

Supplemental material

Between security and convenience: Facial recognition technology in the eyes of citizens in China, Germany, the UK and the US

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Table S1: Summary Dependent Variable and Independent Variable

In general, do you accept or oppose the use of facial recognition technology? (weighted, in %)							
	Measurement	<i>Strongly oppose</i>	<i>Somewhat oppose</i>	<i>Neither oppose nor accept</i>	<i>Somewhat accept</i>	<i>Strongly accept</i>	<i>N</i>
Dependent variable: Acceptance							
		7.6	13.7	27.7	36.6	14.3	6099
Independent variables Sociodemographic							
Age	18-35	6.3	12.1	29.2	37.8	14.5	2788
	36-50	9.1	14.1	26.3	36.3	14.2	2032
	51-65	8.3	16.6	26.8	34.2	14.1	1279
Gender	Male	7.5	14.4	24.7	37.5	15.9	3144
	Female	7.8	13	31	35.5	12.6	2955
Income	Low	8.3	13.9	33.8	31.0	13.0	798
	Medium	6.1	16.1	27.8	36.0	13.9	2227
	High	9.7	10.8	22.3	40.2	17.1	2318
	Prefer not to say	5.2	15.4	37.8	33.1	8.4	756
Education	Low	26.3	10.2	22.9	27.2	13.4	420
	Medium	5.7	14.5	30.5	36.2	13.2	3987
	High	7.5	12.8	22.5	39.8	17.3	1692
Ethnic Group	Minority	8	17.1	29	30.8	15.2	866
	Majority	7.6	13	24.6	39.6	15.1	4314
	Don't know	7.5	13.9	41.3	27.6	9.8	920
Living area	Rural	6.1	13.6	30.6	36.7	13	2135
	City	8.5	13.8	26.2	36.5	15	3964
Exposure to FRT	0 (None of the instances)	12.2	16.4	35.4	25.4	10.5	744
	1	7.8	13.6	31.7	34.0	12.8	1719
	2	4.9	15.0	28.9	39.0	12.3	992
	3	12.4	11.9	23.4	38.3	14.0	972
	4	3.6	12.9	24.2	42.5	16.7	632
	5	4.6	15.1	20.3	40.6	19.3	467
	6	2.6	12.8	23.2	40.0	21.4	233
	7	5.5	10.8	21.6	45.4	16.7	154
	8	4.4	10.1	16.8	46.1	22.7	62
	9	5.2	10.8	20.1	39.4	24.5	61
	10	8.7	5.2	15.5	44.1	26.5	38
	11	13.7	7.5	22.1	27.2	29.6	26
Frequency of FRT Private Use	Never	8.7	18.5	33.7	30.3	8.7	2584
	Several times in my life	2.7	14.1	36.2	37.8	9.2	427
	Several times a year	2.0	13.2	28.5	46.6	9.8	333
	Several times a month	2.4	10.3	32.0	42.0	13.3	383
	Several times a week	2.6	13.0	24.5	45.6	14.4	431
	Most of the time	3.6	12.1	21.4	43.5	19.4	559
	Everyday	13.2	6.6	16.2	38.3	25.7	1383
Frequency of FRT Public Use	Never	7.7	12.2	36.6	30.5	12.9	1383
	Several times in my life	4.0	17.5	31.5	38.1	8.8	910
	Several times a year	3.0	14.2	27.5	43.2	12.2	707
	Several times a month	3.0	13.4	27.6	41.0	15.0	652
	Several times a week	5.5	15.7	21.4	42.6	14.8	712

	Most of the time	6.7	13.3	22.6	38.0	19.4	871
	Everyday	21.4	10.7	20.3	29.4	18.2	864
Perceived functions and accuracy							
Conse- quences	Convenience	6	6.1	20.8	45.2	21.9	2200
	Privacy violations	12.4	22	30	28.6	6.9	2526
	Efficiency	4.7	6.7	19.3	45.9	23.4	2089
	Discrimination	21.1	25	24.7	21.5	7.8	780
	Security	2.8	9.5	25.8	44	18.3	3785
	Surveillance	6.4	16.6	28.5	36.4	12.1	3054
	None of the above	12.1	11.3	42.2	19.6	14.8	265
Usefulness	Smartphone usages	6.7	11.1	26	38.8	17.3	2311
	Smart devices & gadgets	7.4	13.2	26.6	37.6	15.2	1894
	Public streets	11.6	12	26	37.1	13.3	981
	Railway, subway stations	6	13	27.7	38.2	15.1	2173
	Customs control or security check at airport	4.3	13.5	29	39.5	13.8	4012
	Tourist attractions	9.2	13.2	29.4	34	14.2	648
	Identity verification for financial matters	3.6	13.8	27.9	40.3	14.4	2532
	Shopping malls or private shops	5	11.4	26.1	39.6	17.8	831
	Schools or universities	5.6	13	30.4	36.6	14.5	1130
	Private household	6.8	19.2	28.2	31.6	14.2	567
	None of the above	32.1	22.8	27	11.4	6.2	406
Reliability	Less reliable	20.5	23.5	23.8	27	5.2	898
	Neither less nor more reliable	4.2	14.9	36.5	35.3	9.1	2344
	More reliable	5.2	7.5	17.6	44.4	25.3	2186
	Don't know	10.6	16.7	35.6	28.1	9	671

