







Strategies to Renew Federal Facilities

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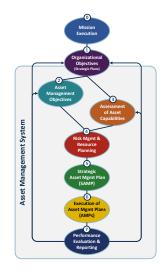
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Report's Genesis and Authority

- Executed under the charter of the National Academies of Sciences, Engineering, and Medicine
 - Provides independent, objective advice to inform policy with evidence, spark progress and innovation, and confront challenging issues for the benefit of society.
- Overseen by the Board on Infrastructure and the Constructed Environment (BICE)
 - Advises the US Government's executive and legislative branches, other governmental and private sector organizations, and the general public on questions of technology, science, and public policy.
- Initiated by the Federal Facilities Council (FFC)
 - A cooperative association of federal agencies with the mission of identifying and advancing technologies, processes and management practices that improve the management, operations and evaluation of federal facilities throughout life cycle.

Long Line of NASEM Studies on Facility Asset Management







NASEM studies focus on how to make better investment business cases for facilities.

Each report made major contributions to the body of knowledge...



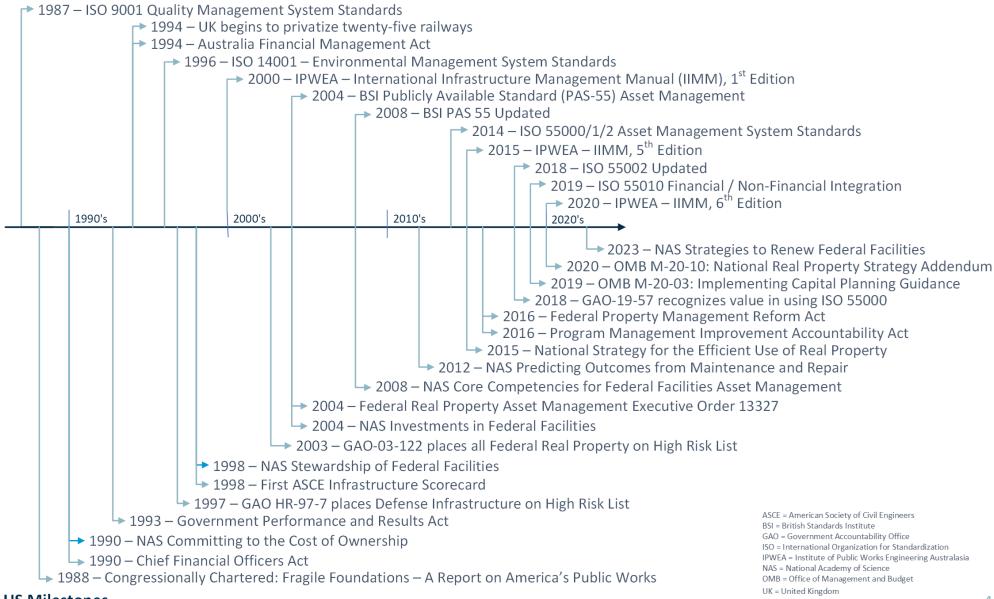
Strategies to Renew Federal Facilities recommended the most ambitious level of change.

The other reports made recommendations to improve policy, strategy, and business processes.

Strategies made recommendations on how-to improved the management system used to manage assets.

Significant Milestones in the Evolution of Facility Asset Management in the US Federal Sector

International Milestones









Problem to be solved:

- Persistence of problems detailed in earlier NASEM studies
- Continued chronic underfunding of facility requirements
- Large and growing deferred maintenance backlogs
- Estimated 1/3rd of Federal Facility portfolio is excess or poorly aligned with mission needs

Federal Facilities Council – Statement of Task:

- Develop broad-based, practical strategies to renew Federal facilities
- Define "how-to" renew facility portfolios and not "what to do"
- Solution to include feedback and communication strategies
- Ultimate objective, define how to present a mission-driven strategy to reinvest in Federally owned facility portfolio
- Fit solution into current policy and legislative context



"The problem with [deferred maintenance] is that it is a lagging performance indicator that does not fully account for an agency's real property renewal requirements."

Putting Strategies' Recommendations in Context







Strategies moved the Facilities Asset Management Goal Post.

To understand how Strategies moved the Goal Post, you need to understand the difference between "Asset Management" and "Managing Assets" perspectives.

Asset Management

- Manages value generated by and through assets
- Focuses on risk-informed decision making
- Cost-Benefit Analysis (e.g. why you do something, ROI)
- Apex performance metric Sustaining Mission Achievement
- Primary stakeholders Executives, Stakeholders & Operators

Managing Assets

- Manages asset across life cycle phases
- Focuses on work execution
- Cost-Effectiveness Analysis (e.g. how well you do something)
- Apex performance metrics Asset and cost performance
- Primary stakeholders Occupants & A/E/C/FM Professionals



More info at ISO Technical Committee 251 article:

"Managing Assets in the Context of Asset Management"

Free download at:

https://committee.iso.org/sites/tc251/home/news/content-left-area/news-and-updates/new-article-managing-assets-in-t.html

Both perspectives are needed, but current policy and practice is dominated by the "Managing Assets" perspective.

