

Module 1:

Introducing Analytical Policy Evaluation

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Module Overview

- Introduces Analytical Decision-Making (ADM)
- Contrasts ADM with the more conventional decision-making (CDM)
- Demonstrates ADM applications
- Summarizes and Concludes

Characteristics of Conventional Public Decision-Making

- **Decisions psychologically or politically-motivated;** influenced by ego, bias, and informal heuristics.

Daniel Kahneman. *Thinking, fast and slow*. Macmillan, 2011

Conventional Decision-Making (CDM) uses the “thinking fast” approach.

- **Decisions seen through the lens of the self-interest of particular groups, or privileged stakeholders, rather than the “public interest.”**

Example of CDM in the United States: “Build the Wall”



Ad Hoc Bias, Ego,
Informal Heuristics,
Anecdotes

“Policy”

Analytical Decision-Making

ADM offers a “big-picture” evaluation perspective that reasons carefully from a broad evidence base to advance the “public interest.”

Uses the “thinking slow” approach.

Some Characteristics:

- encourages the thoughtful consideration of alternative solutions to a well-defined policy problem;
- represents the interests of stakeholders;
- Stresses decision-making transparency and accountability.

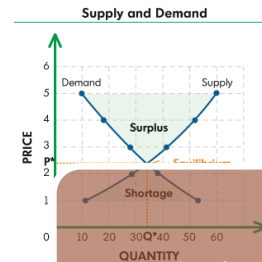
An Example of ADM in the United States; Health Care Reform



Public
Campaigns;
Informal
Information
gathering



Objective
Empirical
Study



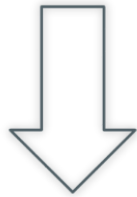
Analytical
Assessment



Policy

Information Requirements, Data, and Modeling

Diverse types and scales of ADM applications lead to a range of analysis types



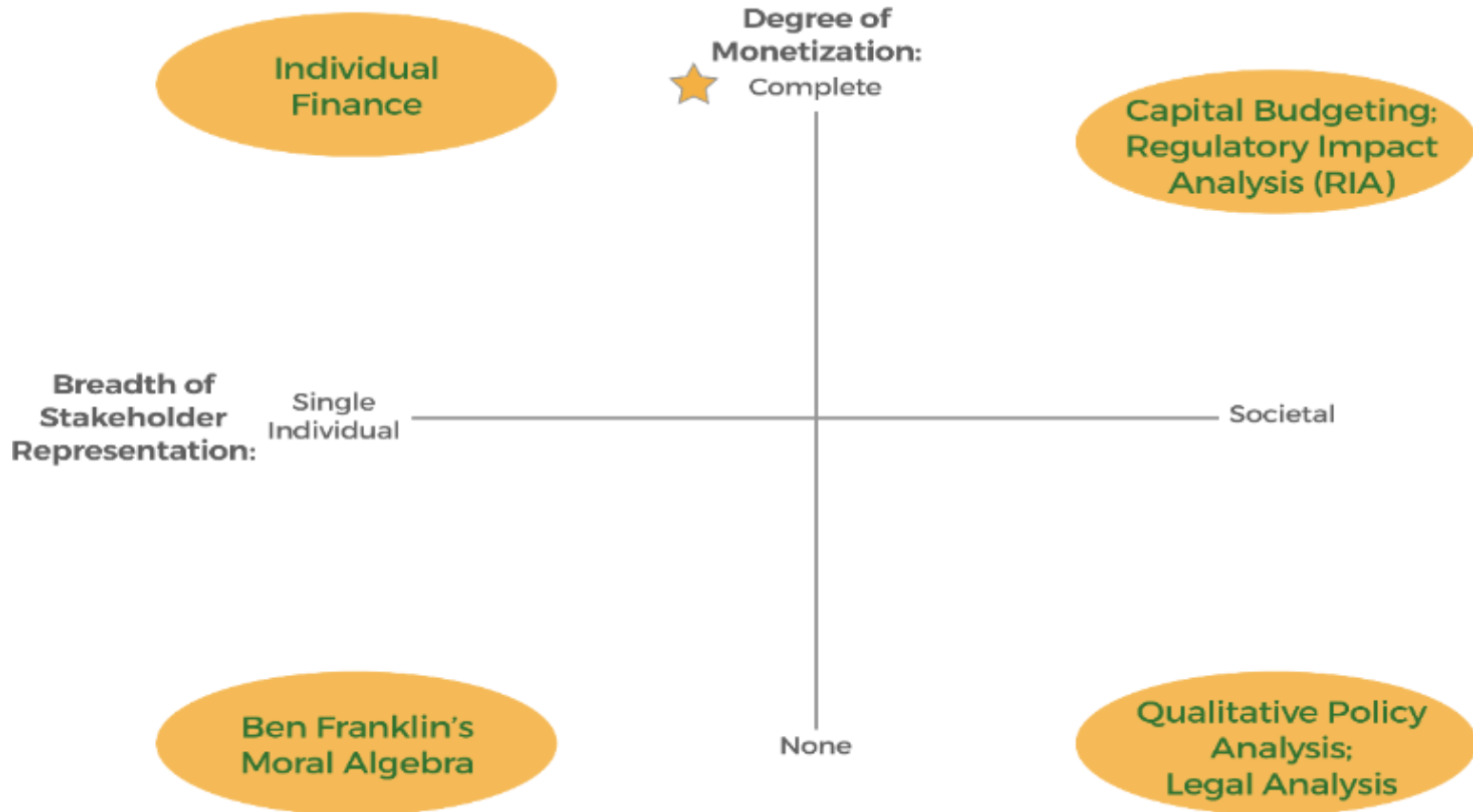
More
Qualitative/Less
Information Intensive



