



Facilities are Mission Critical: GIS is Central to Supporting Federal Real Property Management

Michael Grove, USAF (GeoBase) Lee Robertson, Smithsonian (Space & Assets) Sandrine Schultz, US Navy (Energy Programs) Michael Hardy, PenBay Solutions Ben Yetman, PenBay Solutions John Young, Esri

February 9–10, 2015 | Washington, DC



Please complete a session evaluation form

February 9–10, 2015 | Washington, DC



Print your customized Certificate of Attendance!

Printing stations located on L St. Bridge, next to registration



February 9–10, 2015 | Washington, DC

Networking Reception:

National Museum of American History

Tuesday, 6:30 PM–9:30 PM Bus Pickup located on L Street

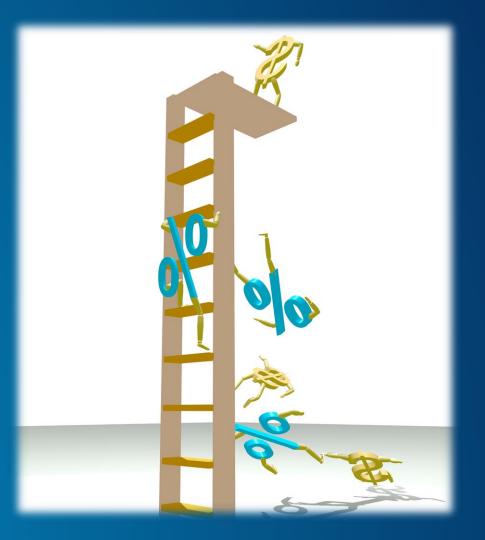
Facilities Are Mission Critical - Agenda

- Introduction Facilities Are Mission Critical
- Government Examples
- Live Demonstrations
- QnA with Panel and Attendees
- More Information

Challenges Faced by Federal Real Property Managers

Underutilized properties cost billions annually

- Executive orders, GAO, etc., demand new efficiencies
- Increasing vulnerability of federal real property
- Information silos and other obstacles to efficient management & protection of FRP



Facilities Are Mission Critical – GIS is a Force Multiplier



Government Examples

Michael Grove, USAF



GIS and Air Force Facilities/Space Management Examples



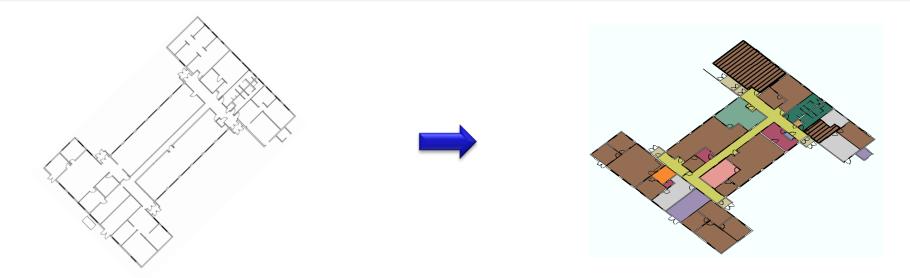
Michael Grove BAH February 10, 2015



Why Space Utilization?

"Our goal is to reduce the portion of the Air Force budget used for installation support by 20% and reduce the size of the Air Force physical plant by 20%, by the year 2020. Collectively, our transformation efforts will enhance support for the warfighter, reduce the cost of installation engineering activities, and free resources for the recapitalization of Air Force weapons systems."

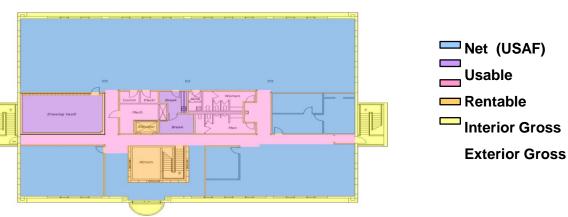
> Major General Del Eulberg, The Air Force Civil Engineer CE Transformation Vision 20/20 by 2020





What is Space Utilization?

