

A Unified Welfare Analysis of Government Policies

- What government policies do the most to improve social well-being?
 - Should we spend more (or less) on health insurance?
 - Should we raise top marginal income tax rates?
 - Should we invest more in children? At what age?
- There is existing research analyzing the effect of many of these policy changes
 - But little work quantifying the broad trade-offs across policy categories
 - Often different welfare methods used (CBA, MCPF, cost per life saved...)

A Unified Welfare Analysis of Government Policies

Hendren and Sprung-Keyser (2020)

- We conduct a unified welfare analysis of 133 historical policy changes in the US over the past half century
 - Study policy changes spanning four major categories: Social insurance, education and job training, taxes and cash transfers, and in-kind transfers

The Marginal Value of Public Funds

- For each policy change, we draw upon estimates in existing literature to measure:
 - The benefits to its recipients (measured as willingness to pay)
 - The net cost to the government (inclusive of fiscal externalities)
- We take the ratio of benefits to net cost to form its Marginal Value of Public Funds (MVPF):

$$MVPF = \frac{Beneficiaries'\ Willingness\ to\ Pay}{Net\ Government\ Cost}$$

• Differs from traditional benefit/cost ratios by focusing on incidence of costs on government

The Marginal Value of Public Funds and Social Well-being

- Comparisons of MVPFs evaluate the impact on societal well-being (social welfare) of hypothetical budget-neutral policies
 - Suppose Policy 1 has $MVPF_1 = 1$ and Policy 2 has $MVPF_2 = 2$
 - More spending on policy 1 financed by less on 2 increases social welfare iff prefer to take \$2 from Policy 2 beneficiaries to give \$1 to policy 1 beneficiaries
- MVPF provides a unified measure of the tradeoffs across policies
 - You decide whether these tradeoffs are "worth it"
- Infinite MVPFs correspond to policies that pay for themselves
 - WTP > 0 and Cost < 0

Admission to Florida International University

• Example: Admitting additional students into college

 Florida International University (FIU) had a minimum GPA threshold for admission that created a fuzzy discontinuity

• Zimmerman (2014) utilizes this discontinuity to examine the impact of FIU admission on earnings for 14 years after admission.

Admission to Florida International University: Zimmerman (2014)