More Quantitative/
Significant Modeling
Requirements/
More Information Intensive



ADM Application Areas



★ : Stakeholder BCA; Organizational Budgeting

Ben Franklin's "Prudential Algebra"

[M]y way is to divide half a sheet of paper by a line into two columns; writing over the one Pro, and over the other Con.

Then, during three or four days consideration, I put down under the different heads short hints of the different motives, that at different times occur to me, for or against the measure.

When I have thus got them all together in one view, I endeavor to estimate their respective weights. . . .

And, though the weight of reasons cannot be taken with the precision of algebraic quantities, yet when each is thus considered, separately and comparatively, and the whole lies before me, I think I can judge better, and am less liable to make a rash step, and in fact I have found great advantage from this kind of equation, in what may be called moral or prudential algebra.

Analytical Decision-Making Applications

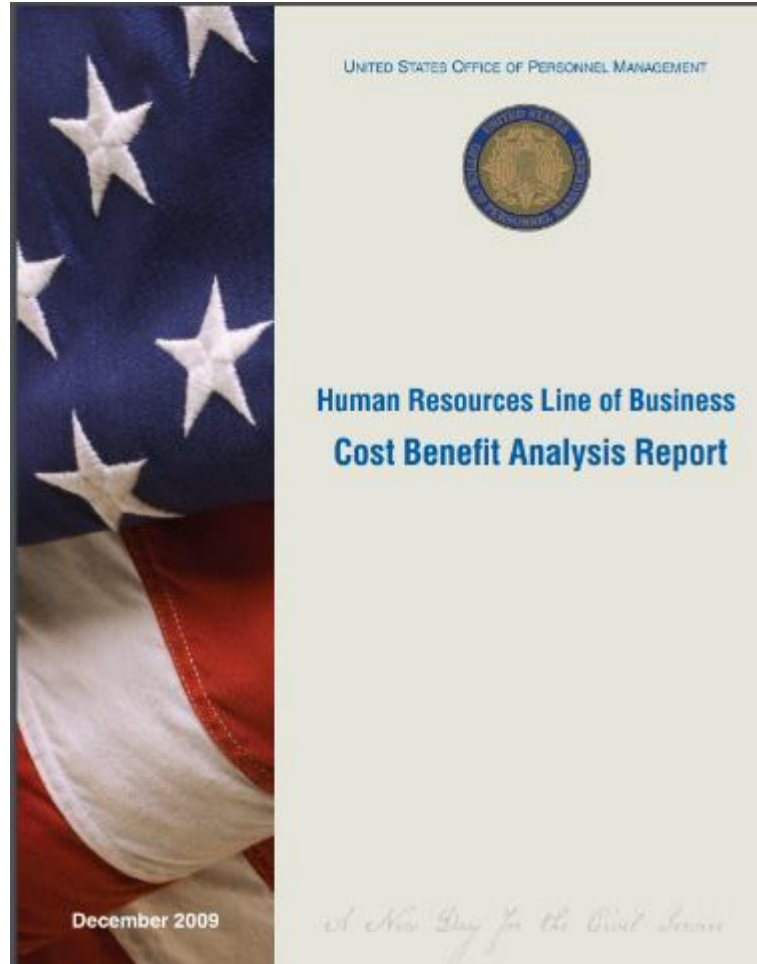
Executive Decision-Making and Policy Formation:

Under what conditions should Brazil join trade agreements?

Organizational Decision-Making and Public Administration:

Should an employee be relocated from department A to department B?