- M-5 Develop Demolition Policy
 - Identify surplus of inefficient facilities while diverting infrastructure funding to higher priority facilities
- M-6 Optimizing Space Utilization
 - Identify excess and underutilized building space to efficiently manage space

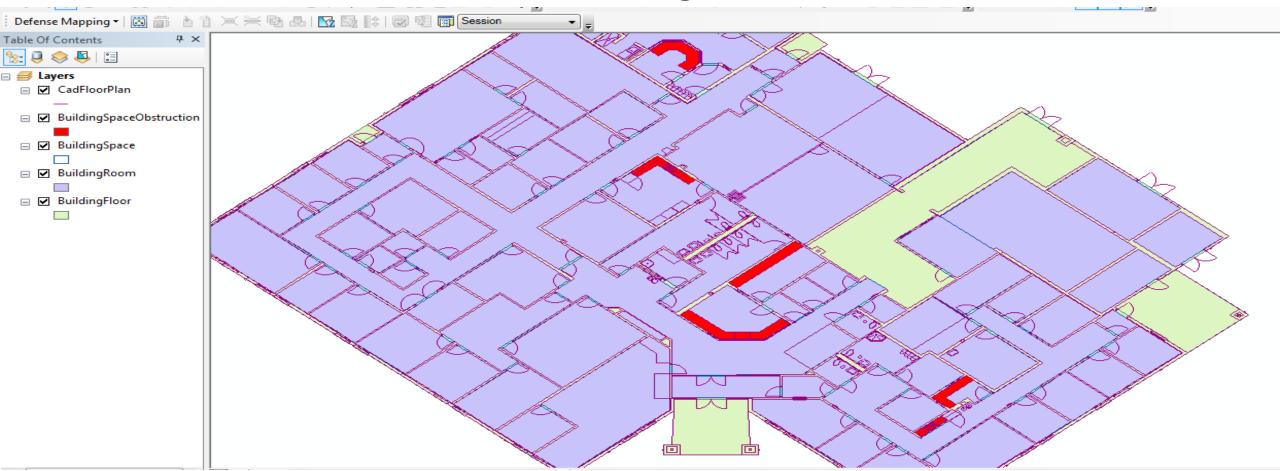


For more information on Space Utilization, please visit the Asset Management CoP on Air Force Knowledge Now





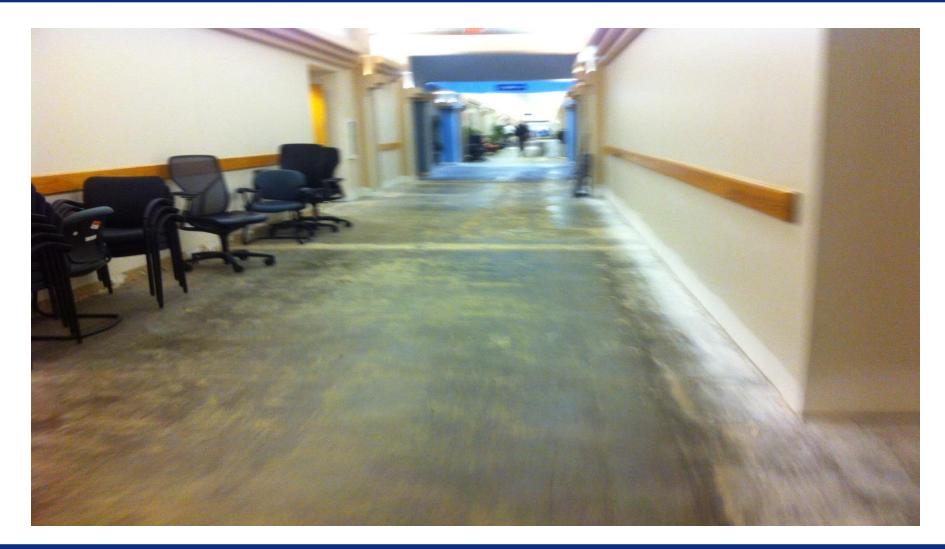
Combination of CAD and GIS technologies





- Air Force Civil Engineering Center (AFCEC) main building at Port of San Antonio
- Leaseback of Kelly AFB from City of San Antonio
- Old train depot approximately ¼ mile long
- Friday after Thanksgiving, 2015 water main under building breaks
- **25%** of staff required to relocate across facilities on and off campus