Table S2: Summary statistics by country

		Social Acceptance of Facial Recognition Technology				
		<i>Strongly oppose</i>	<i>Somewhat oppose</i>	<i>Neither oppose nor accept</i>	<i>Somewhat accept</i>	<i>Strongly accept</i>
		Age Group				
China	<i>18-35</i>	0.7	6.2	26.0	48.8	18.3
	<i>36-50</i>	0.6	7.4	23.7	50.2	18.2
	<i>51-65</i>	3.3	21.7	18.6	38.1	18.3
Germany	<i>18-35</i>	14.3	18.0	34.7	27.1	5.8
	<i>36-50</i>	16.3	17.9	27.5	31.0	7.2
	<i>51-65</i>	8.6	17.3	30.6	33.0	10.5
UK	<i>18-35</i>	6.5	14.8	29.1	35.8	13.8
	<i>36-50</i>	9.4	11.1	27.8	36.1	15.6
	<i>51-65</i>	10.3	15.2	26.0	32.2	16.3
US	<i>18-35</i>	9.5	15.3	30.5	28.4	16.2
	<i>36-50</i>	7.6	18.5	25.6	30.9	17.5
	<i>51-65</i>	6.8	16.1	25.3	37.2	14.6
		Gender				
China	<i>Male</i>	1.1	9.1	23.8	47.5	18.6
	<i>Female</i>	0.5	5.3	26.5	49.9	17.8
Germany	<i>Male</i>	11.5	17.8	27.0	34.4	9.4
	<i>Female</i>	15.6	17.8	34.9	25.9	5.8
UK	<i>Male</i>	9.8	13.8	23.9	35.1	17.3
	<i>Female</i>	7.2	13.6	31.7	34.7	12.8
US	<i>Male</i>	8.5	17.7	24.0	31.5	18.3
	<i>Female</i>	7.8	15.5	31.0	31.4	14.2
		Education Group				
China	<i>Low</i>	2.8	7.8	29.0	42.7	17.7
	<i>Medium</i>	0.4	7.4	27.2	48.0	17.0
	<i>High</i>	1.1	7.2	21.1	50.4	20.2
Germany	<i>Low</i>	52.8	8.4	16.1	14.2	8.3
	<i>Medium</i>	5.9	18.7	34.8	33.6	7.0
	<i>High</i>	21.0	19.6	23.7	26.2	9.6
UK	<i>Low</i>	14.9	10.5	27.2	34.4	12.1
	<i>Medium</i>	8.1	13.7	29.0	33.9	14.3
	<i>High</i>	8.5	14.4	25.0	37.3	14.7
US	<i>Low</i>	12.0	18.8	24.2	23.8	21.1
	<i>Medium</i>	8.2	17.2	30.1	30.3	14.3
	<i>High</i>	7.6	15.0	21.5	35.3	20.6
		Income Group				
China	<i>Low</i>	0.8	7.7	35.8	40.4	15.3
	<i>Medium</i>	0.8	10.2	25.0	47.1	16.9
	<i>High</i>	1.0	6.1	20.0	52.0	20.9
	<i>Prefer not to say</i>	0.0	7.2	35.8	45.5	11.5
Germany	<i>Low</i>	11.3	14.3	39.8	27.4	7.3
	<i>Medium</i>	6.0	20.7	33.0	32.1	8.2
	<i>High</i>	25.5	14.4	23.4	28.5	8.2
	<i>Prefer not to say</i>	5.0	20.1	40.6	30.4	3.9
UK	<i>Low</i>	10.5	17.6	31.0	28.3	12.7
	<i>Medium</i>	8.3	14.0	24.9	37.6	15.3
	<i>High</i>	9.3	10.7	24.2	35.7	20.1
	<i>Prefer not to say</i>					
US	<i>Low</i>	5.8	13.0	42.8	30.0	8.4
	<i>Low</i>	12.1	16.5	31.3	26.0	14.2

	<i>Medium</i>	7.0	17.9	27.6	29.6	17.9
	<i>High</i>	7.1	14.3	23.6	36.4	18.6
	<i>Prefer not to say</i>	9.1	20.1	32.9	28.3	9.6
Ethnic Group						
China	<i>Minority</i>	1.7	6.7	31.1	39.3	21.2
	<i>Majority</i>	0.7	7.5	23.9	49.8	18.2
	<i>Don't know</i>	1.7	6.4	33.9	42.5	15.5
Germany	<i>Minority</i>	10.0	23.1	29.3	27.9	9.6
	<i>Majority</i>	16.9	17.2	26.6	31.5	7.8
	<i>Don't know</i>	5.3	16.1	45.1	27.7	5.9
UK	<i>Minority</i>	8.8	15.6	29.8	33.7	12.1
	<i>Majority</i>	8.5	13.4	24.4	37.2	16.6
	<i>Don't know</i>	8.5	13.1	41.0	25.9	11.5
US	<i>Minority</i>	8.2	17.8	27.5	27.8	18.7
	<i>Majority</i>	7.0	16.7	23.8	35.5	17.1
	<i>Don't know</i>	11.8	15.1	39.8	22.7	10.6
Living area						
China	<i>Rural</i>	1.1	7.9	26.0	47.9	17.0
	<i>City</i>	0.7	7.1	24.6	48.9	18.8
Germany	<i>Rural</i>	5.6	18.3	34.4	34.7	7.0
	<i>City</i>	17.4	17.5	29.1	28.0	7.9
UK	<i>Rural</i>	9.6	13.6	29.5	33.5	13.7
	<i>City</i>	7.8	13.7	26.6	35.8	16.0
US	<i>Rural</i>	7.4	14.5	32.6	31.5	14.1
	<i>City</i>	8.6	17.9	24.5	31.4	17.5

Table S3: Model test results

		Linktest			
	<i>P> t </i>	China	Germany	UK	US
Model 1	<i>_hat</i>	0.060	0.000	0.001	0.017
	<i>_hatsq</i>	0.269	0.000	0.635	0.697
Model 2	<i>_hat</i>	0.000	0.000	0.000	0.000
	<i>_hatsq</i>	0.501	0.001	0.584	0.970
		Mean vif			
Model 1		China	Germany	UK	US
		4.58	3.31	3.50	3.27
Model 2		2.81	2.26	2.30	2.21

