Public Budgeting and Common Pool Resources

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LSE

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Introduction

Background and motivation for the course

Common pool resources & externalities: review What you learn in economics Link between externalities and game theory Policy responses to externalities

Externalities in policymaking

Budgeting and the common pool: theory Budgeting and the common pool: empirics

Conclusion

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Motivation:

- One explanation for (much-discussed) government overspending, with implications for budgeting processes, federalism/decentralization
- An application of ideas about "market failure" from microeconomics to the problem of "government failure"

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What are we doing?

In this term, mostly focusing on *social dilemmas*: situations in which collective interests and private interests conflict.

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Example: Election Campaign as Prisoner's Dilemma



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Common feature of social dilemmas: existence of strategy profile that *Pareto dominates* the equilibrium i.e. that is weakly better for all players.

What are we doing? (2)

Another social dilemma with a possible Pareto improvement:

Scenario 4: Open rule



Why game theory?

We use game theory because thinking abstractly about social and political situations will help you **diagnose problems** and **suggest solutions**.

- Game theory is a highly structured way of reducing complexity and thus thinking abstractly.
- By reducing complexity we notice similarities between apparently diverse phenomena: "legislators spending tax money are like cattle farmers using a common grazing area"
- Analogies suggest solutions

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- By reducing complexity we notice similarities between apparently diverse phenomena: "legislators spending tax money are like cattle farmers using a common grazing area"
- Analogies suggest solutions we address situation A with solution X; situation B is like situation A, etc.

Why social dilemmas?

We focus on the classic social dilemmas because they resemble a variety of real political and social problems, but also because

- They are interesting games
- They avoid many intractable philosophical dilemmas
- They suggest potentially implementable solutions to those problems

Why social dilemmas? (1)

Because they are interesting games (i.e. they have non-obvious features). Some boring games:



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What makes a game interesting? Pareto subobtimality (but also multiple equilibria,

lack of information about actions or payoffs, etc)

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We avoid intractable debates by

- ► Reducing payoffs to one ordinal dimension → no conflict between values, e.g. freedom and economic well-being
- ► Emphasizing situations of Pareto suboptimality → no interpersonal utility calculations necessary

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Pareto improvements are supported by everyone. If you as government official, activist, consultant can identify a way of changing the game such that a Pareto-improving strategy profile is the new equilibrium, everyone should support it.

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- Even as we focus on social dilemmas, let us not forget that much of the world is zero-sum and/or complicated.

A request: Instead of "Phenomenon X can't be addressed with game theory", try to say "Model Y is not a good representation of phenomenon X because it is missing features a, b, and c."

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Common pool resources in terms of excludability and rivalrousness

	Excludable	Non-excludable
Rivalrous	Private goods : food, bi- cycle, laptop	Common pool re- sources : "commons", fish populations
Non- rivalrous	Club goods : lecture, satellite TV	Public goods : Defense, GPS

Common pool resources in terms of externalities

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Externality is	Consumption	Production
positive	Immunizations, educa- tion	Public goods, (common pool resources)
negative	Cigarettes, gas/petrol, common pool resources	Electric power, meat

What you learn in economics

Analyzing externalities (1)

Negative consumption externality: e.g. driving



Where

- *MB* = marginal benefit to the driver, and to society
- MPC = marg. private cost to the driver
- MSC = marg. social cost
- q^{*} = privately optimal amount
- q' =socially optimal amount

What you learn in economics

Analyzing externalities (2)

Positive production externality: e.g. research



Where

- MC = marginal cost to the researcher, and to society
- MPB = marg. private benefit to the researcher
- ► *MSB* = marg. social benefit
- q^{*} = privately optimal amount
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Common pool resources & externalities: review

Link between externalities and game theory

Externality in game theory terms (1)



Common pool resources & externalities: review Link between externalities and game theory

Externality in game theory terms (2)



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Externality in game theory terms (2)



The prisoner's dilemma is a symmetric game in which each player imposes an externality on the other by defecting; that externality is so large that the equilibrium is Pareto suboptimal.
"Tragedy of the commons" in game theory terms

All other fishermen

		Fish a little	Fish a lot
Fisherman 1	Fish a little	2,2	$0,1+\epsilon$
	Fish a lot	4,2 - <i>e</i>	1,1

"Tragedy of the commons" in game theory terms

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Fish a little Fish a lot Fisherman 1Fish a little2,2Fish a lot4,2 - ϵ $0,1 + \epsilon$ 1,1

The tragedy of the commons can be seen as a multilateral prisoner's dilemma.