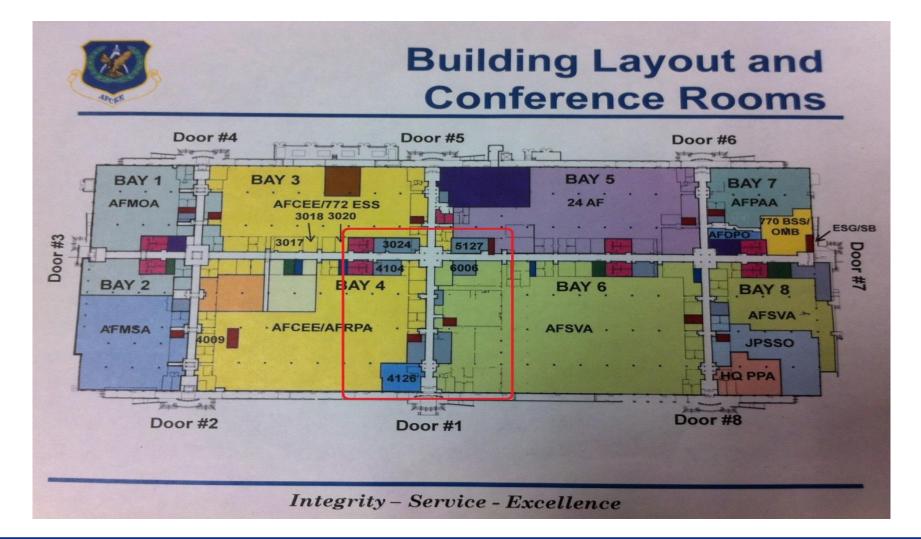










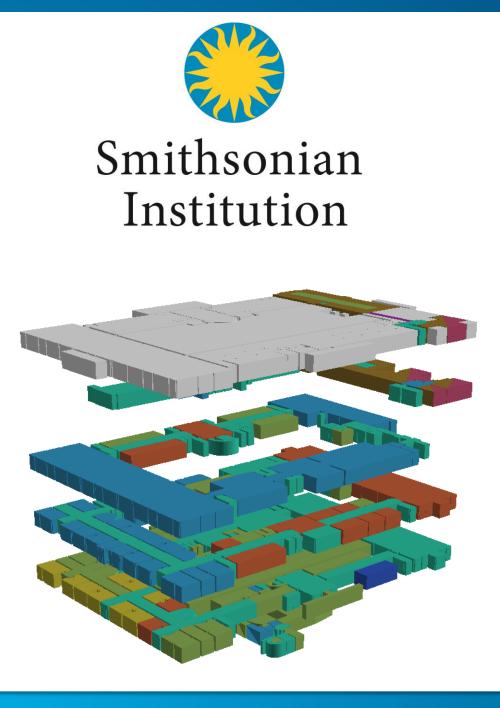






- Relocation will last for 5+ months at least
- Majority of staff relocated to areas with no minimal to no comm or phone support
- Some relocations to the "Inn" causing disruption to available meeting space for that facility