Table S4: Ordered logistic regressions: acceptance of general use of FRT

Ordered Logit Regression, weighted, dependent variable: social acceptance of FRT (general)								
Model 1					Model 2			
	China	Germany	UK	US	China	Germany	UK	US
Age	-0.001 (0.005)	0.004 (0.004)	0.006* (0.004)	0.009** (0.004)	-0.006 (0.006)	0.003 (0.004)	0.002 (0.004)	0.007* (0.004)
Gender	0.214** (0.096)	-0.421*** (0.094)	-0.058 (0.098)	-0.041 (0.099)	0.215** (0.100)	-0.405*** (0.098)	-0.167 (0.103)	0.076 (0.102)
Household Income								
Medium	0.226 (0.167)	-0.078 (0.183)	0.301** (0.146)	0.338** (0.160)	0.164 (0.179)	-0.150 (0.190)	0.186 (0.156)	0.170 (0.166)
High	0.474*** (0.155)	-0.403** (0.189)	0.364** (0.172)	0.381** (0.157)	0.387** (0.163)	-0.532*** (0.198)	0.065 (0.183)	0.153 (0.159)
Prefer not to say	0.011 (0.179)	-0.086 (0.204)	0.054 (0.163)	-0.067 (0.175)	0.059 (0.193)	0.097 (0.214)	0.091 (0.179)	-0.046 (0.184)
Education								
Medium	-0.166 (0.228)	1.564*** (0.232)	0.062 (0.211)	-0.112 (0.269)	-0.271 (0.226)	1.076*** (0.243)	-0.115 (0.233)	-0.198 (0.281)
High	-0.254 (0.239)	1.193*** (0.260)	-0.093 (0.225)	0.003 (0.287)	-0.345 (0.239)	0.968*** (0.265)	-0.092 (0.249)	-0.114 (0.296)
Ethnic Minority	-0.049 (0.209)	-0.010 (0.141)	-0.187 (0.131)	-0.015 (0.120)	-0.015 (0.221)	-0.089 (0.149)	-0.225 (0.146)	0.015 (0.121)
City or Rural	-0.140 (0.113)	-0.234** (0.095)	0.119 (0.098)	0.017 (0.102)	-0.163 (0.119)	-0.217** (0.099)	0.060 (0.099)	0.045 (0.105)
Exposure to FRT	0.003 (0.065)	0.269*** (0.054)	0.096 (0.059)	0.088 (0.063)	-0.003 (0.066)	0.189*** (0.059)	-0.072 (0.065)	-0.028 (0.068)
Use Frequency								
Private	0.186***	0.062	0.035	0.178***	0.169***	0.021	-0.020	0.088**

	(0.046)	(0.039)	(0.043)	(0.040)	(0.048)	(0.042)	(0.043)	(0.042)
Public	0.069	-0.094**	-0.011	-0.062	0.059	-0.085**	-0.034	-0.038
	(0.049)	(0.042)	(0.042)	(0.041)	(0.050)	(0.043)	(0.041)	(0.042)
exposure # use	0.019	0.007	0.033**	0.001	0.012	0.012	0.031**	0.005
freq. private	(0.012)	(0.012)	(0.014)	(0.012)	(0.012)	(0.012)	(0.013)	(0.013)
exposure # use	-0.017	-0.045***	-0.021	-0.010	-0.008	-0.030**	-0.002	0.001
freq. public	(0.013)	(0.012)	(0.015)	(0.014)	(0.012)	(0.013)	(0.014)	(0.014)
Perceived consequences								
Convenience					0.535***	-0.013	0.870***	0.411***
					(0.117)	(0.131)	(0.138)	(0.124)
Privacy violations					-0.548***	-1.007***	-0.834***	-0.718***
					(0.115)	(0.110)	(0.109)	(0.112)
Efficiency					0.337***	0.445***	0.444***	0.680***
					(0.113)	(0.139)	(0.127)	(0.125)
Discrimination					-0.587*	-0.812***	-0.470***	-0.391***
					(0.330)	(0.143)	(0.144)	(0.146)
Security					0.631***	1.101***	0.731***	0.831***
					(0.106)	(0.109)	(0.120)	(0.120)
Surveillance					-0.574***	0.256**	0.051	0.084
					(0.117)	(0.114)	(0.109)	(0.107)
Perceived usefulness								
Smartphone usages					-0.056	0.073	0.368***	0.509***
					(0.135)	(0.126)	(0.124)	(0.126)
Smart devices and gadgets					-0.045	-0.238*	0.366***	0.380***
					(0.139)	(0.135)	(0.125)	(0.125)
Public streets					-0.482**	0.070	0.475***	0.543***
					(0.199)	(0.132)	(0.139)	(0.180)
Railway, subway stations					-0.159	0.114	0.308**	0.261
					(0.137)	(0.117)	(0.130)	(0.160)

Customs control or security check at airports					-0.152 (0.138)	0.751*** (0.129)	0.768*** (0.117)	0.480*** (0.120)
Tourist attractions					0.189 (0.231)	0.071 (0.145)	0.574*** (0.199)	0.240 (0.185)
Identity verification for financial matters					-0.288** (0.136)	0.215* (0.120)	0.578*** (0.117)	0.660*** (0.120)
Shopping malls, private shops					-0.183 (0.153)	0.190 (0.198)	0.473*** (0.152)	0.676*** (0.205)
Schools or universities					0.082 (0.160)	0.510*** (0.173)	0.109 (0.122)	0.312** (0.134)
Private households					-0.664** (0.259)	0.546*** (0.203)	0.119 (0.208)	0.488*** (0.149)
Perceived reliability					0.768*** (0.113)	0.605*** (0.117)	0.781*** (0.123)	0.992*** (0.120)
cut1	-3.628***	-0.961***	-1.596***	-1.555***	-4.047***	-0.857**	-1.117***	-0.417
Constant	(0.476)	(0.333)	(0.334)	(0.380)	(0.569)	(0.391)	(0.384)	(0.432)
cut2	-1.219***	0.273	-0.467	-0.219	-1.510***	0.686*	0.251	1.194***
Constant	(0.372)	(0.336)	(0.328)	(0.367)	(0.475)	(0.387)	(0.383)	(0.426)
cut3	0.588	1.674***	0.830**	1.036***	0.528	2.487***	1.896***	2.771***
Constant	(0.375)	(0.339)	(0.329)	(0.368)	(0.478)	(0.391)	(0.384)	(0.428)
cut4	2.951***	3.766***	2.644***	2.671***	3.217***	4.909***	4.099***	4.744***
Constant	(0.383)	(0.355)	(0.338)	(0.378)	(0.489)	(0.411)	(0.396)	(0.439)

Standard errors in parentheses

* $p < .10$, ** $p < .05$, *** $p < .01$

Note: Dependent variable: social acceptance of FRT (1 = strongly oppose, 2 = somewhat oppose, 3 = neither oppose nor support, 4 = somewhat support, 5 = strongly support). N for Total = 6099, China = 1628, Germany = 1538, UK = 1524, US = 1409.