Therefore, *Strategies'* recommendations focused on introducing and improving Federal agency "Asset Management" capabilities to better achieve mission and organizational objectives.







The Committee's basic realization – US Federal policy has limitations...

• **Finding 3-2:** OMB policy, notably OMB Circulars A-11 and A-123, do not provide sufficient guidance on how to implement and exercise facility asset management systems capable of generating federal facility renewal strategies detailed in this report



Circular A-11
Preparation,
Submission, and
Execution of the Budget



Circular A-11Supplement, Capital Programming Guide



Circular A-123

Management's Responsibilities
for Enterprise Risk Management
and Internal Control



Memo M-20-03
Implementation of Real
Property Capital
Planning



Memo M-20-10
Issuance of an Addendum to the National Strategy for the Efficient Use of Real Property



Memo M-22-14 – FY 2024 Agency-wide Capital Planning to Support the Future of Work

Federal agencies know how to effectively and efficiently manage investments in facilities but current policy limits their ability to do so.







Recommendations – "how to" implement an asset management approach:

1. Implement a Federal Facility Asset Management System

- Comprehensive, principle-based asset management iaw ISO 55000 Asset Management System standards
- Clarify SRPO responsibilities for risk-based decision making in Circular A-136 Financial Reporting Requirements
- Fix OMB Circular A-11, Section 83 Object Classification (i.e.to support asset-based financial accounting)

2. Implement a Real Property Capital Plan (iaw OMB M-20-03 & M-22-14)

- Require the Agency's Real Property Capital Plan be used to justify the Budget iaw OMB A-11 Capital Programming Guide
- Use the Real Property Capital Plan to reconcile and risk-inform agency objectives, budget, and facility programs

3. Update the National Strategy for Efficient Use of Real Property (iaw OMB M-20-10)

• Link and coordinate agency Real Property Capital Plans with National Strategy for the Efficient Use of Real Property

4. Improve Federal Facility Models, Data, and Measures

• Improve renewal cost estimates and reporting through better forecast models and analysis

5. Implement Federal Facility Renewal Budgeting Strategies

• Improve budget authorities to include working capital funds, revolving funds, and public-private ventures to accelerate value generation through execution of Real Property Capital Plans







The Committee's decision - A bold, new approach is needed

- Channeling Albert Einstein Sometimes we cannot solve our problems with the same thinking we used when we created them.
- Influential sources to this new approach:



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Circular A-11Supplement, Capital Programming Guide



Circular A-123

Management's Responsibilities
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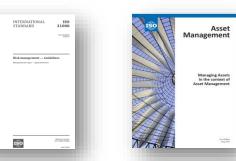
GAO-19-57 Federal Real Property Asset Management



Green Book Internal Control in the Federal Government



ISO 55000 Asset Management System Standards



Risk Management
Guidelines

ISO TC 251

Managing Assets
in the Context of
Asset Management

On the tactical level what is needed is in current policies. The bold and new approach applies to governance and the strategic level.

Facility resource and investment decision making needs to expand to include asset management-based approaches.







Key Takeaways – Policy Improvements & Principles for Implementation

Policy improvement opportunities:

- OMB A-11 Budget & Execution
 - Fix Federal accounting structure in Section 83 Object Classification – needs to support asset-based accounting
 - Integrate requirements of OMB A-123 and Objective-based performance analysis and reporting, as part of RPCP
 - Capital Programming Guide needs to be updated to cover facility asset portfolio management & renewal strategies
- OMB A-123 Enterprise Risk Management
 - Establish working methods and strategies to clarify enterprise risk management of agency's entire real property portfolio through integration of life cycle management activities.
- OMB A-136 Financial Statements
 - Strengthen role of Real Property Capital Plan, iaw
 Strategies' recommendations, as a part of CFO reporting,
 i.e. inventory requirements and budget justification.

Strategies' 11 Facility Asset Management Principles

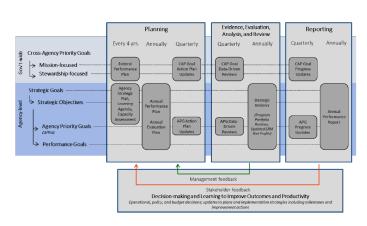
- Data Integrity
- Whole Life-Cycle Cost Analysis
- Portfolio Management
- Accounting Transparency
- Mission Alignment
- Facility Performance
- Decision-Making Alignment & Accountability
- Operational Readiness
- Performance-Budget Integration
- Balance Sheet Analysis
- Facility Asset Management System Maturity







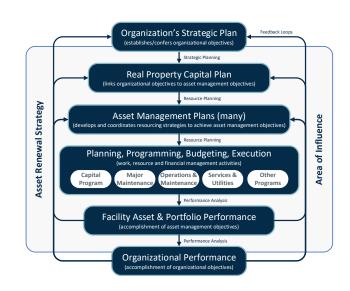
Key Takeaways – Strategies defines a policy to achieve objectives...