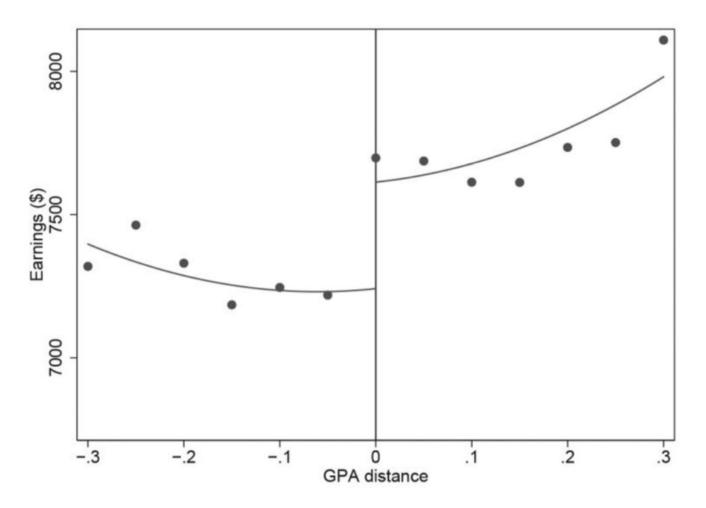
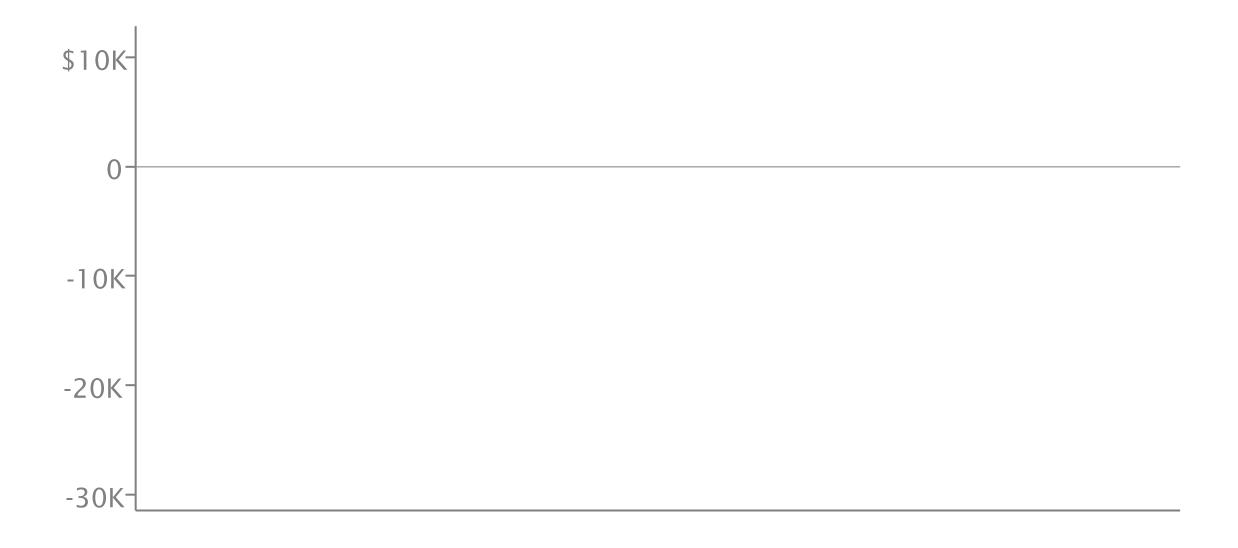
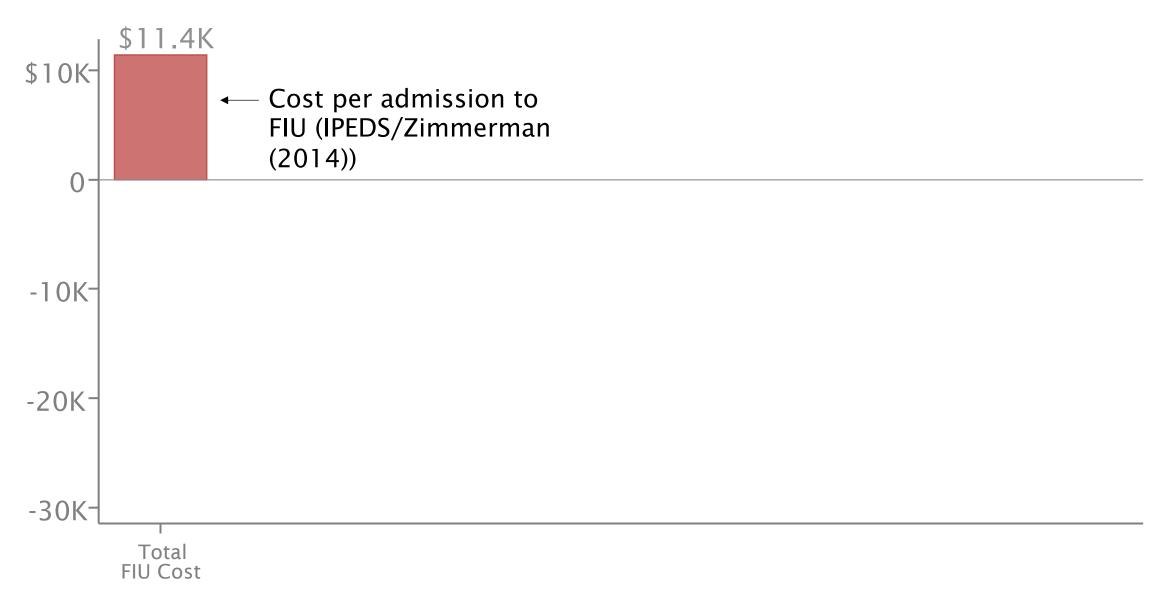
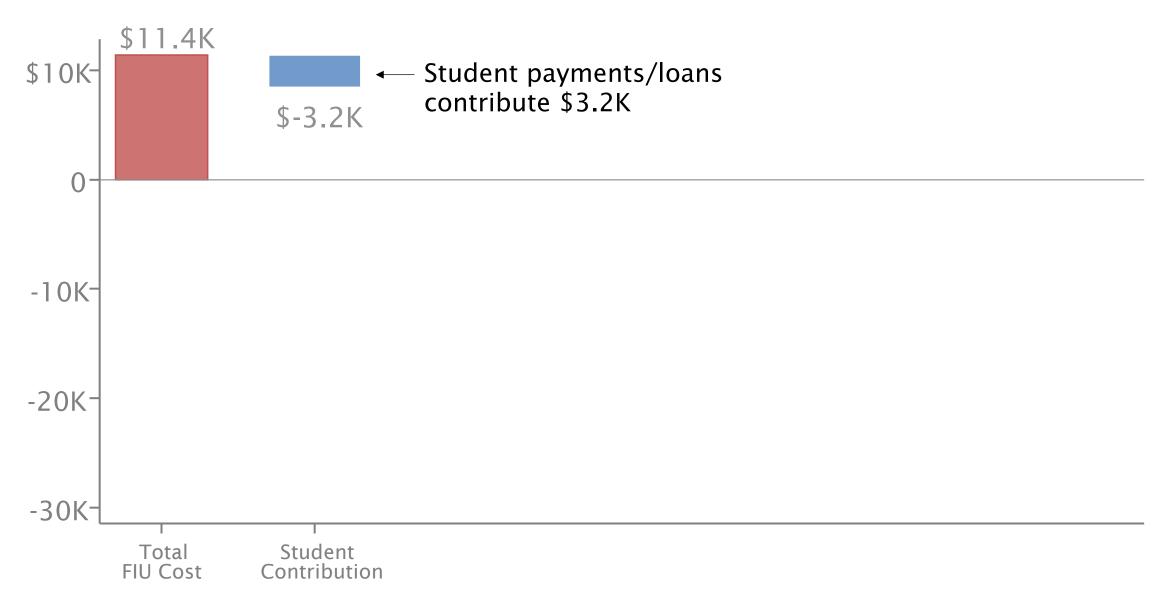
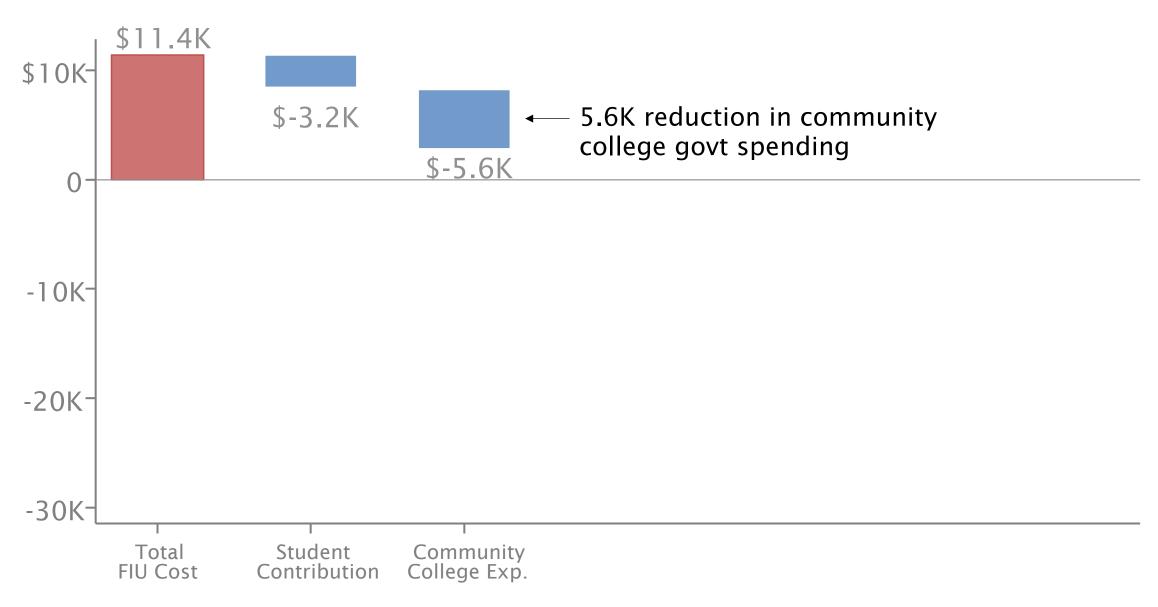


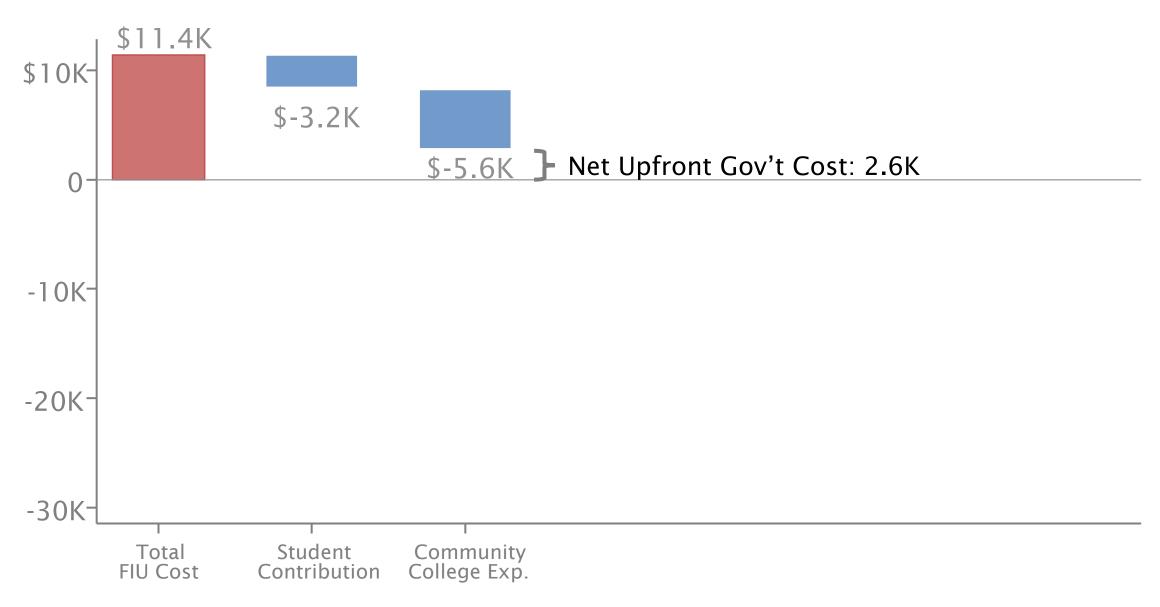
FIG. 8.—Quarterly earnings by distance from GPA cutoff. Lines are fitted values based on the main specification. Dots, shown every .05 grade points, are rolling averages of values within .05 grade points on either side that have the same value of the threshold-crossing dummy.

