Control through Empowerment: Evidence from Nation-Building in Soviet Central Asia

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June 2023

Motivation: Colonization, development, and conflict

- Throughout colonial history, empires relied on a combination of coercion and cooptation
 - The question of whether to invest in local development sparked heated debates
 - Much of them focussed on the moral aspects of the "White Man's Burden" (Rudyard Kipling, 1899), but a large part of them considered economic and political considerations
- One key political-economy issue in this debate was whether political and cultural empowerment of colonies threatened the empire's existence

We want to shed light on it using a unique historical experiment conducted by Bolsheviks in Central Asia

Motivation: From the Russian Empire to the USSR

The 1917 Revolution made the Soviet state an heir of the Russian Empire

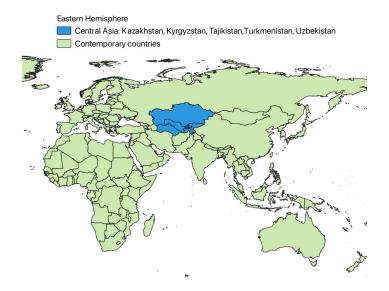
- For economic, political, and military reasons, the Bolsheviks were determined to keep control over the Empire's colonies
 - Formally, Communist ideology condemned imperialism
 - Independence movements during the civil war showed that the Bolsheviks were unable to keep the centralized control
- The Bolsheviks turned empire building on its head by empowering colonial indigenous groups with autonomy
 - a union of autonomous nations rather than a unitary centralized state
 - Several republics within the USSR were comprised of groups that had well-defined preexisting national identity, such as Ukrainian Soviet Republic (1917)

Motivation: The Inception of Central Asian States

- The formation of the USSR also involved creating five Central Asian republics from scratch
- Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan
 - without pre-existing borders
 - without pre-existing national identities
 - clan, lineage, and religion were the primary identities
 - with few written languages
 - widespread illiteracy (e.g., Bartold 1927)

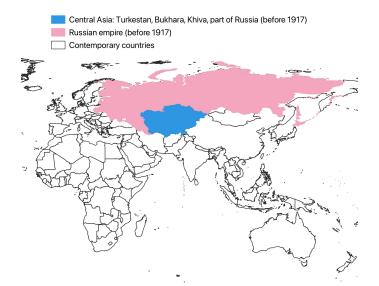
Introduction

Where is Central Asia? Contemporary map



Introduction

Where is Central Asia? Russian Empire before 1917



Soviet Experiment in Central Asia in the 1920s

Three components of the reform (launched in 1924–1925):

Geography: Delimitation that created republic borders in Central Asia

Politics: Political empowerment of the "titular nation" in each republic

- Official recognition of their autonomy within the Soviet Union, de facto the establishment of nation states
- Preferential access to resources and government / party jobs for the titular national group
- **Development:** Large-scale development policies
 - One of the largest liquidation of illiteracy campaigns in history
 - School construction, the creation of written languages, and promotion of local culture

Research question and preview of the main results

Aim:

- Shed light on the effect of the creation of Central Asian republics on:
 - Nation building of Central Asian nations
 - 2 Stability of the Soviet empire
 - local riots, protests, and conflicts
 - between groups and against the state

Preview:

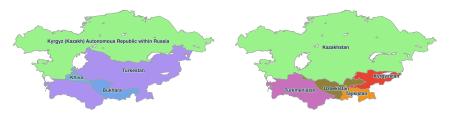
- Borders were drawn very carefully according to homelands of linguistic groups
- Naming patterns and identities reported in censuses suggest that reform caused stronger identification with titular national groups
 - Education was an important channel
- Reform was associated with a reduction of instability in parts of Central Asia that which got local autonomy at this time compared to those areas that got local autonomy earlier
 - At a cost of a sharp increase in discontent and protests among Europeans, who settled in North Kazakhstan by the 1900s

Map of Central Asia Before the Reform



Map of Central Asia After the Reform





- **Before 1924 reform:** Two different national projects in Central Asia after the empire collapsed: (1) the Kazakh nation and (2) the Muslims of Turkestan" (Khalid 2021)
 - Pre-1924 North Kazakhstan (NK): was part of Russia not Central Asia
 - Colonized earlier; voted to join Russia as autonomous region before Oct 1917
 - 1920: Kyrgyz ASSR within Russia (Kazakhs were called Kyrgyz then)
 - "The national principle is completely alien to local... traditions" [of Turkestan] (Bartold 1925)
- After 1924 reform: New borders, new ethnic identities everywhere, arguably with the exception of North Kazakhstan

Contribution to the Economic Literature

Rohner and Zhuravskaya (2023) (ed.) CEPR volume describing the state-of-the-art in the literature on nation building

- National self-identification
 - Alesina & Spolaore 1997, 2003; Alesina et al. 2011; Michalopoulos & Papaioannou 2016; Bandyopadhyay & Green 2013; Bazzi et al. 2019
 - \rightarrow The opposite to the image of the "Artificial States"
- Nation-building policies
 - Alesina & Reich 2015; Bandiera et al. 2019; Fouka 2019
 - \rightarrow Soviet Central Asian development policies were unprecedented in scope
- Population heterogeneity and conflict
 - Easterly & Levine 1997; Alesina et al 2016; Bazzi & Gudgeon 2021; Lecce et al. 2022
 - \rightarrow Evidence that reform worked less well in more polarized places

Historical Debate on Soviet Nationalities Policy

Data

Several building blocks of the data: panel of grid cells

Digital maps

- Drawn from official paper maps
- Takeing into account multiple re-drawings of borders borders
- 2 Nation-Building
 - Short-term outcome: Names of WWII draftees
 - Birth or draft district
 - Medium-term outcome: Self-reported ethnicity from censuses
 - Post-reform ethnic composition, 1926 and 1939
 - Medium-term inputs: Soviet statistics
 - Various years during 1914 1940 (mostly in the 1930s), regional (more aggregated) panel data
 - Stability
 - Declassified secret police (NKVD) reports, 1922 1934
 - 16 volumes of text describing the local situation on the ground within the union with special section devoted to Central Asia
 - Grid cells of 0.1×0.1 degree resolution grid cells

How to find a counterfactual?

• One candidate: "Russian Belt" - areas in Russia just north of North Kazakhstan

- No reform, but could be considered by Russian part of the population as Metropole, which may disqualify it as a suitable comparison group
- No data on stability for this region
- Another candidate: North Kazakhstan
 - The reform defined the titular national group in newly created republics in Turkestan, Khiva and Bukhara area
 - This changed the political status of every citizen: titular / non-titular
 - In contrast, arguably, the reform did not change the status of residents of North Kazakhstan locally:
 - Kazakhs were the titular national already starting in 1920; and they developed distinct ethnic identity earlier
 - If one could abstract from expectations about which groups should be empowered, it is a valid control group

Which groups should have received autonomy?

Were there any groups that hoped to get autonomy and did not? The unmet expectations could spark conflict and backlash against nation building

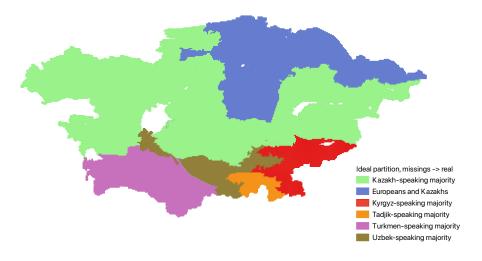
- Design a local-search algorithm to construct an "ideal division" into republics
- Allowing for their endogenous number
- Using data on pre-reform local linguistic composition and apply the following criteria:
 - Minimize segregation (= maximize similarity in local linguistic composition)
 - subject to economies of scale à la Alesina & Spolaore (2003)

▶ Algorithm details ► Linguistic composition maps – input to the algorithm

Data

Ideal partition: an outcome of the algorithm

allocate missing data to real partition: 6 states, not 5!