Table S5: Ordered logistic regressions: acceptance of public use of FRT

		Model 1 Acceptance of FRT (Public)				Model 2 Acceptance (Public)			
		China	Germany	UK	US	China	Germany	UK	US
<u>acceptance frt public</u>									
Age		0.007 (0.005)	0.009** (0.004)	0.009** (0.004)	0.016*** (0.004)	0.003 (0.005)	0.002 (0.004)	0.003 (0.004)	0.012*** (0.004)
Gender		0.207** (0.093)	-0.206** (0.092)	0.058 (0.097)	-0.006 (0.099)	0.201** (0.096)	-0.212** (0.096)	-0.020 (0.100)	0.116 (0.101)
	Female								
Ethnic Minority		0.232 (0.177)	0.001 (0.148)	-0.118 (0.138)	0.003 (0.122)	0.301 (0.188)	-0.017 (0.152)	-0.176 (0.150)	0.062 (0.125)
	Yes								
Education									
	Medium	0.036 (0.226)	1.141*** (0.208)	-0.047 (0.190)	-0.132 (0.271)	-0.079 (0.250)	0.710*** (0.219)	-0.213 (0.222)	-0.144 (0.293)
	High	0.073 (0.235)	0.915*** (0.237)	-0.029 (0.205)	0.108 (0.288)	-0.059 (0.261)	0.703*** (0.247)	0.073 (0.237)	0.023 (0.307)
Household Income									
	Medium	0.156 (0.160)	0.173 (0.179)	0.328** (0.143)	0.187 (0.153)	0.094 (0.168)	0.182 (0.183)	0.208 (0.157)	0.084 (0.156)
	High	0.338** (0.152)	-0.195 (0.184)	0.223 (0.171)	0.138 (0.146)	0.203 (0.160)	-0.195 (0.191)	0.005 (0.182)	-0.070 (0.150)
	Prefer not to say	0.014 (0.168)	-0.056 (0.204)	0.117 (0.161)	-0.184 (0.170)	-0.021 (0.185)	0.199 (0.213)	0.122 (0.185)	-0.133 (0.185)
City or Rural		-0.003 (0.109)	-0.180* (0.098)	0.013 (0.099)	-0.039 (0.104)	-0.030 (0.112)	-0.162 (0.101)	-0.063 (0.100)	-0.011 (0.106)
	City								
Exposure to FRT		-0.012 (0.059)	0.292*** (0.056)	0.041 (0.066)	0.028 (0.051)	-0.001 (0.062)	0.219*** (0.061)	-0.094 (0.069)	-0.068 (0.053)
Use Frequency									
	private	0.013 (0.041)	-0.081* (0.043)	-0.037 (0.041)	0.079** (0.039)	0.020 (0.045)	-0.112** (0.047)	-0.088** (0.042)	-0.003 (0.041)
	public	0.098** (0.044)	0.042 (0.045)	0.012 (0.042)	-0.036 (0.041)	0.090* (0.047)	0.039 (0.048)	-0.018 (0.041)	-0.017 (0.041)

exposure # use	0.013	0.026*	0.036**	0.009	0.001	0.030**	0.034**	0.009
freq. private	(0.011)	(0.013)	(0.014)	(0.011)	(0.011)	(0.014)	(0.014)	(0.012)
exposure # use	-0.007	-0.063***	-0.015	0.000	-0.001	-0.049***	-0.000	0.012
freq. public	(0.011)	(0.013)	(0.017)	(0.011)	(0.011)	(0.015)	(0.016)	(0.012)
Perceived consequences								
Convenience					0.683***	-0.150	0.653***	0.539***
					(0.111)	(0.132)	(0.140)	(0.122)
Privacy violations					-0.548***	-1.007***	-1.060***	-0.901***
					(0.117)	(0.109)	(0.113)	(0.115)
Efficiency					0.137	0.368***	0.624***	0.490***
					(0.108)	(0.135)	(0.131)	(0.123)
Discrimination					-0.494*	-0.752***	-0.491***	-0.434***
					(0.295)	(0.145)	(0.142)	(0.155)
Security					0.742***	1.046***	0.581***	0.663***
					(0.102)	(0.107)	(0.117)	(0.118)
Surveillance					-0.428***	0.171	0.004	-0.025
					(0.114)	(0.110)	(0.106)	(0.105)
Perceived usefulness								
Smartphone usages					-0.396***	-0.079	0.132	0.216*
					(0.133)	(0.133)	(0.126)	(0.123)
Smart devices and gadgets					-0.103	-0.181	0.192	0.184
					(0.137)	(0.135)	(0.126)	(0.124)
Public streets					0.461**	0.516***	0.781***	0.836***
					(0.207)	(0.135)	(0.135)	(0.178)
Railway, subway stations					0.024	0.490***	0.455***	0.362**
					(0.134)	(0.119)	(0.133)	(0.148)
Customs control or security check at airports					-0.075	0.589***	0.678***	0.395***
					(0.134)	(0.132)	(0.119)	(0.119)
Tourist attractions					0.122	0.170	0.595***	0.424**