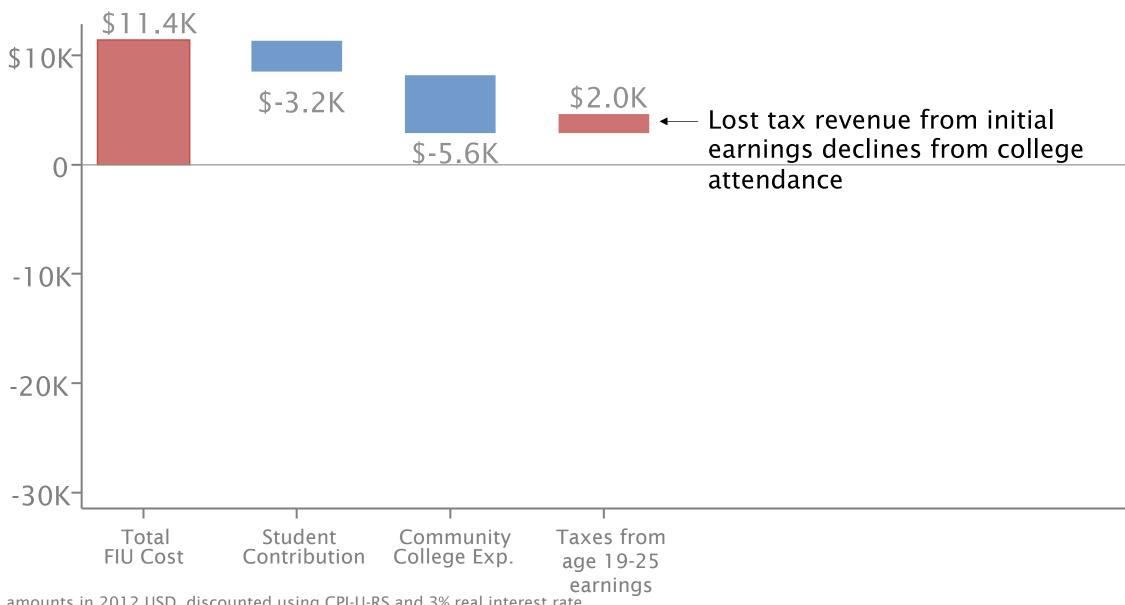


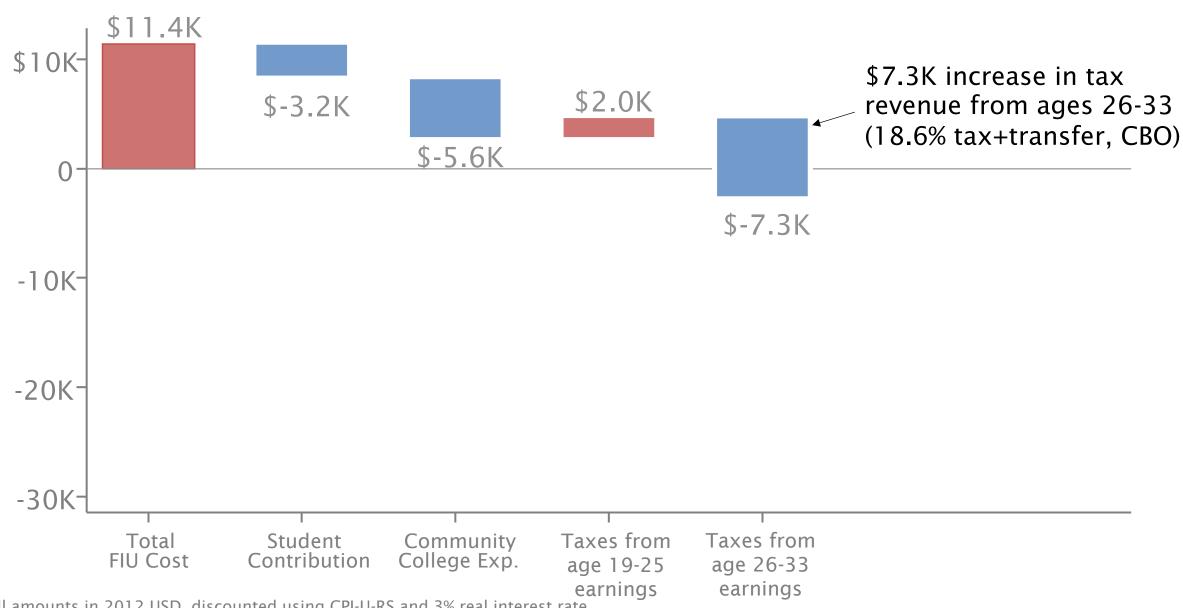


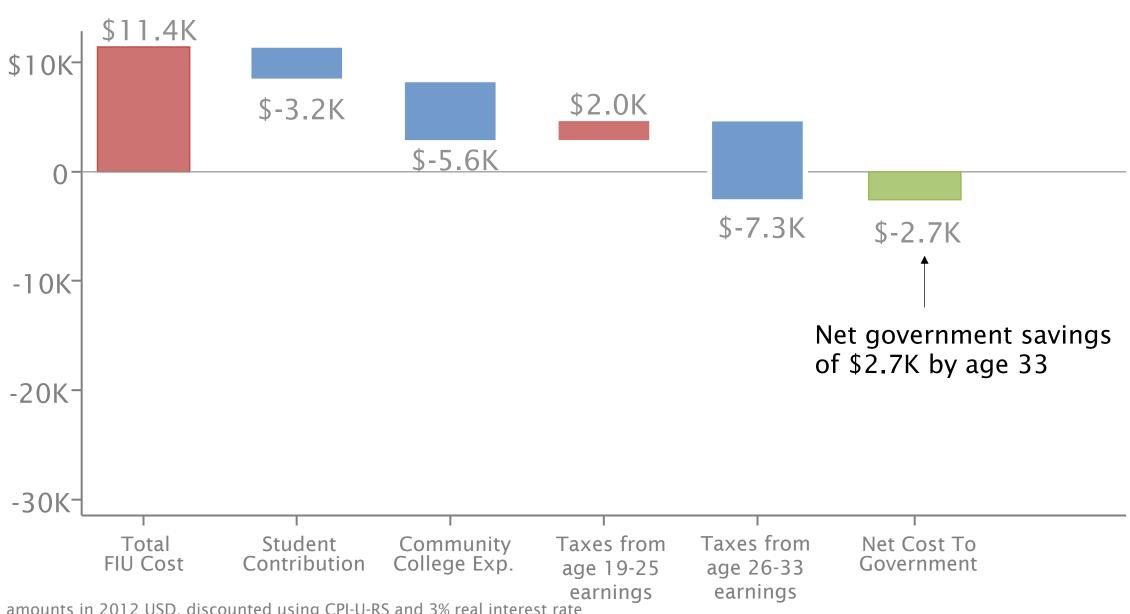


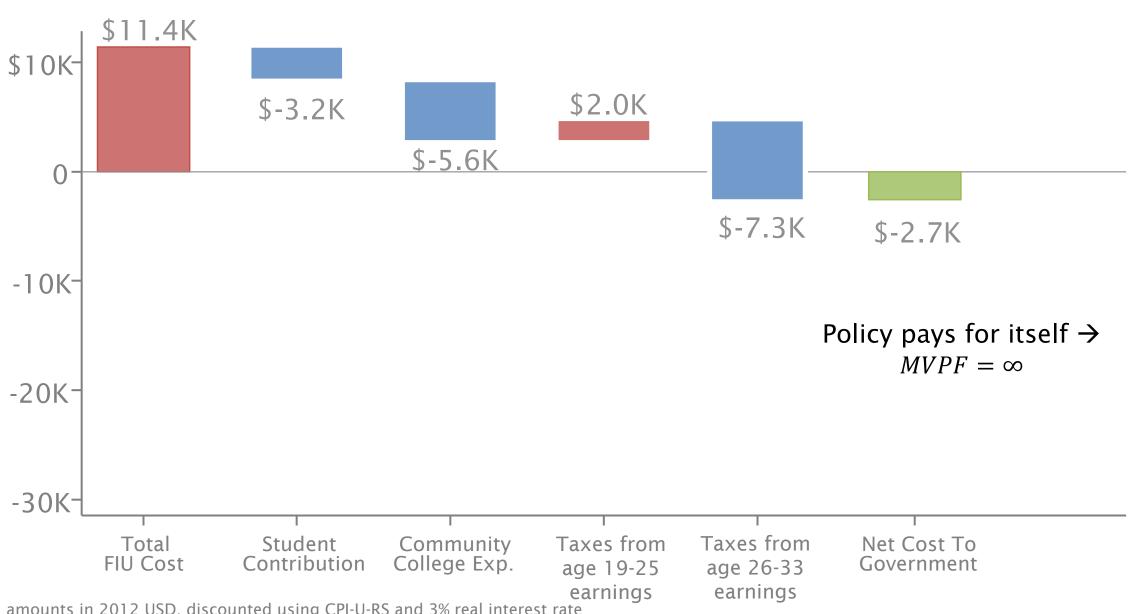




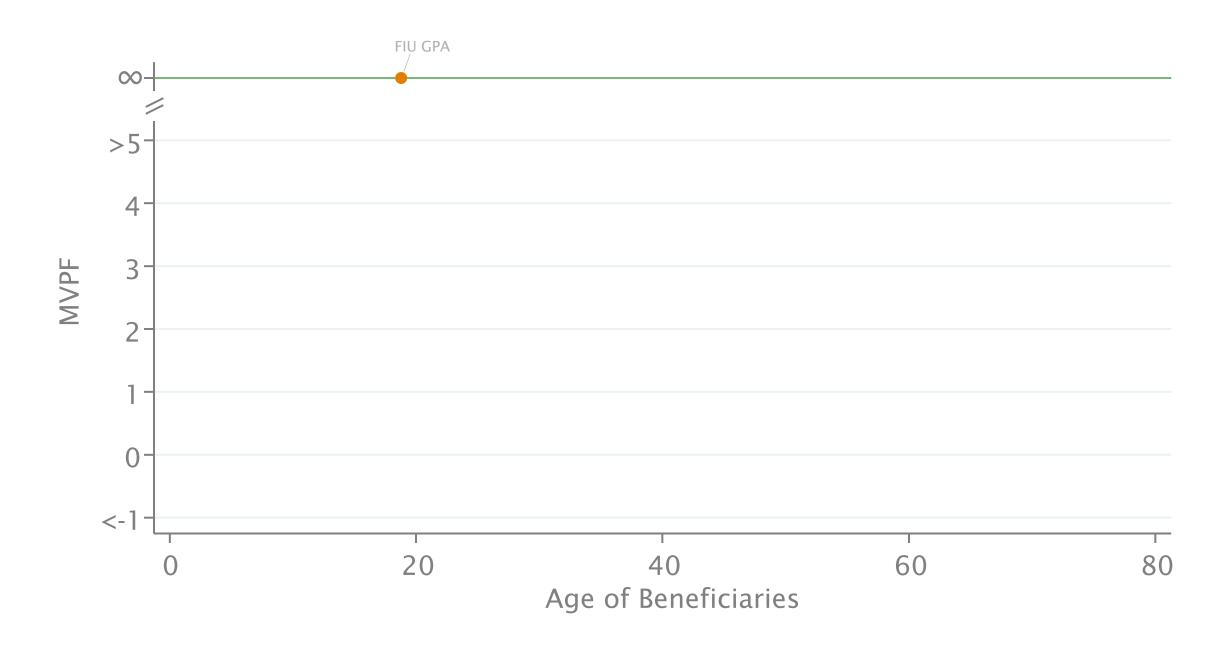


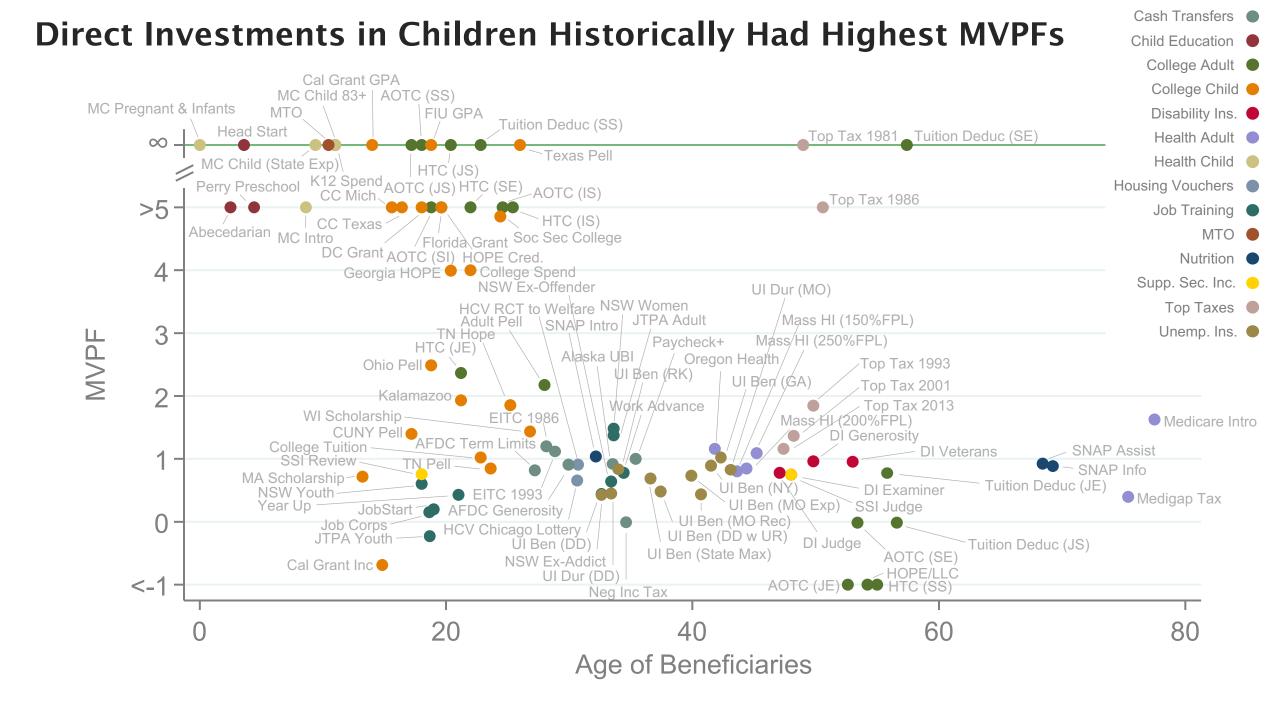