Compare to real division

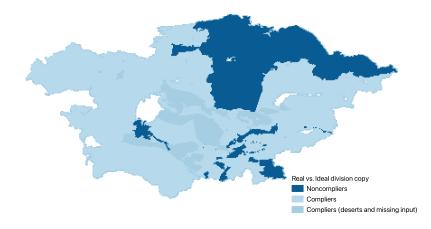
Opposite of "Artificial states" !



Data

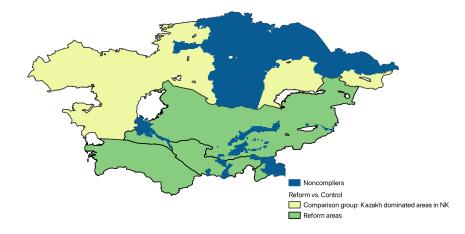
Compliers vs. Noncompliers

Noncompliers may be particularly unhappy about the reform



Reform vs. Control vs. Noncompliers in Reform/Control

Use Kazakh-dominated areas as in North Kazakhstan a "Fixed Point"



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Nation-building outcomes and inputs

Two competing objectives: (1) Creating nation-states and (2) Sovietization

Nation-building outcomes and inputs data

Short-run outcome:

- Classify first names: Titular National, Muslim, Russian, or Soviet
 - All WWII draftees born 1919-1927 (from Pamyat Naroda)
 - Ethnic names: using Forebears.io Onograph API, Memorial, and BehindtheName.com
 - Soviet and Muslim names: using available lists
 - First name choice of identity; last name pre-existing ethnicity

Medium-run outcome:

- Share of self-reported titular nationals
 - Ethnic definition: 1926, 1939 censuses (both after the reform)
 - Linguistic definition: 1922, 1926 censuses

Inputs:

- Educational inputs: schools, teachers, and pupils
- Cultural inputs: theaters, museums, and cinemas
 - Regional-level panel in constant 1939 administrative borders
 - Unbalanced, for years: 1914, 1927, 1933, 1938, 1939, 1940, 1941

Examples of titular national names

5 most popular:

Kazakh:	Tulegen, Murat, Uzarbai, Kudaybergeny, Kusain
Uzbek:	Yuldash, Irgash, Dzhura, Bazar, Ergash
Tajik:	Safar, Radzhab, Dzhuma, Khaidar, Khol
Kyrgyz:	Mukash, Mamat, Dzapar, Dzumabek, Satar
Turkmen:	Chary, Durdy, Oraz, Ovez, Redzhep
Russian:	Ivan, Nikolai, Vasily, Alexander, Mikhail
Muslim:	Abdullah, Ibrahim, Ahmed, Abdurahman, Mukhamed
Arabic:	Sultan, Hasan, Umar, Khakim, Said

Examples of Soviet popular names: Vilen, Vladlen, October, Marx, Engels, Karl, Ismat, Rem, Marat, Miron, Mirza, Kim, Maxim, Lev, Leon, Vladimir

First Names: Central Asians in Reform vs Control

Draftees with Central Asian father in Turkestan, Khiva and Bukhara vs. North Kazakhstan

Sample:			Centra	l Asian Last N	Names Only	,				
Dep. Var.:	Probability that First Name is:									
	Titular National		Soviet		Russian		Muslim			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		
Panel A: Average effect, Sample: Compliers										
Post × Reform	0.0138***	0.0081**	-0.0056***	-0.0070***	-0.0012	-0.0011	-0.0009	0.0009		
	(0.0031)	(0.0037)	(0.0016)	(0.0016)	(0.0014)	(0.0017)	(0.0024)	(0.0028)		
R ²	0.184	0.264	0.091	0.280	0.022	0.101	0.053	0.134		
Panel B: Heterogeneity by Father's Ori	gin, Sample:	Compliers								
Post × Reform	0.0189***	0.0168***	-0.0125***	-0.0157***	-0.0008	-0.0003	0.0004	0.0029		
	(0.0041)	(0.0051)	(0.0021)	(0.0023)	(0.0019)	(0.0024)	(0.0032)	(0.0039)		
Post \times Reform \times Titular National Father	-0.0194***	-0.0173**	0.0126***	0.0157***	-0.0009	-0.0021	-0.0002	-0.0026		
	(0.0063)	(0.0073)	(0.0031)	(0.0032)	(0.0029)	(0.0034)	(0.0048)	(0.0056)		
R ²	0.185	0.264	0.091	0.280	0.022	0.101	0.053	0.134		
Mean Dep. Var.	0.246	0.252	0.043	0.039	0.034	0.035	0.103	0.108		
SD Dep. Var.	0.431	0.434	0.204	0.194	0.181	0.183	0.304	0.310		
Observations	367,964	338,322	367,964	338,322	367,924	338,285	367,964	338,322		
District and Birth-Year Fixed Effects	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
All Double Interactions	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Father's First Name Fixed Effects	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark		
Father's Last Name is TN	\checkmark		\checkmark		\checkmark		\checkmark			
Father's Last Name Fixed Effects		\checkmark		\checkmark		\checkmark		\checkmark		

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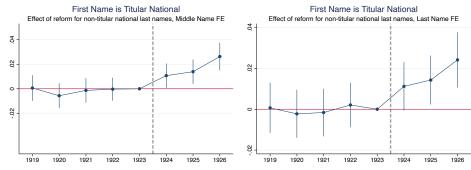
Event Studies: First names

The effect of reform on Central Asians with last names that are not titular national

Conditional on father's:

First Name

Last Name



First Names: Russians in Central Asia

Draftees with Russian father in Central Asia vs. Russian Belt

Sample:		Russian Last	Names Only				
Dep. Var.:	Probability that First Name is:						
	Sov	viet	Rus	sian			
Panel A: Sample: Russian Belt v	s. North Kazakhstar	1					
Post \times Control \times Noncomplier	-0.0038*	-0.0036*	-0.0164***	-0.0157**			
	(0.0020)	(0.0021)	(0.0029)	(0.0031)			
$\text{Post} \times \text{Control} \times \text{Complier}$	0.0063**	0.0118***	-0.0165***	-0.0145**			
	(0.0029)	(0.0032)	(0.0042)	(0.0046)			
Mean Dep. Var.	0.086	0.086	0.657	0.661			
R ²	0.020	0.093	0.287	0.328			
Observations	996,014	954,407	995,803	954,233			
Panel B: Sample: Russian Belt v	s. all of Central Asia	I					
Post \times Control \times Noncomplier	-0.0045**	-0.0035*	-0.0152***	-0.0153**			
	(0.0020)	(0.0021)	(0.0027)	(0.0029)			
$Post \times Control \times Complier$	0.0058*	0.0114***	-0.0155***	-0.0144**			
	(0.0030)	(0.0032)	(0.0040)	(0.0044)			
$\text{Post} \times \text{Reform} \times \text{Noncomplier}$	0.0275***	0.0351***	-0.0167***	-0.0155**			
	(0.0024)	(0.0027)	(0.0032)	(0.0036)			
$\text{Post} \times \text{Reform} \times \text{Complier}$	0.0161***	0.0194***	-0.0144***	-0.0135**			
	(0.0022)	(0.0024)	(0.0029)	(0.0032)			
Mean Dep. Var.	0.089	0.089	0.580	0.588			
R ²	0.024	0.097	0.413	0.443			
Observations	1130641	1078671	1130074	1078187			
District and Birth-Year Fixed Effect (Father's) First Name Fixed Effects wer, Markevich, Zhuravskaya		√ ./ Soviat Control A sis	1	√ ./			

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Event Studies: Russians in Central Asia

The difference in the effects of reform on Russians choosing Soviet names in Noncomplier vs. Complier regions of North Kazakhstan:

Conditional on father's:

Last Name

First Name

First Name is Soviet First Name is Soviet Difference in the effect of reform for Russians in noncomplier and complier regions. Middle Name FE Difference in the effect of reform for Russians in noncomplier and complier regions. Last Name FE 8.