Lee Robertson, Smithsonian











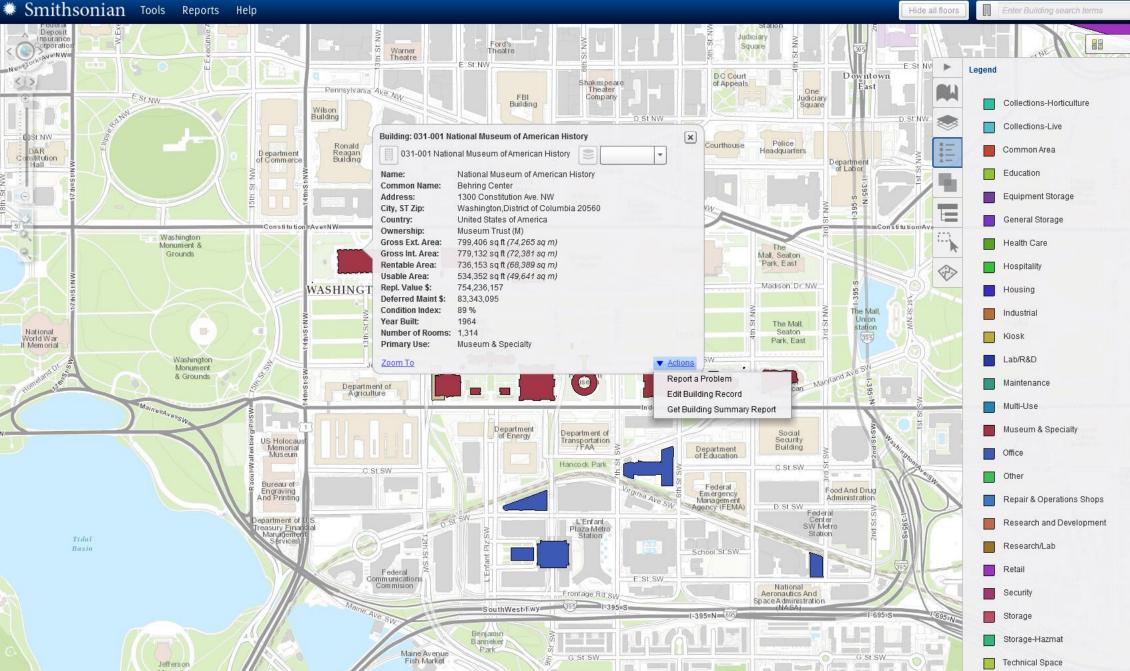




Facilities GIS February 10, 2015

12,552,949 Gross Square Feet in GIS 580 Buildings in GIS 23,746 Spaces in GIS

Reynolds Center



Jefferson

Field

H St SW

Memorial

500 m

2000 ft

Amidon

Field

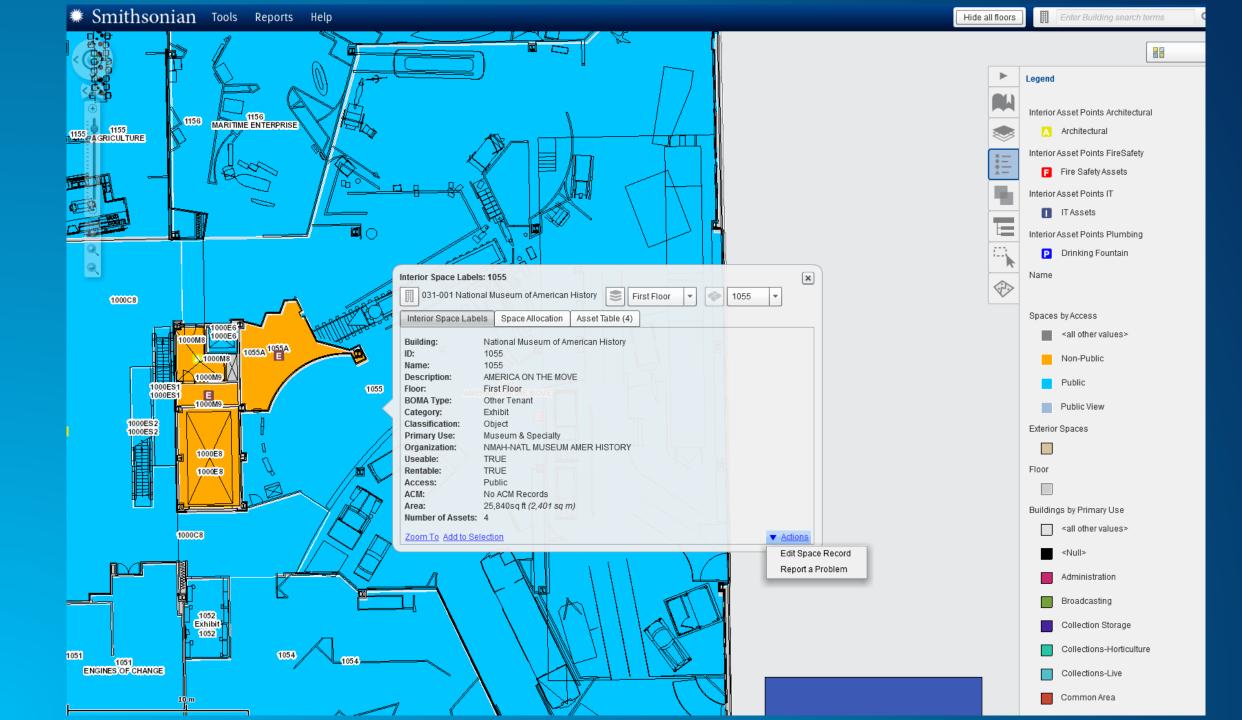
to

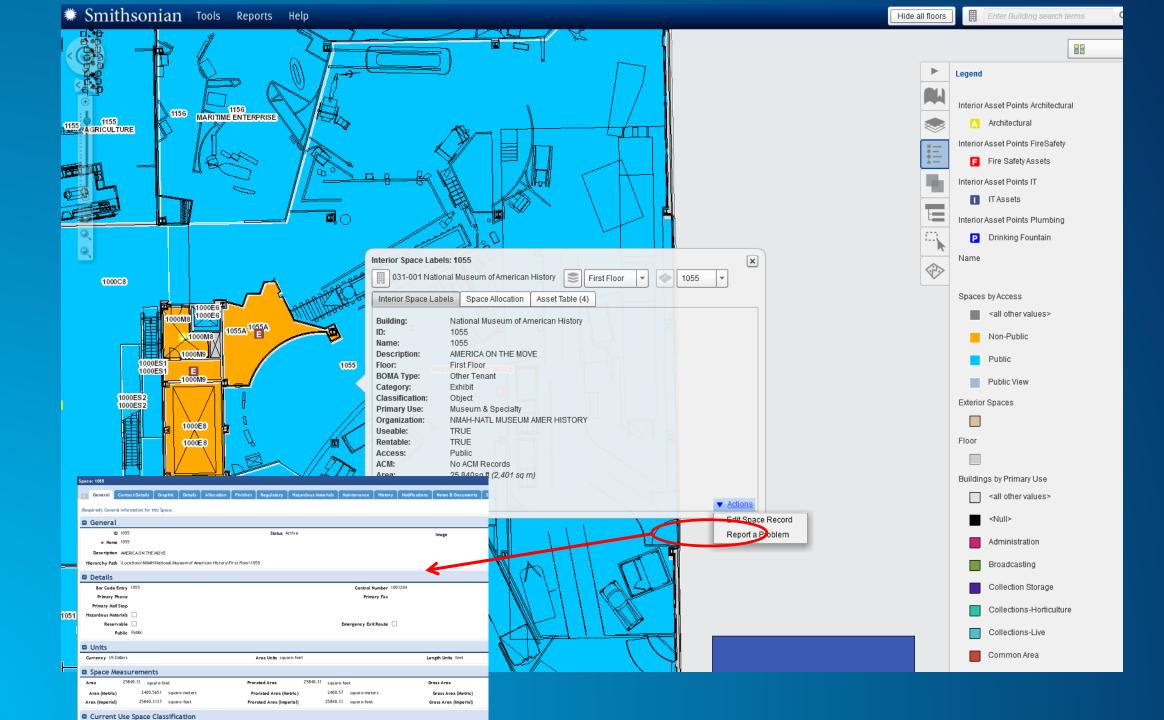
12

HISTISW

Warehouse

9



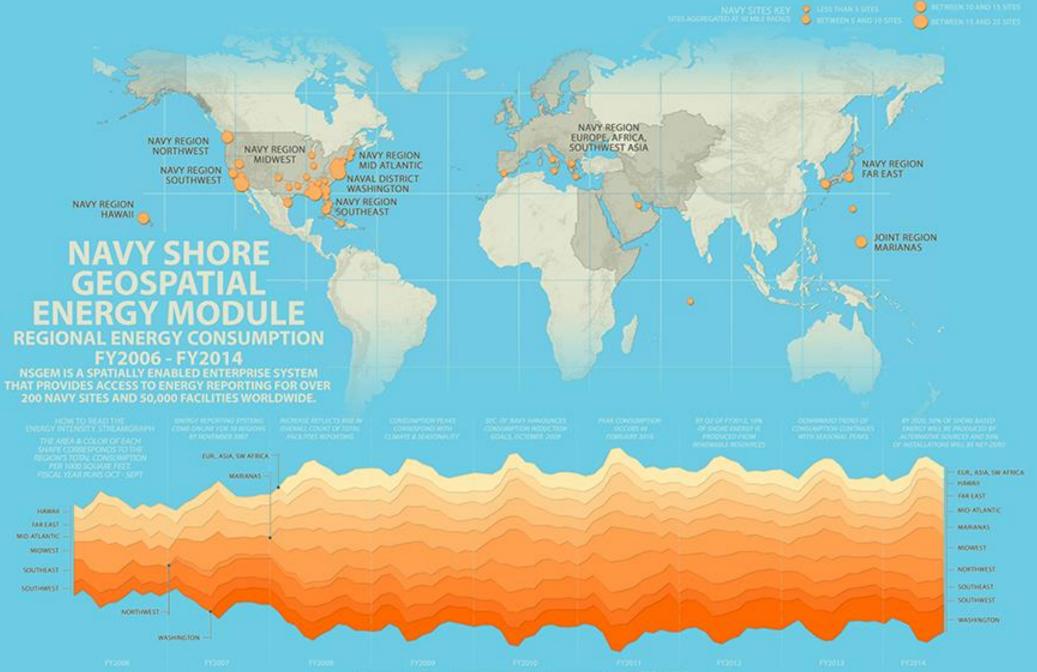


Smithsonian Tools Reports Help

Hide all floors Enter Building search terms



