

Geopolitics and Export Miracles: Firm-Level Evidence from US War Procurement in Korea

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March 11, 2026

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- ▶ **This paper:** provides the first quantitative evidence of the impacts of US Vietnam War procurement on Korea's export miracle

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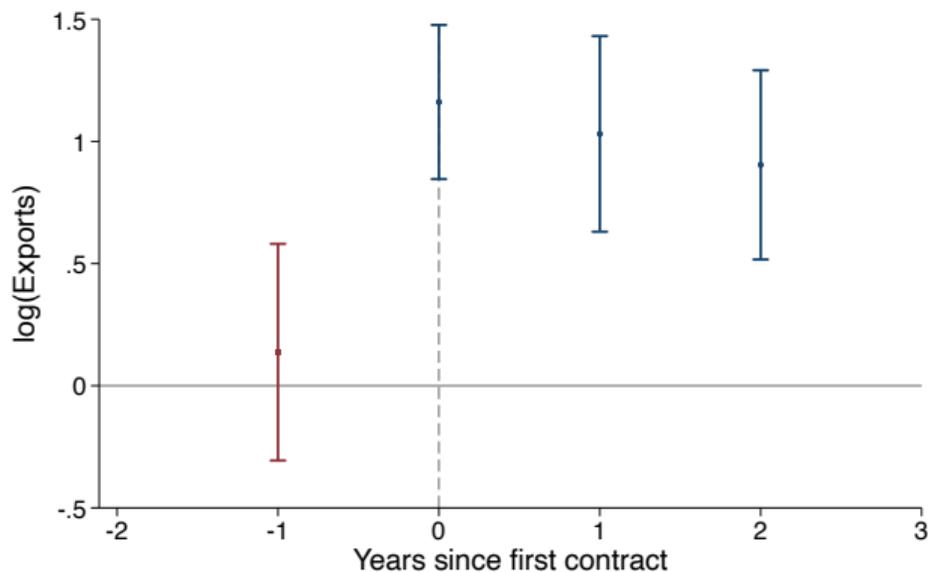
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- ▶ Based on a staggered event-study, we trace the impact of a firm winning its first contract on its exports
- ▶ Using unique export target data set by the Korean state, we are able to support identification assumptions

Preview: War Procurement Supported the Korean Export Miracle

- ▶ Firms winning their first contract were 46% more likely to export

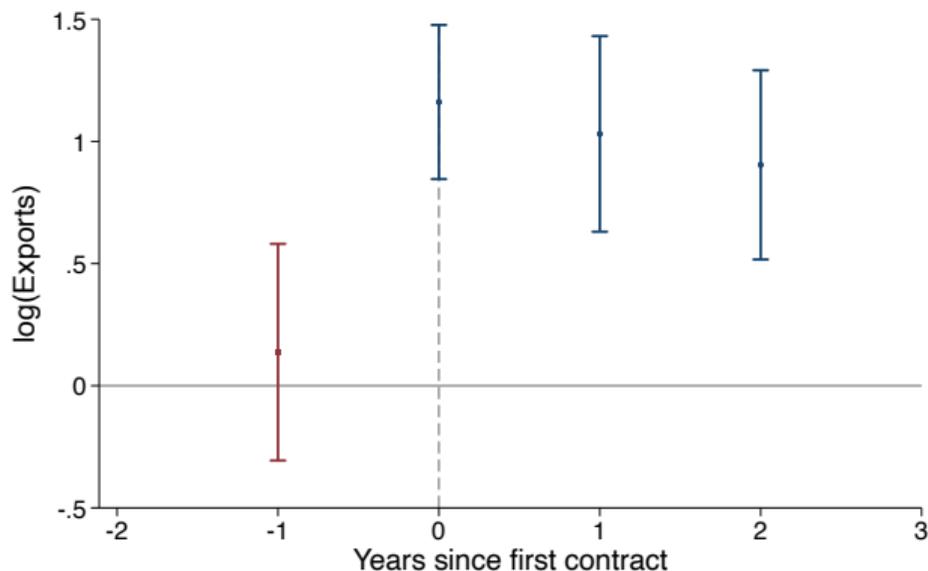
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- ▶ Export volumes for contract-winning firms rose over 200%:



- ▶ Back-of-the-envelope calculations suggest US military procurement increased South Korean exports by 20-26%

Historical Context

Data

Empirical Strategy and Export Targets

Main Results

What Sectors Saw Exports due to War Procurement?

Conclusion

Historical Context: The Brown Memorandum

- ▶ In 1961, South Korea was heavily dependent on U.S. aid (12% of GDP, or 73% of imports) ▶ [Data](#)
- ▶ With the US's War in Vietnam expanding, Park Chung-hee struck a deal: sending Korean troops in exchange for procurement contracts and \$150M in aid (Brown Memorandum, 1966)
- ▶ Korea ultimately sent 350,000 troops—second-largest force on the anti-communist side after the U.S.
- ▶ South Korean firms supplied goods like uniforms, boots, cement, and services like construction and engineering for the war effort
 - ▶ In particular, crucial to the growth of *chaebol* conglomerates like Hyundai, Samsung, and LG