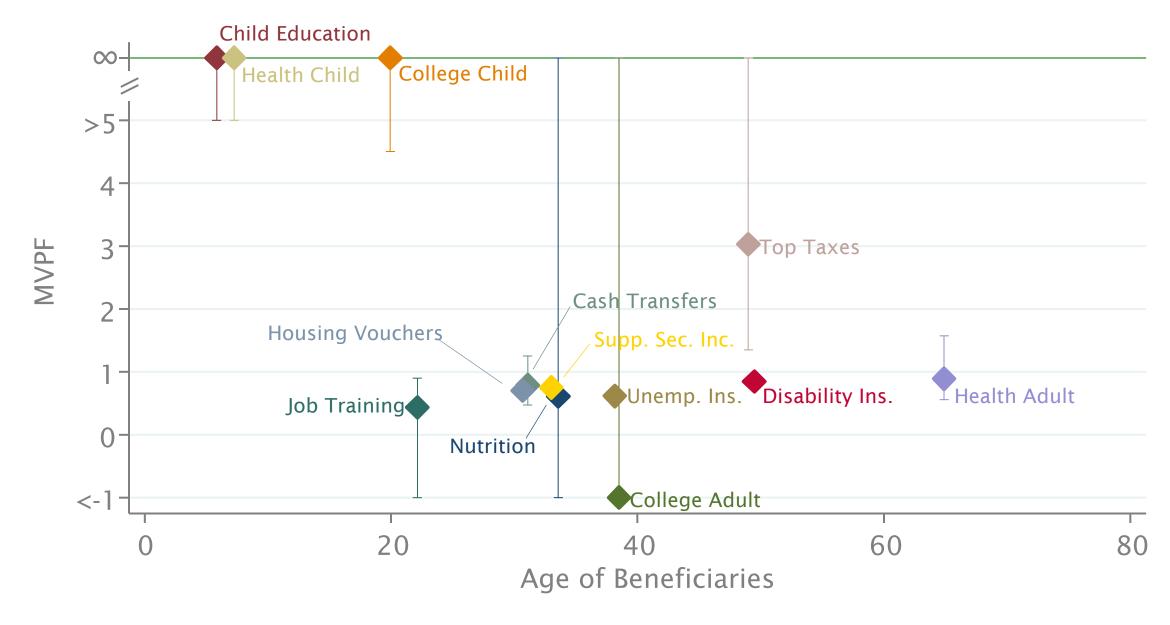


MVPFs by Age of Beneficiary

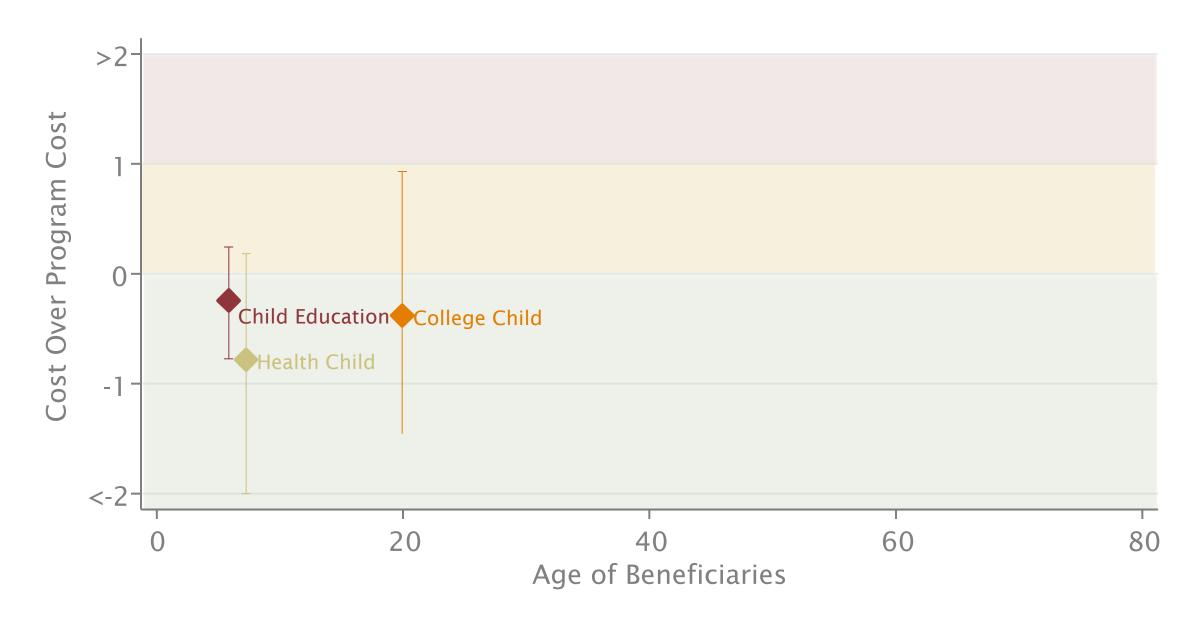




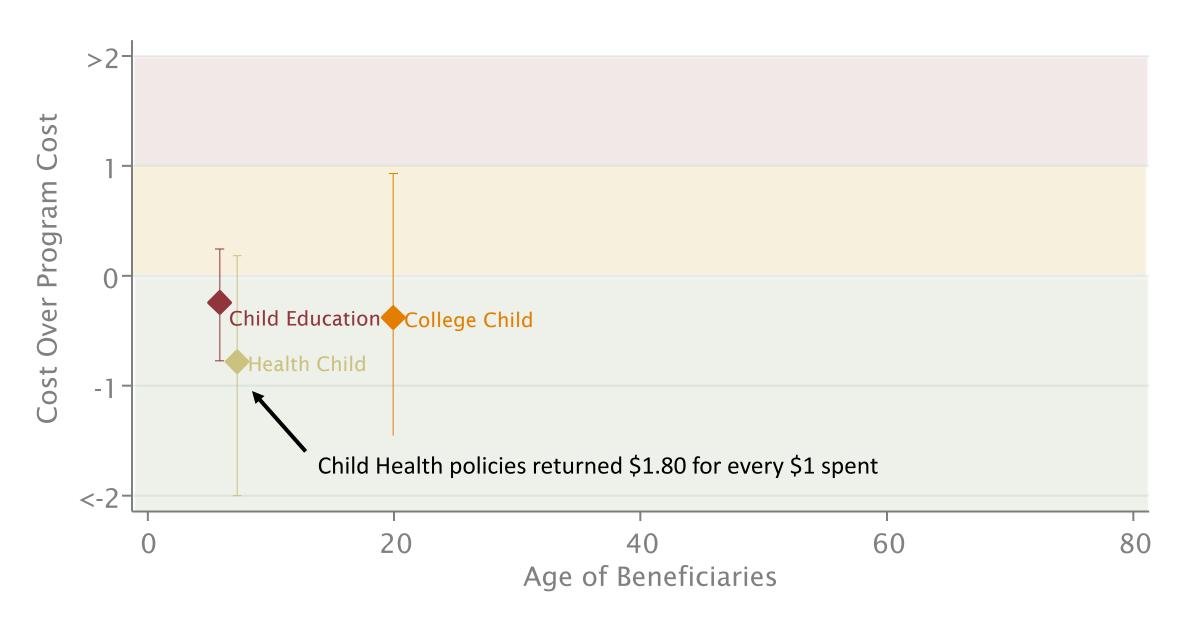
Direct Investments in Children Historically Had Highest MVPFs



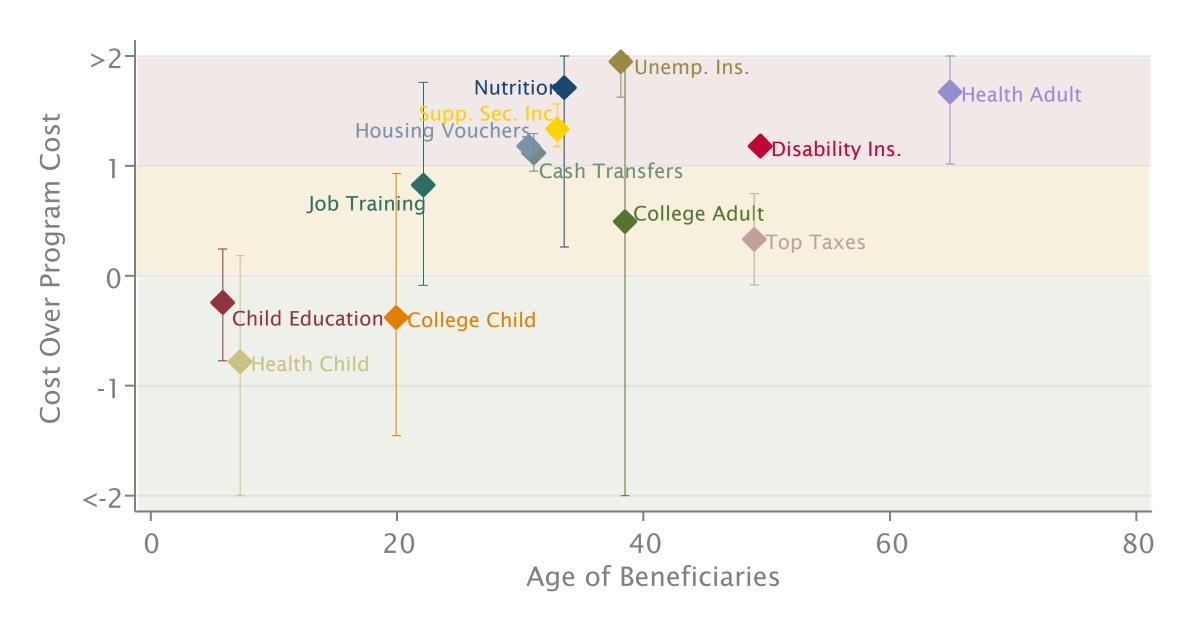
