



Motivation and Context

- The focus for the Bush Administration and for the U.S. Congress – must not be just the amount of funding provided to a program, but also on how effective the program is.
- This focus is only strengthened by the current need for fiscal restraint. The U.S. is current in a period of deficit spending, and the Administration intends to reduce the deficit by half in the next five years.

The Challenge

- Challenge: How to incorporate program results into funding and management decisions?
- The Government Performance Results Act (GPRA) currently requires detailed plans and
- reports on agency performance.
 - However, these requirements:
 Do not yield useful information for funding decisions and management reform.
 - Do not provide performance reports in time for Executive Branch decisions.

President's Management Agenda

 In 2001, the Bush Administration released its President's Management Agenda (PMA) to provide standards and goals for improving management across U.S. Government agencies.

 The President's Management Agenda features five broad management initiatives, plus several more specific initiatives, including one on Federal R&D.

For more information on the PMA:

http://www.whitehouse.gov/omb/budget/fy2002/mgmt.pdf

Better Research and Development Investment Criteria

Objectives:

Better understand what our investments yield. Link information about potential benefits and proven performance to funding and management decisions. Articulate expectations to agencies and research community. The R&D Investment Criteria were first implemented at the U.S. Department of Energy.

Criteria for All Agencies

 In 2002, OMB revised the Investment Criteria to apply to all Government R&D. New Challenges:

 Creating meaningful guidelines for the broad spectrum of R&D, such as:

Basic research
 Alice is a driver basic sector and the sector basic sector

Mission-driven basic and applied research
 Construction and operation of facilities and equipment

Development of technologies relevant to industry

 Performance guidelines for basic research, which has outcomes that are uncertain or that

may take years to achieve.

The Result: Criteria for All R&D



I. Relevance -- "Why?"

Programs must, for example:

priorities.

- Have complete plans, with clear goals and
- Articulate the potential national benefits of the program.
 Demonstrate relevance to customers (such as fields of science or other programs) through independent assessments.





IV. In addition, for Industry-Related Technology Programs

Programs must:

- Articulate public benefits of the program.
- Justify the appropriateness of federal investment.
- Demonstrate that R&D is a more effective way to support the program's goals than other policies.
 - Document industry relevance, including readiness of the market to adopt technologies.
- Identify "off ramps" and transition points.

From Criteria to PART...

- The availability of performance information was inadequate in <u>all</u> programs, not just R&D.
- Agency performance measures were ill-defined and results were not integrated into agency decisions and requests.
- To address this, another of the initiatives of the President's Management Agenda is called "Budget and Performance Integration."
 To provide timely information, OMB needed a new tool...

The Program Assessment Rating Tool (PART)

 OMB developed the PART as a tool for assessing programs consistently across the

government.

The PART has four sections:

1.Program Purpose and Design 2.Strategic Planning

3.Program Management

4. Program Results/Accountability

Each section has 5 to 10 questions.

PART Results

- PART assessments yield overall program "effectiveness" rating.
- More importantly, PART assessments provide detail of specific strengths and

weaknesses.

Together, these observations provide input to budget and management decisions. Agencies and programs are accountable for recommendations.

PART Status

 In 2004, we have had the most sweeping, detailed assessment of U.S. Government

programs - 400 programs (about \$1 trillion).

20% of programs to be added each year.

For more information on the PART or the R&D Investment Criteria:

http://www.omb.gov/PART

The R&D PART

- The PART has seven versions for different types of program, including one for R&D.
- Initially, the Administration wanted all
- government programs to be judged on
- annual performance measures, but R&D is
 - perhaps the most difficult to measure.
 - The "R&D PART" relies on principles of the R&D Investment Criteria, including special considerations for basic research.
 - Of the 400 programs assessed so far, 58 have been R&D.

PART Assessments of 58 R&D Programs



Specific R&D Examples

Effective	Commerce: NIST Laboratories
	NASA: Solar System Exploration
	NSF: Nanoscale Science & Engineering
Moderately	Energy: Geothermal Energy
Effective	US Geological Survey: Geologic Hazard Assessments
Adequate	Health and Human Services: Patient Safety
	Energy: Building Technologies
Ineffective	Energy : Oil Technology
Results Not Demonstrated	Agriculture: Food Safety Research
	Environmental Protection: Particulate Matter Research
	Veterans Affairs: Research & Development

R&D Program Assessment: Status and Next Steps

This year, we will:

- Continue to implement the R&D Investment Criteria at additional agencies.
- Continue to integrate the R&D Investment Criteria with the PART.
 Assess another 20% of the government using the PART.
 Work with the Congress to improve the integration of the President's Management Agenda into decisions and reforms.