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Implementing a Standard PB Management Approach for Capital Assets and Logistics

Assessing compliance with requirements:
Meeting the demand, starting with the external drivers for the organization's missions at the US Cost Guard

Presentation at CRC "Clients Driving Innovation"
October, 2004

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USCG: A "Performance Based" approach

US Government mandate

- Government Performance and Results Act, 1993
- Executive Order, February 2004

US Coast Guard's response is driving innovation

- Created a Task Force in 1994
- Clarified the description of its "missions" (legal authorities)
- Is working on an Integrated decision-making process – goal is "performance based management"
- Implementation, started in FY 2003-2004
- Participation in IAI (International Alliance for Interoperability) – goal is integrated information base, including GIS, and use of IFC compliant software applications

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USCG: A "Performance Based" approach

US Coast Guard's response driving innovation (cont'd)

- The organization is changing the way it manages its logistics in support of operations
- Most advanced in the US government
- Changed funding allocation process in FY 2003-2004 – First Pilot tested method manually
- Implementing lessons learned in FY 2004-2005
- Major projects are driving innovation in portfolio and asset management by funding the creation of automated tools for analysis of projects against set of criteria, including:
 Mission criticality, Functionality/Serviceability, Security, Space Utilization, Security, etc.

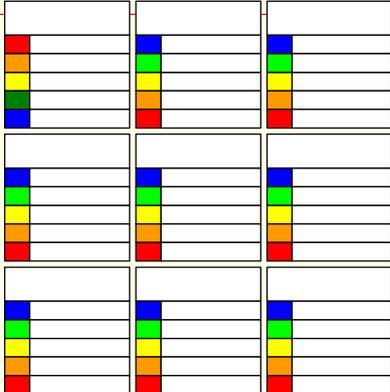
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Performance-based decision-making & management

In the US government context:

- Government Performance Results Act of 1993.
 "... to provide for the establishment of strategic planning and performance measurements in the Federal Government, and for other purposes.
 ... to improve program efficiency and effectiveness, because of insufficient articulation of program goals and inadequate information on program performance;
 ... by promoting a new focus on results, service quality, and customer satisfaction;

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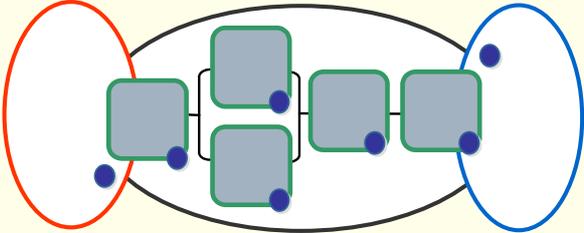


- In the future, data will be reported on all these metrics**
- The relative importance of each will be taken into account when allocating funds and setting project priorities.**

Diagram by
Françoise Szigeti and Gerald Davis
in collaboration with
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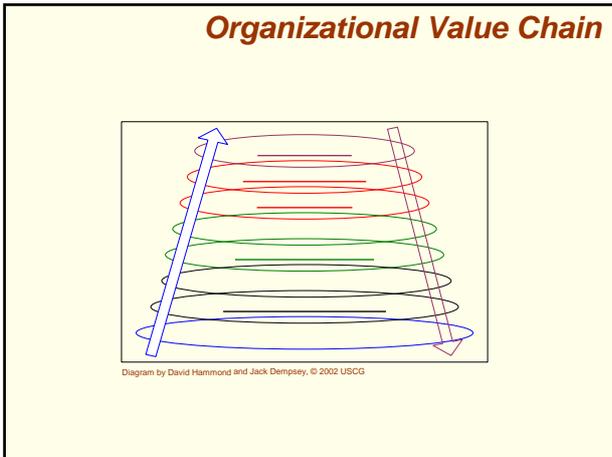
Integrated Decision-Making Process



Performance-Based Management
 Diagram by David Hammond and Jack Dempsey, © 2002 USCG

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Fact-based decision-making

To **use** the Performance-based approach, need:

- Requirements that can be measured and compared.
- Assessments of how well requirements have been met (goodness of fit.)
- Metrics that are important for decisions about the portfolio.
- Asset managers who understand and support the approach.
- Culture and internal systems that reward fact-based decision-making, funding allocations, and performance-based management.