Identity verification for financial matters					(0.246)	(0.146)	(0.177)	(0.193)
					-0.501***	0.106	0.355***	0.401***
Shopping malls, private shops					(0.134)	(0.125)	(0.115)	(0.118)
					0.009	0.543***	0.638***	0.689***
Schools of universities					(0.151)	(0.193)	(0.153)	(0.195)
					-0.044	0.642***	0.175	0.290**
Private households					(0.161)	(0.171)	(0.120)	(0.127)
					-0.050	0.306	-0.153	0.328**
Perceived reliability					(0.233)	(0.215)	(0.205)	(0.154)
					0.577***	0.457***	0.713***	0.939***
					(0.104)	(0.115)	(0.120)	(0.118)
cut1	-2.138***	-0.342	-1.076***	-0.905**	-2.398***	-0.280	-0.959**	-0.112
Constant	(0.361)	(0.324)	(0.305)	(0.374)	(0.466)	(0.396)	(0.378)	(0.440)
cut2	-0.170	0.849***	0.044	0.326	-0.269	1.227***	0.449	1.372***
Constant	(0.341)	(0.329)	(0.304)	(0.369)	(0.444)	(0.399)	(0.381)	(0.437)
cut3	1.105***	1.858***	1.095***	1.413***	1.192***	2.546***	1.817***	2.727***
Constant	(0.341)	(0.332)	(0.306)	(0.371)	(0.444)	(0.404)	(0.383)	(0.437)
cut4	3.214***	3.843***	2.821***	2.926***	3.551***	4.880***	3.929***	4.515***
Constant	(0.350)	(0.347)	(0.315)	(0.381)	(0.454)	(0.422)	(0.396)	(0.450)

Standard errors in parentheses
* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Table S6: Ordered logistic regressions: acceptance of private use of FRT

	Model 1 Acceptance of FRT (Private)				Model 2 Acceptance of FRT (Private)			
	China	Germany	UK	US	China	Germany	UK	US
<u>acceptance frt private</u>								
Age	0.007 (0.005)	-0.012*** (0.004)	-0.007* (0.004)	-0.004 (0.004)	0.005 (0.006)	-0.008** (0.004)	0.002 (0.004)	-0.002 (0.005)
Gender	0.028 (0.096)	-0.574*** (0.094)	-0.106 (0.097)	-0.097 (0.099)	0.052 (0.100)	-0.452*** (0.097)	-0.167 (0.103)	-0.073 (0.103)
Ethnic Minority	-0.029 (0.200)	0.095 (0.136)	-0.272** (0.135)	-0.037 (0.120)	0.006 (0.220)	0.025 (0.139)	-0.225 (0.146)	0.075 (0.127)
Education								
Medium	-0.013 (0.234)	1.338*** (0.218)	0.125 (0.201)	0.033 (0.241)	-0.048 (0.242)	1.091*** (0.227)	-0.115 (0.233)	-0.029 (0.249)
High	-0.134 (0.250)	0.924*** (0.254)	-0.126 (0.215)	0.012 (0.258)	-0.074 (0.257)	0.917*** (0.263)	-0.092 (0.249)	-0.057 (0.267)
Household Income								
Medium	0.347** (0.168)	-0.430** (0.187)	0.354** (0.142)	0.460*** (0.154)	0.340* (0.174)	-0.473** (0.191)	0.186 (0.156)	0.281* (0.161)
High	0.522*** (0.153)	-0.483** (0.193)	0.566*** (0.167)	0.700*** (0.150)	0.480*** (0.159)	-0.628*** (0.196)	0.065 (0.183)	0.526*** (0.156)
Prefer not to say	0.255 (0.191)	-0.147 (0.212)	0.120 (0.170)	0.031 (0.168)	0.249 (0.199)	-0.051 (0.217)	0.091 (0.179)	-0.078 (0.174)
City or Rural								
City	-0.063 (0.117)	-0.047 (0.097)	0.072 (0.097)	-0.000 (0.104)	-0.049 (0.120)	-0.065 (0.100)	0.060 (0.099)	0.090 (0.107)
Exposure to FRT	-0.039 (0.067)	0.141** (0.058)	0.165** (0.066)	0.113* (0.059)	-0.005 (0.069)	0.063 (0.060)	-0.072 (0.065)	0.008 (0.059)
Use Frequency								
private	0.253*** (0.048)	0.185*** (0.045)	0.174*** (0.043)	0.270*** (0.040)	0.236*** (0.050)	0.097** (0.048)	-0.020 (0.043)	0.157*** (0.040)
public	0.016 (0.049)	-0.194*** (0.043)	-0.044 (0.041)	-0.088** (0.041)	0.020 (0.052)	-0.163*** (0.047)	-0.034 (0.041)	-0.053 (0.041)