Net Costs to Government per \$1 of Initial Expenditure



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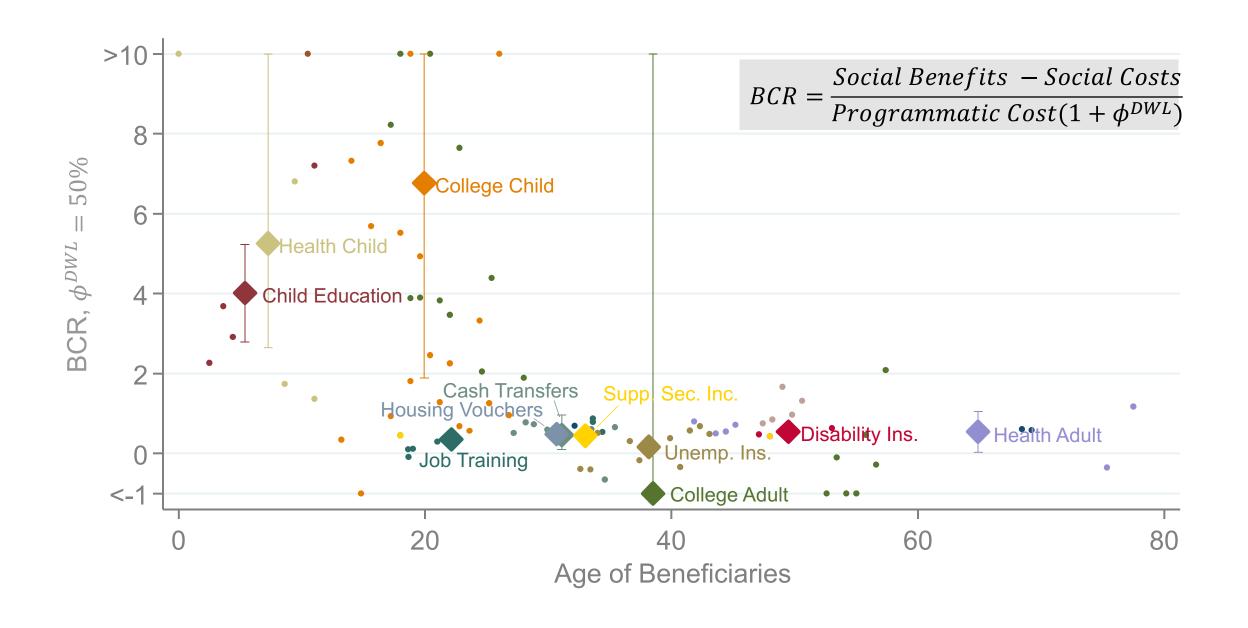


Comparison of MVPF to Benefit/Cost Ratio [e.g. Heckman et al. 2012]

- Common in previous literature to construct "Benefits" and "Costs"
- Construct either difference, or a benefit cost ratio,

$$BCR = \frac{Social\ Benefits\ - Social\ Costs}{Programmatic\ Cost(1 + \phi^{DWL})}$$

Benefit/Cost Ratio by Age of Beneficiaries (50% DWL Assumption)



Why use the MVPF over a Benefit/Cost Ratio?