Two Sides of Korea's War



The Contract Procurement Process

- ▶ In theory: contracts should have been awarded through a sealed, competitive bid process evaluated by the U.S. military
- ▶ In practice: the Korean state partly captured the procurement process:
 - ▶ Korean nationals in U.S. offices (e.g., the U.S. Korean Procurement Agency (KPA), a unit of the Eighth Army) leaked information
 - ▶ Industry associations colluded to coordinate the winner of bids
- ▶ Procurement contracts thus (inadvertently) acted as a form of *joint* Korean-American industrial policy
- ▶ Raise concerns about identification that contract winners may differ systematically from losers

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Korean Exports Data

- ▶ Comprehensive Export Directory (KOTRA), 1968-77:
 - ▶ Data is at the firm \times destination country \times product level
 - ▶ Goods exports (no services)
- ▶ After consolidating names, $N = 1952$ firms
- ▶ Another critical feature of this data: firm-level export *targets* for 1970-72
 - ▶ More on this in a bit

CHUNIL MOOLSAN CO., LTD.		(414, W)
82, 1-ka Ulchi-ro Chung-ku, Seoul		(22-4940)
C.P.O. Box: 908, Seoul	EXPORTS IN 1969:	322,466
CABLE ADD.: CMCOMPANY	TARGET IN 1970 :	1,135,000

1. <u>Knitted Shirts</u>				
U.S.A.	138,134 (N.A.)	Canada	3,350 (N.A.)	
			Total	141,484 (N.A.)
2. <u>Shirts N.E.S.</u>				
U.S.A.	78,876 (947,000)	Australia	- (35,000)	
S.America	- (25,000)			
			Total	78,876(1,007,000)

U.S. Department of Defense DD-350 military procurement forms

- ▶ Covers all purchases over USD 10,000 for Korean firms 1965-1974
- ▶ 433 contracts matched to export firms via Anglicized firm names
 - ▶ USD 135,000 median contract value
 - ▶ USD 450,000 mean contract value
- ▶ Note: the largest categories of contracts are services, not goods:

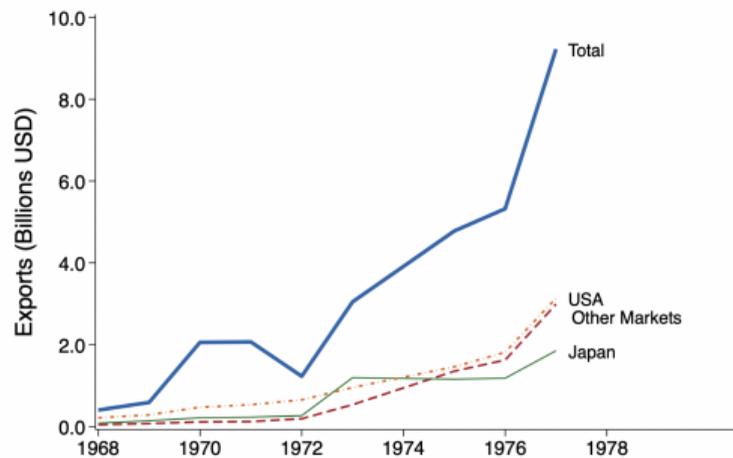
Service/product	Share
Operations and management	12.6%
Liquid propellants & fuels	12.0%
Construction	8.1%
Guard services	6.0%
Fuel oils	5.3%

The Procurement and Export Booms in Aggregate

(a) Procurement contracts peak in 1968



(b) Exports grow 10-fold in a decade



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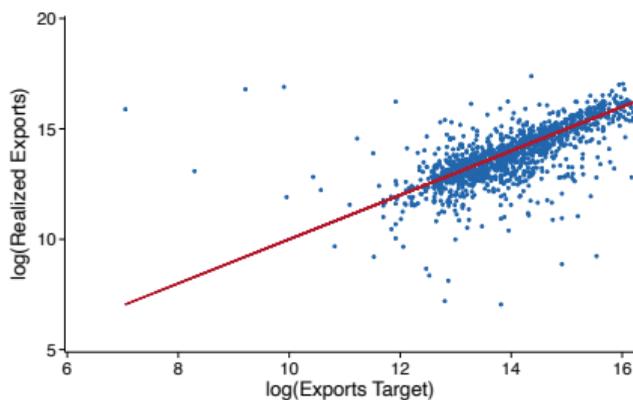
Empirical Strategy

- ▶ Staggered event-study approach looking at firm-level export outcomes using the [Borusyak, Jaravel, and Spiess \(2024\)](#) estimator
- ▶ Treatment variation comes from the *timing* of when a firm wins its first U.S. procurement contract

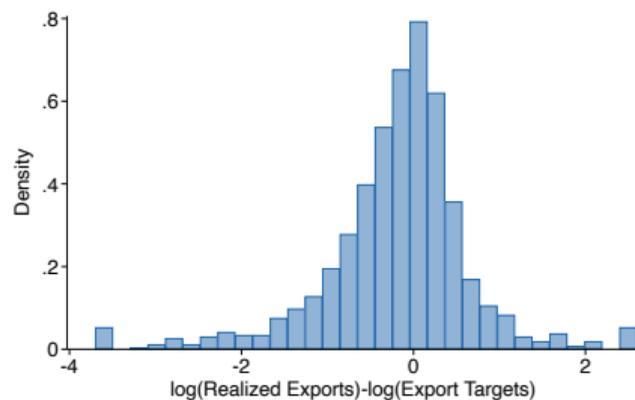
Testing Identification with Export Targets