Was there migration?

Use father's names to find this out

Sample:		All draftees in Compliers of Reform and NK Control regions						
Dep. Var.:	Patronym	ic missing	Probability that Father's First Name is:					
			Titular	national	Russian			
	(1)	(2)	(3)	(4)	(5)	(6)		
Post × Reform	0.0175*** (0.0037)	0.0219*** (0.0025)	-0.0012 (0.0018)	-0.0007 (0.0014)	0.0059 (0.0055)	-0.0008 (0.0063)		
Mean Dep. Var. R ² Observations	0.538 0.220 340,452	0.527 0.816 290,562	0.023 0.016 140,416	0.021 0.656 120,984	0.333 0.004 146,852	0.342 0.321 126,342		
District and Birth-Year Fixed Effects Last name Fixed Effects	1	\ \	1	4	\checkmark	√ √		

- There is migration post-reform: Central Asias and Russians migrated to reform areas after the reform
- We account for this change with last and middle name fixed effects
 - Thus, results on first names should not be fully driven by migration
- There is anecdotal evidence that adult Central Asians also changed their first names

Local Share of Titular Nationals as Medium-run Nation-Building Outcome

Cross-section of the first difference in the local share of titular nationals as outcome:

Dep. Var. =	Difference in the local share of titular nationals (among Non-Europeans)					
Definition of titular nationals:		(among N 1926 and 1939 Ethnic	between 1922 and 1926 Linguistic			
	(1)	(2)	(3)	(4)		
Reform	0.084*** (0.029)	0.051 (0.053)	0.066 (0.070)	0.098* (0.056)		
$Control \times Non-Complier$	-0.062** (0.023)	-0.060** (0.024)	-0.021** (0.010)	-0.022** (0.010)		
Reform × Share Titular Language < 0.33 in 1922		0.177** (0.085)		0.277** (0.131)		
Reform \times Share Titular Language > 0.66 in 1922		-0.010 (0.055)		-0.245*** (0.069)		
Share Titular Language = 1 in 1922		-0.040 (0.030)		0.017 (0.072)		
Mean Dep Var in Reform Area in Base Year R ² Observations	0.69 0.11 34,999	0.69 0.21 34,999	0.64 0.02 34,281	0.64 0.32 34,281		

 Reform regions converged with North Kazakhstan in rates of identification with titular national group, particularly in areas where they were not a super-majority to start with

▶ A Bird's Eye View of Population Changes: 1926 – 1939

Nation-building Inputs by Central Asian Republic

No. of Schools		
1914	1939	
160	4524	
58	1291	
10	3834	
107	1754	
2011	8381	
	1914 160 58 10 107	

- Soviets invested a lot in education everywhere, but differentially more in reform regions Results
- INPRES reform in Indonesia (Duflo 2001) was modeled after Soviet development of Central Asia
 - Several aspects of the Soviet achievement more impressive than INPRES: more schools per capita built, starting from a much lower base, and not just primary schools

Are nation-building inputs important mediators?

Dep. Var. =	Local share of titular nationals among non-Europeans, 1926 and 1939							
-	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Reform × Year=1939	0.072** (0.032)	0.028 (0.039)	0.052 (0.036)	0.044 (0.036)	0.104** (0.040)	0.080** (0.036)	0.083** (0.037)	
Control \times Non-Complier \times Year=1939	-0.122** (0.058)	-0.138** (0.057)	-0.134** (0.057)	-0.129** (0.056)	-0.128** (0.056)	-0.117* (0.057)	-0.125** (0.054)	
No. of Schools (in logs)		0.046*** (0.017)						
No. of Teachers (in logs)			0.034** (0.015)					
No. of Pupils (in logs)				0.036*** (0.011)				
No. of Theaters					-0.010 (0.008)			
No. of Museums						-0.025* (0.014)		
No. of Cinemas							-0.001** (0.000)	
Regional population (in logs)	0.106** (0.041)	0.030 (0.036)	0.022 (0.037)	0.020 (0.036)	0.119*** (0.036)	0.122*** (0.033)	0.110** (0.026)	
Cell & Year FEs	\checkmark	\checkmark	\checkmark	\checkmark	~	\checkmark	~	
Mean Share of dep. var in Reform Area in 1926 \mathbb{R}^2	0.69 0.31	0.69 0.32	0.69 0.32	0.69 0.32	0.69 0.31	0.69 0.32	0.69 0.34	
Number of Clusters Observations	31 70,350	31 67,865	31 67,865	31 67,865	31 68,445	31 68,445	31 68,445	

• Education mediates the effect of the reform, while cultural inputs do not

• Education increased human capital and promoted local identity (in addition to Soviet one)

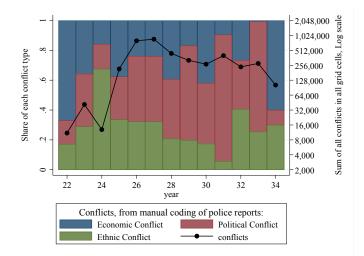
• Cinemas promoted Soviet identity, as movies were produced in the center (?)

Manual classification of conflicts from secret police reports

- 16 volumes of text describing the local situation on the ground within the union with special section devoted to Central Asia
 - Classify them manually and using machine text analysis (LDA) examples
- Broad definition: local tensions between groups of agents, individuals or the state
- Total of 5,430 entries in the conflict dataset in Central Asia
- Classified of all conflicts into:
 - **Political conflicts:** expressions of discontent with and riots (or insurgency) against the Soviet power or its local representatives
 - Ethnic conflicts: tensions and conflicts between different clans or groups
 - Other, for instance, economic, such as land disputes
- Geolocalized to the corresponding administrative unit and year mentioned in the report
- Aggregated conflict data into indices, dividing by the maximum number of mentions of any conflict over all grid cell × year

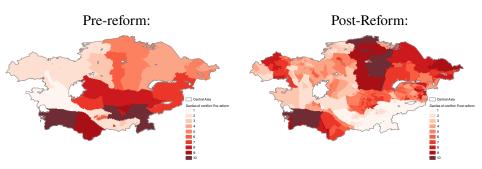
Conflict increased after the reform, then subsided

We want to see how it is distributed spatially



Similar pattern with LDA-coded conflict

Spatial distribution of conflicts



Legend: shades represent deciles

Results

Decline in conflict relative to compliers in control European backlash

Dep. Var. =		Ethnic Conflict Index				Political Conflict Index			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Post $ imes$ Reform	-0.031** (0.012)	-0.019** (0.008)	-0.018** (0.008)	-0.021** (0.009)	-0.035** (0.016)	-0.019* (0.011)	-0.017 (0.011)	-0.024** (0.010)	
$\text{Post} \times \text{Control} \times \text{Non-Complier}$		0.031*** (0.008)	0.031*** (0.008)			0.041*** (0.005)	0.041*** (0.005)		
$\text{Post} \times \text{Reform} \times \text{Non-Complier}$			-0.002 (0.002)				-0.017 (0.012)		
$\text{Post} \times \text{Control} \times \text{Share Europeans}$				0.040*** (0.011)				0.054*** (0.014)	
$\text{Post} \times \text{Reform} \times \text{Share Europeans}$				0.009*** (0.003)				0.050 (0.041)	
Cell & Year FEs, 1922 Rep. Trends	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Mean Dep. Var. R ² Observations	0.02 0.20 532,974	0.02 0.22 532,974	0.02 0.22 532,974	0.02 0.21 532,974	0.03 0.26 532,974	0.03 0.27 532,974	0.03 0.27 532,974	0.03 0.27 532,974	

- Large fall in conflict in the Reform area relative to North Kazakhstan, yet
- A much smaller decline in conflict relative to Compliers in North Kazakhstan (44% of SD for Economic and 27% of SD for Political Conflicts)
- Increase in conflict for noncompliers in NK: Unmet expectations for autonomy? Worsened discrimination of Europeans?

