Targeting and Propaganda in Autocratic Development Policy

Lorenzo Vicari (LSE)

- work in progress -

NSE Workshop September 16, 2024

Seeds

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Introduction

Contribution

History

ata

Results

Legacy Radio Mediation Strategic Allocation

Next Steps

onclusion

In a nutshell

This study was inspired by the economic analysis in Carillo 2021 and tries to illuminate *development under autocracy* analysing the **Battle for Wheat**, a flagship agricultural policy in fascist Italy.

It focuses on:

- 1. its long-term *legacy*,
 - \rightarrow support for **neo-fascist** party MSI
- 2. the *mechanism* behind its persistence,
 - \rightarrow responsibility attribution by **radio** propaganda
- 3. and the political *determinants* of the policy.
 - \rightarrow opposition to the regime, collective action potential

Seeds

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Introduction

Contribution

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Results

Legacy Radio Mediation

Next Steps

Conclusion

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Seeds

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Introduction

Contribution

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Results

Legacy Radio Mediation

lext Steps

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Seeds

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Introduction

Contribution

1115001

ata

Results

Radio Mediation

Next Steps

Conclusion

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Seeds

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Introduction

Contribution

.....

Data.

Results

Legacy

Radio Mediation

Next Steps

Conclusion

Contribution

And (in-exhaustive) literature review

- ▶ Does development **endanger or entrench** autocrats?
 - Development → democratisation demands (Treisman 2020): it can create a bourgeoisie (Lankina and Libman 2021), industrial labour (Rueschemeyer et al. 1992), and widen education (Chang and Wu 2022; Palma and Reis 2021).
 - Development → regime legitimacy: autocracies seek it (Geddes and Zaller 1989) to enhance compliance (Beetham 2013), increasingly through economic performance (S. Guriev and Treisman 2019; S. M. Guriev and Treisman 2022; Rozenas and Stukal 2019) seen as a "key source of regime stability in non-democracies" (Beazer and Reuter 2019).
- ▶ Do autocrats favour **loyal or opposing** communities?
 - Loyalists: ensure integrity of ruling coalition by distributing public goods (buenodemesquitaLogicPoliticalSurvival2005),
 - Opponents: counter subversive threats by "buying off" problematic segments of society (Bueno de Mesquita and Smith 2010).

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Introduction

Contribution

)ata

Results

Legacy
Radio Mediation

Strategic Allocation

rear brops

Conclusion

History

The Battle for Wheat

Italy's reliance on imports:

- \rightarrow autarchy (Lyttelton 2004)
- ightarrow agricultural modernization (Segre 1982)

The **Battle for Wheat** (BfW) began in 1925:

- ▶ introduction of enhanced varieties by Strampelli (Salvi, Porfiri, and Ceccarelli 2013)
- subsidies for machinery and fertilizers
- ▶ boosted Travelling Chairs of Agriculture

Impact on the diet is debated (Cohen 1979) but it increased wheat productivity (Carillo 2021).

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Introduction

Contributio

History

Data

Legacy
Radio Mediation
Strategic Allocation

Next Steps

Conclusion

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History

▶ (Rural) radio: rolled out starting in 1922. It was the main propaganda avenue (Monteleone 1976; Brendon 2000) + leveraged the BfW (Isola 1990; Galdi, Pietra, and Savini 2010): the best wheat farmers were "the vanquards of the battle" (Cannistraro 1975).

▶ Movimento Sociale Italiano (MSI): founded in 1946 "in opposition to the democratic system to maintain the idea of fascism alive" (Ignazi 1998) to the point of being indicted in 1973 for reconstituting the PNF.