- ▶ **Key event study assumptions:** no anticipation and parallel trends
 - ▶ Capture of the procurement process by the Korean state raises concerns
- ▶ Uniquely, we can test this with a rare feature of our dataset: firm-level export targets set one year ahead by firms and the Korean government
- ▶ Export targets were a famous policy instrument of Park Chung Hee's developmental state
 - ▶ Aggregate export targets were set by the state
 - ▶ Firm-level targets were negotiated with the firms

Year-Ahead Export Targets Were Good Predictors



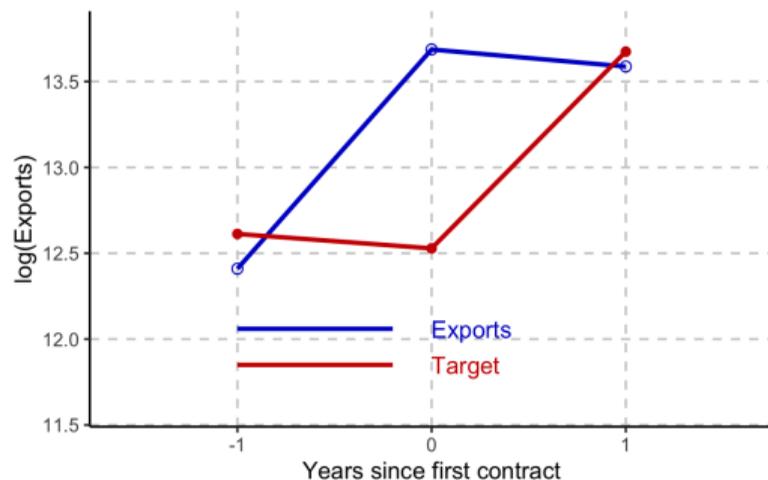
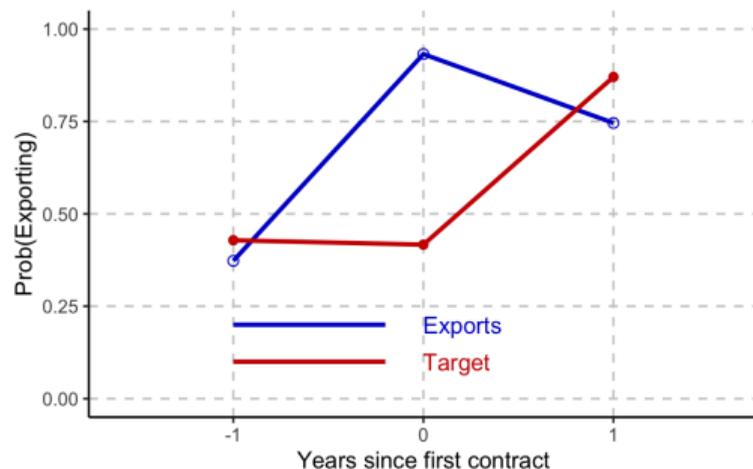
55% of obs: exports < target



Median target error: -0.09

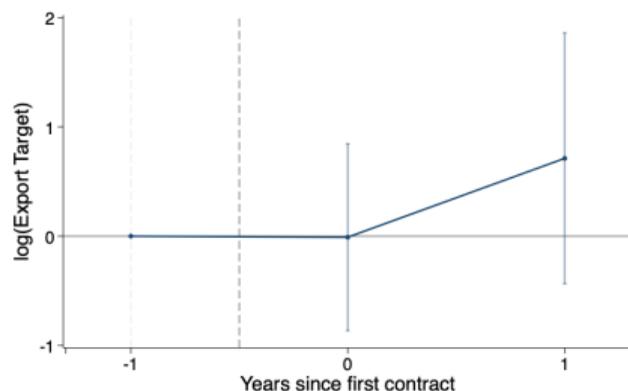
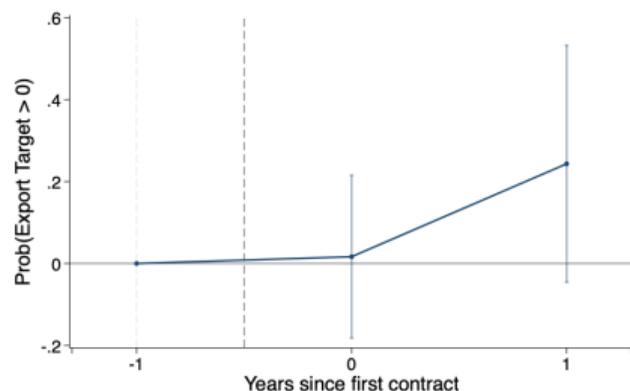
Mean target error: -0.18

Winning a contract was unanticipated



- Probability of exporting (left) and export volumes (right) jump at $t = 0$, but targets for $t = 0$, set in $t = -1$, do not

Event Study: Export Targets around the First Contract Win



- ▶ Using the de **Chaisemartin and D'Haultfœuille (2020)** estimator, export targets do not move differentially between treated and control firms in the event year
- ▶ Suggests that the Korean state did not select firms *ex ante*