 Noncompliers in NK are Europeans

Acknowledgement of cost of the reform for Russians

Nikolai Bukharin (1923):

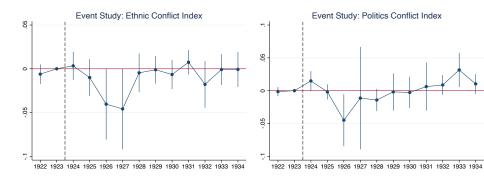
"As the former Great Power nation [Russians], we should indulge the nationalist aspirations [of the non-Russians.] Only by placing ourselves artificially in a position lower in comparisons to others can we purchase for ourselves the trust of formerly oppressed nations."

(XII Congress (1923), 613 in Martin 2001, p. 17.)

Results

Event Studies: Conflicts in Reform Group

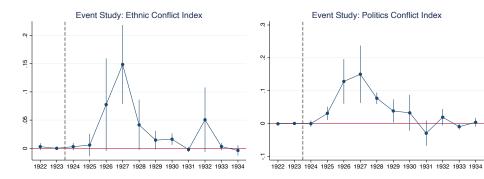
Relative to Compliers in North Kazakhstan



Results

Event study: Conflict for non-Compliers in Control

Relative to Compliers in North Kazakhstan



 Adjustments to the reform: creation of local autonomous districts around 1928, particularly in noncomplier areas, which did appease ethnic tensions

Details of Reform adjustments Results on Reform adjustments

Results

Heterogenous effects by local linguistic polarization

Dep. Var. =	Ethnic Conflict Index Political Conflict In				
Dep. var. =					
	(1)	(2)	(3)	(4)	
Post × Reform	-0.014*	-0.014*	-0.030***	-0.030***	
	(0.008)	(0.008)	(0.010)	(0.010)	
Post × Control × Polarization	0.022***	0.025***	0.012***	0.012***	
	(0.005)	(0.005)	(0.004)	(0.004)	
Post \times Reform \times Polarization	-0.004	-0.004	0.042**	0.042**	
	(0.003)	(0.003)	(0.020)	(0.020)	
Post \times Control \times Non-Complier	0.016*	0.072	0.033***	0.048	
-	(0.008)	(0.073)	(0.006)	(0.052)	
$Post \times Control \times Polarization \times Non-Complier$		-0.071		-0.019	
		(0.088)		(0.062)	
Cell & Year FEs, 1922 Rep. Trends	\checkmark	\checkmark	\checkmark	\checkmark	
Mean Dep. Var.	0.02	0.02	0.03	0.03	
R ²	0.22	0.22	0.27	0.27	
Observations	531,349	531,349	531,349	531,349	

• Polarized localities in the Reform – smaller decline or increase of political conflict, not ethnic conflict: Blame the Soviets for singling out the other group among equals?

• No heterogeneity by the share of TN • Map: share of TN • Heterogeneity by shares of nomads and TN

Conclusions

The results suggest that the reform attained all three objectives: the control over the empire, development, and nation building

- The national delimitation was done very carefully taking into account the linguistic composition of local indigenous population
- The creation of Central Asian republics reduced ethnic and political conflicts relative to Kazakh-dominated areas in North Kazakhstan
- The Central Asian population that was not titular national started to identify as titular national
- The results do suggest that the reform paid off for the Soviets (despite the European revolt in North Kazakhstan) as Soviets managed to keep control for 70 years

APPENDIX

Examples of Conflict Data

Volume 1, 1922, Report 3, Turkestan

Enver Pasha remains to be a central figure uniting those who are against Soviet policy. In military terms, all his efforts, now, aim to construct a large armed calvary and regular army. Enver mobilized Bukharan Basmachi, whom he gradually armed with the help of Afghanistan, to the area around the city of Bajsum in the eastern part of Bukhara.

- Manual classification: "Crime," "Central Authority," "Open riot" → Political conflict
- Machine-learning classification: Classification probabilities heavily concentrated on one latent "topic" → LDA Topic Political conflict, organized

▶ back

Examples of Conflict Data

Volume 1, 1923, Report 3, Turkestan

In Poltoratsky subdistrict in Krasnovodsky district: The fighting between the Kyrgyz (Kazakh) and the Yomuds (Turkmen tribe) continues, it is becoming serious.

- Manual classification: "Cross-ethnic," "Ethnic discrimination" → Ethnic conflict
- Machine-learning classification: Classification probabilities heavily concentrated on one latent "topic" → LDA Topic Ethnic conflict

back

Examples of Conflict Data

Volume 5, 1927, Report 2, Kazakhstan

52. Dzhetysujskaya province. Russian peasantry of the Ittifak volost in Dzharkent district expresses discontent with the slowdown in land management. There are disputed plots of land, which are simultaneously claimed by both Russians and Kyrgyz. Discontent intensified after the provocative speech of the UZU (district land management) secretary, who pointed to the "hopelessness of the expectations of the Russians."

- Manual classification: "Cross-ethnic," "Land reform implementation," "Local official misbehavior," "Land resources" → Ethnic and Economic conflict
- Machine-learning classification: Classification probabilities spread relatively equally across three latent "topics" → Unclassified

▶ back

Data: Ethnic composition, pre-reform

To cover all of the Central Asia, collected data from different sources:

- 1920 Soviet population census with sub-district level data
 - Amu-Darya, Fergana, Samarkand, Syr-Darya provinces
- 1924 district-level survey for Bukhara and Khiva
- 1913 settlement-level data from a governor report for Semirechye province aggregated by sub-districts (+ 1921-22 Economic council reports)
- 1920-21 survey settlement-level data for a half of Kazakhstan aggregated by sub-districts
 - Bukeevsk, Aktyubinsk, Kustanaj, Turgaj provinces and Adaevsk district
- 1920 census district-level data for the rest of Kazakhstan
 - Aktyubinsk, Ural and Semipalatinsk provinces
- 1920 census district level-data for Turkmenistan

Empirical Strategy: Difference-in-differences

- Policy experiment
 - Group treated with the reform: Turkestan, Khiva, Bukhara
 - Naive Control group: North Kazakhstan

 \rightarrow Take difference in the differences in pre/post reform outcomes between treatment and control groups

Note: The first post-reform year is 1924 (two pre-reform observations)

- Identification
 - Assumption 1: In the absence of the reform, treatment and control would have had parallel trends
 - Historically-determined border between treatment and control
 - Endogenous timing?
 - Assumption 2: Reform did not affect the Control group
 - Unmet expectations of a large non-Kazakh group, i.e., Europeans?

