

Beyond Today's Financial Headlines



Federal Stimulus Spending and the Private Sector

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WELCOME AND INTRODUCTION

The Status of U.S. Infrastructure

Cumulative Infrastructure Needs, Based on Current Trends, billions of 2015 dollars

2016-2025 (Ten Years)	Estimated	Additional
Infrastructure System	Funding	Needed Funding
Surface Transportation	941	1,101
Electricity	757	177
Schools	490	380
Rail	125	29
Airports	115	42
Water/Wastewater	45	105
Others	54	230
Totals	2,526	2,064

Notes: ``Others'' category includes Inland Waters & Marine Ports, Public Parks and Recreation, Levees, Dams, Hazardous & Solid Waste. Source is American Society of Civil Engineers.

U.S. infrastructure gets a grade of



Source: "2017 Infrastructure Report Card," American Society of Civil Engineers (ASCE).

Aviation



ASCE Grade: D

Levees



ASCE Grade: D

Roads



ASCE Grade: D

Solid Waste



ASCE Grade: C+

The State of U.S. Infrastructure

The Administration's Infrastructure Plan

The 2009 Recovery Act

Estimating the Keynesian Multiplier

Conclusion

Public Opinion Towards Infrastructure Investment

79% of Americans approve of a Trump proposal to increase spending on infrastructure.¹

But, only 16% of Americans are willing to pay at least \$250/year in taxes to improve infrastructure.²

⁽¹⁾ CNN/ORC Poll, March 2017.

⁽²⁾ Rasmussen Poll, February 2017.

The Trump Infrastructure Plan: What We Know So Far

Trump Infrastructure Plan (so far)



Sources: Whitehouse.gov, President's 2018 Budget Proposal, various media reports.

The Administration's Key Principles

- 1. Make Targeted Federal Investments
- 2. Encourage Self-Help
- Align Infrastructure Investment with Entities Best Suited to Provide Sustained and Efficient Investment
- 4. Leverage the Private Sector

Source: "Fact Sheet, 2018 Budget: Infrastructure Investment," whitehouse.gov.

Cost Sharing Under the New Initiative



Federal Highway Administration, Current Cost Sharing Model (simplified) Trump Infrastructure Spending Initiative, Proposed Cost Sharing Model

Jobs and the Infrastructure Initiative



Source: whitehouse.gov.

Government Spending and Private Economic Activity

Measuring the Effect of Fiscal Policy

The Keynesian multiplier is the ratio of the change in output to the change in government spending that it causes.

The 2009 Recovery Act

US military appropriations in Iraq between 2002 and 2014, and Federal budget impact of the 2009 Recovery Act, billions of dollars



Source: Congressional Budget Office, Congressional Research Service.

A Breakdown of the Recovery Act



The Recovery Act appropriated \$136 billion in government investment in infrastructure.

Source: Drautzburg and Uhlig (2015).

The Jobs Effect of the Recovery Act

Recovery Spending is a Slow Process



Source: Recovery.gov and author's calculations.

Job Projections Missed the Mark

Directly created jobs in infrastructure & energy, 2010Q4 (thousands of persons)



Sources: Recovery Act Recipient Reports and author's calculations, Bernstein and Romer (2008).

The Direct Jobs Impact of the Recovery Act



166 thousand of the 682 thousand jobs directly created & saved (24%) were in the private sector, at the one year mark following the start of the 2009 American Recovery and Reinvestment Act.

Source: Dupor (2014), "The 2009 Recovery Act: Directly Created and Saved Jobs Were Primarily in Government," Federal Reserve Bank of St. Louis Review.

Who Took the Recovery Act Jobs?

Based on their sample of interviewees, approximately *one-half of the individuals* filling positions directly created by Recovery Act funding *were leaving other jobs*.

Source: Jones and Rothschild (2011), "Did Stimulus Dollars Hire the Unemployed? Answers to Questions about the American Recovery and Reinvestment Act," George Mason University, working paper.

... And the indirect effects of government spending?

Perhaps there is a Keynesian multiplier effect: each directly created/saved job may lead to further job creation.

Estimating the counterfactual using the Recovery Act creates two problems:

- * The Act provides only one data point.
- * Stimulus was during a recession.

... And the indirect effects of government spending?

There is division among experts on this question.

Several high quality papers on this question.

Some of the best use U.S. military expenditures to estimate the Keynesian multiplier.

Economic Activity & Defense Spending



Source: Dupor and Guerrero (2017), ""Local and Aggregate Fiscal Policy Multipliers," *Journal of Monetary Economics*.

Defense spending since the Civil War

Another paper examines military expenditure data back to 1889.

They find multipliers are less than one, except possibly when interest rates are at zero.

Source: Ramey and Zubairy (2017), "Government Spending Multipliers in Good Times and in Bad: Evidence from U.S. Historical Data," *Journal of Political Economy*.

States & local governments may have incentive to reallocate funds

State	Change in highway	Change in government	Change in government
	infrastructure	administration	administration plus
	spending	spending	education spending
Georgia	-109	-9	82
Texas	-98	20	288
Maryland	-73	4	129
Kentucky	-45	0	147
Virginia	-44	9	5
Florida	-35	-16	-24
Indiana	-28	-18	559
Louisiana	-21	18	13
Alabama	-12	3	-20
Mississippi	-10	20	58
Ohio	-10	-38	131
Hawaii	-9	-58	-169
Illinois	-9	9	83
Colorado	-7	-4	236
Arkansas	-6	-13	129
Kansas	1	24	86

Change in state government spending on various categories from 2008 to 2010, per capita for 16 states

Sources: FHWA National Highway Statistics and U.S. Census Bureau Annual Survey of State & Local Governments

DIALOGUE WITH FED Beyond Today's Financial Headlines

The Engineers' Plea

"Put the 'trust' back into 'trust funds.' Dedicated public funding sources on the local, state, and federal levels need to be consistently and sufficiently funded from user-generated fees, with infrastructure trust funds never used to pay for or offset other parts of a budget."

- From the ASCE 2017 Infrastructure Report Card.

Regulations and permitting time will continue to be a major issue

Cutting Back the Red Tape

One component of the Administration's proposal is to reduce the permit process time by 8 years.

"One Federal Decision"

"The Administration supports putting infrastructure permitting into the hands of responsible State and local officials where appropriate."

Sources: Fact Sheet 2018 Budget: Infrastructure Initiative, whitehouse.gov.

Red Tape and the Recovery Act

The act contains approximately 175,000 words and makes references to 100s of existing U.S. codes.

Davis-Bacon wage requirements in home weatherization

Highway infrastructure project approval deadlines

Unnecessary inflexibility



Wrapping Up

Recovery Act (2009-2014)

Problems limited the act's effectiveness.

Defense spending (1889-2015)

An increase in government spending usually crowds out private economic activity.

I'll conclude optimistically

A new infrastructure proposal stands a good chance at passage.

New cost-sharing rules mean fiscal substitution is less likely to be a problem.

De-emphasis on the Keynesian approach.

AUDIENCE Q & A

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