Government responses to externalities

Tools: taxes, subsidies (consumption and production), regulation of consumption and production practices, access restrictions, property rights creation, government provision

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Non-profit sector as a response to externalities

Tax benefits in many countries for organizations pursuing "charitable purposes."

UK Charities Act, 2006, "charitable purpose":

"(a) the prevention or relief of poverty; (b) the advancement of education; (c) the advancement of religion; (d) the advancement of health or the saving of lives, \dots "

US IRS code section 501(c)3, "charitable purpose":

"relief of the poor, the distressed, or the underprivileged; advancement of religion; advancement of education or science; erecting or maintaining public buildings, monuments, or works;"

Japan NPO Law, "specified nonprofit activities":

"1. Activities to promote health, medical care, or welfare; 2. Activities to promote social education; 3. Activities to promote community development; 4. Activities to promote culture, the arts, or sports ..."

Legal system as response to externalities

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Coase Theorem: efficient outcome regardless of who has legal liability (i.e. allocation of rights) if

- costless transactions (i.e. bargaining, collective action)
- rights are secure (e.g. if I have a right to clean air, you cannot unilaterally pollute)

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 \rightarrow Under these ideal conditions, if there is a Pareto improvement it will be arrived at by negotiations.

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Government failure?

The government appears in two forms in a (caricatured) intro micro-econ course:

- A nuisance imposing distortions on well-functioning markets
- A solution to market failure (caused by e.g. divergence between private and social costs and benefits of private actions)

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- A nuisance imposing distortions on well-functioning markets
- A solution to market failure (caused by e.g. divergence between private and social costs and benefits of private actions)

But why should we expect the government to solve market failures? What about government failures (caused by e.g. divergence between private and social costs and benefits of government actions)? (See Shepsle reading.)

Two kinds of externalities in policymaking

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Two kinds of externalities in policymaking

- Principal-agent problems: policymaker's private costs and benefits of policymaking differ from those of his constituents. (Vertical externality.)
- Common pool problems: one group does not internalize costs and benefits of policymaking on other groups. (Horizontal externality.)

Von Hagen & Harden model includes both externalities; today we focus on the second only.

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Assumptions:

- 1. *n* policymakers, each with own identical "domain" (e.g. electoral districts, ministries)
- 2. policymakers perfectly represent their constituents' interests (i.e. no principal-agent problems)
- 3. public spending in one domain benefits only that domain's citizens
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In particular, policymaker utility is $b(q_i) - \sum_{j=1}^n q_j$, where q_i is "local" spending in *i*'s domain, b(0) = 0, $b(\cdot)$ concave, cost of q is q

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For policymaker considering amount of "local" spending:

- Assumptions 2 and 3 \rightarrow MPB = MSB.
- Assumption 4 \rightarrow MPC = $\frac{1}{n}$ MSC.

Budgeting model in terms of externalities



 $q^* =$ policymaker's desired level of "local" spending q' = socially optimal level of "local" spending

Budgeting model in terms of externalities



q' = socially optimal level of "local" spending

What is desired level of "non-local" spending?

Budgeting model in terms of game theory: special case Suppose n = 2. Then:



where

- q* is the privately optimal level of local spending and
- q' is the socially optimal level of local spending.

Playing q^* is a dominant strategy, based on the definition of q^* . This is a prisoner's dilemma if $b(q^*) - q^* < b(q') - q'$.

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Some possible budgetary procedures:

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- 1. Free-for-all: each policymaker decides own "local" spending level
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- 3. Separate proposals with vote: each policymaker proposes own "local" spending level, and then budget is voted upon (with q = 0 if budget fails)

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- 5. Spending rule with one policymaker acting as budget director and accepting bribes for "top-ups"

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Some possible budgetary procedures:

- 1. Free-for-all: each policymaker decides own "local" spending level
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- Separate proposals with vote: each policymaker proposes own "local" spending level, and then budget is voted upon (with q = 0 if budget fails)
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5. Spending rule with one policymaker acting as budget director and accepting bribes for "top-ups" Hint: What bribe would make budget director accept a marginal increase in "non-local" spending? What then is marginal cost of "local" spending including bribe?