Historical argument:

- 1. the BfW sizeably increased wheat productivity,

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History

Historical argument:

- 1. the BfW sizeably increased wheat productivity,
- 2. the radio spread propaganda frequently connected to the BfW,
- 3. votes for the MSI signal fascist regime support or fascist preferences \rightarrow ex-post proxy for support created beforehand

Seeds

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Introduction

Contributio

${\bf History}$

Data

Results

Legacy Radio Mediation Strategic Allocation

Next Steps

Conclusion

History Takeaway

Historical argument:

- 1. the BfW sizeably increased wheat productivity,
- 2. the radio spread *propaganda* frequently connected to the BfW,
- 3. votes for the MSI signal *fascist regime support* or fascist preferences.
 - \rightarrow ex-post proxy for support created beforehand

Seeds

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Introduction

Contribution

History

)ata

Results

Legacy
Radio Mediation
Strategic Allocation

Next Steps

Conclusion

- ▶ Wheat yields improvement: $BfW_i = \bar{y}_{1923-1928} y_{1929}$ from the Agricultural Cadastre of 1929, digitized by Carillo 2021
- ► Theoretical yield improvements: FAO GAEZ v.3
- ▶ Radio signal: digitized records and calculated with Irregular Terrain Model by Gagliarducci et al. 2020
- ► Electoral data: 1919, 1921 and 1924 collected by Acemoglu et al. 2022, 1948-1992 from Eligendo systematised by Bailo 2021
- ▶ Strike data: agricultural (1913, 1920) and industrial strikes (1913) collected by Acemoglu et al. 2022

Seeds

Lorenzo Vicari (LSE)

Introduction

Contributio

History

Data

Results
Legacy
Radio Mediation
Strategic Allocation

Next Steps

onclusion

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Seeds

Lorenzo Vicari (LSE)

Introduction

Contributi

Histor

Data

Roculte

Legacy
Radio Mediation
Strategic Allocation

Next Steps

onclusion

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Seeds

Lorenzo Vicari (LSE)

Introduction

Contributi

Data

Results

Legacy
Radio Mediation
Strategic Allocation

Next Steps

onclusion

C-----

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Seeds

Lorenzo Vicari (LSE)

Introduction

Contributi

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Data

Results Legacy Radio Mediation

lext Steps

onclusion

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Seeds

Lorenzo Vicari (LSE)

Introduction

Contributi

Data

Results

Legacy

Radio Mediation

Strategic Allocation

Next Steps

Conclusion

Data Control sets

- ▶ Agricultural: Caloric Suitability Index, baseline wheat suitability
- Geographic: distance from waterways and urban centres, density of railroads, historical malaria, elevation, ruggedness, municipal area
- ▶ Social: literacy, workforce composition, average farm size, land GINI
- ▶ *Political*: fascist organisation (branch and donors), fascist violence, new towns, PNF and PSU vote shares

Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

History

Data

Results
Legacy
Radio Mediation
Strategic Allocation

Next Steps

Conclusion

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Data Geographic coverage



Missing variables
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Seeds

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ntroduction

Contributio

Histo

Data

Results

Radio Mediation

Next Steps

Conclusion

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Results
Legacy - OLS

BfW	$MSI\ vote\ \%$				
	0.039** (0.013)	0.035** (0.014)	0.041** (0.014)	0.037** (0.014)	
Caloric suitability	-0.180** (0.028)	-0.308** (0.032)	-0.289** (0.033)	-0.246** (0.033)	
$Wheat \ suitability$	-0.059** (0.012)	-0.226** (0.017)	-0.225** (0.017)	-0.205** (0.017)	
Provinces × elections FE	√	√	√	√	
Agricultural	\checkmark	\checkmark	\checkmark	✓	
Geographic		\checkmark	\checkmark	✓	
Societal			\checkmark	✓	
Fascist				\checkmark	
Mean outcome	3.236	3.236	3.236	3.236	
Adjusted R ²	0.386	0.398	0.404	0.412	
F-stat	32.342	75.655	66.991	74.430	
Municipalities-elections	38725	38725	38725	38725	

In all tables, robust standard errors are shown in parentheses.

Seeds

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ntroduction

Contributi

History

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Results

Legacy Radio Mediation

Next Stene

Conclusion

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^{+, *,} and ** correspond to 10, 5, and 1% levels of significance, respectively.

Difference-in-difference:

- ► *High BfW*: above median yield improvement (also non-negligible improvement)
- ▶ Post: after democratisation
- Parallel trends based on PNF vote shares (levels and trends).