Basic Econometric Specification: Diff-in-Diff

$$Conflict_Index_{gt} = \gamma Post_t \times Reform_g + X_{gt}\beta + \alpha_g + \phi_t + \epsilon_{gt}$$
(1)

- *Reform* is the National Delimitation Reform Area (one in all grid cells in Turkestan, Bukhara, and Khiva; zero in North Kazakhstan)
- Post the onset of the reform, 1924
- Conflict_Index stands for indices of ethnic and political conflict in a grid cell g at time t.
- γ is the effect of interest.
- α_g and ϕ_t are grid and year fixed effects.
- X is set of controls
 - 1922 Republic linear trends
 - In baseline, only a dummy for 1933 famine in Kazakhstan (killed about a quarter of the pre-famine population)
- Standard errors clustered at the administrative district level

Progress in Education: Sweden vs. Uzbekistan

Educational outcomes of two countries with six million citizens

	Literacy Rate	University Attendance	Secondary School Attendance	Primary School Attendance
	in 1914	in 1938	in 1938	in 1938
Sweden	99.7%	10,000	60,000	569,000
Uzbekistan	1.0%	17,500	179,000	916,000

Source: The Soviet Far East and Central Asia, Mandel, 1944

Implementation of National Delimitation in Central Asia (1924-1925)

- January 1924: Orgbureau of the Central Committee of the Communist Party discussed the delimitation that gave the start of the reform
- February March 1924: Approved by Communists Parties of Bukhara, Khiva and Turkestan
 - Bukhara was split b/w Uzbekistan, Tadjikistan, Turkmenistan; Khiva was split b/w Uzbekistan and Turkmenistan
- June 1924: Approved by the Politburo of the Communist Party in Moscow
- Territory commission in Tashkent with national sub-commission on the ground in charge of border drawing
 - Moscow intervened only once and resolved the belonging of Tashkent
- October 1924: official announcement
- May 1925: Approved by the 3rd Soviet Congress in Moscow

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Central Asia after the Russian Revolution

- Some discussion and preparations for national delimitation reform back to 1918
 - 1918: Turkestan Autonomous Republic (multi-ethnic)
 - 1918: Uzbek and Kazakh became official languages of Turkestan in addition to Russian; in 1919 Turkmen language was added
 - 1919: separate national departments for Uzbeks, Tadjiks, Turkmens, Kazakhs, Tatars, Ukrainians and Armenians were established within Turkomnats (Ministry of Nationalities of Turkestan) etc.
- 1920: Bolsheviks took control over Bukhara and Khiva (that used to be outside of the Russian empire)
- 1920: Kyrgyz (Kazakh) Autonomous Republic in North Kazakhstan
- By late 1923 Basmachi (anti-Soviet national movements) were largely destroyed
- Late 1923 early 1924: national oblasts in Khiva and Bukhara

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Official "Culturally-backward" Groups

- 97 nationalities of the Soviet Union, including all (non-European origin) Central Asian nationalities, were considered culturally backward because they met the following categories:
 - Low level of literacy
 - 2 Low school enrollment
 - 3 Absence of written script with single literary language
 - Presence of social vestiges: oppression of women, religious fanaticism, nomadism, racial hostility, clan vengeance
 - Solution Lack of specialists (national cadres of Soviet construction)
- The Bolsheviks claimed that national delimitation would promote building of Soviet nations in Central Asia and contribute to their development

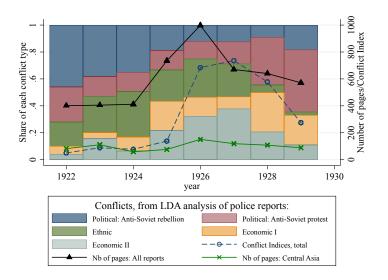
Machine-learning Classification of Conflicts (LDA)

- Use all paragraphs that mention conflicts in Central Asia in all volumes of top secret reports before 1929
 - In 1929, the structure of the report changed
 - Use whole paragraphs in which text on Central Asia appears
- Perform Latent Dirichlet Allocation (LDA)
 - Unigrams, bigrams and trigrams
 - Summarize each "topic" using top 20 factor loadings
- Assign each entry, as before, to the corresponding administrative and time unit on the map (sub-district, district)
- Assign a topic for each entry if its probability is >50%
- Sum up over entries and topics by grid cell and year, normalize by the largest sum of all topics in any *g* and *t*

LDA: 5 Topics

- Topic 1: Political: Anti-Soviet rebellion, organized movements
- Topic 2: Political: Anti-Soviet protests, class conflicts, spontaneous
- Topic 3: Ethnic conflicts
- Topic 4: Economic conflict, rural: distribution of cattle and grain
- Topic 5: Economic conflict, poverty and inequality

Composition of LDA topics by year



▶ back to main slides

Castañeda Dower, Markevich, Zhuravskaya

Nation-Building in Soviet Central Asia

Ethnicities to Nations

- Language identification as a criteria for national republics
- But not always
 - Sarts became Uzbeks (same for Kurama)
 - Uyghurs, Kipchaks, Dungans and other small groups (in contrast to Karakalpaks) did not get their national autonomies
 - Kazakhs were first set up under the name of Kyrgyz, and Kyrgyz under the name of Kara-Kyrgyz



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Entries by year and geolocation

		Share of entries geo-specified				
Year	Number of	at least as precise	at least as precise			
	entries	as district level	as subdistrict level			
1922	101	0.27	0.22			
1923	166	0.34	0.22			
1924	163	0.26	0.15			
1925	261	0.78	0.69			
1926	824	0.86	0.78			
1927	878	0.85	0.71			
1928	823	0.74	0.48			
1929	774	0.80	0.47			
1930	303	0.84	0.64			
1931	538	0.83	0.78			
1932	198	0.81	0.70			
1933	176	0.68	0.60			
1934	223	0.78	0.70			
Total	5430	0.77	0.61			

The reform and the precision of conflict information

Dep. Var. =	Precision Index		Precisi	Precision Index		Precision Index	
	All Conflict		Ethnic Conflict		Political Conflict		
	All levels	Subdistrict/	All levels	Subdistrict/	All levels	Subdistrict/	
		Settlement		Settlement		Settlement	
	(1)	(2)	(3)	(4)	(5)	(6)	
$Post \times Reform$	0.049 (0.067)	-0.066 (0.138)	0.014 (0.051)	-0.031 (0.137)	0.118** (0.049)	-0.136 (0.137)	
Post \times Share Titular National (bottom)	0.042** (0.017)	0.137* (0.071)	0.106** (0.041)	0.092 (0.084)	0.023 (0.029)	0.021 (0.058)	
$\text{Post} \times \text{Control} \times \text{Non-Complier}$	-0.160* (0.094)	0.326** (0.140)	-0.027 (0.033)	0.132** (0.061)	-0.034 (0.046)	0.248*** (0.058)	
1922 Rep. Linear Trends	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Interactions with No Conflict Dummy	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	
Mean Dep. Var. R ²	0.23 0.40	0.22 0.50	0.21 0.44	0.09 0.65	0.20 0.50	0.013 0.61	
Number of Clusters Observations	41 531,349	41 531,349	41 531,349	41 531,349	41 531,349	41 531,349	

- Precision of geolocation of conflicts is going up, primarily to subdistrict and district levels in reform areas.
- Precision at the settlement level requires more titular nationals.
- Even columns show that we may be underestimating the effect of the reform.

Summary Statistics

	Mean	St. Dev.	Min	Max	Ν
Ethnic Conflict Index	0.017	0.043	0	0.532	532974
Political Conflict Index	0.030	0.071	0	0.956	532974
Reform Group	0.365	0.482	0	1	40998
Share Titular National	0.738	0.298	0	1	38409
Complier	0.717	0.451	0	1	40873
Adjustment Group	0.060	0.238	0	1	40998
Share Europeans	0.188	0.260	0	1	40998
Polarization Index	0.377	0.370	0	1	40998
Share Nomads	0.718	0.337	0	1	35448
Share Urban Pop.	0.073	0.119	0	1	29933
Share Illiterate Pop.	0.942	0.050	0.554	1	7697

Adjustments of Reform in Central Asia (1/3)

- Adjustments of the reform started right after the reform, but the major ones occurred in 1928
- The major adjustment of 1928:
 - National districts for minorities in national republics if they were local majorities: Russians, Ukrainians, Uzbeks, Kazakhs, Uyghurs etc.
- Other adjustments:
 - February 1926: Kara-Kyrgyz Autonomous Oblast was updated to Autonomous Republic and changed the name to Kyrgyz
 - October 1929: Tadjik Autonomous Republic was updated to Union Republic and got Khodzhent region
 - December 1936 (beyond of the period we have data for): Kyrgyz and Kazakhstan Autonomous Republic were updated to Union Republics

