



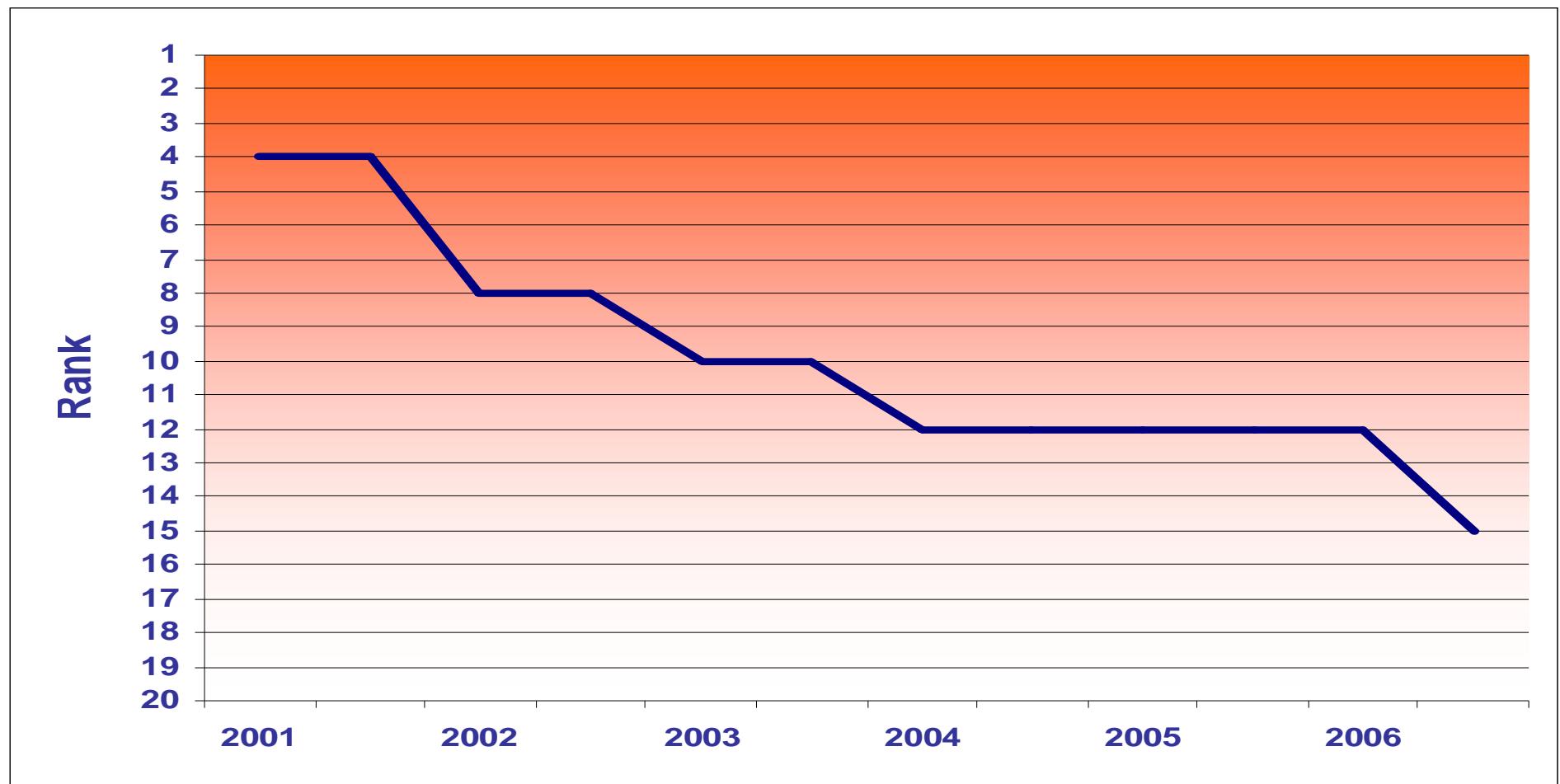
The Information Technology & Innovation Foundation

I T I F

The Case for a National Broadband Policy

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U.S. Ranking Among OECD Countries in Broadband Penetration