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Introduction

Contribution

History

Data

Results

Legacy

Radio Mediation

Next Steps

Conclusion

onclusion

 $\begin{array}{c} Results \\ {\tt Legacy - DiD} \end{array}$

	MSI vote %				
$High\ BfW \times Post$	$0.554+\ (0.335)$	$0.554+\ (0.335)$	$0.554+\ (0.335)$	0.554+ (0.335)	
Municipality FE	√	√	√	√	
Agricultural	\checkmark	\checkmark	\checkmark	\checkmark	
Geographic		\checkmark	\checkmark	\checkmark	
Societal			\checkmark	\checkmark	
Fascist				\checkmark	
Mean outcome	7.490	7.490	7.490	7.490	
Adjusted R^2	0.191	0.191	0.191	0.191	
F-stat	6691.269	6691.269	6691.269	6691.269	
Municipalities-elections	49558	49558	49558	49558	

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Legacy

Radio Mediation Strategic Allocation

Next Steps

onclusion

Results Legacy - IV

The DiD is not entirely satisfying.

There is a good instrument for yield improvements (identified by Carillo 2021):

► theoretical change moving from low to intermediate level of input in FAO's GAEZ v.3 potential yields.

Carillo 2021 constructs an indicator:

$$PRI = \frac{\text{intermediate-input wheat yields} - \text{low-input wheat yields}}{\text{low-input all crops yields}}$$

no change in other crops equation

Seeds

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Introduction

Contributio

Data

Roculte

Legacy

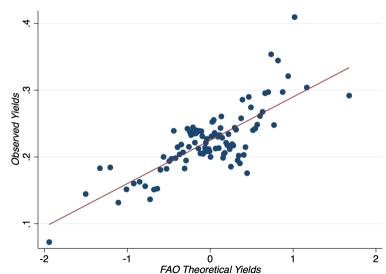
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Next Steps

vext bteps

onclusion

Results
Legacy - IV



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Introduction

Contributio:

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Data

Results

Legacy

Radio Mediation Strategic Allocation

Next Steps

Conclusion

Results
Legacy - IV

BfW	MSI vote %				
	1.249** (0.154)	2.815** (0.569)	1.914** (0.483)	1.433** (0.472)	
Provinces \times elections FE	√	√	√	√	
Agricultural	\checkmark	\checkmark	\checkmark	\checkmark	
Geographic		\checkmark	\checkmark	\checkmark	
Societal			\checkmark	\checkmark	
Political				\checkmark	
Mean outcome	3.258	3.258	3.258	3.258	
Kleibergen-Paap F-stat	458.384	60.020	62.617	58.561	
F-stat	53.133	43.335	45.453	50.111	
Municipalities-elections	35842	35842	35842	35842	

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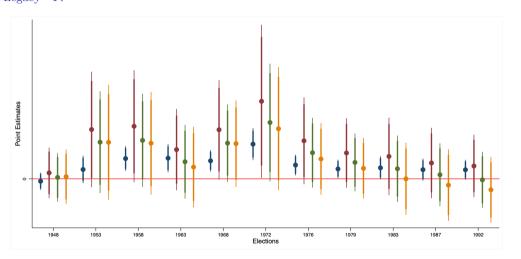
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Legacy Radio Mediation

lext Steps

Conclusion

Results
Legacy - IV



5 and 10% confidence intervals shown.

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Introduction

Contributio

History

Data

Results

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Legacy

Radio Mediation Strategic Allocation

Next Steps

Conclusio

Results

Radio mediation

	MSI vote %			
	Weak Signal		Strong	Signal
	OLS	IV	OLS	IV
BfW	-0.037	4.808	0.051**	2.417*
	(0.026)	(3.591)	(0.018)	(0.960)
Provinces × elections FE	✓	✓	✓	√
Free-space signal	✓	✓	✓	\checkmark
All control sets	\checkmark	\checkmark	✓	\checkmark
Mean Outcome	3.20	3.20	3.29	3.29
F-stat	37.89	12.41	38.67	20.84
Kleibergen-Paap F-stat				24.66
Municipalities × elections	17475	17475	18280	18280