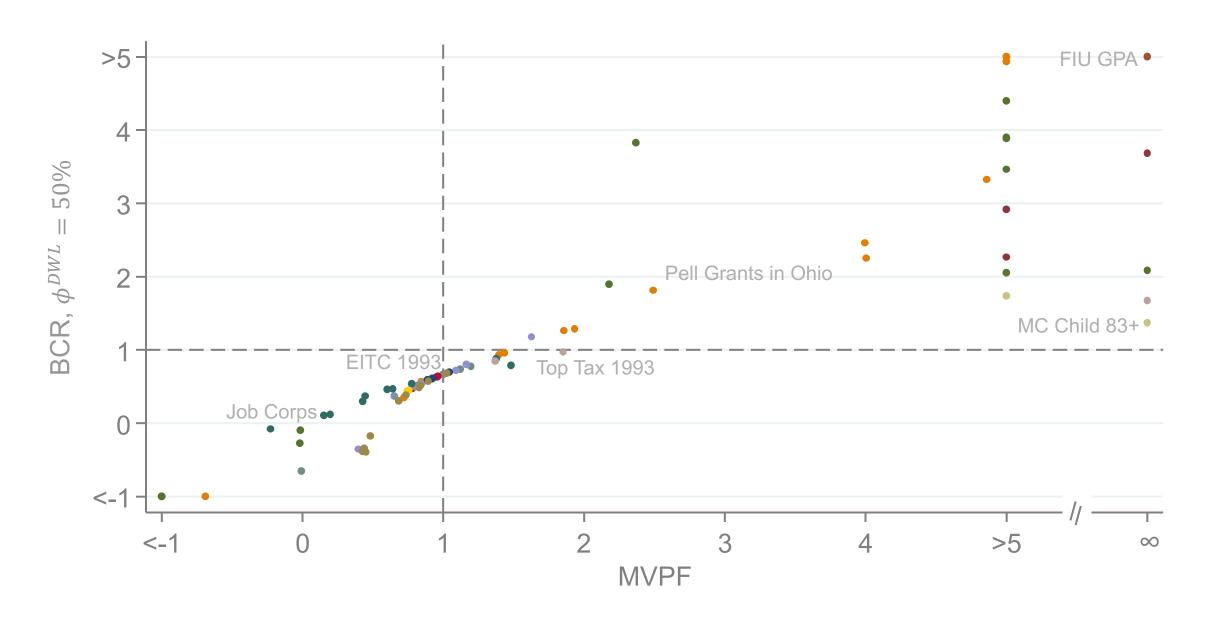
Three Reasons:

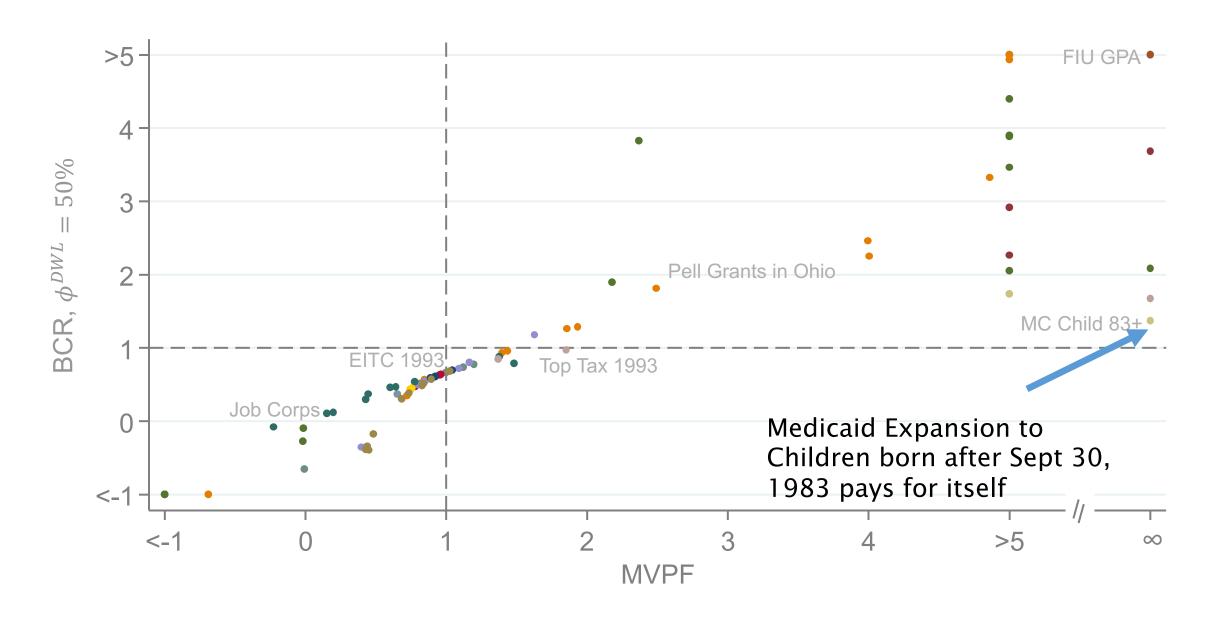
1. MVPF measures the long-run policy efficacy from the (Federal) government's perspective