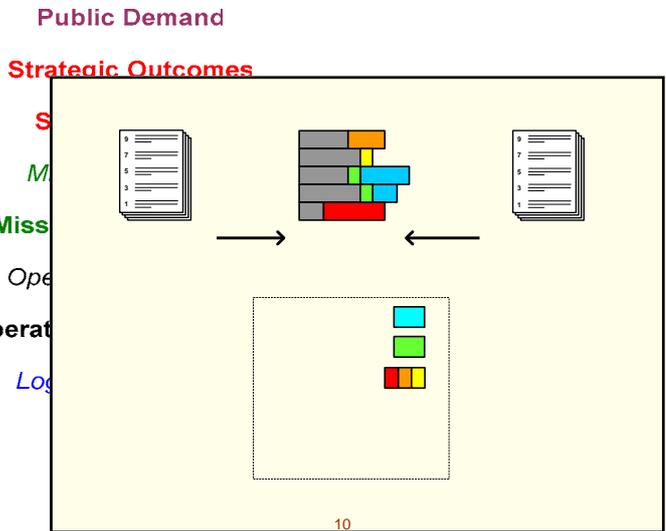
Focus on outcomes for operations.

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Data Stamp: Metrics about Functionality

- Application in one large organization.
- About 3 million m2.
- Many hundreds of buildings.
- Tens of thousands of users.

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Two languages: Demand – Supply

WHY
is it REQUIRED
Describe mission and purpose

WHAT
IS REQUIRED
Define ends and expected results in support of business OR other mission

CLIENT
users/customers understand

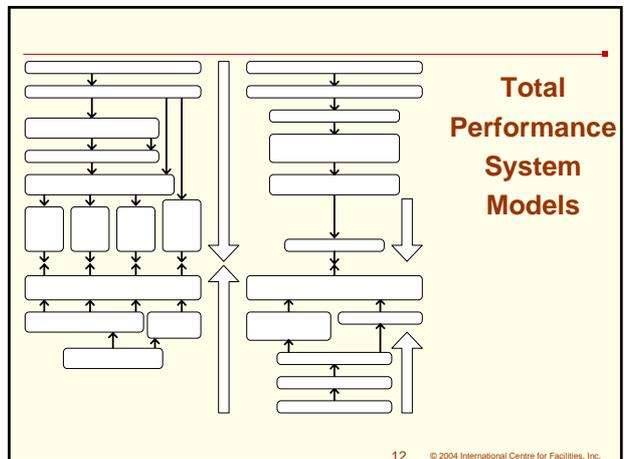
Compare & Match

HOW
CAN ONE OR MORE SOLUTIONS meet the requirements. Assess capability to perform.

