Project level delays

2023-11-27

Table 1: Full sample

Dependent Variables:	Delay days	Delay/Initial duration	I(Delay>0)	I(Delay<0)
Model:	(1)	(2)	(3)	(4)
	OLS	OLS	Logit	Logit
Variables				
Treat	-16.30***	-0.25***	-0.36***	0.26***
	(1.58)	(0.01)	(0.03)	(0.09)
Post_t	6.00**	-0.19***	0.30***	0.13
	(2.53)	(0.02)	(0.05)	(0.12)
Treat × Post_t	21.15***	0.23***	0.35***	-0.38***
	(1.85)	(0.01)	(0.04)	(0.11)
Fixed-effects				
Start Year-Quarter	Yes	Yes	Yes	Yes
Task	Yes	Yes	Yes	Yes
NAICS	Yes	Yes	Yes	Yes
Sub-agency	Yes	Yes	Yes	Yes
Fit statistics				
Observations	327,429	322,646	323,712	299,617
Squared Correlation	0.27518	0.24356	0.30287	0.08129
Pseudo R^2	0.02658	0.11127	0.26564	0.16145
BIC	3,880,621.7	741,054.3	290,167.1	62,897.4

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 2: Clean control group

Dependent Variables:	Delay days	Delay/Initial duration	I(Delay>0)	I(Delay<0)
Model:	(1)	(2)	(3)	(4)
	OLS	OLS	Logit	Logit
Variables				
Treat	-14.59***	-0.18***	-0.29***	0.20*
	(2.03)	(0.02)	(0.03)	(0.11)
Post_t	3.36	-0.19***	0.26***	0.15
	(3.07)	(0.02)	(0.06)	(0.14)
Treat × Post_t	22.15***	0.20***	0.33***	-0.30**
	(2.30)	(0.02)	(0.05)	(0.13)
Fixed-effects				
Start Year-Quarter	Yes	Yes	Yes	Yes
Task	Yes	Yes	Yes	Yes
NAICS	Yes	Yes	Yes	Yes
Sub-agency	Yes	Yes	Yes	Yes
Fit statistics				
Observations	278,558	275,449	274,666	253,088
Squared Correlation	0.27553	0.19601	0.29948	0.08208
Pseudo R^2	0.02670	0.09253	0.26435	0.16006
BIC	3,293,971.7	610,250.6	245,734.8	54,108.4

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 3: Action type = M or N/A

Dependent Variable:	Delay days	
	All	Clean control
Model:	(1)	(2)
Variables		
Treat	-15.01***	-7.58***
	(0.84)	(1.02)
Post_t	-0.46	2.74*
	(1.44)	(1.61)
Treat × Post_t	12.70***	5.93***
	(1.02)	(1.20)
Fixed-effects		
Start Year-Quarter	Yes	Yes
Task	Yes	Yes
NAICS	Yes	Yes
Sub-agency	Yes	Yes
Fit statistics		
Observations	228,580	190,149
R^2	0.17123	0.09943
Within R^2	0.01618	0.01158

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 4: No set aside used

Dependent Variable:	Delay days	
	All	Clean control
Model:	(1)	(2)
Variables		
Treat	-19.29***	-20.19***
	(1.66)	(2.17)
Post_t	8.35***	5.57*
	(2.76)	(3.38)
Treat × Post_t	25.53***	26.81***
	(1.92)	(2.34)
Fixed-effects		
Start Year-Quarter	Yes	Yes
Task	Yes	Yes
NAICS	Yes	Yes
Sub-agency	Yes	Yes
Fit statistics		
Observations	240,728	192,017
R^2	0.29151	0.29515
Within R^2	0.02857	0.03109

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 5: Projects that started before QuickPay

Dependent Variable:	Delay days	
	All	Clean control
Model:	(1)	(2)
Variables		
Treat	-10.44***	-7.40***
	(1.58)	(2.11)
Post_t	-22.14***	-25.34***
	(3.42)	(4.30)
Treat × Post_t	20.44***	20.75***
	(3.30)	(4.04)
Fixed-effects		
Start Year-Quarter	Yes	Yes
Task	Yes	Yes
NAICS	Yes	Yes
Sub-agency	Yes	Yes
Fit statistics		
Observations	191,856	163,326
R^2	0.31037	0.31276
Within R^2	0.03825	0.04140

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 6: Projects that had a positive delay only

Dependent Variable:	Delay days	
	All	Clean control
Model:	(1)	(2)
Variables		
Treat	-9.04**	-4.84
	(3.61)	(4.20)
Post_t	-6.17	-7.53
	(4.91)	(5.91)
Treat × Post_t	19.53***	19.69***
	(4.45)	(5.18)
Fixed-effects		
Start Year-Quarter	Yes	Yes
Task	Yes	Yes
NAICS	Yes	Yes
Sub-agency	Yes	Yes
Fit statistics		
Observations	87,635	73,073
R^2	0.29586	0.30553
Within R^2	0.01214	0.01283

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Table 7: Matching

Dependent Variable:	Delay days	
	CEM	PSM
Model:	(1)	(2)
Variables		
Treat	2.38	-8.67***
	(1.85)	(2.20)
Post_t	13.79***	10.29***
	(3.12)	(3.69)
Treat × Post_t	4.66**	7.21***
	(2.23)	(2.74)
Fixed-effects		
Start Year-Quarter	Yes	Yes
Task	Yes	Yes
NAICS	Yes	Yes
Sub-agency	Yes	Yes
Fit statistics		
Observations	176,620	57,862
R^2	0.26824	0.25982
Within R^2	0.03406	0.02296

Clustered (Project ID) standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*