intelligence…And Coordinated Response

See

Databases

Sensors & Responders

Structured Data

Web, mail, news

ENTERPRISE SOA

Understand

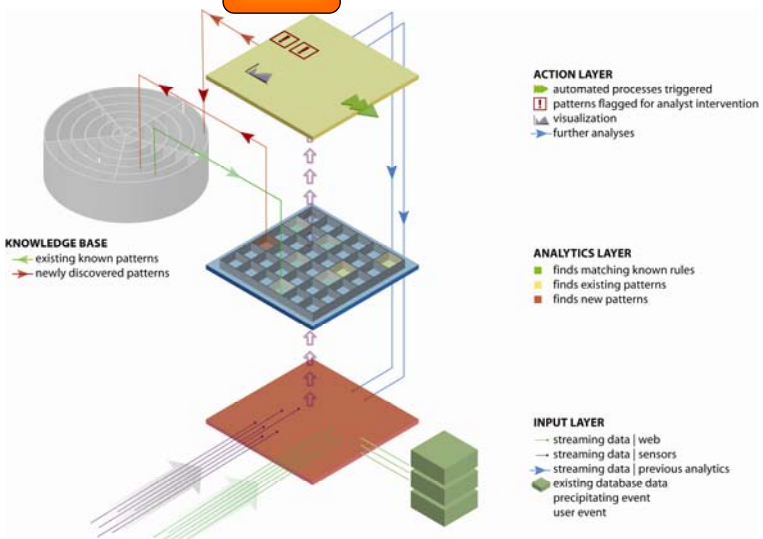
Manage, Decide, Coordinate

Case Management

Policy Management

Notify/Escalate

Alert



Correlate, Analyze, Learn

Respond

Incident Management

Deploy & respond

Update, coordinate

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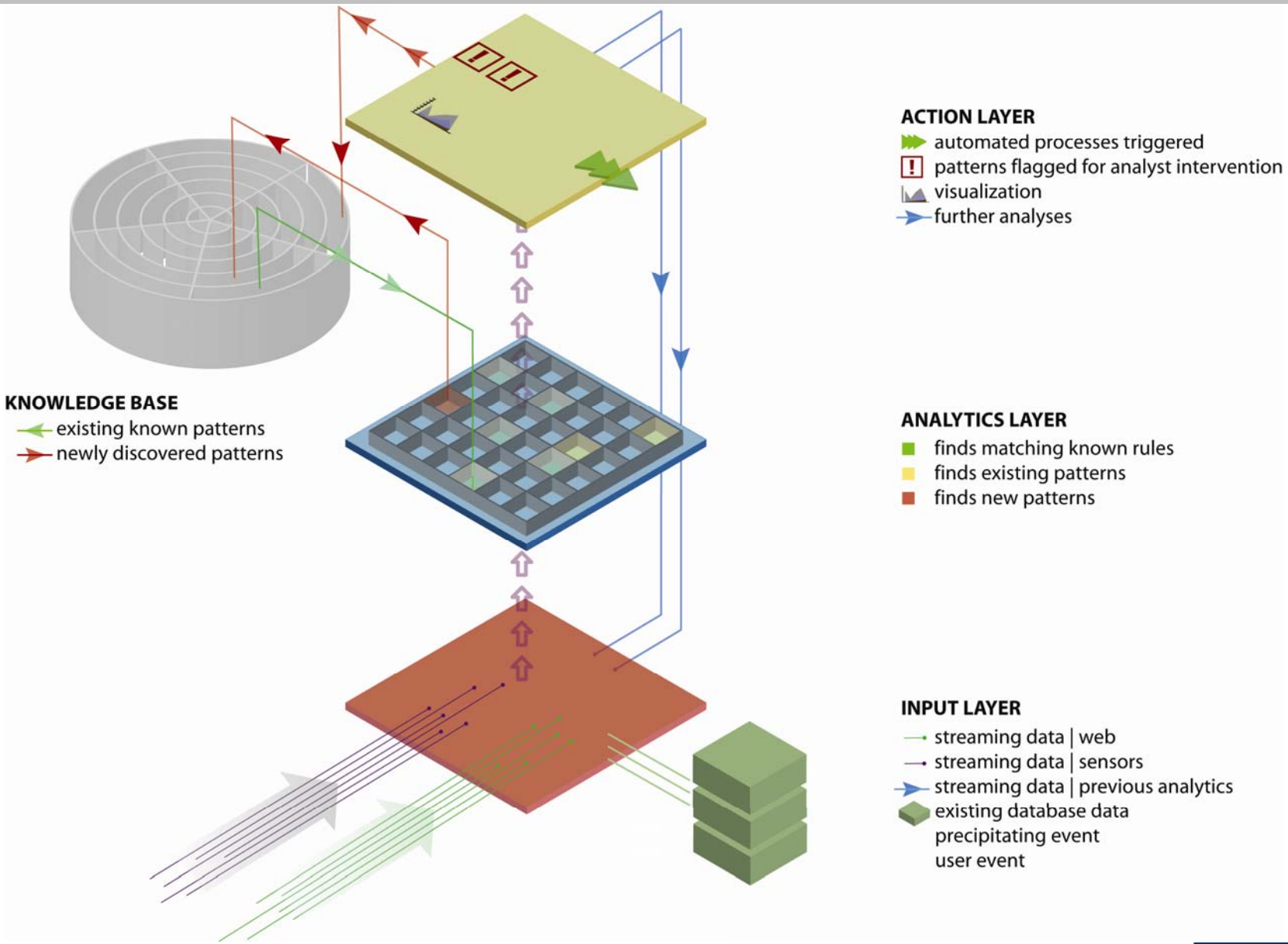
Creating Actionable Intelligence