Seeds

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ontributio

story

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Radio Mediation Strategic Allocation

ext Steps

Conclusion

Results
Radio mediation

	MSI vote %				
	Weak Signal		Strong Signal		
	OLS	IV	OLS	IV	
BfW	-0.037	4.808	0.051**	2.417*	
	(0.026)	(3.591)	(0.018)	(0.960)	
Provinces \times elections FE	√	✓	√	√	
Free-space signal	\checkmark	\checkmark	\checkmark	\checkmark	
All control sets	\checkmark	\checkmark	\checkmark	\checkmark	
Mean Outcome	3.20	3.20	3.29	3.29	
F-stat	37.89	12.41	38.67	20.84	
Kleibergen-Paap F-stat		2.74		24.66	
Municipalities \times elections	17475	17475	18280	18280	

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Contributi

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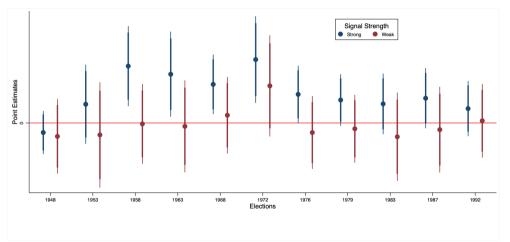
Legacy Radio Mediation

ext Steps

Conclusion



Radio mediation



Column 1 specification. 5 and 10% confidence intervals shown.

Radio propaganda seems key to persistence.

Seeds

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Introduction

Contribution

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Data

Legacy
Radio Mediation

Next Steps

Conclusion

Strategic Allocation

IV - Reduced form

	MSI vote $\%$				
PRI	0.177** (0.022)	0.182** (0.031)	0.120** (0.030)	0.082** (0.031)	
Provinces × elections FE	√	✓	✓	√	
Agricultural	✓	✓	✓	√	
Geographic		✓	✓	√	
Societal			✓	√	
Fascist				√	
Mean outcome	3.236	3.236	3.236	3.236	
Adjusted R ²	0.387	0.399	0.404	0.412	
F-stat	61.867	81.945	68.517	75.543	
Municipalities-elections	38725	38725	38725	38725	

Seeds

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troduction

ontributio

History

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Radio Mediation
Strategic Allocation

Next Steps

Strategic Allocation

IV - Reduced form

PRI	$MSI\ vote\ \%$				
	0.177**	0.182**	0.120**	0.082**	
	(0.022)	(0.031)	(0.030)	(0.031)	
Provinces \times elections FE	✓	✓	✓	√	
Agricultural	\checkmark	\checkmark	\checkmark	\checkmark	
Geographic		\checkmark	\checkmark	\checkmark	
Societal			\checkmark	\checkmark	
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Seeds

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roduction

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Legacy
Radio Mediation
Strategic Allocation

Next Steps

Conclusion

Strategic Allocation - Yields

OLS magnitude is smaller than the IV, but when controlling for political factors they get closer.

To isolate the endogenous element of yield improvements, I look at $BfW-B\hat{f}W \to \text{higher}$ values imply higher than expected improvements.

Seeds

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Introduction

Contribution

Data

Results

Radio Mediation
Strategic Allocation

Next Steps

Next Steps

onclusion

Results
Strategic Allocation - Yields

	$BfW-B\hat{f}W$				
Fascist vote %	0.001 (0.001)	0.001 (0.001)	0.000 (0.001)	0.001 (0.001)	
Socialist vote %	0.163** (0.050)	0.171** (0.050)	0.120* (0.054)	0.123* (0.054)	
'20 Agr. strikes			0.434** (0.032)	0.429** (0.032)	
Provinces \times elections FE	✓	√	√	√	
Societal	\checkmark	\checkmark	\checkmark	\checkmark	
Red Scare			\checkmark	\checkmark	
Fascist		\checkmark		\checkmark	
Mean outcome	0.696	0.696	0.696	0.696	
Adjusted R ²	0.346	0.348	0.366	0.367	
F-stat	15.288	12.676	25.454	20.771	
Municipalities-elections	10921	10921	10921	10921	

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ntroduction

ontributio

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Data

Legacy
Radio Mediation
Strategic Allocation

Next Steps

Conclusion

Contributio

History

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Legacy Radio Mediation Strategic Allocation

Nevt Steps

Next Steps

Conclusion
Support)

- ▶ When treatment is assigned based on *geo-morphological characteristics* (IV) the impact is *large*.
- ▶ When it is assigned endogenously, hence *politically* (OLS) the impact is *smaller*,
- because ex-ante opposed units are treated more!
- ▶ In fact, controlling for political factors, OLS and IV estimates look more similar.

