

## S2 Appendix

### First stage regressions for the 2SLS estimations

#### Global model

Table 1: First stage regressions for Table 5

	<i>Dependent variable:</i>			
	Internet users	Broadband users	Mobile phone users	Fixed phone users
	(1)	(2)	(3)	(4)
Female labour force (%)	1.490*** (0.223)	0.696*** (0.148)	-0.280* (0.150)	-2.040*** (0.391)
Population density (log)	-598.644 (499.831)	379.944 (292.430)	-1,511.189*** (402.110)	770.219 (522.031)
Government expenditure (% GDP)	0.283 (0.287)	0.759*** (0.164)	-0.291* (0.172)	-0.528 (0.587)
Trade (% of GDP)	-0.202*** (0.038)	-0.141*** (0.021)	0.087*** (0.030)	-0.392*** (0.073)
Non agriculture value added (% GDP)	-0.450 (0.280)	0.261 (0.200)	-0.045 (0.141)	-0.902** (0.381)
GDP growth	-0.442*** (0.127)	-0.269*** (0.058)	0.042 (0.090)	-0.648*** (0.201)
GDP per capita (log)	10.580*** (2.566)	-4.975*** (1.495)	5.716** (2.377)	7.812* (4.470)
Population (log)	564.464 (500.326)	-456.424 (292.870)	1,528.552*** (404.067)	-759.195 (524.060)
Constant	-7,950.049 (7,025.000)	6,596.284 (4,113.831)	-21,536.980*** (5,685.467)	10,773.260 (7,356.142)
Country fixed effects	Yes	Yes	Yes	Yes
Yearly fixed effects	Yes	Yes	Yes	Yes
Observations	844	757	865	867
Adjusted R <sup>2</sup>	0.951	0.929	0.951	0.915
Residual Std. Error	189.094	97.068	121.132	371.310

Note:

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01  
Robust Std. Errors in parenthesis

Table 2: F tests for IV (female labour force (%)) from first stage regressions for Table 5

	F	p
internet users	75.726	0
broadband users	57.339	0
mobile phone users	7.066	0.008
fixed telephony users	39.818	0

## US model

Table 3: First stage regressions for Table 8

	<i>Dependent variable:</i>	
	% of households w. internet 2013	
	(1)	(2)
bachelors degree per hab. 2005	0.007*** (0.001)	0.007*** (0.001)
commute in minutes 2005		0.003
population 2013 (log)	0.002 (0.003)	0.002 (0.003)
% of unemployment 2013	0.004*** (0.001)	0.005*** (0.001)
% of white population 2013	0.158*** (0.029)	0.162*** (0.029)
income 2013 (log)	0.211*** (0.024)	0.215*** (0.024)
population density 2013	−0.001 (0.002)	−0.001 (0.002)
% of employment in service 2011	0.001* (0.0004)	0.001 (0.0004)
commute in minutes 2012	−0.0003 (0.001)	−0.003*** (0.001)
Constant	−1.765*** (0.240)	−1.801*** (0.240)
Observations	443	443
Adjusted R <sup>2</sup>	0.667	0.670
Residual Std. Error	0.041	0.041

*Note:*

\*p<0.1; \*\*p<0.05; \*\*\*p<0.01  
Robust Std. Error in parenthesis

Table 4: F tests for IVs from first stage regressions for Table 8

	F	p
bachelors degree per hab., 2005	129.773	0
the above + commute in minutes, 2005	67.772	0

## UK model

Table 5: First stage regressions for Table 11

	<i>Dependent variable:</i>	
	download speed, 2011 (log)	
	(1)	(2)
N. of universities	-0.089*** (0.033)	0.029 (0.018)
N. of broadband tests, 2011		-0.0002*** (0.00002)
population, 2011 (log)	0.175*** (0.011)	0.233*** (0.013)
broadband tests per capita, 2011	-0.195 (0.186)	0.083 (0.147)
% of unemployment, 2011	-0.816 (0.553)	-1.025* (0.548)
% of British population, 2011	0.213* (0.130)	-0.120 (0.133)
population density, 2011	0.002* (0.001)	0.002 (0.001)
% of people working from home, 2011	0.383 (0.299)	0.708** (0.298)
employment in service, 2011 (%)	0.203 (0.221)	0.158 (0.220)
Constant	6.298*** (0.267)	6.191*** (0.263)
Observations	3,032	3,032
Adjusted R <sup>2</sup>	0.208	0.227
Residual Std. Error	0.498	0.492
<i>Note:</i> *p<0.1; **p<0.05; ***p<0.01 Robust Std. Errors		

Table 6: F tests for IVs from first stage regressions for Table 8

	F	p
N. of universities	9.992	0.002
the above + N. of broadband tests, 2011	41.799	0