OMB Circular A-11's
Performance Management Cycle
contains governance and guidance on the
use of objectives for performance
management that is implemented through
OMB Circular A-123 – Enterprise Risk Mgmt

Strategies'
Facility Asset Management System Framework
provides a universal framework for making
resource and investment decisions through
mission-oriented objectives.





Strategies'
Facility Asset Management System Line-of-Sight integrates Facility Asset Management System resource and investment decision making across the Agency.

"The committee's definition of a *federal facility renewal strategy* is a policy, not simply a vision, that embraces a plan of action for an agency's real property."

Asset Management Implementation Principles

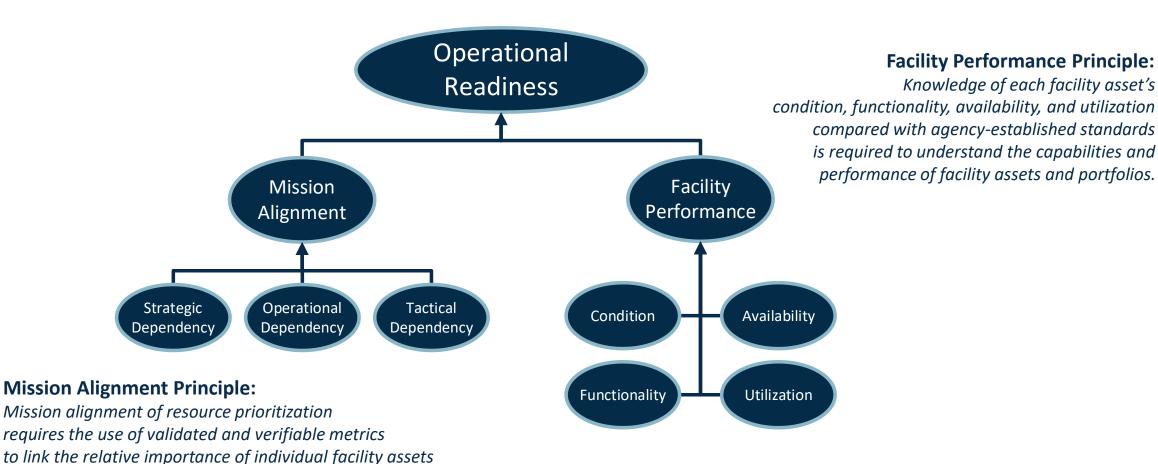
to agency missions and stakeholder performance expectations.







Operational Readiness Principle: The relationship between agency operational readiness and the levels of facility operational readiness delivered by federal facility renewal strategies must be balanced across a range of relevant investment horizons and resourcing strategies.



Asset Management Implementation Principles

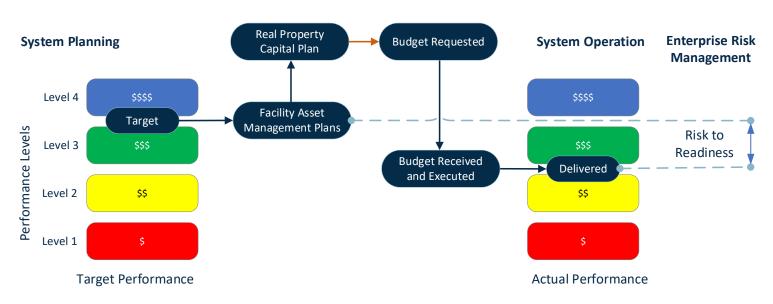






Decision-Making Alignment and Accountably Principle: Facility asset management system decision making must integrate and reconcile objectives, resources, and performance management activities to promote stakeholder confidence in them.

Facility Asset Management System – Performance-Budget Integration Framework



Graphic Source: U.S. Army Corps of Engineers, 2012, Project Maintenance Management Development Guidelines, Washington, DC

Performance-Budget Integration Principle: Investment decision-making frameworks must evaluate planned versus actual performance in a way that can simultaneously measure a performance gap (e.g., a requirement) and the means to remedy the gap related to budget development.







Key Takeaways – Actions...

Federal Agencies

- Not your fault, your authority is limited to what Federal policy will allow you to do.
- In either case you must change how investment decision making is done
- Starts with developing asset management awareness and competencies (iaw ISO 55000)

Office of Management & Budget

- US Federal Policy is good, but incomplete
- Current policy can be improved to ensure Federal agencies are able to effectively manage their facility portfolios
- Circulars A-11 & A-123 need to incorporate ISO 55000 principles & requirements

Government Accountably Office

- Strategies for Facility Renewal require improved Federal policy and "management system thinking"
- Use Strategies 11 Facility Asset
 Management Principles to
 determine if a Federal agency
 is competent in managing their
 facility portfolio

Implementation of *Strategies'* 5 Recommendations is the "how-to" guidance to implement these takeaways