The BfW looks like a political consolidation effort, in line with some historical accounts (e.g. Gagliardi 2012; Foot 2022).

Strategic Allocation - Yields, argument

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Seeds

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Introduction

Contributio

Data

Legacy Radio Mediation Strategic Allocation

Nort Store

Next Steps

Conclusion (Support)

Strategic Allocation - Yields, argument

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Seeds

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Introduction

Contributio

Data

Legacy Radio Mediation Strategic Allocation

Next Steps

Next Steps

Conclusion

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Seeds

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Introduction

Contributio

Data

Legacy Radio Mediation Strategic Allocation

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Next Steps

Conclusion

Results

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Seeds

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Introduction

Contributi

Data

Legacy
Radio Mediation
Strategic Allocation

Vert Stepe

Next Steps

onclusion

Results

Strategic Allocation - Radio Reception

I also look at the improvement in radio signal by calculating Δ Signal Strength = $\bar{s}_{1925-1929} - s_{1925}$.

	Δ Signal Strength						
Fascist vote %							
	8.340** (0.885)	8.251** (0.886)	7.369** (0.947)	7.282** (0.947)			
'20 Agr. strikes			3.702** (0.367)	3.684** (0.365)			
Provinces × elections FE	✓	✓	✓				
	$\sqrt{}$	√	√	√			
			√	√			
Fascist		√		√			
Mean outcome	33.831	33.831	33.831	33.831			
Adjusted R ²	0.831	0.832	0.833	0.833			
F-stat	54.915						
Municipalities-elections		11429	11429	11429			

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Strategic Allocation

Results

Strategic Allocation - Radio Reception

I also look at the improvement in radio signal by calculating Δ Signal Strength = $\bar{s}_{1925-1929} - s_{1925}$.

	Δ Signal Strength					
Fascist vote %	-0.040** (0.012)	-0.040** (0.012)	-0.046** (0.012)	-0.046** (0.012)		
Socialist vote %	8.340** (0.885)	8.251** (0.886)	7.369** (0.947)	7.282** (0.947)		
'20 Agr. strikes			3.702** (0.367)	3.684** (0.365)		
Provinces \times elections FE	√	√	√	√		
Societal	\checkmark	\checkmark	\checkmark	\checkmark		
Red Scare			\checkmark	\checkmark		
Fascist		\checkmark		\checkmark		
Mean outcome	33.831	33.831	33.831	33.831		
Adjusted R ²	0.831	0.832	0.833	0.833		
F-stat	54.915	42.197	46.921	39.792		
Municipalities-elections	11429	11429	11429	11429		

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Strategic Allocation

Some of the things to be thought more about

- ► Targeting, conceptually and empirically:
 - ► Is it targeting (supply-side) or just labor organisation (demand-side)?
 - ► How to disentangle them?
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 - $\,\blacktriangleright\,$ Radio reception? \to regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

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Data

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Legacy Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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 - Control of the Cont
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Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

.....

ata

Results

Legacy Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
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Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

1100013

ata

Regulte

Legacy
Radio Mediatio

Radio Mediation Strategic Allocation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

Introduction

Contributio

115 tO1 y

ata

Results

Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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 - geospatial correlation (Conley 1999)
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

ntroduction

Contributio

istory

ıta

Results

Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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- ► *Legacy*, empirically:
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 - \blacktriangleright Robustness? \rightarrow more appropriate handling of standard errors:
 - clustering in finite populations (Abadie et al. 2023): packages for continuous variables?
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

ntroduction

Contributio

istory

ata

Results

Legacy
Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ➤ Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

ntroduction

Contribution

nstory

ata

Results

Legacy Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- ► Targeting, conceptually and empirically:
 - ▶ Is it targeting (supply-side) or just labor organisation (demand-side)?
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

ntroduction

Contributi

iistory

)ata

Results

Legacy Radio Mediation

Next Steps

Conclusion

Some of the things to be thought more about

- Targeting, conceptually and empirically:
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

ntroduction

Contributi

ata

Results

Legacy

Radio Mediation Strategic Allocation

Next Steps

Conclusion

Some of the things to be thought more about

- ► Targeting, conceptually and empirically:
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 - \blacktriangleright Radio reception? \rightarrow regenerate radio with model for FM (Russo 2024)

Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

ata

Results

Legacy Radio Mediation

Strategic Allocation

Next Steps

Conclusion

Conclusion

Tentative take-home message(s)

The case of the Battle for Wheat in fascist Italy suggests that in autocracies:

- ▶ and benefits are strategically allocated to *collective-action-threatening* opposition.
- development policy durably entrenches autocrats when its benefits are clearly attributed through propaganda,
- ▶ (Infrastructure-enabling propaganda is, likewise, *strategically allocated*.)

Seeds

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Introduction

Contributio

History

Data

Results Legacy

Radio Mediation Strategic Allocation

lext Steps

Conclusion

Seeds

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Thank you!

Conclusion

Parallel Trends

Back

	PNF vote % (1919-1924)								
	Levels			Trends					
$High\ BfW$	$0.152 \\ (0.216)$	-0.028 (0.216)	0.059 (0.216)	-0.006 (0.177)	0.893 (2.101)	1.035 (2.144)	1.105 (2.075)	1.324 (2.106)	
Provinces \times elections FE	✓	√	✓	✓	✓	✓	✓	√	
Agricultural	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Geographic		\checkmark	\checkmark	\checkmark		\checkmark	\checkmark	\checkmark	
Societal			✓	✓			✓	✓	
Political				\checkmark				\checkmark	
Municipalities-elections	10833	10833	10833	10833	3075	3075	3075	3075	
Mean outcome	22.697	22.697	22.697	22.697	24.167	24.167	24.167	24.167	
Adjusted R ²	0.885	0.886	0.887	0.924	0.328	0.330	0.334	0.342	
F-stat	39.215	28.404	21.499	74.921	1.858	1.924	1.839	3.810	

Seeds

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ntroduction

Contribut

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Legacy
Radio Mediation
Strategic Allocatio

vext Steps

Conclusion

PRI Composition

$PRI_{low,i} = \sum_{c} \frac{\bar{p}_{0}^{w} \hat{q}_{c,(low)}^{w}}{\sum_{i} \bar{p}_{0}^{j} \hat{q}_{c,(low)}^{j}} P(c|c \in i)$ (1)

$$PRI_{int,i} = \sum_{c} \frac{\bar{p}_{0}^{w} \hat{q}_{c,(int)}^{w}}{\sum_{j} \bar{p}_{0}^{j} \hat{q}_{c,(low)}^{j}} P(c|c \in i)$$
 (2)

$$PRI_i = PRI_{int,i} - PRI_{low,i} \tag{3}$$

i are municipalities, j crops, and c GAEZ cells, all at constant '19 prices (p).

Back

Seeds

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Introduction

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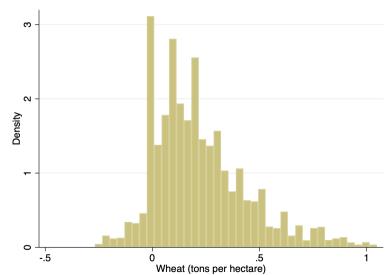
Legacy
Radio Mediation

Next Steps

Conclusion

IV

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Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

History

Data

Results

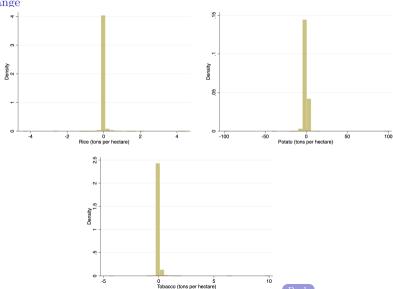
Legacy

Radio Mediation Strategic Allocation

Conclusion



Crops Change



Seeds

Lorenzo Vicari (LSE)

Introduction

Contribution

Data

Results

Legacy Radio Mediation

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Conclusion