▶ Parallel Trends

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Estimation

- ▶ Staggered event-study using the **Borusyak, Jaravel, and Spiess (2024)** estimator:

$$y_{i,t} = \sum_{h \neq -1} \tau_h 1\{K_{i,t} = h\} + \theta_i + \kappa_t + \varepsilon_{i,t},$$

where τ_h is the effect of firm i winning its first contract h years ago

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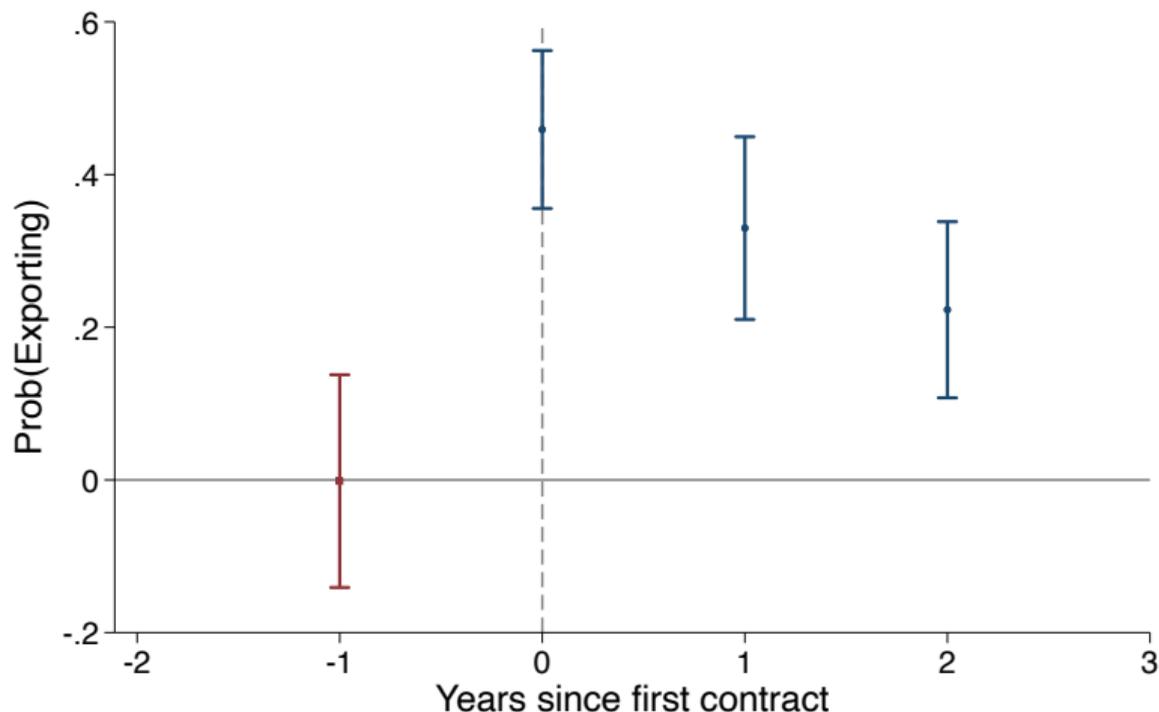
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- ▶ **Treatment:** timing of firm's first U.S. procurement contract, where G_i is the first contract year and $K_{i,t} = t - G_i$ is years from treatment
- ▶ **Two Main Outcome Variables:**
 - ▶ Extensive margin: Indicator for exporting more than \$100,000
 - ▶ Intensive margin: Log exports, censored at \$100K following **Chen and Roth (2024)**:

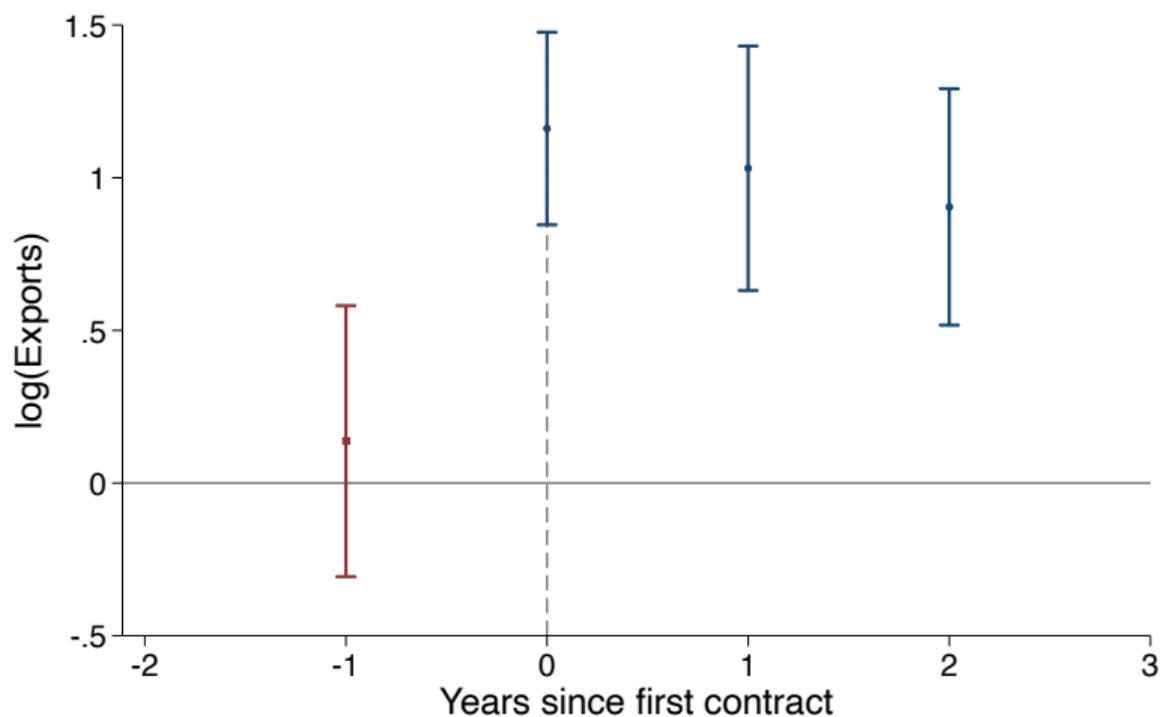
$$y_{it} = \begin{cases} \log(100,000), & \text{if } \text{exports}_{it} < 100,000, \\ \log(\text{exports}_{it}), & \text{otherwise.} \end{cases}$$