ADM for Public Employee Resource Management In US (Decision with Some Monetization)



Public Management Decision with Some Monetization

Objectives	Goals
<p>Operational Efficiencies Achieve or increase operational efficiencies in the acquisition, development, implementation and operation of human resources management systems</p>	<ul style="list-style-type: none"> ▪ Improved servicing ratio/response times ▪ Reduced cycle times ▪ Improved automated reporting
<p>Cost Savings and Cost Avoidance Achieve or increase cost savings and cost avoidance from HR solution activities</p>	<ul style="list-style-type: none"> ▪ Reduced duplicative software/hardware/operations/labor resources ▪ Increased competitive environment
<p>Improved Customer Service Improve customer services</p>	<ul style="list-style-type: none"> ▪ Increased accessibility to client and value ▪ Improved communication and responsiveness ▪ Enhanced quality ▪ Enhanced timeliness ▪ Enhanced accuracy ▪ Enhanced consistency

Public Management Decision with Some Monetization

Revised CBA	
Overall Planning Costs	\$ (59,038,853)
Other Costs	\$ (377,429,568)
Overall Cost Savings	\$ 1,183,409,104
Overall Cost Avoided	\$ 626,290,891
Total Savings & Avoidance	\$ 1,373,231,574

Source: Human Resources Line of Business Cost Benefit Analysis Report. United States Office of Personnel Management, December 31, 2009.

Analytical Decision-Making: Policy Analysis/BCA Institutionalized in Law / Administrative Practice

- **Regulatory Impact Analysis (RIA)** in the United States. Regulations from most agencies are subject to a benefit cost test.
 - Air pollution regulations from the US Environmental Protection Agency
 - Transportation safety regulations from The Department of Transportation
- **Public Investment Laws in Some Countries: Chile and Vietnam (being implemented)**. The goal is to increase transparency in the allocation of capital, and to raise the economic return on public investment

Analytical Decision-Making: Policy Studies of Particular Issues

**A computable general equilibrium model to analyze
distributive aspects in Brazil with a trade policy illustration**

Estud. Econ. vol.35 no.4 São Paulo Oct./Dec. 2005

Samir Cury*; Allexandro Mori Coelho**; Carlos Henrique
Corseuil***

*EAESP Getúlio Vargas Foundation (FGV), Brazil

**Master in Economics (FEA-USP)

**Institute of Applied Economic Research (IPEA), Brazil, and
University College of London, UKgoal is to inform discussions
about policy to improve policymaking.

Some Policy Analytic Organizations

- **International Lending Institutions**
 - Inter-American Development Bank
 - Asian Development Bank
 - World Bank
- **Think Tanks (Washington D.C)**
 - Brookings Institution
 - Peterson Institute for International Economics
 - Resources for the Future.
- **Society for Benefit-Cost Analysis**

ADM Applications for Different Classes of Government Policies

- **Managing the Macroeconomy**

ADM Application. Maintain price stability (a “public good”)

- **Raising Revenue**

ADM application: efficient (least economic cost or “cost-effective”) revenue generation. Public finance literature on “optimal taxation.”

- **Redistributing Income.**

ADM application: efficient, cost-effective ways to improve society’s income distribution

ADM Applications for Different Classes of Government Policies (continued)

- **Improving Market Performance**

- provide public goods like national defense, the legal system, public health, and education
- regulate externalities, e.g., traffic congestion/pollution
- invest in public infrastructure
- enhance market competition, etc

ADM applications

- Cost Effectiveness Analysis (CEA): assure policy targets are achieved at lowest cost;
- Cost-Benefit Analysis (CBA): assures that the value of public goods, services, regulations, and policies are larger than their costs.

ADM Applications Ex Ante and Ex Post

- **Ex Ante Decision-Making (See above).**
- **Ex Post Evaluation**

Type 1: Ex post review of decisions to check forecast reliability and performance. For “Predict then Act” decision-making approaches.

Type 2: Ex post review as part of a “value of information assessment” to update decision-making. For “adaptive decision-making approaches like “real options”.

Type 3: Evaluation of implementation options for decisions already-made, e.g., choose most flexible and cost-effective way of implementing policy decisions.

Conclusions

- Decision-making and policy implementation contexts are extremely diverse.
- CDM is the easiest (and sometimes most emotionally satisfying) decision-making approach, but does not give results that lead to the greatest public good.
- ADM reflects a philosophic view to promote the public good, and logic principles that can be applied and adapted for numerous kinds of decision-making contexts.
- The remainder of this course explores the principles, extensions, and applications of the ADM paradigm in the context specifically of Benefit-Cost Analysis (BCA).