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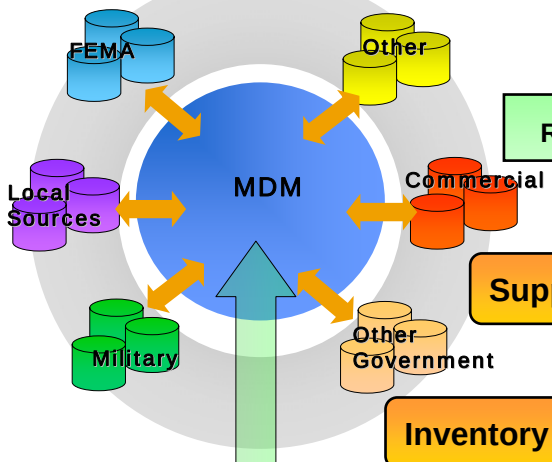
Coordinated Response and Recovery

Find Resources

Where are they?
What are the optimal sources?
How do I request them?
How do I get them?



Respond

Supply Chain Mgt

Inventory Control

Update, coordinate

Situation update?
Problems?
Other requirements?
New information?

Intelligence Alerts

Other Systems & Data Sources

ENTERPRISE SOA

Incident Requirements

Geo-Spatial

Trends & Forecasts

Policies and Plans

Collaboration

Vectors and links

Manage, Decide, Coordinate

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Supply Chain Management

Increase forecasting accuracy of vaccines and medical devices at the location and quantity level

Automate business processes with minimal and remote human intervention

Ensure real time inventory visibility and status across departments, agencies, suppliers and manufacturers

Ensure secure data environment that can be accessed remotely over the web for both internal and external business partners with zero client footprint

Leverage existing Pharmeceutical Industry adoption of SCM and set standards to communicate supply and demand signals

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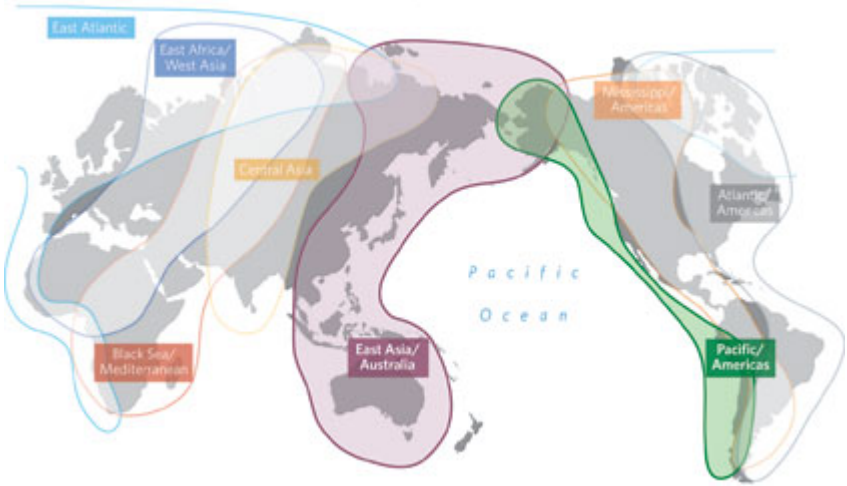
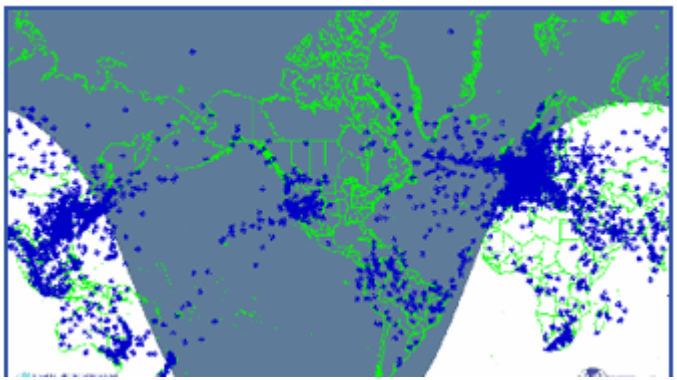
It's Not a Matter of If, It's a Matter of When and Where





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