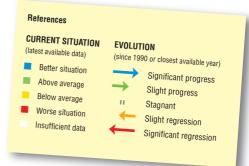


INFORMATION, SCIENCE AND TECHNOLOGY

Overlapping inequalities



\rightarrow Colombia (89) 104 \rightarrow 42 \rightarrow 168 \rightarrow 109 \rightarrow 8.5 \blacksquare 0.2	Complete table at: www.socialwatch.org/statistics2007													
→ Albania (95) 60 → 12 → 88 → Algaria (95) 58 → 11 → 78 → 2.4 II — American Samoa (—) 11 → 2 → 6 II → Argentina (94) 177 → 83 → 227 → 720 → 7.1 → 0.4 → Argentina (94) 177 → 83 → 227 → 720 → 7.1 → 0.4 → 0.2 → 0.2 → 0.2 → 0.2 → 0.2	CURRENT SITUATION (colour) EVOLUTION		US (per	SERS 1,000	COMP (per	UTERS 1,000	MAIN (per	ILINES 1,000	ENGINE RESEAR DEVELO (per n	EERS IN ICH AND IPMENT Inillion	COMMUI TECHN Expen	ND Nication Iology Diture	DEVELO Expend	PMENT DITURE
→ Algeria (95) 58 → 11 → 78 → 2.4 II — American Samoa (—) 112 → 6 II → Angloa (—) 11 → 2 6 II → Angloa (—) 350 → 467 → 720 → 7.1 → 0.4 → Australia (96) 53 → 66 + 92 → 0.3 → 0.3 → Australia (99) 698 → 683 → 564 → 3759 → 6.2 II 1.7 → Australia (99) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → 9.3 + 3.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.3 → 9.4 → 9.4 → 9.4	_	Afghanistan (—)	1	\rightarrow			3	п						
- American Samoa (→) - Angola (→) - Angola (→) - Angola (→) - Antigua and Barbuda (→) - Asyentina (94) - Argentina (94) - Argentina (96) - Argentina (98) - Argentina (98) - Asyentina (99) - Bay Australia (99) - Bay Bahamas (→) - Bahamas (→) - Bahrain (99) - Ba	\rightarrow	Albania (95)	60	\rightarrow	12	\rightarrow	88	\rightarrow						
→ Angola (—) 11 → 2 → 6 II — Antigua and Barbuda (—) 350 → 467 → → Argentina (94) 177 → 83 → 227 → 720 → 7.1 → 0.4 → Armenia (96) 53 → 66 → 192 → 0.3 → Austria (99) 698 ← 683 → 564 → 3759 → 6.2 II 1.7 → Austria (99) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → Azerbaijan (91) 81 → 23 130 → - 303 → 349	\rightarrow	Algeria (95)	58	\rightarrow	11	\rightarrow	78	\rightarrow			2.4	П		
- Antigua and Barbuda (→) → Argentina (94) → Argentina (96) → Armenia (96) → Sa → 66 → 192 → → Australia (99) → Bahamas (→) → Barbados (99) → Barbados (99) → Barbados (99) → Belizu (97) → Boosia and Herzegovina (→) → Boosia and Herzegovina (→) → Brazil (89) → Burndii (56) → Soosia and Herzegovina (→) → Camboton (70) → Canada (99) → Cameroon (70) → Caneroon (70	_	American Samoa (—)					182							
→ Argentina (94) 177 → 83 → 227 → 720 → 7.1 → 0.4 → Armenia (96) 53 → 66 → 192 → 0.3 → Australia (99) 698 → 683 → 564 → 3759 → 6.2 II 1.7 → Austria (99+) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → Azerbaijan (91) 81 → 23 130 → - 2968 → 5.5 II 2.3 → Barbaria (99) 213 → 169 → 270 → - 319 → 270 → → Barbados (99) 594 → 148 → 500	\rightarrow	Angola (—)	11	\rightarrow	2	\rightarrow	6	П						