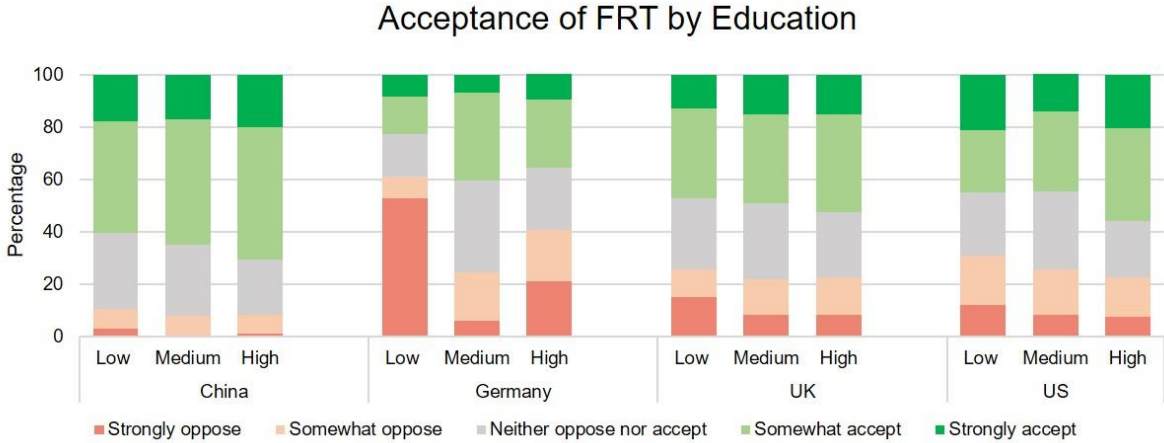
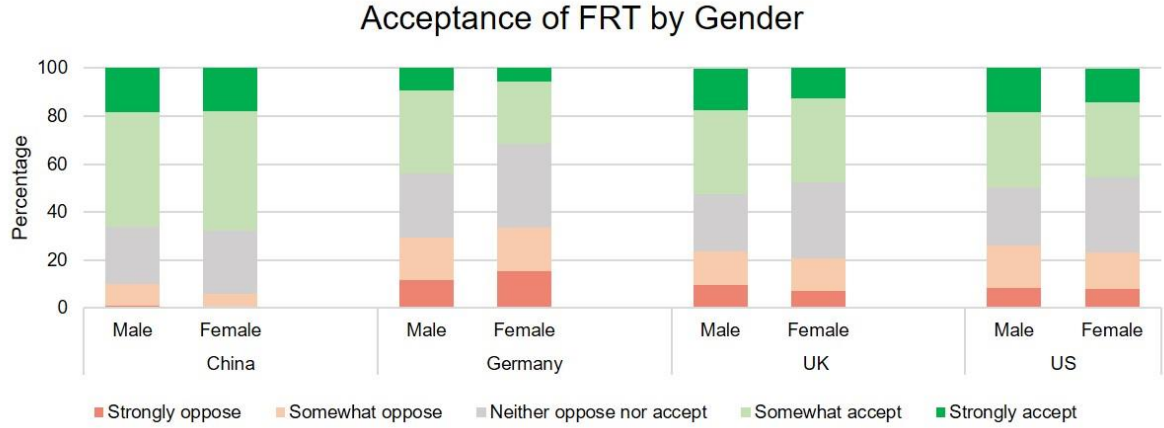
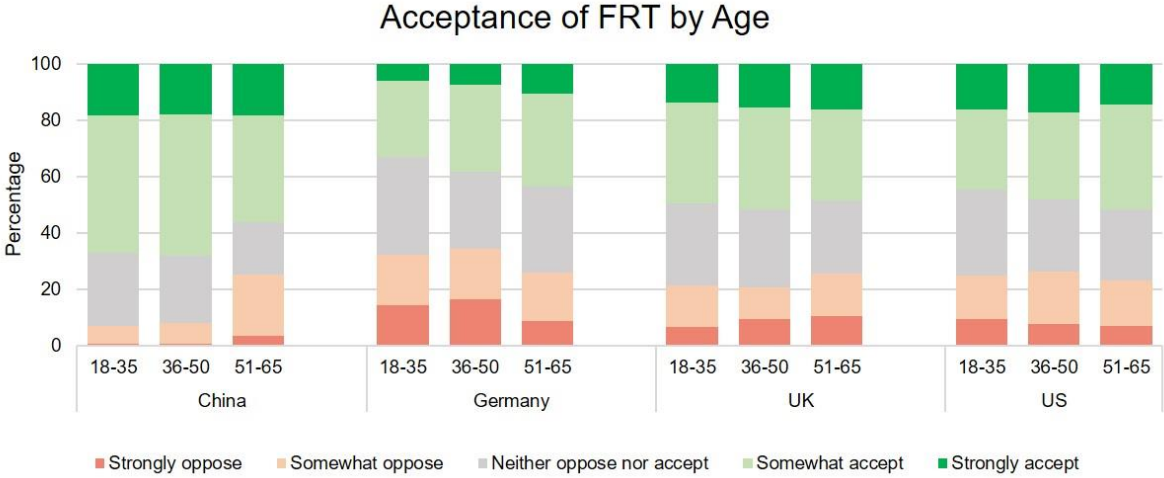
exposure # use	0.026**	0.017	0.022	-0.010	0.016	0.026*	0.031**	-0.006
freq. private	(0.013)	(0.013)	(0.014)	(0.012)	(0.013)	(0.013)	(0.013)	(0.011)
exposure # use	-0.013	-0.022*	-0.020	-0.006	-0.006	-0.008	-0.002	0.010
freq. public	(0.013)	(0.012)	(0.015)	(0.013)	(0.013)	(0.013)	(0.014)	(0.013)
Perceived consequences								
Convenience					0.594***	-0.050	0.870***	0.546***
					(0.115)	(0.127)	(0.138)	(0.129)
Privacy violations					-0.567***	-0.911***	-0.834***	-0.530***
					(0.111)	(0.105)	(0.109)	(0.114)
Efficiency					0.043	0.430***	0.444***	0.403***
					(0.111)	(0.131)	(0.127)	(0.130)
Discrimination					-0.514	-0.869***	-0.470***	-0.414***
					(0.366)	(0.160)	(0.144)	(0.150)
Security					0.544***	0.684***	0.731***	0.535***
					(0.108)	(0.106)	(0.120)	(0.122)
Surveillance					-0.432***	0.249**	0.051	-0.031
					(0.113)	(0.109)	(0.109)	(0.110)
Perceived usefulness								
Smartphone usages					0.233*	0.777***	0.368***	1.017***
					(0.125)	(0.129)	(0.124)	(0.127)
Smart devices and gadgets					-0.002	-0.160	0.366***	0.825***
					(0.130)	(0.133)	(0.125)	(0.127)
Public streets					-0.339	-0.105	0.475***	0.013
					(0.216)	(0.136)	(0.139)	(0.172)
Railway, subway stations					-0.354***	-0.166	0.308**	-0.133
					(0.130)	(0.122)	(0.130)	(0.151)
Customs control or security check at airports					-0.130	0.315**	0.768***	0.460***
					(0.133)	(0.133)	(0.117)	(0.121)
Tourist attractions					-0.336	-0.345**	0.574***	0.063