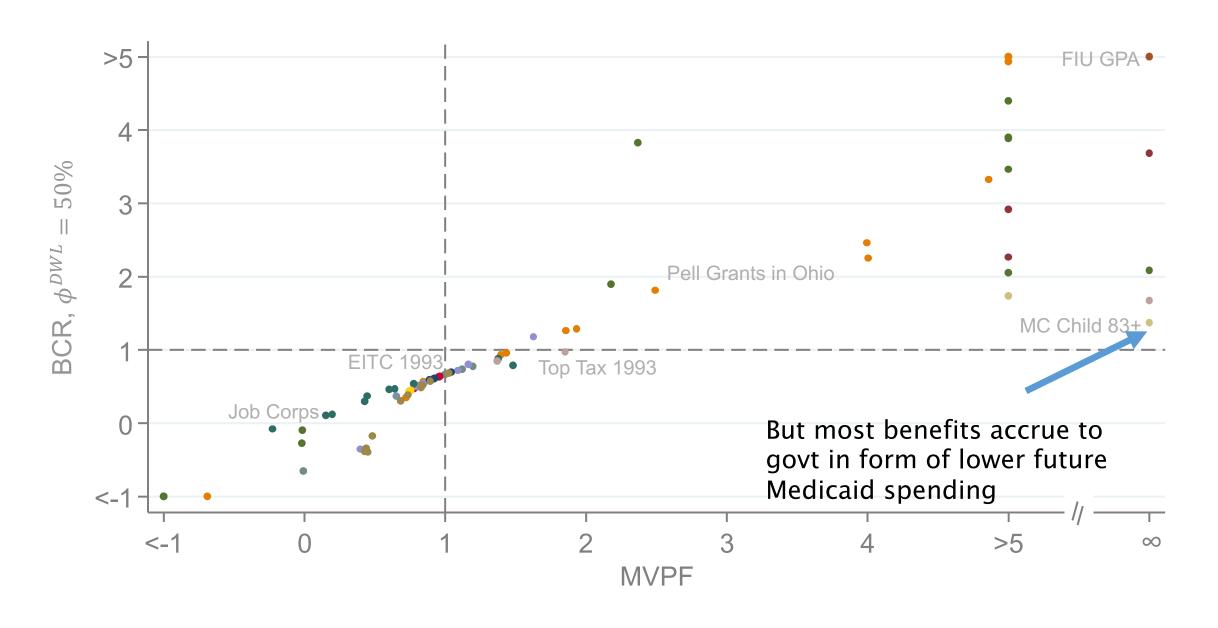
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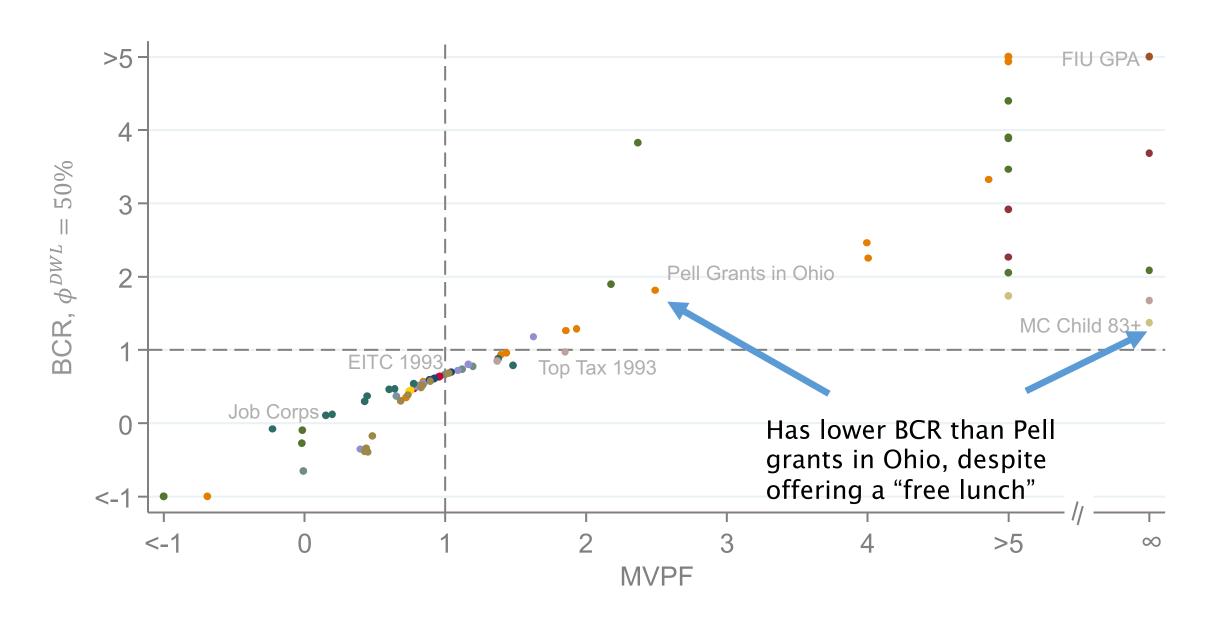
Three Reasons:

- 1. MVPF measures the long-run policy efficacy from the (Federal) government's perspective
- 2. MVPF identifies policies that pay for themselves







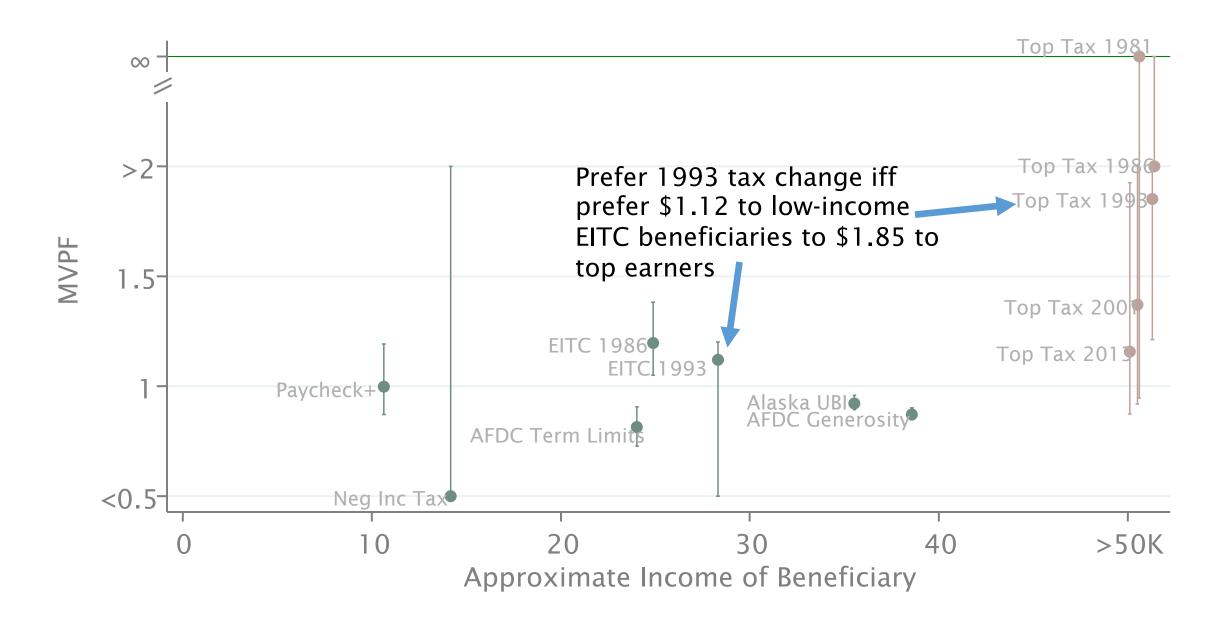


Why use the MVPF over a Benefit/Cost Ratio?

Three Reasons:

- 1. MVPF measures the long-run policy efficacy from the (Federal) government's perspective
- 2. MVPF identifies policies that pay for themselves
- 3. MVPF quantifies the distributional tradeoffs associated with policies

Quantifying the Tradeoffs of Redistribution through the Tax Schedule 1993 Clinton Tax Reform



Explore the MVPFs at www.policyinsights.org