Results on Reform adjustments Back

Local Autonomy within Autonomous Nations: Who obtained adjustment? (1/2)

- Adjustments to the reform at lower-level administrative units
- Administrative districts received autonomy in 1928
 - Titular national districts for Russians and Ukrainians
 - but also Uyghurs, Karakalpaks, as well as Turkmens, Kyrgyzs, Kazakhs, Uzbeks in other republics

Dep. Var. =	Obtained Adjustment					
	(1)	(2)				
Reform Group	0.069	0.091				
	(0.067)	(0.074)				
Control × Non-Complier	0.093**					
	(0.039)					
Reform × Non-Complier	0.025					
	(0.066)					
Control × Share Europeans		0.161***				
		(0.058)				
Reform × Share Europeans		-0.245				
		(0.237)				
Mean Dep. Var.	0.06	0.06				
R ²	0.03	0.04				
Observations	40,873	40,873				

Cross-section of grid cells:

Experimentation: adjustments decreased ethnic conflict (2/2)

Dep. Var. =	Ethnic Con	flict Index	Political Conflict Inde	
	(1)	(2)	(3)	(4)
Post × Reform	-0.018** (0.008)	-0.017** (0.008)	-0.018* (0.010)	-0.016 (0.011)
$Post \times Control \times Non-Complier$	0.032*** (0.008)	0.034*** (0.009)	0.041*** (0.005)	0.042*** (0.005)
Post-1928 × Adjustment	-0.017 (0.015)	0.006 (0.008)	-0.011 (0.007)	-0.002 (0.005)
Post \times Reform \times Non-Complier		-0.002 (0.002)		-0.018 (0.012)
Post-1928 × Adjustment × Control × Non-Complier		-0.052*** (0.018)		-0.021 (0.016)
Post-1928 × Adjustment × Reform × Non-Complier		0.001 (0.007)		-0.003 (0.008)
Cell and Year FEs; Rep. Trends	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. R ² Observations	0.02 0.22 531,349	0.02 0.22 531,349	0.03 0.27 531,349	0.03 0.27 531,349

- No average effect
- The adjustments appeased the ethnic tensions in areas w/ European presence (also negative, but insignificant for political conflicts)
 Back
 Details of Reform adjustments

Castañeda Dower, Markevich, Zhuravskaya

Nation-Building in Soviet Central Asia

Distribution of Ethnic Groups in Real and Ideal Nations

	Share of titu	lar nationals	Share of largest minority		
	Real	Ideal	Real	Ideal	
Kyrgyzstan	0.578	0.719	0.286	0.173	
Tajikistan	0.590	0.779	0.297	0.080	
Turkmenistan	0.756	0.763	0.079	0.083	
Uzbekistan	0.776	0.712	0.113	0.156	
Kazakhstan	0.760	0.897	0.143	0.056	
European republic	-	0.494	_	0.466	

• All "ideal nations" except Uzbekistan are more homogenous than the real ones

- The European Republic is very polarized with 2 groups: Europeans and Kazakhs
 - The input to the algorithm did not aggregate different Europeans to the same group, the European Republic emerged as the algorithm's output

Algorithm for the Ideal Partition

- Randomly select a grid cell to start
- Local search: join grid cell with a neighboring grid cell if distributions of linguistic groups are "close enough" to each other
 - within an ϵ neighborhood using Euclidean distance over all population groups
- Sorm cluster when above search rejects all neighboring cells
- Go back to Step 1 and repeat until no more clusters are formed
- Optimally select what "close enough" means by choosing ϵ to minimize the number of unclassified cells per number of clusters
- Merge cluster with the most similar neighbor if population size is too small or does not contain a city

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1922 borders

0

(0 - 10)

(10 - 20]

(20 - 30)

(30 - 40)

(40 - 50)

(50 - 60)

(60 - 70)

(70 - 80)

(80 - 90)

(90 - 100

Share of Kazakhs (%)

Pre-reform linguistic composition (1/2)

Kazakhs:



0

(0 - 10]

(10 - 20)

(20 - 30)

(30 - 40)

(40 - 50)

(50 - 60)

(60 - 70)

(70 - 80)

(80 - 90)

(90 - 100)



Uzbeks:

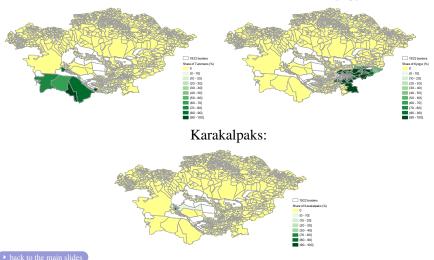




Nation-Building in Soviet Central Asia

Pre-reform linguistic composition (2/2)

Turkmens:



Kyrgyz:

Indices of Political and Economic Conflict

by year, covering 1922-1934, across 40,873 grid cells

• The conflict indices aggregate each entry about conflict for each grid cell g and year t

$$Conflict_Index_{gt}^{Type} = \sum_{i_{v}} \mathbf{1}(Type_{i_{v}}) \times \mathbf{1}(Location_{i_{v}})$$
(2)

- i_v is the identifier for a particular entry *i* in volume *v*
- $Type_{i_v}$ indicates mention of an ethnic or political conflict in the entry
- Location_{i_v} indicates entry i_v associated with g and t
- Information on conflicts has different geographic precision:
 - settlement, subdistrict, district; we cluster by district
 - some entries talk about provinces and republics, we ignore these entries in the baseline analysis
- Normalize by the maximum value of the sum of Political and Ethnic Conflict Indices across all *g* and *t*:
 - A value of one indicates the highest intensity of reporting in g and t
 - A value of zero indicates no reporting about conflict in g and t

	Mean	St. Dev.	Min	Max	N
Ethnic Conflict Index	0.017	0.043	0	0.532	532,974
Political Conflict Index	0.030	0.071	0	0.956	532,974

Castañeda Dower, Markevich, Zhuravskaya

Russia's Colonization of Central Asia

Was gradually expanding:

- Key timeline difference is between the incorporation of Steppe region (North Kazakhstan) and Turkestan (Central Asia South of North Kazakhstan)
 - North Kazakhstan became part of the empire in the 18th century (by 1920s: over one century in the empire)
 - Turkestan was colonized in the second half of the 19th century (by 1920s: only 1/2 century in the empire)
 - Imperial definition of Central Asia did not include North Kazakhstan
 - It was part of Russia
 - More intense European migration (e.g., Russians, Ukrainians, and Germans), especially after the Stolypin reform (1906)
 - There is also difference in geography (steppe vs mountains and deserts)
- Within Turkestan, the empire had uniform policies
 - (Bukhara and Khiva remained independent until 1920, but were under protectorate)

The "National Question" in the early Soviet Union

- Class was the key political concept for the Bolsheviks
 - Initially, they viewed the ethnic divisions as the colonial instrument of control
 - Lenin called the Russian empire the "prison of nations" (1914)
 - nearly one half of the population of the empire was non-Russian
- As Soviet stated objectives were to undo all types of oppression, including colonial, initially they deemphasized the importance of ethnic divisions
- The rise of national movements after the 1917 revolution and during the Civil war forced the Bolsheviks to consider the "national question" seriously and gradually build a nationalities policy
 - In 1917 Stalin was appointed the Commissar of Nationalities

Conflicts from Secret Police Reports

- The Soviet secret police (VChK-OGPU-NKVD-MVD-KGB) closely monitored internal situation in the USSR
- The secret police regularly prepared top secret reports on the situation in the country for the highest Soviet authorities (texts only, no tables)
 - They were recently declassified and historians published 16 volumes containing *all* reports sent to Stalin in 1922-1934
 - Daily and monthly reports before 1929, ad hoc thematic reports after
 - Special section on "national regions," including a subsection on Central Asia in 1922-1929
 - The procedure of gathering and aggregating information was highly centralized
 - There could be a possible selection problem in reporting, but (due to centralization) mostly over time