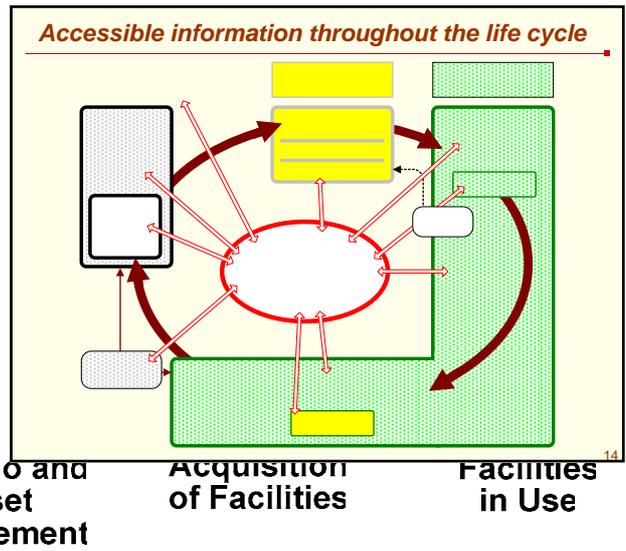
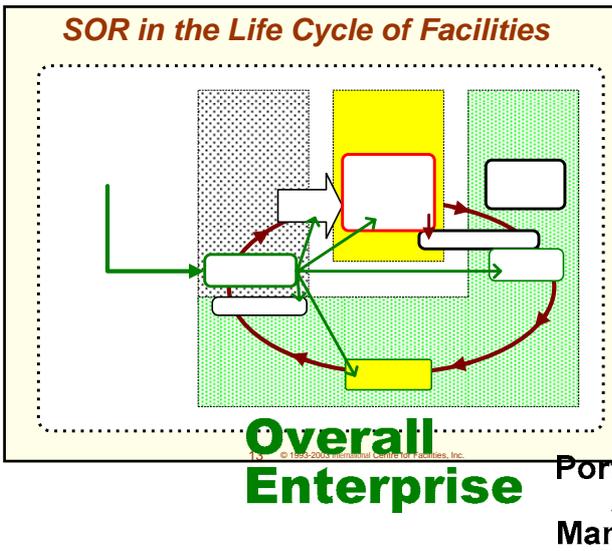
SUPPLIER
supply chain participants understand and respond appropriately

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Demand

Virtual Model: Integrated Information System

- A Virtual Model is a tool to create, hold, retrieve and use data from the "Integrated Information Base of Shared Data and Support Data".
- Will be able to bring up the Data Stamps by clicking on any expression of the Virtual Model, such as:
 - Site Plan with building and infrastructure.
 - Perspective of interior or exterior of a building.
 - Floor, zone or wing of a building.
 - Etc.
- Access and Storage issues

Design and Operation

Data Stamps summarize key facts about each asset

The diagram shows a site plan with four buildings (Building 1, Building 2, Building 3, Building 4). Each building is linked to a 'Data Stamp' table. A legend at the bottom explains the stamp components: Mission Dependency Index, S-Security, F-Functionality, C-Condition and Service Life, and U-Utilization. The legend includes sub-categories like Mission, Operational, and Support, each with color-coded indicators.

Weighted Data Stamp
 Indicates how well the ISC supports the missions of each unit

The diagram shows a map of the United States with several data stamps placed over different regions. Each stamp is a small table with colored cells, representing the weighted data for that area.

Compare demand and supply

What is the average level of **functionality** of Logistics required by the operating commands at each site in the AREA?

- The Missions (legal authorities) of the Coast Guard supported at that site.

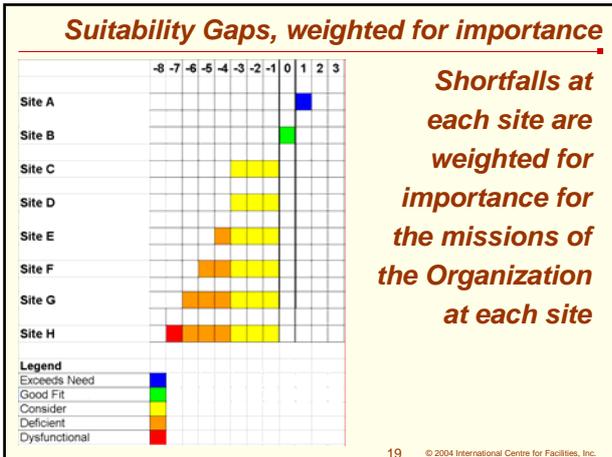
What is the **capability** at each site:

- The various Logistics Units at that site.

Compare functionality and capability, **weighted** according to importance for missions (legal authorities) at each site.

The next slide gives the result of that comparison.

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Useful, reliable, affordable data

Accurate current data (most likely when the people who provide and enter the data are also the people who will use it.)

Enough detail, but only enough, for scope of forthcoming fact-based decision-making.

Compare (gap analysis) what is or what will be against what is required, whenever practicable.

Integrated data management for performance-based building.

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Thank you!

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