Sandrine Shultz, US Navy



Although a provide a state of the second state



WA CND Washington

N68469 NAVAL SUPPORT ACTIVITY WASH

Installation Key Facts

Climate Zone	4A - Mixed - Humid	Toatal MBTU Usage	43,311
Number of Sites	14	Total KSF Area	6,938
Number of Facilities	417	Energy Intensity (MBTU/KSF)	6.24

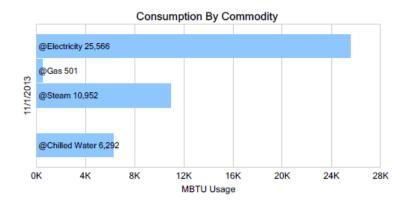
Data Assessment Score

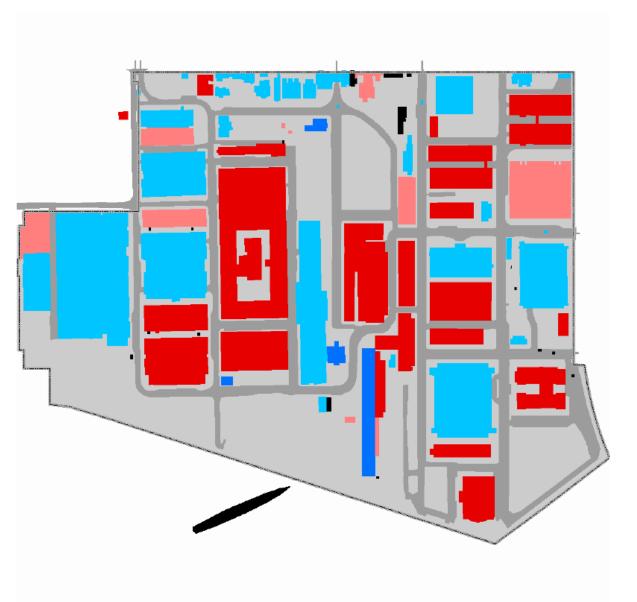
75% Total NSGEM Score

iNFADS (Real Property)	100%		
NFA ID Available	417/417		
Primary Use Category Code is Not Blank	417/417		
KSF Area is Not (Null, Blank, Zero)	417 / 417		
Circuits (Energy Consumption)	44%		
NFA ID Available	184 / 417		
CIP (GIS Installation Data)	83%		
NFA ID Available	349/417		















NAVY REGION SOUTHEAST ENERGY PROGRAM

COMMANDER, NAVY INSTALLATION COMMAND (CNIC) INSTATED THE CNIC ENERGY PROGRAM IN ONDER TO PROVIDE GUIDANCE, POLICY, AND TOOLS FOR IMPLEMENTING MANDATED ENERGY REDUCTION AND SUBSTINABLISTY PRACTICES.