→ Armenia (96) 53 → 66 → 192 → 0.3 → Austria (99) 698 → 683 → 564 → 3759 → 6.2 II 1.7 → Austria (99+) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → Azerbaijan (91) 81 → 23 130 → 0.3 → Bahrain (99) 213 → 169 → 270 → → → Banjadaesh (57) 3 → 12 → 8 → 2.4 II 0.6 → Barbados (99) 594 → 148 → 500 → 0.6 → → Belgium (99+) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belize (91) 130 → 132 → 114 → → - <td>_</td> <td>Antigua and Barbuda ()</td> <td>350</td> <td>\rightarrow</td> <td></td> <td></td> <td>467</td> <td>\longrightarrow</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	_	Antigua and Barbuda ()	350	\rightarrow			467	\longrightarrow						
→ Australia (99) 698 → 663 → 564 → 3759 → 6.2 II 1.7 → Austria (99+) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → Azerbaijan (91) 81 → 23 130 → 0.3 → Bahamas (-) 319 → 439 → - → Bahrain (99) 213 → 169 → 270 → → Banjadesh (57) 3 → 12 → 8 → 2.4 II 0.6 → Barbados (99) 594 → 148 → 500 → - - 0.6 → Belarus (97) 347 → 336 → 2.4 II 0.6 - → Belizus (97) 130 → 132 → 114 → 3065 → 5.8 II 1.9 → Belizus (91) 130 → 132 → 114 → 3065 → 5.8 II 1.9 → Bermuda (-) 664 → 543 → 895 → → → → → → → </td <td>\rightarrow</td> <td>Argentina (94)</td> <td>177</td> <td>\rightarrow</td> <td>83</td> <td>\rightarrow</td> <td>227</td> <td>\longrightarrow</td> <td>720</td> <td>\rightarrow</td> <td>7.1</td> <td>\rightarrow</td> <td>0.4</td> <td>Ш</td>	\rightarrow	Argentina (94)	177	\rightarrow	83	\rightarrow	227	\longrightarrow	720	\rightarrow	7.1	\rightarrow	0.4	Ш
→ Austria (99+) 486 → 607 → 450 → 2968 → 5.5 II 2.3 → Azerbaijan (91) 81 → 23 130 → 0.3 → Bahamas (-) 319 → 439 → → → Bahrain (99) 213 ↑ 169 → 270 → → → Bandados (99) 594 → 148 → 500 → → → Belazus (97) 347 → 336 → 0.6 → Belazus (97) 347 → 366 → 5.8 II 1.9 → Belizus (97) 347 → 366 → 5.8 II 1.9 → Belizus (97) 130 → 132 → 114 → 9 → → Belizus (91) 130 → 132 → 114 → + 9 → → Bermuda (\rightarrow	Armenia (96)	53	\rightarrow	66	\rightarrow	192	\rightarrow					0.3	ш
→ Azerbaijan (91) 81 → 23 130 → 0.3 — Bahman (-) 319 → 439 → Bahrain (99) 213 → 270 → → Banral (99) 213 → 169 → 270 → → 0.6 → Barbados (99) 594 → 148 → 500 → 0.6 → Belizus (97) 347 → 336 → 0.6 → Belizus (97) 347 → 336 → 0.6 → Belizus (91) 130 → 132 → 114 → → Belizus (91) 130 → 132 → 114 → + → Benin (73) 50 → 4 → 9 → + <	\rightarrow	Australia (99)	698	\rightarrow	683	\rightarrow	564	\rightarrow	3759	\rightarrow	6.2	П	1.7	ш
Bahamas () 319 → 439 → Bahrain (99) 213 → 169 → 270 → 3.4	\rightarrow	Austria (99+)	486	\rightarrow	607	\longrightarrow	450	\rightarrow	2968	\longrightarrow	5.5	П	2.3	Ш
→ Bahrain (99) 213 → 169 → 270 → → Bangladesh (57) 3 → 12 → 8 → 2.4 II 0.6 → Barbados (99) 594 → 148 → 500 → 0.6 → → Belarus (97) 347 → 336 → 0.6 → → Belgium (99+) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belius (91) 130 → 132 → 114 → → → 1.9 → Bermuda (-) 664 → 543 → 895 →	\rightarrow	Azerbaijan (91)	81	\rightarrow	23		130	\rightarrow					0.3	Ш
→ Bangladesh (57) 3 → 12 → 8 → 2.4 II 0.6 → Barbados (99) 594 → 148 → 500 → 0.6 → Belarus (97) 347 → 336 → 0.6 → Belgium (99+) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belize (91) 130 → 132 → 114 → 9 → 144 → 9	_	Bahamas (—)	319	\rightarrow			439	\rightarrow						