Manual Classification of Conflicts

- We manually created a dataset on all mentions of conflicts in Central Asia in the sixteen volumes of top secret reports
 - A broad definition of a conflict: local tensions between groups of agents (individuals or the state)
- Total of 5,430 entries in the conflict dataset
- Created classification of all conflicts along various dimensions with a special focus on:
 - Political conflicts (expressions of discontent with and riots or insurgency against the Soviet power, or its local representatives)
 - Ethnic conflicts (tensions and conflicts between different ethnic groups and clans)
- Geolocalized, assigning each conflict to the corresponding administrative unit and time (so far, years), mentioned in the report

Soviet Nationalities Policy

- Empower minorities that are local majorities via the establishment of autonomous republics
 - E.g., 1917 Ukrainian Soviet Republic, 1919 Belorussian Soviet Republic, 1920 Kazakh Autonomous Soviet Republic within Russia (on the territory of North Kazakhstan)
 - Early Soviet definition Central Asia also did not include North Kazakhstan (just as during Imperial period)
- After XII Party Congress in April 1923, indigenization (*Korenizatsiya*) policy was implemented in full scale in these republics
 - Promotion of local languages, culture, education in the local language
 - Local administration was shifting from Russian to local cadres and languages
- National delimitation of Central Asia (Turkestan, Bukhara, and Khiva) in 1924-1925 was the continuation of this Soviet Nationalities policy
- But as Central Asia did not have national borders, they needed to be created

Central Asia on the eve of the reform

- Lack of ethnic identity (Bartold 1927)
 - At best, lineage/clan and muslims identities
 - Example: Russian Empire did not make distinction between Kazakhs and Kyrgyz at all, Soviets called Kazakhs Kyrgyz, while Kyrgyz were called Kara-Kyrgyz. The North Kazakhstan before the reform was called Autonomous Kyrgyz Republic.
- Major languages
 - Turkic: Kazakh, Kyrgyz, Turkmen, Uzbek, Karakalpak
 - Iranian: Tadjik
- Uzbeks and Tadjiks were the most settled people
 - Ancient cities established during Alexander the Great (4th century BC)
- All the others traditionally were nomads
- Fergana Valley (with Tashkent and other cities) was the most developed region but also the most diverse (Uzbeks, Tadjiks, Kazakhs and Kyrgyzs)

National Delimitation in Central Asia (1924-1925)

- Idea: Transform ethnicities into Nations: Language identification as the main criterion for national republics exceptions
- January 1924: the official start of the reform: Decision of the Orgbureau of the Central Committee of the Communist Party
 - Some discussion of national delimitation dates back to 1918
 Details on what preceded implementation
- Reform implemented during 1924 and the first half of 1925
 - Uzbekistan and Turkmenistan Union Republics
 - Tadjikistan Autonomous Republic (within Uzbekistan) and Kara-Kyrgyz Autonomous Oblast (within Russia)
 - South Kazakhstan became part of Kazakh Autonomous Republic
 - Karakalpakstan Autonomous Oblast (within Kazakhstan)
 - Details of implementation

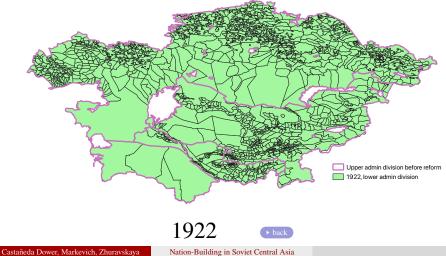
Documenting administrative reforms

To create the dataset, need comparable over time spatial units

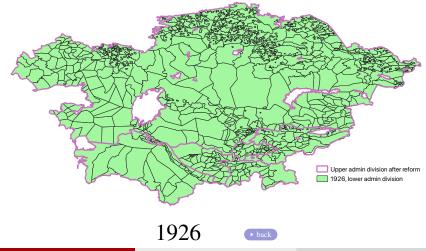
Stumbled on multiple administrative reforms, use grid cells of 0.1×0.1 degree resolution as a spatial unit of analysis

- To document border changes, we digitized many republic and province-level historical paper maps (including one that exists in single copy in the archives)
- Result: three digitized maps
 - 1922 pre-reform division
 - Match our ethnicity data with 1922 administrative borders
 - 1926 post-reform division
 - 1928 division post reform adjustments
- Account for transfers of low-level administrative units between higher-level administrative units during the periods between the reference-map years

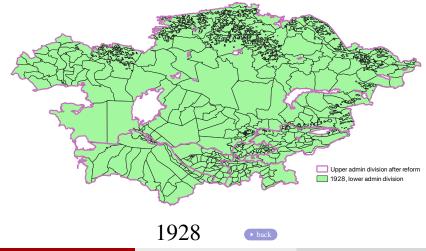
Border Changes: 1922 pre-reform division



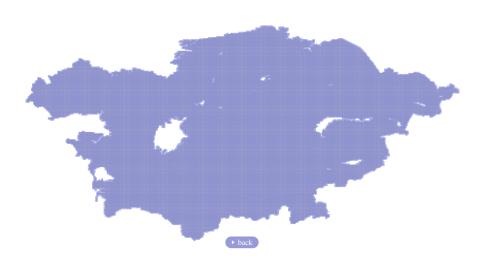
Border Changes: 1926 post-reform division



Border Changes: 1928 post-reform adjustments



Grid cells



Naive Diff-in-Diff estimates of the effect of the reform

Dep. Var. =	Ethnic Con	flict Index	Political Conflict Index		
	(1)	(2)	(3)	(4)	
$Post \times Reform$	-0.021*** (0.006)	-0.031** (0.012)	-0.016* (0.009)	-0.035** (0.016)	
Cell and Year FEs	\checkmark	\checkmark	\checkmark	\checkmark	
1922 Rep. Linear Trends		\checkmark		\checkmark	
Mean Dep. Var. R ² Observations	0.02 0.20 532,974	0.02 0.20 532,974	0.03 0.26 532,974	0.03 0.26 532,974	

• Decrease of both types of conflict relative to the Naive Control Group:

• 70% of SD for ethnic conflict and 49% of SD for political conflict

 \sim

Non-Compliers and Europeans

Cross-section of grid cells:						
Dep. Var. =	Share Europeans					
	(1)	(2)				
Reform Group	-0.027 (0.026)	-0.107** (0.052)				
$Control \times Non-Complier$	0.421*** (0.051)	0.201*** (0.060)				
Reform \times Non-Complier	-0.020 (0.025)	-0.066 (0.061)				
Additional control variables		\checkmark				
Mean Dep. Var. R ² Observations	0.19 0.53 40,873	0.19 0.74 40,873				

Notes: Additional controls: pre-reform shares of urban population, nomads, and illiterate.

- Non-compliers in the Control group is the region with high European presence
- Europeans are few in the "Reform area"
- Non-compliers in Reform group are not European districts

▶ Back

Some Elements of Background

- Only Turkestan, Khiva, and Bukhara were considered as Central Asia before the reform, while North Kazakhstan was considered part of Russia.
 - It was colonized earlier, in the 18th century, i.e., about 50 years before Turkestan.
- Indigenous population of North Kazakhstan was given a local autonomy by the Soviets within Russia already in 1920, when they formed Kyrgyz Autonomous Soviet Republic within Russia
 - with Kazakhs as a titular nation, whom they called Kyrgyz.
 - Russian Empire did not make distinction between Kazakhs and Kyrgyz at all, while Soviets, in the early 1920s called Kazakhs Kyrgyz and Kyrgyz Kara-Kyrgyz.
- The borders of National Republics in the Central Asia (south of North Kazakhstan) needed to be drawn, unlike for other for other autonomous republics, this is why the formation of Central Asian republics was delayed until 1924–1925.
 - The borders were created taking into account local languages of indigenous populations.