THE MAIN GOALS OF THE PROGRAM (AS OUTLINED IN OPNAV POLICY OPNAVINST 4100.5E) ARE:

SOI REDUCTION IN ENERGY CONSUMPTION BY 2020.
 SOI RENEMABLE ENERGY SOURCE CONSUMPTION BY 2020.
 SOI NET-ZERO PARTICIPATION BY 2020.

IN ORDER TO MEET THESE GOALS, CNIC ADOPTED A FACILITY ENERGY STRATEGY THAT INCLUDES:

- REDUCING ENERGY DEMANDS
 FACILITIES AND BUILDING PRACTICES
 USING LESS ENERGY CONSUMPTION
 EXFANDING INTROY SUPPLIES
- ADOPTING ALTERNATIVE/RENEWABLE SOURCES
- ENHANCING ENERGY EXCURITY -SUSTAINABLE ENERGY USAGE - Advancing num technologies - Installing smart meters on each - Building, using GIS to leverage and - Provide mitrics from Available

CONSUMPTION INFORMATION , ETC. FOR MORE INFORMATION ABOUT ASSEM CONTACT THE NG NAVY ENERGY PROGRAM MANAGER:





NAS

CORPUS

CHRISTI

FORT WORTH

۲

CAPT. MARK MCLAUGHLIN, COMMANDING OFFICER OF NAVAL AIR STATION KINGSVILLE, LEFT, LISTENS AS PUBLIC WORKS OFFICER CMDR. TROY HAMILTON EXPLAINS HOW THE ADVANCED METERING INFRASTRUCTURE PROGRAM SMART METERS OPERATE. THE METERS WILL HELP THE COMMAND TRACK ELECTRICAL USE AND MANAGE ENERGY CONSUMPTION. KINGSVILLE BECAME THE FIRST NAVY REGION SOUTHEAST COMMAND TO INSTALL THE SMART METERS WHEN THE FIRST METER WAS INSTALLED AT THE AIR STATION'S RV PARK. THE COMMAND PLANS TO IN-STALL 158 SMART METERS THROUGHOUT THE BASE.

NAS

0

CBC

NEW

NAS JRB

ORLEANS

GULFPORT

MERIDIAN

NAS

NAS O

PENSACOLA

WHITING

PANAMA

CITY

۲

NAS

SUBASE

MAYPORT

NAVSTA

JACKSONVILLE

ORLANDO

KEY WEST

.

NAS

KINGS BAY



THE WIND TURBINES ON TOP OF JOHN PAUL JONES HILL HAVE BEEN FULLY OPERATIONAL SINCE JULY 2005 AND WILL SAVE NAVAL STATION GUANTANAMO BAY MORE THAN \$1 MILLION BY DECREASING FUEL USAGE BY 250,000 GALLONS THIS YEAR. THEY CAN GENERATE UP TO 13 PERCENT OF THE OVERALL BASE POWER, SUPPLYING SOME OF THAT POWER TO JOINT TASK FORCE GUANTANAMO.



CAPT. CHRISTOPHER KIWUS, NAVAL FACILITIES ENGINEERING COMMAND (NAVFAC) SOUTHEAST COM-MANDING OFFICER AND RE-GIONAL ENGINEER, SHOWS ACTING ASSISTANT SECRE-TARY OF THE NAVY FOR ENERGY. INSTALLATIONS AND ENVIRONMENT ROGER NATSUHARA SOME OF THE LEED ATTRIBUTES IN THE NAVFAC SOUTHEAST HEAD-QUARTERS FACILITY DURING HIS VISIT TO NAVAL AIR STATION JACK-SONVILLE. THE BUILD-ING'S THIRD FLOOR IS AM OPEN LOFT, WHICH ALLOWS ADDITIONAL NATURAL LIGHT TO THE SECOND FLOOR.



