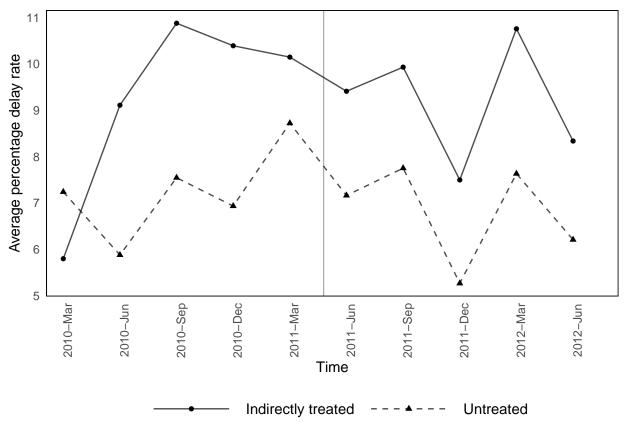
Parallel Trends (Indirectly Treated): QuickPay (2009-2012)

Mar 08, 2023

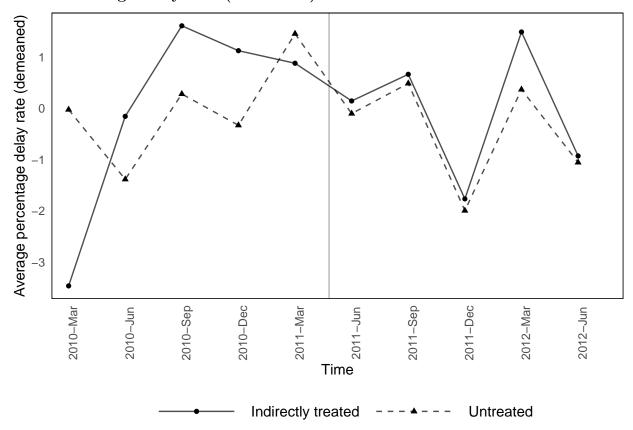
1 Indirectly Treated Projects

- Checking Parallel Trends for Indirectly Treated Projects
- Sample restricted to large projects only. Formally,
- Indirectly Treated = 1 if Treat_i = 0 and Num Small Projects > 0
- Indirectly Treated = 0 if Treat_i = 0 and Num Small Projects == 0
- Indirectly Treated = NaN if Treat $_i = 1$

1.1 Percentage delay rate



1.2 Percentage delay rate (demeaned)



1.3 Parallel Trends Test

Table 1: Linear Time Trend Before QuickPay

	$PercentDelay_{it}$				
	(1)	(2)	(3)	(4)	(5)
$IndirectTreat_i$	1.61	-0.31	-0.33	1.44^{*}	1.20
	(1.02)	(0.81)	(0.81)	(0.81)	(0.81)
Quarter Num	0.53***	-3.94^{***}			
	(0.11)	(0.89)			
$IndirectTreat_i \times QuarterNum$	0.17	-0.14	-0.14	-0.07	-0.03
	(0.21)	(0.17)	(0.17)	(0.18)	(0.18)
Constant	5.04***	97.77***			
	(0.53)	(4.23)			
Duration, Budget, Bids	No	Yes	Yes	Yes	Yes
$Post_t \times$ (Duration, Budget, Bids)	No	Yes	Yes	Yes	Yes
Project stage	No	Yes	Yes	Yes	Yes
Time fixed effects	No	No	Yes	Yes	Yes
Task fixed effects	No	No	No	Yes	Yes
Industry fixed effects	No	No	No	No	Yes
Observations	42,623	40,650	40,650	40,650	40,650
\mathbb{R}^2	0.003	0.34	0.34	0.39	0.40
Adjusted R ²	0.003	0.34	0.34	0.38	0.38

Note:

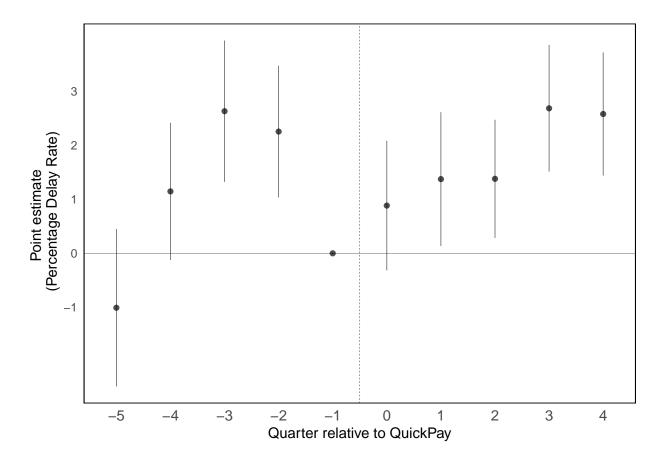
*p<0.1; **p<0.05; ***p<0.01

Each observation is a project-quarter.

SEs are robust and clustered at the project level. Observations are for quarters before quickpay.

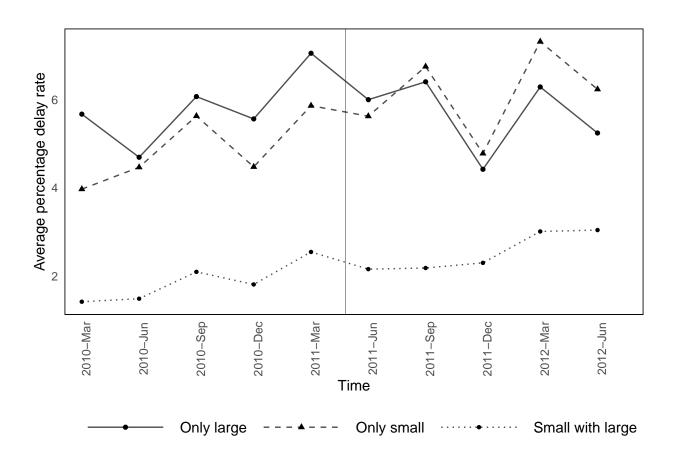
1.4 Event study

 $PercentDelay_{it} = \beta_0 + \beta_1 IndirectTreat_i + \beta_2 IndirectTreat_i \times Quarter_t + Controls + \gamma_{task} + \theta_{naics} + \lambda_{quarter} + \epsilon_{it}$



2 Treatment Categories

- $\bullet\,$ Remove indirectly treated large projects.



2.1 De-meaned perentage delay rate