Procurement contracts increase the extensive margin of exporting



- ▶ Winning a first contract raises the probability that a firm is exporting by 46pp

Intensive margin too



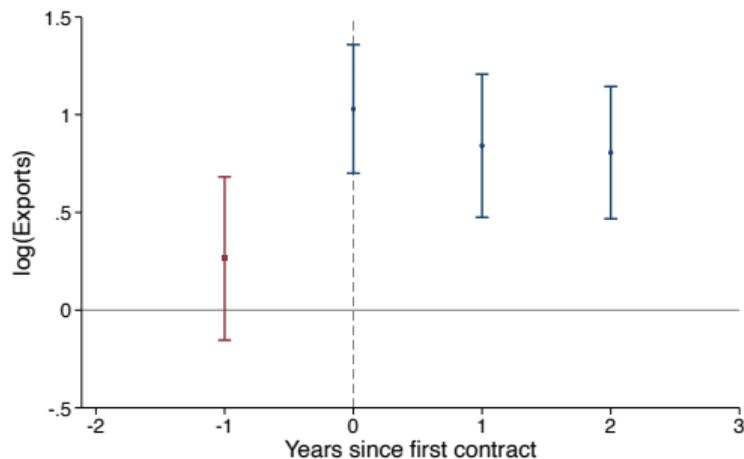
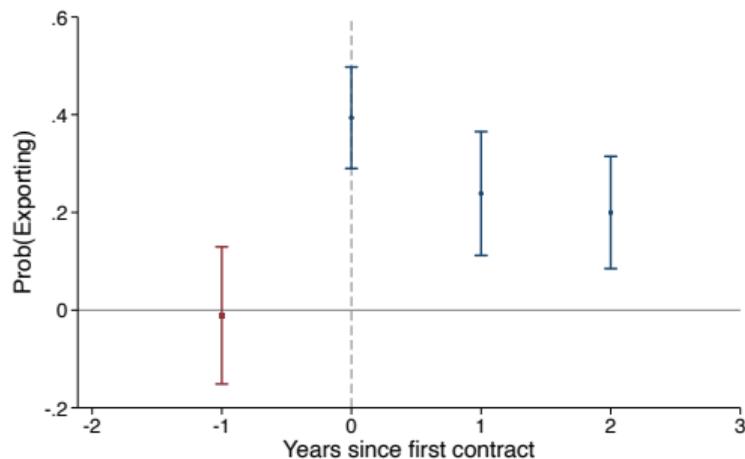
- ▶ Total export volumes increase by 1.2 log points \simeq 220%

Some Immediate Natural Concerns

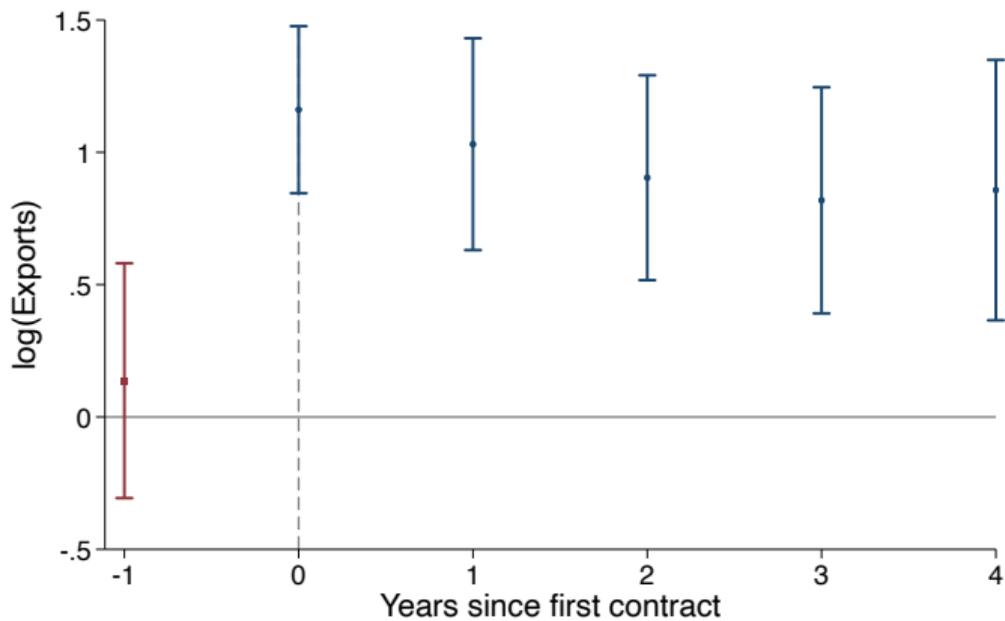
- ▶ Is this just mechanical? Does this just reflect exports to the US going up?
- ▶ Should we expect the effects of a demand shock to persist?