Identity verification for financial matters					(0.249)	(0.143)	(0.199)	(0.164)
					-0.458***	0.337***	0.578***	0.364***
Shopping malls, private shops					(0.129)	(0.117)	(0.117)	(0.117)
					-0.277*	-0.117	0.473***	-0.088
Schools of universities					(0.150)	(0.193)	(0.152)	(0.189)
					-0.175	0.174	0.109	0.276**
Private households					(0.163)	(0.165)	(0.122)	(0.124)
					-0.230	0.725***	0.119	0.540***
Perceived reliability					(0.299)	(0.210)	(0.208)	(0.152)
					0.643***	0.466***	0.781***	0.786***
					(0.110)	(0.111)	(0.123)	(0.118)
cut1	-3.313***	-1.526***	-1.614***	-1.417***	-3.513***	-1.355***	-1.117***	-0.306
Constant	(0.489)	(0.325)	(0.314)	(0.356)	(0.557)	(0.376)	(0.384)	(0.406)
cut2	-0.630*	-0.621*	-0.703**	-0.507	-0.727	-0.285	0.251	0.771*
Constant	(0.364)	(0.325)	(0.312)	(0.350)	(0.448)	(0.374)	(0.383)	(0.402)
cut3	0.950***	0.866***	0.652**	0.740**	1.005**	1.530***	1.896***	2.308***
Constant	(0.364)	(0.325)	(0.313)	(0.353)	(0.449)	(0.377)	(0.384)	(0.409)
cut4	3.298***	2.462***	2.265***	2.289***	3.626***	3.367***	4.099***	4.167***
Constant	(0.372)	(0.332)	(0.324)	(0.361)	(0.459)	(0.389)	(0.396)	(0.421)

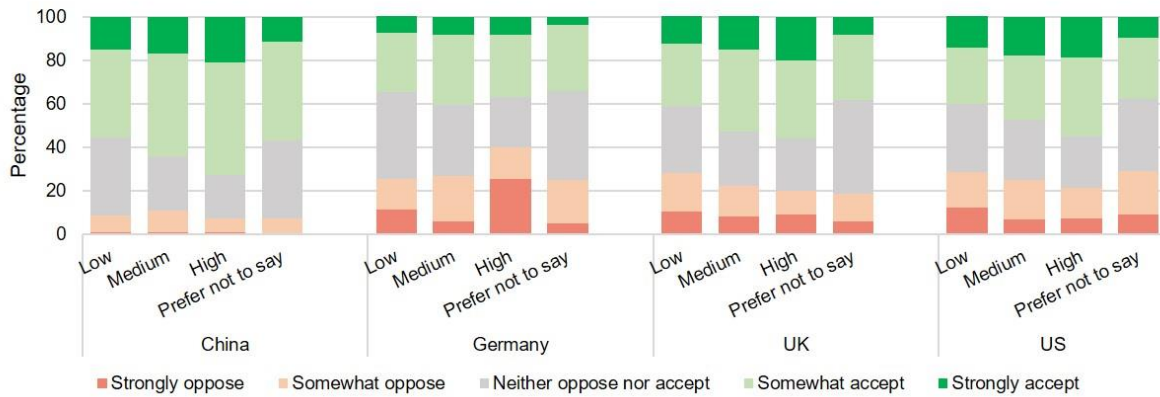
Standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

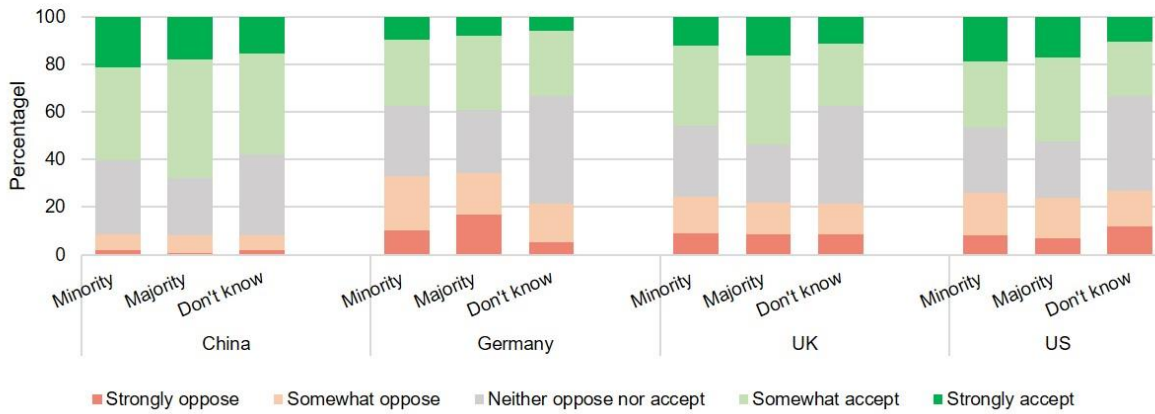
Figure S1 Social acceptance and socio-demographic factors (total sample, weighted, in%)



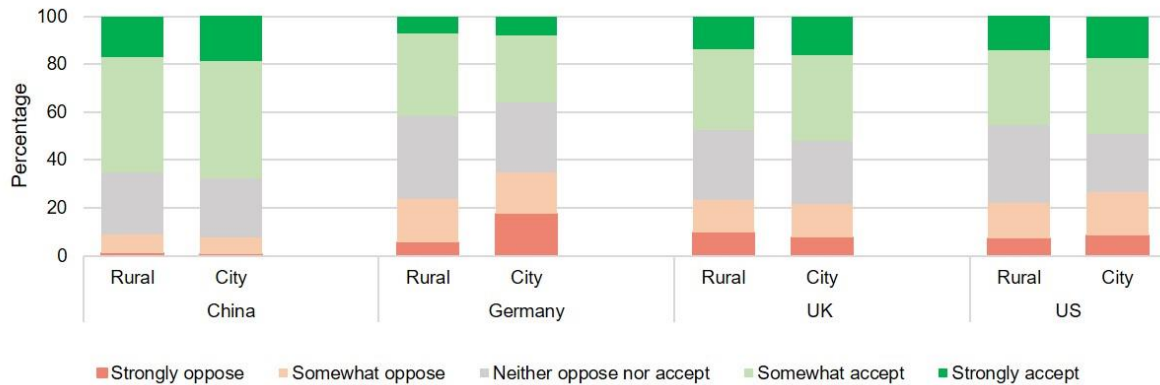
Acceptance of FRT by Income



Acceptance of FRT by Ethnicity



Acceptance of FRT by City/Rural



Note: N= 6.099; education was grouped as follows: low (no formal education); medium (high school diploma or equivalent & vocational training); and high (bachelor's degree & master's or doctorate's degree). Income was grouped as follows: For GER, UK, US: low (under 250-1.000), medium (1.000-4.000), High (above 4.000); prefer not to say; For China: low (under 700-2.100), medium (2.100-5.200), high (above 5.200), prefer not to say; in local currency.