▶ back

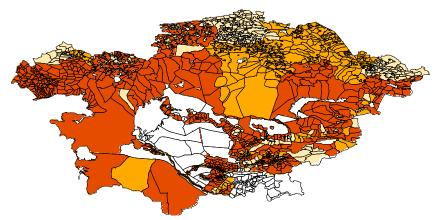
Historical Debate on Soviet Nationalities Policy

- Development of "socialist" nations (Official interpretation and Soviet historians) and "Affirmative Action Empire" (Carr, 1950; Slezkine, 1994; Martin 2001) ⇒
 - Both Political and Ethnic conflicts \downarrow

vs

- Colonial "Divide-and-Rule" policy in a different guise (Conquest 1986; Carrere d'Encausse 1988; Pipes 1997) ⇒
 - If the division in terms of ethnic groups: Political conflict ↓ while Ethnic conflicts ↑
 - However, if the aim was to divide a potentially-dangerous large Muslim state into smaller ethnic states, then: Political conflict \$\geq\$ and no prediction on ethnic conflict vs
- Superficial administrative readjustment (Haugen, 2003) \Rightarrow
 - No change or \uparrow in both Political and Ethnic conflicts

Distribution of the local share of titular nationals



Color coding: yellow: below 33%; orange: 33%-66%; red: above 67% White spots on the map: Tajikistan and Karakalpakia have different title ethnicities depending on the considered admin level, Republic vs. sub-Republic

▶ Back to main slides ▶ No heterogeneity by the share of TN

No heterogeneous effects by share of titular national group

Dep. Var. =	Ethnic Conflict Index		Political Conflict Index	
	(1)	(2)	(3)	(4)
$Post \times Reform$	-0.018* (0.009)	-0.019** (0.009)	-0.018 (0.012)	-0.015 (0.012)
Post \times Control \times Share Titular National	-0.005 (0.012)	-0.012 (0.010)	-0.011 (0.013)	-0.007 (0.007)
Post \times Reform \times Share Titular National	0.002 (0.001)	-0.003 (0.003)	-0.003 (0.011)	0.012 (0.009)
$Post \times Control \times Non-Complier$	0.028** (0.011)	0.033** (0.015)	0.035*** (0.007)	0.032*** (0.011)
$Post \times Control \times Share \ Titular \ National \times Non-Complier$		0.032 (0.038)		-0.021 (0.044)
$Post \times Reform \times Share \ Titular \ National \times Non-Complier$		0.005 (0.003)		-0.022 (0.021)
Post \times Reform \times Non-Complier		-0.003 (0.002)		-0.012 (0.010)
Cell & Year FEs, 1922 Rep. Trends	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. R ² Observations	0.02 0.23 497,848	0.02 0.23 497,848	0.03 0.29 497,848	0.03 0.29 497,848

Why no heterogeneity? In homogenous areas, there could have been less conflict

- before (?) Back to main slides Map: share of TN Heterogeneity by shares of nomads and TN

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Heterogenous effects by size of nomadic population

Dep. Var. =	Ethnic Con	Ethnic Conflict Index		Political Conflict Index		
	(1)	(2)	(3)	(4)		
$Post \times Reform$	-0.018*	-0.018*	-0.024**	-0.025**		
	(0.009)	(0.009)	(0.011)	(0.011)		
Post \times Control \times Share Titular National	-0.005	-0.005	-0.012	-0.012		
	(0.012)	(0.012)	(0.013)	(0.013)		
Post \times Reform \times Share Titular National	0.002	0.007***	0.000	0.006**		
	(0.003)	(0.002)	(0.004)	(0.003)		
Post \times Reform \times Less than 1/2 are Nomads	-0.002	-0.002	0.003	0.003		
	(0.002)	(0.002)	(0.003)	(0.002)		
Post \times Reform \times Share Titular National \times \times Less than 1/2 are Nomads		-0.017** (0.006)		-0.017*** (0.005)		
Post \times Control \times Non-Complier	0.028 ^{**}	0.028 ^{**}	0.035***	0.035***		
	(0.011)	(0.011)	(0.007)	(0.007)		
1922 Rep. Linear Trends	\checkmark	\checkmark	\checkmark	\checkmark		
Mean Dep. Var.	0.02	0.02	0.03	0.03		
R ²	0.23	0.23	0.23	0.23		
Observations	434,603	434,603	434,603	434,603		

• Reform worked in places, where title nations dominate and population is already mostly settled population

• Backlash to the reform in places, where title nations dominate, but they are mostly nomadic

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WWII Draftees: Classifying Ethnic Names

- Geolocate draftees birth place within 1939 Soviet districts
 - Match 1926 subdistrict centroids to 1939 districts; adjust by hand districts that straddle 1920s republics (only 5 of them)
- Obtain probabilities that a particular name belongs to a particular nation:
 - Feed first and last names separately into Forebears Onograph API
 - Bottom quartile of sum of top ten probabilities is 96% for first names and 99.5% for last names
 - For names that do not appear in Forebears, assign probabilities of similar names if similar enough
 - Normalize by sum of all Soviet titular nationalities
 - Use similar approach suing Memorial data on ethnicity (authors' calculation)
 - Using Memorial data, correct Forebears' probabilities that reflect large stock of CA migrants in Russia today
- Solution State Assign Titular National, Russian, and Other CA Titular National
 - Define binary measure based on threshold of 80%
- Assign Soviet and Muslim names using well-known lists of names

A Bird's Eye View from the 1926 and 1939 Censuses

	Total Population		Urbanization Rate		Literacy Rate	
	1926	1939	1926	1939	1926	1939
Uzbekistan SSR	4,565,432	6,282,446	22%	23%	11%	68%
Turkmenistan SSR	998,154	1,253,985	14%	33%	13%	67%
Tajikistan SSR	1,032,216	1,484,440	10%	17%	4%	72%
Kyrgyzstan SSR	1,001,697	1,485,091	12%	18%	15%	70%
Kazakhstan SSR	6,073,979	6,151,102	9%	28%	23%	76%

• Annual population growth excluding Kazakhstan is 2.5%

- Kyrgyzstan's growth in urbanization is twice as fast as in Sub-Saharan Africa (Turkmenistan is nearly four times)
- Literacy rate in Sub-Saharan Africa below 67% today starting at about 10% in 1950s-60s.

Political Map of Central Asia Today



Nation-building inputs

Regional level panel:

Dep. Var. =	Educational Inputs (in logs)			Cultural Inputs		
	Number of	Number of	Number of	Number of	Number of	Number of
	Schools	Teachers	Pupils	Theaters	Museums	Cinema
	(1)	(2)	(3)	(4)	(5)	(6)
Post \times Reform	1.85*** (0.40)	1.78*** (0.43)	2.38 ^{***} (0.70)	1.95** (0.81)	0.35 (0.34)	-10.71 (15.56)
$Post \times Control \times Non-Complier$	0.03 (0.05)	0.05 (0.04)	0.01 (0.04)	-0.16 (0.11)	0.13 ^{***} (0.04)	0.02 (2.80)
Regional Population (in logs)	0.40** (0.15)	-0.08 (0.17)	0.25 (0.19)	1.73* (0.98)	0.11 (0.25)	16.46 (14.85)
Region and Year Fixed Effects	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Mean Dep. Var. R ² Number of Regions Observations	5.70 0.82 35 238	6.97 0.87 35 234	10.28 0.76 35 238	2.73 0.57 35 209	1.00 0.35 35 232	47.74 0.67 35 152

- Soviets invested a lot in education everywhere, but differentially more in reform regions.
- Cultural inputs also increased dramatically but not differentially so, except for museums in non-complier regions.
- Only one pre-reform cross-section, no way to test for pre-trends

Elevation



Silk road