A VIEW OF SOLAR PANELS BEING INSTALLED AT NAVAL STATION GUANTANAMO BAY, CUBA. THE SOLAR FARM IS BEING INSTALLED TO PROVIDE ELECTRICITY FOR THE ONGO-ING EXPANSION OF DENICH GYM AT THE NAVAL STATION'S COOPER FIELD SPORTS COM-

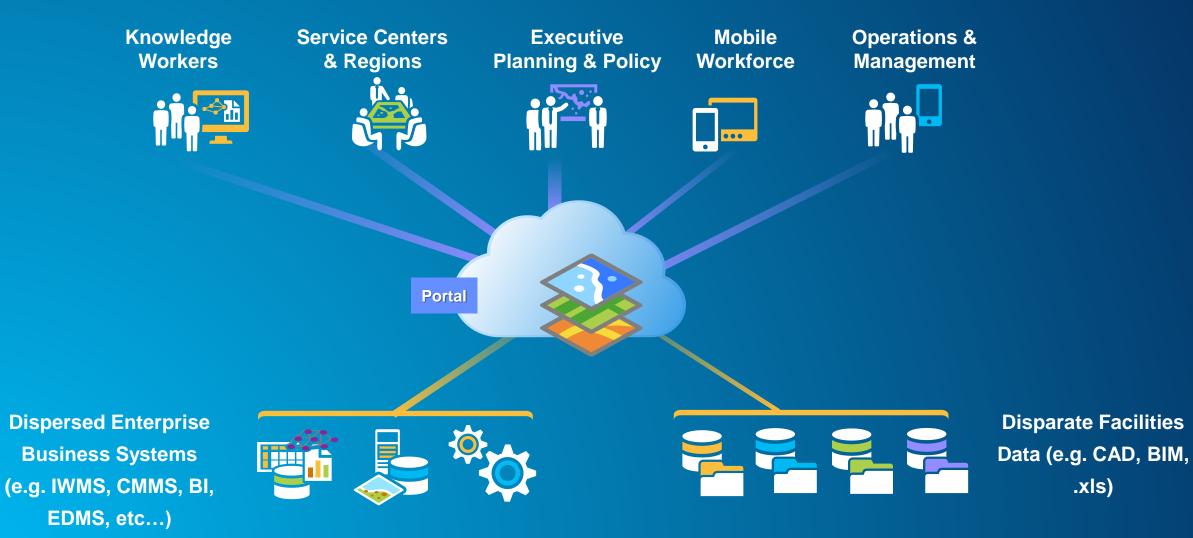
NAVSTA

BAY

GUANTANAMO

ArcGIS Platform Solutions for Facilities

A Mapping & Location Analytics Platform for Real Property & Facility Management



... helps you, your staff & contractors discover, make, use & share facility maps from any device, anywhere, anytime

Demonstration

QnA with Our Panel & Attendees

Facilities Are Mission Critical – More Information

penbaysolutions.com/govloop-mission-critical/





Washington, DC: Feb 9-10, Walter E. Washington Convention Center: **it's FREE* for Federal**



PRODUCTS ¥

INDUSTRIES ¥

Download Federal Real Property White Paper



Facilities are Mission Critical

How Enterprise Geographic Information Systems are Solving the Complex Challenges of Managing



VIDEOS

LEARN MORE ¥

ABOUT × Q

SOLVE MY PROBLEM



Download Data White Paper



GIS & the Facility Manager: the Data Value Proposition

Geographic information systems (GIS) as a unifying technology platform for facility management.

Facilities Are Mission Critical – More Information

facilities.maps.arcgis.com & esri.com/fm



Click here to download Facilities Campus templates. Click here to access videos of ArcGIS for Facilities demonstrations. Help on ArcGIS Online can be found here.



Understanding our world.