Table 2: Use occasions by country (On which of the following occasions have you seen facial recognition technology being used? Respondents answering with yes in %, weighted)

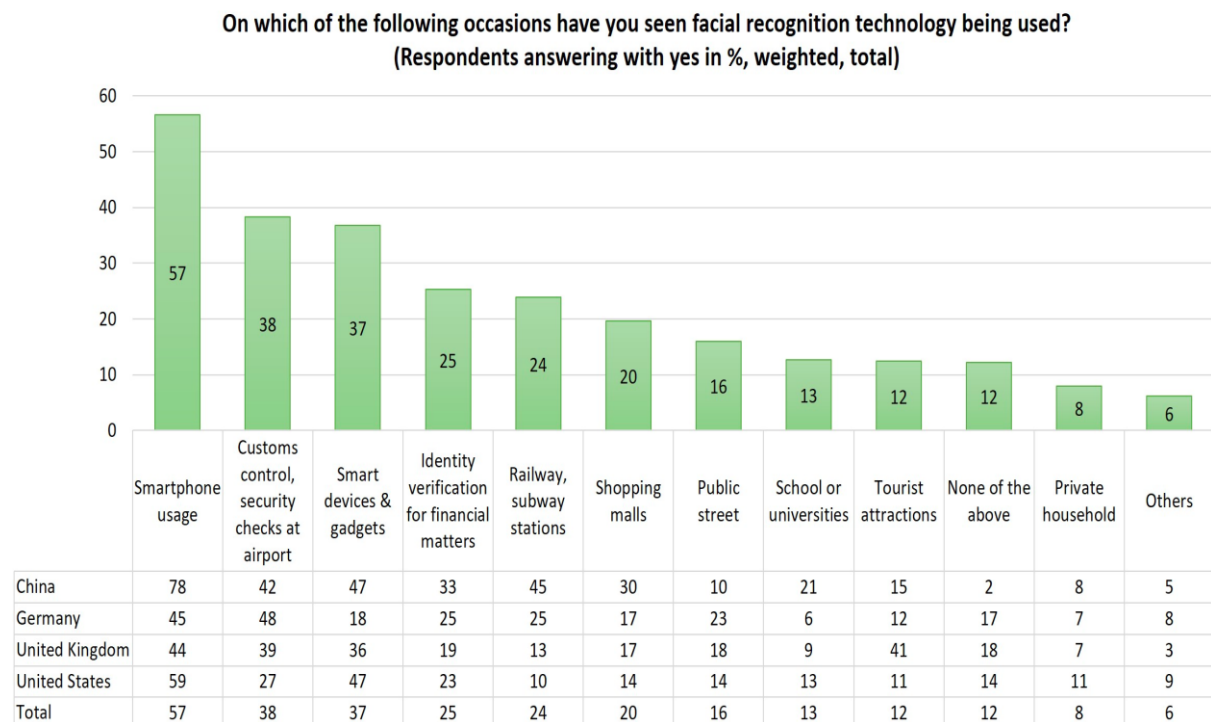


Figure S3: FRT Providers - country distribution

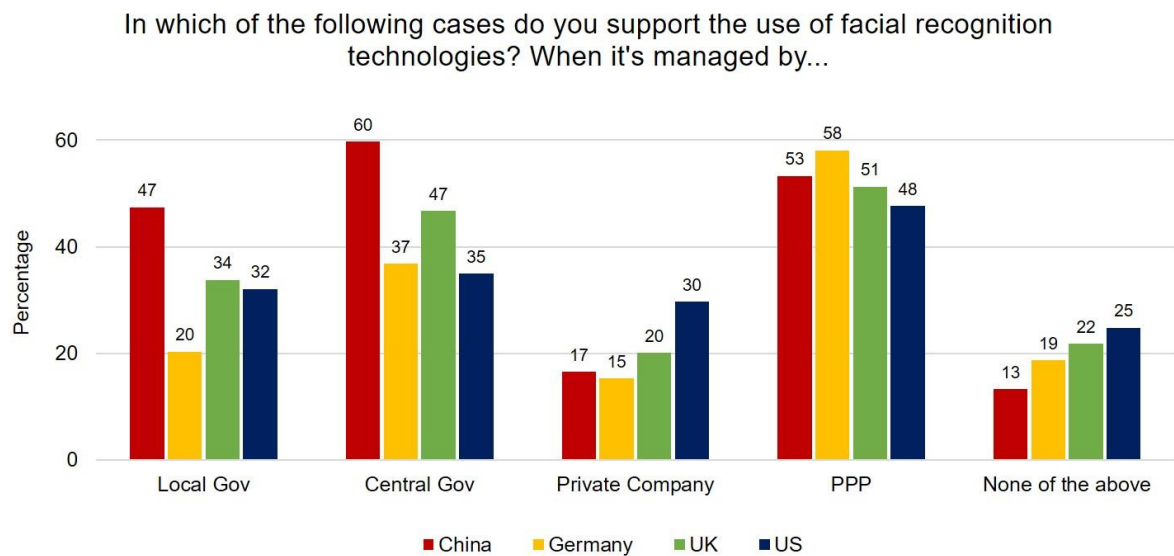


Figure S4: Experience – Private Use