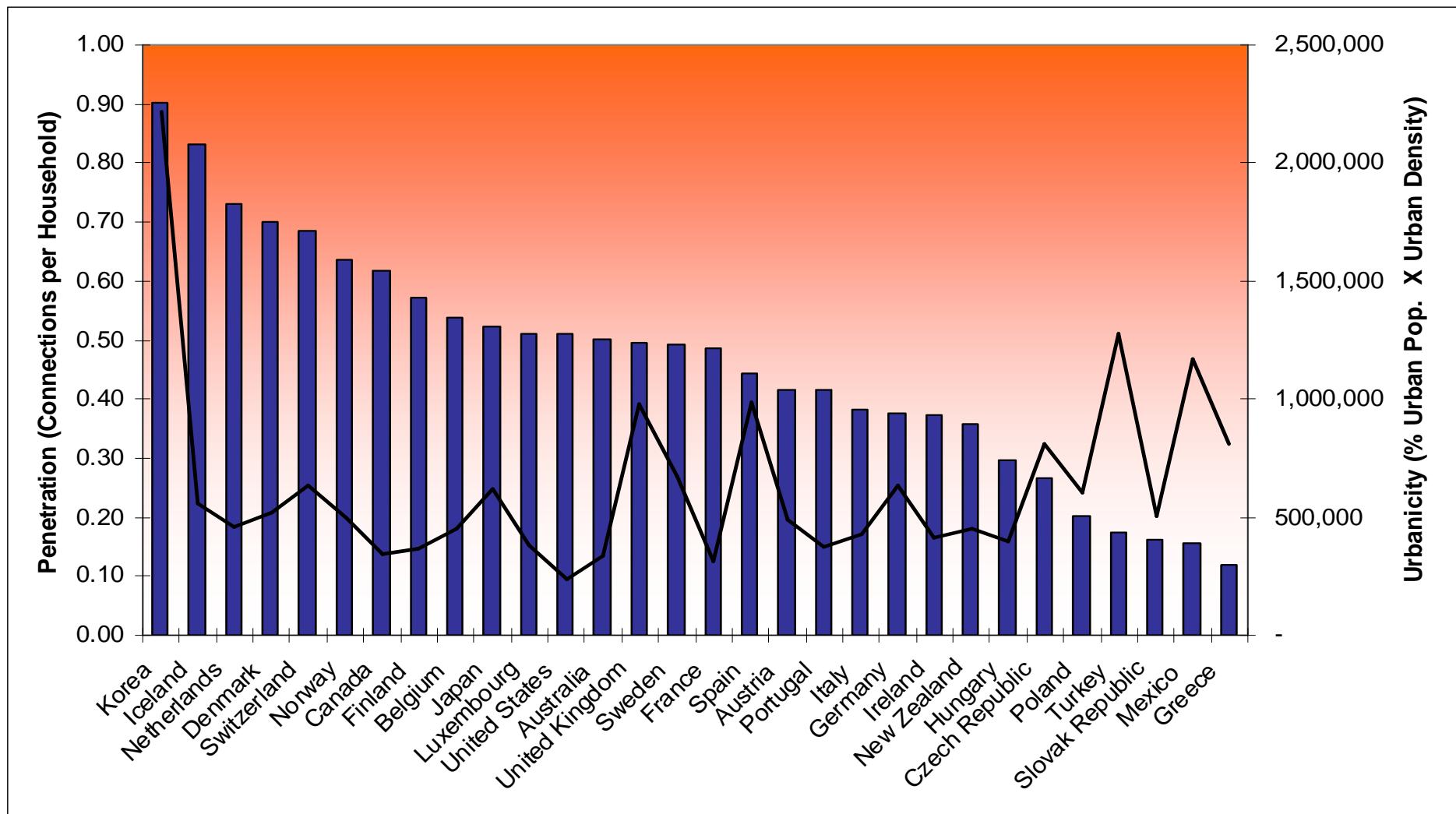


Source: OECD Directorate for Science, Technology, and Industry, "Broadband Statistics to December 2006," (April 2007).

Leading Complaints/Excuses

- OECD excludes students and workers who get broadband for free.
- U.S. leads world in broadband subscribers.
- U.S. ranks more favorably on Internet users.
- U.S. is less urban.
- Per-capita is the wrong measure.

Penetration vs. “Urbanicity”



Sources: OECD Directorate for Science, Technology, and Industry; United Nations, Population Division; Demographia and ITIF calculations.

Penetration: Per Household vs. Per Capita

Nation	Per Household	Per Capita
Australia	13	16
Austria	18	17
Belgium	9	10
Canada	7	9
Czech Republic	25	25
Denmark	4	1
Finland	8	7
France	16	13
Germany	21	18
Greece	30	28
Hungary	24	24
Iceland	2	3
Ireland	22	23
Italy	20	20
Japan	10	14

Nation	Per Household	Per Capita
Korea	1	4
Luxembourg	11	12
Mexico	29	30
Netherlands	3	2
New Zealand	23	21
Norway	6	6
Poland	26	26
Portugal	19	22
Slovak Republic	28	27
Spain	17	19
Sweden	15	8
Switzerland	5	5
Turkey	27	29
U.K.	14	11
United States	12	15

Sources: OECD Directorate for Science, Technology, and Industry and ITIF calculations.