Effects Are Not Mechanical

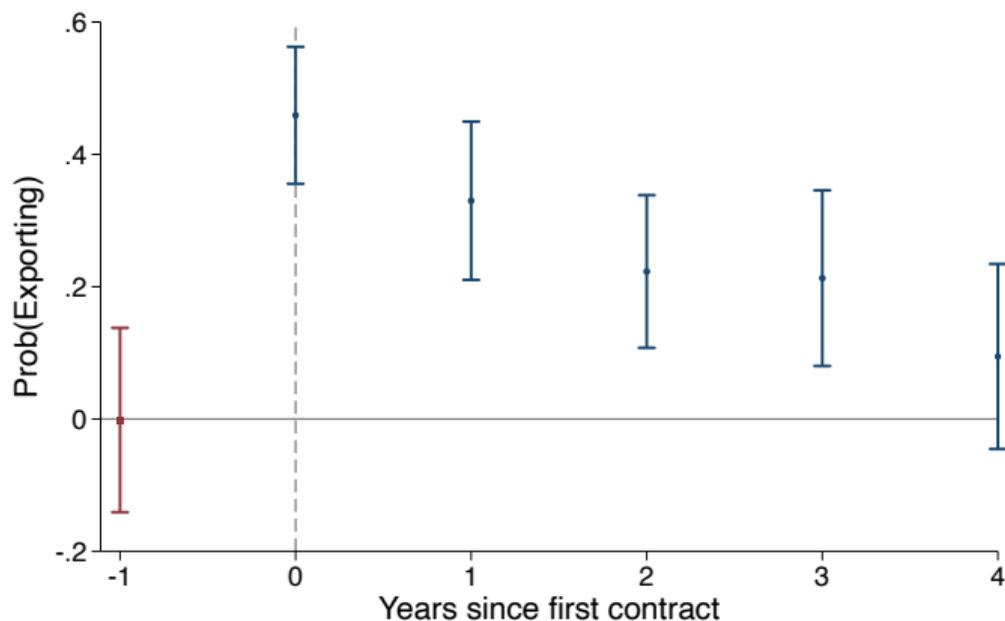
- ▶ Goods exports \neq service-dominated procurement contracts
- ▶ Effect on exports to other countries (rest-of-world, excluding the US) show similar effects:



Effects Persist For Years on the *Intensive* Margin



But Decay A Bit on the Extensive Margin



- ▶ Effects persist out to $h = 3$, but are no longer significant after
- ▶ Decay is likely partly driven by the control group catching up

Aggregate Effects

- ▶ We can gauge the overall impact of the procurement shock by applying some back-of-the-envelope calculation to our estimates
- ▶ On the extensive margin, procurement accounted for **68 additional exporting firms** by 1973—8.3% of large exporters
- ▶ Treated firms' exports would have been **~70% lower** without contracts
- ▶ Taken together, implies that procurement was responsible for **~20%** of Korea's total exports in 1973