Two main insights

- Because the policymakers in the model do not internalize the cost of local spending, they all want too much local spending.
- But, if a spending rule is put to a vote, they all vote for the socially optimal amount.

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Paradoxical? What would the prisoner's in the prisoners dilemma vote for?

Externalities in policymaking

Budgeting and the common pool: theory

The fiscal illusion in math(s)

Model based on a combination of von Hagen and Harden (1995) and Weingast Shepsle & Johnsen (1981).

Budget is vector of spending levels $\mathbf{x} = \{x_1, x_2, \dots, x_i, \dots, x_n\}.$

Legislator i's utility as a function of the budget x can be written:

$$U_i(x_i) = b(x_i) - \frac{1}{n} \sum_{j=1}^n x_j,$$

where $b(x_i)$ is a well-behaved concave function capturing the benefits to *i*'s constituents from spending level x_i , $\sum_{j=1}^{n} x_j$ is the total amount of spending and $\frac{1}{n}$ measures the share paid by legislator *i*'s constituents.

The privately optimal amount of local spending for policymaker i, x_i^* , is the value of x_i that maximizes $U_i(x_i)$:

$$b'(x_i^*) = \frac{1}{n}$$

The efficient level x'_i is obtained by solving

$$\max_{\mathbf{x}} V = \sum_{j=1}^{n} b(x_j) - \sum_{j=1}^{n} x_j.$$

Solution occurs where marginal benefit and marginal cost are equal for each component of \mathbf{x} , i.e. where

$$b'(x'_i) = 1$$

Now suppose all domains must spend the same amount \overline{x} . The optimal \overline{x} for policymaker *i* is found by solving

$$\max_{\overline{x}} U_i(\overline{x}) = b(\overline{x}) - \frac{1}{n} \sum_{i=1}^n \overline{x},$$

which is found where

 $b'(\overline{x}^*) = 1.$

Note that $x_i^* > x_i' = \overline{x}^*$.

Evidence on deficits and centralization of budget process

Evidence from Latin America, in Alesina, Hausmann, Hommes, and Stein (1999):

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Fig. 4. Budget institutions and fiscal outcomes (1980-1992).

Application to earmarks in U.S. Congress

Excerpt from 2005 transportation bill:

(g) BRIDGE SET-ASIDES .--

(1) Designated projects.—

(A) IN GENERAL.-Of the amounts authorized to be appropriated to carry out the bridge program under this section for each of the fiscal years 2006 through 2009, all but \$100.000.000 shall be apportioned as provided in subsection (e). Such \$100,000,000 shall be available as follows:

(i) \$12,500,000 per fiscal year for the Golden Gate Bridge.

(ii) \$18,750,000 per fiscal year for the construction of a bridge joining the Island of Gravina to the community of Ketchikan in Alaska.

(iii) \$12,500,000 per fiscal year to the State of Nevada for construction of a re-
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Questions:

Which of the budgetary procedures considered above does this remind you of?

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- Which of the budgetary procedures considered above does this remind you of?
- Would eliminating earmarking privileges affect the amount of spending?

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- Which of the budgetary procedures considered above does this remind you of?
- Would eliminating earmarking privileges affect the amount of spending?
- Reform ideas?

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Summary

Concepts from welfare economics (public goods, common pool resources, externalities) \rightarrow

- Applied to economy: what *policies* improve welfare?
- Applied to budgeting: what *policymaking procedures* improve welfare?

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(If you like budgeting, you'll love GV4E4, "Public Budgeting and Financial Management"!)

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- Applied to budgeting: what *policymaking procedures* improve welfare?

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Next time: Collective action problems and policymaking.

Feedback

Please take out a sheet of paper and write down 3 things:

- 1. What, if anything, did you find particularly difficult or confusing?
- 2. What, if anything, did you find particularly interesting or helpful?
- 3. Any suggestions or comments about the pace, content, presentation?

Thank you!