ITIF Broadband Rankings

Rank	Nation	Penetration	Speed	Price	Overall Score
		Subscribers per Household	Average Speed (mbps)	Price per Month for 1 mbps of Fastest Technology (USD PPP)	
1	Korea	0.90	45.6	0.45	15.73
2	Japan	0.52	61.0	0.27	14.99
3	Iceland	0.83	6.0	4.99	12.14
4	Finland	0.57	21.7	2.77	12.11
5	Netherlands	0.73	8.8	4.31	11.87
6	Sweden	0.49	18.2	0.63	11.54
7	France	0.49	17.6	1.64	11.41
8	Denmark	0.70	4.6	4.92	11.37
9	Norway	0.64	7.4	4.04	11.29
10	Canada	0.62	7.6	6.50	11.11
11	Belgium	0.54	6.2	6.69	10.60
12	United States	0.51	4.8	3.33	10.47
13	Switzerland	0.68	2.3	21.71	10.40
14	Australia	0.50	1.7	2.39	10.23
15	Austria	0.42	7.3	5.99	10.08
16	Portugal	0.42	8.1	10.99	9.92
17	United Kingdom	0.50	2.6	11.02	9.92
18	Germany	0.38	6.0	5.20	9.81
19	Italy	0.38	4.2	3.36	9.78
20	Luxembourg	0.51	3.1	18.48	9.71
21	Spain	0.44	1.2	12.46	9.48
22	New Zealand	0.36	2.3	9.20	9.26
23	Ireland	0.37	2.2	13.82	9.14
24	Poland	0.20	7.5	13.00	8.69
25	Czech Republic	0.27	1.6	24.10	8.11
26	Hungary	0.30	3.0	44.24	7.53
27	Greece	0.12	1.0	33.19	6.93
28	Slovak Republic	0.16	2.8	50.15	6.58
29	Mexico	0.16	1.1	60.01	6.00
30	Turkey	0.17	2.0	115.76	3.81
Average		0.46	9.0	16.52	10.00

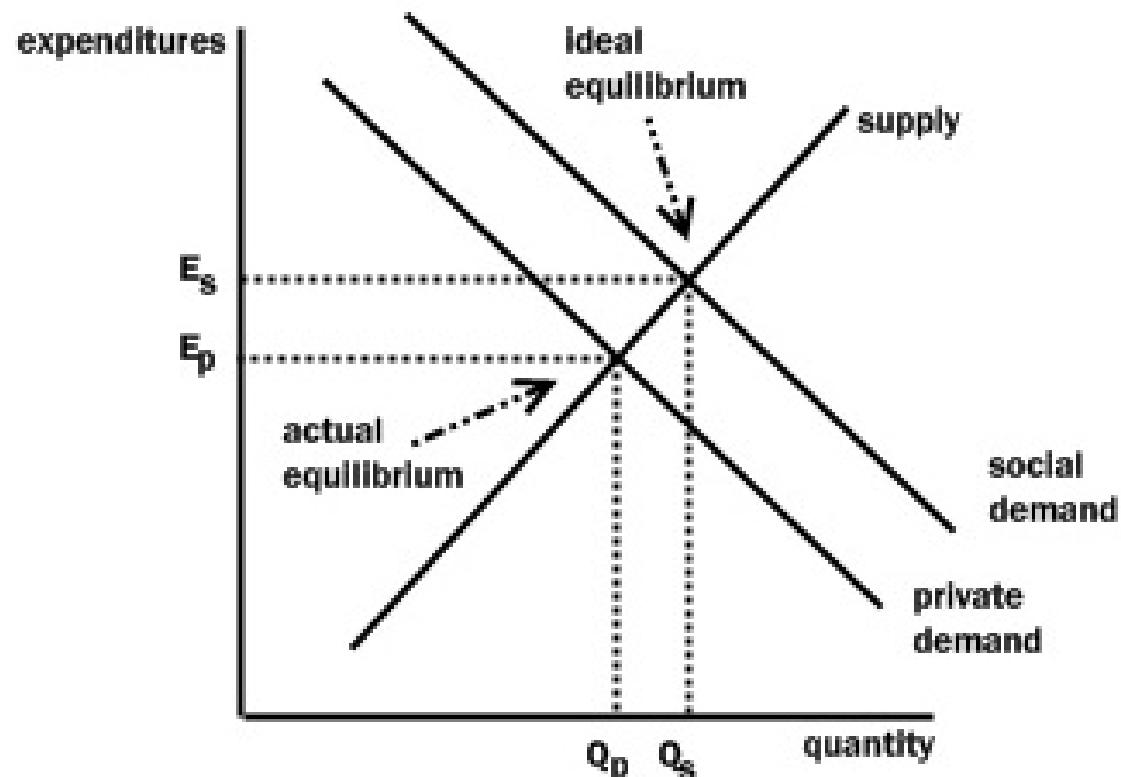
Sources: OECD Directorate for Science, Technology, and Industry and ITIF calculations.

Broadband Externalities:



Broadband is not an iPod

Supply and Demand for Broadband with Positive Externalities



Broadband Externalities

- 1) network externalities
- 2) “prosumer” investment externalities
- 3) competitiveness externalities
- 4) regional externalities

BB Policy Recommendation Matrix

	Proactive	Removal of Barriers
Demand Side	<ul style="list-style-type: none">• More public content (e.g., PBS, digital lending library)• Incentives for Telework, telemedicine, and e-learning;• E-government• Digital literacy programs• USF for BB	<ul style="list-style-type: none">• Web radio royalty fees• Telework tax clarification• Internet tax moratorium
Supply Side	<ul style="list-style-type: none">• Tax incentives• Next generation network R&D• Rural BB funding• State BB programs	<ul style="list-style-type: none">• More spectrum for data• Broadband mapping• Removal of Regulatory Barriers



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