→ Barbados (99) 594 → 148 → 500 → → Belarus (97) 347 → 336 → 0.6 → Belizus (91) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belize (91) 130 → 132 → 114 → </td <td>\rightarrow</td> <td>Bahrain (99)</td> <td>213</td> <td>\rightarrow</td> <td>169</td> <td>\rightarrow</td> <td>270</td> <td>\rightarrow</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	\rightarrow	Bahrain (99)	213	\rightarrow	169	\rightarrow	270	\rightarrow						
→ Belarus (97) 347 → 336 → 0.6 → Belgium (99+) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belize (91) 130 → 132 → 114 → - - 8081 1.9 -	\rightarrow	Bangladesh (57)	3	\rightarrow	12	\rightarrow	8	\rightarrow			2.4	п	0.6	Ш
→ Belgium (99+) 458 → 348 → 461 → 3065 → 5.8 II 1.9 → Belize (91) 130 → 132 → 114 → → Bermuda (—) 664 → 543 → 895 → → → → Bermuda (—) 664 → 543 → 895 →	\rightarrow	Barbados (99)	594	\rightarrow	148	\rightarrow	500	\rightarrow						
→ Belize (91) 130 → 132 → 114 → → Benin (73) 50 → 4 → 9 → → Bermuda (—) 664 → 543 → 895 → → Bhutan (69) 39 → 20 → 51 → → Bolivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 - Bosnia and Herzegovina (—) 206 → 248 →	\rightarrow	Belarus (97)	347	\rightarrow			336	\rightarrow					0.6	ш
→ Belize (91) 130 → 132 → 114 → → Berin (73) 50 → 4 → 9 → → Bermuda (¬) 664 → 543 → 895 → → Bhutan (69) 39 → 20 → 51 → → Bosivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 - Bosnia and Herzegovina (¬) 206 → 248 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 II Bulgaria (97) 206 → 59 → 321 → 1263 → 3.8 II 0.5 → Burkina Faso (71) 5 → 2 II 7 → → → → → → → → → → 3.8 II 0.5 → Burundi (56) 5 → 5 → 4 II → → → → → → → → → → → → → → → → <td>\rightarrow</td> <td>` '</td> <td>458</td> <td>\rightarrow</td> <td>348</td> <td>\rightarrow</td> <td>461</td> <td>\rightarrow</td> <td>3065</td> <td>\rightarrow</td> <td>5.8</td> <td>п</td> <td>1.9</td> <td>ш</td>	\rightarrow	` '	458	\rightarrow	348	\rightarrow	461	\rightarrow	3065	\rightarrow	5.8	п	1.9	ш
→ Benin (73) 50 → 4 → 9 → → Bermuda (—) 664 → 543 → 895 → → Bhutan (69) 39 → 20 → 51 → → Bolivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 − Bosnia and Herzegovina (—) 206 → 248 → → Botswana (91) 34 → 45 → 75 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 □ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 □ 0.5 → Burkina Faso (71) 5 → 2 □ 7 → → Burundi (56) 5 → 5 → 4 □ 7 → → Cambodia (59) 3 → 3 → 3 □ 1 → Canada (99) 520 → 700 → 566 → 3597 → 5.9 □ 1.9 → Cape Verde (92) 49 → 97 → 141 → 127 → → Central African Republic (—) 3 → 3 → 2 □ 1 □ Chile (99) 172 → 141 → 211 → 444 → 6.1 □ 0.6 → Chile (99) 172 → 141 → 211 → 444 → 6.1 □ 0.6 → Chile (99) 172 → 141 → 269 → 708 → 5.3 → 1.4 → Colombia (89) 104 → 42 → 168 → 109 → 8.5 □ 0.2		. , ,	130	\rightarrow	132	\rightarrow	114	\rightarrow						
→ Bhutan (69) 39 → 20 → 51 → → Bolivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 — Bosnia and Herzegovina (—) 206 → 248 → → → Botswana (91) 34 → 45 → 75 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 □ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 □ 0.5 → Burkina Faso (71) 5 → 2 □ 7 → + + - <td< td=""><td>\rightarrow</td><td>` '</td><td>50</td><td>\rightarrow</td><td>4</td><td>\rightarrow</td><td>9</td><td>\rightarrow</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	\rightarrow	` '	50	\rightarrow	4	\rightarrow	9	\rightarrow						