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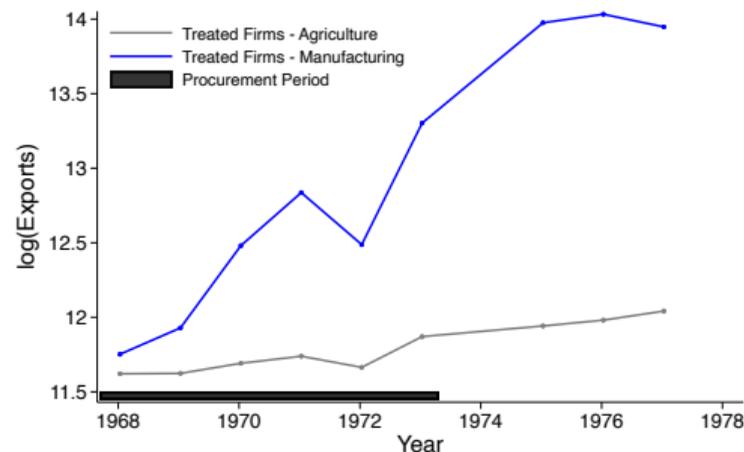
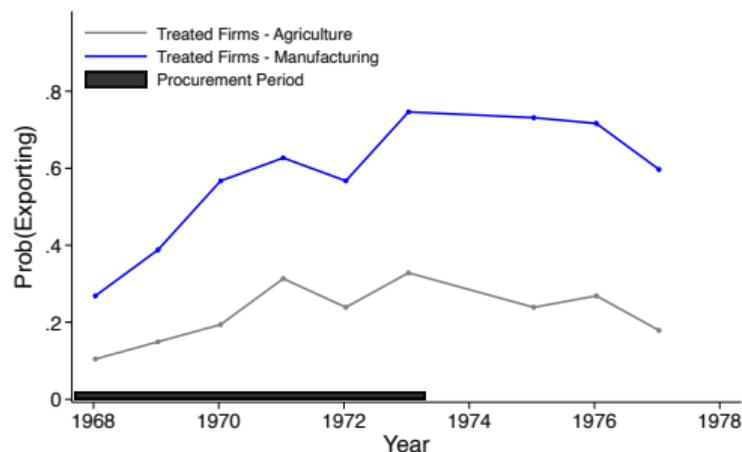
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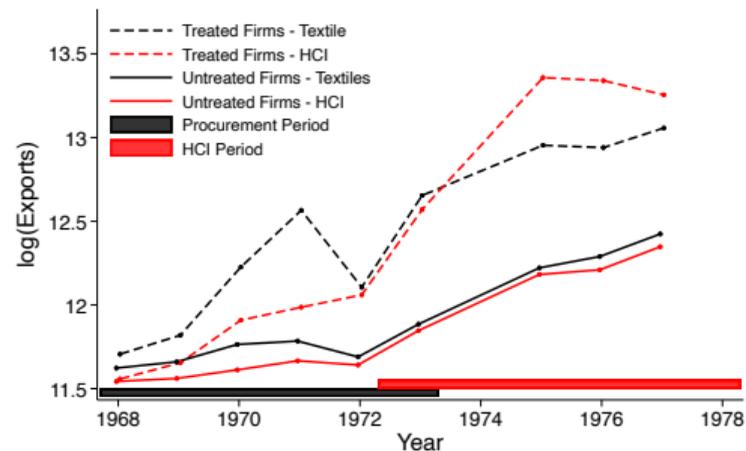
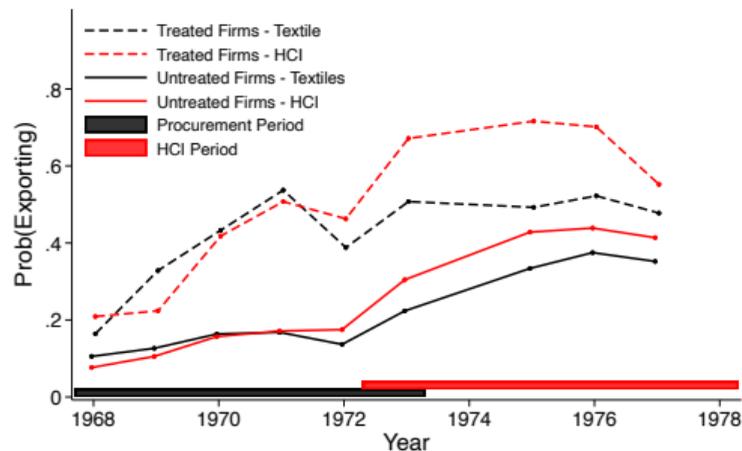
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What Sectors Benefited Most?



- ▶ Export growth in treated firms was concentrated in **manufactures**
- ▶ This raises the question: how did this interact with later Korean industrial policy? Most of all, the famous 1973 Heavy and Chemical Industry (HCI) Drive?

The Export Shock and Industrial Policy



- ▶ Pre-1973, treated firms experienced higher growth in **both** textiles and heavy and chemical industries
- ▶ Post-1973, HCI sector begins to pull away—suggests export shock and industrial policy were complements, not substitutes

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- ▶ U.S. military procurement had large, persistent effects on Korean firm exports
- ▶ Effects were broad-based—not just U.S.-bound—consistent with capability building
- ▶ Procurement responsible for ~20% of Korea's exports by 1973
- ▶ Potential lessons for modern export promotion (e.g., AGOA¹): procurement through firms may succeed where direct aid has not
- ▶ Future work to explore mechanisms and heterogeneity

¹African Growth and Opportunity Act

Thank you!

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Appendix

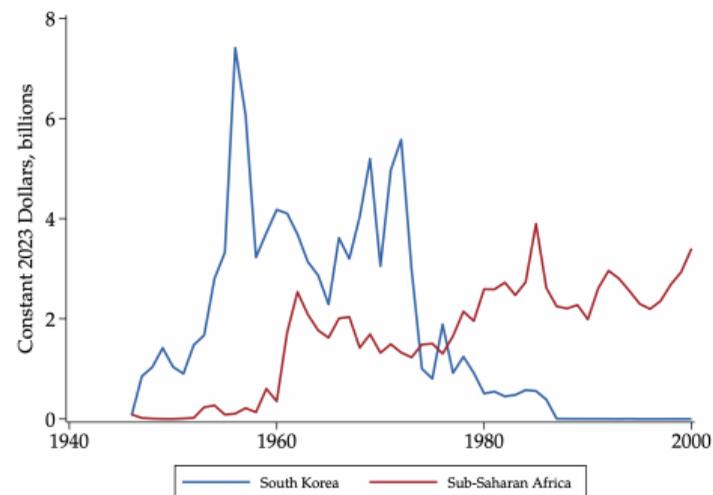
Where This Paper Fits in the Literature

- ▶ First quantitative analysis of how Cold War procurement shaped the East Asian miracle
 - ▶ Geoeconomics: Clayton et al. (2023), Kleinman et al. (2024), Mohr and Trebesch (2025)
- ▶ Adapts military procurement shocks (common in macro) to study external economic development
 - ▶ Ramey (2011), Nakamura and Steinsson (2014), Brunet (2024), Mitrunen (2025)
- ▶ New evidence that external demand fosters firm-level export capacity and long-run upgrading
 - ▶ Atkin et al. (2017), Hanlon (2020), Alfaro-Urena et al. (2022)
- ▶ Highlight a neglected channel of aid—government procurement through firms, not fiscal transfers
 - ▶ Easterly (2003), Casey et al. (2012), Qian (2015)

Understudied (Huge) Role of U.S. in East Asian Development

- ▶ From 1946–1978, South Korea received \$12.6 billion in US aid
- ▶ All of Africa received \$6.9 billion
- ▶ In 1961, US aid was approximately 12% of Korean GDP (73% of imports)

▶ Go Back



Parallel Trends

Should not be correlated
with treatment

- ▶ Firm i 's target $T_{i,t+1}$ for year $t + 1$ (set in year t) is given by

$$T_{i,t+1} = \alpha_i + \beta_{t+1} + r_{i,t}$$

reflecting firm characteristics, market-wide conditions, and temporary firm-specific factors $r_{i,t}$

- ▶ An event study on selection:

$$T_{i,t+1} = \alpha_i + \beta_{t+1} + \sum_{\ell=0,1} \delta_{\ell} \cdot 1\{(t+1) - G_i = \ell\} + \varepsilon_{i,t+1},$$

where G_i is the first contract year

- ▶ The parallel trends assumption means $\delta_0 = 0$
 - ▶ $\delta_1 > 0$ implies that export targets incorporate information about the procurement shock's effect on exports, but only after the contract has been awarded

Identifying Assumption, Again

- ▶ $Y_{it}(0)$: firm i 's exports **absent treatment**, reflecting firm characteristics, market-wide conditions, and temporary firm-specific factors u_{it} , given by

$$Y_{it}(0) = \theta_i + \kappa_t + u_{it}$$

- ▶ **Parallel trends:**

$$\mathbb{E}[Y_{it}(0) \mid \theta_i, \kappa_t, G_i] = \theta_i + \kappa_t \quad \text{for all } i, t$$

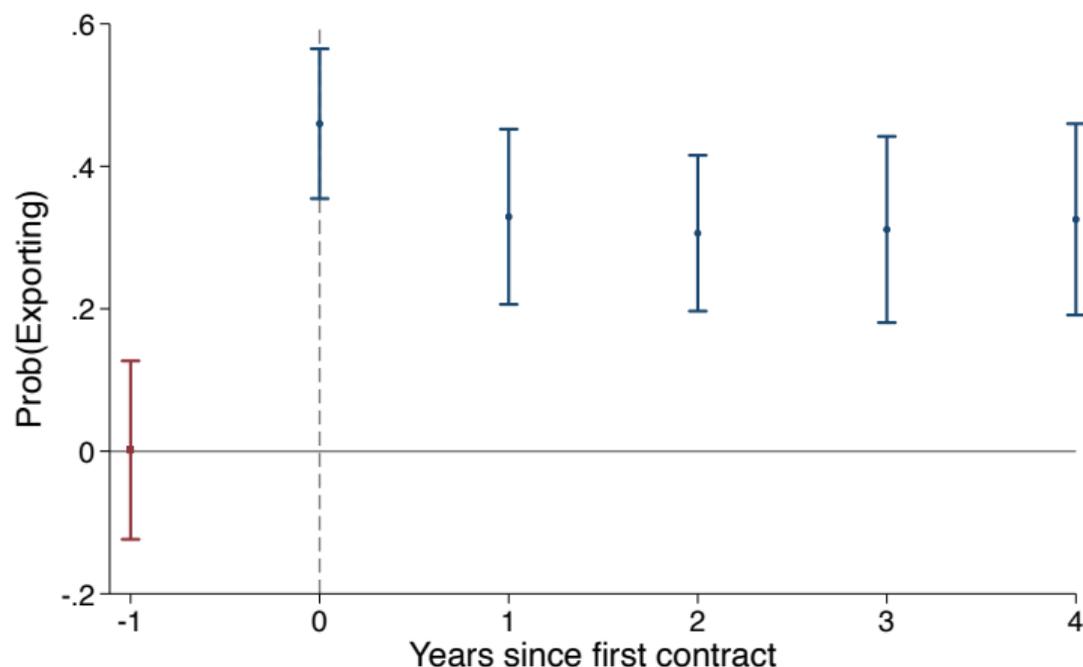
which is

$$\mathbb{E}[u_{it} \mid G_i] = 0$$

- ▶ **No anticipation:**

$$Y_{it} = Y_{it}(0) \quad \text{for } t < G_i$$

Persistence of Exports (Restricted Sample)



- ▶ Restricting the sample to firms that exported before 1969 helps avoid mechanical catch-up in the control-group