→ Bhutan (69) 39 → 20 → 51 → → Bolivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 — Bosnia and Herzegovina (—) 206 → 248 → → → Botswana (91) 34 → 45 → 75 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 □ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 □ 0.5 → Burkina Faso (71) 5 → 2 □ 7 → + + - <td< td=""><td>\rightarrow</td><td>Bermuda (—)</td><td>664</td><td>\rightarrow</td><td>543</td><td>\rightarrow</td><td>895</td><td>\rightarrow</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	\rightarrow	Bermuda (—)	664	\rightarrow	543	\rightarrow	895	\rightarrow						
→ Bolivia (80) 52 → 23 → 70 → 120 → 5.5 → 0.3 — Bosnia and Herzegovina (—) 206 → 248 → → Bolivia (80) 34 → 45 → 75 → → → → 1 → Bolivia (80) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 0 → Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 II 0.5 → Burkina Faso (71) 5 → 2 II 7 → → - - - - 3.8 II 0.5 → -	\rightarrow	` '		\rightarrow	20	\rightarrow	51	\rightarrow						
— Bosnia and Herzegovina (─) 206 → 248 → → Botswana (91) 34 → 45 → 75 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 □ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 □ 0.5 → Burkina Faso (71) 5 → 2 □ 7 → → Burundi (56) 5 → 5 → 4 □ → Cambodia (59) 3 → 3 □ 1 5 → → → Cameroon (70) 15 → 10 → 6 □ 5 → 5 → → Cape Verde (92) 49 → 97 → 141 → 127 → <		, ,							120	\rightarrow	5.5	\rightarrow	0.3	ш
→ Botswana (91) 34 → 45 → 75 → → Brazil (89) 195 → 105 → 230 → 344 7.8 → 1 → Brunei Darussalam (97) 277 → 85 → 224 → 274 0 □ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 □ → Burkina Faso (71) 5 → 2 □ 7 → → Burundi (56) 5 → 5 → 4 □ → Cambodia (59) 3 → 3 → 3 □ → Cameroon (70) 15 → 10 → 6 □ 5 → → Canada (99) 520 → 700 → 566 → 3597 → 5.9 □ 1.9 → Cape Verde (92) 49 → 97 → 141 → 127 → → Central African Republic (—) 3 → 3 → 2 □ □ Chile (99) 172 → 141 → 211 → 444 → 6.1 □ 0.6 →		,												
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→ Brunei Darussalam (97) 277 → 85 → 224 → 274 0 ■ Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 II 0.5 → Burundi (56) 5 → 2 II 7 → → Cambodia (59) 3 → 3 II III → Cameroon (70) 15 → 10 → 6 II 5 → → Canada (99) 520 → 700 → 566 → 3597 → 5.9 II 1.9 → Cape Verde (92) 49 → 97 → 141 → 127 → → Central African Republic (—) 3 → 2 II II II → Chile (99) 172 → 141 → 211 → 444 →		,							344		7.8	\rightarrow	1	- 11
II Bulgaria (97) 206 → 59 → 321 → 1263 ← 3.8 II 0.5 → Burkina Faso (71) 5 → 2 II 7 → → Burundi (56) 5 → 5 → 4 II → Cambodia (59) 3 → 3 → 3 II → Cameroon (70) 15 → 10 → 6 II 5 → → Canada (99) 520 → 700 → 566 → 3597 → 5.9 II 1.9 → Cape Verde (92) 49 → 97 → 141 → 127 → → Central African Republic (—) 3 → 3 → 2 II II Chad (43) 4 → 2 II 1 → Chile (99) 172 → 141 → 211 → 444 → 6.1 II 0.6 → China (93) 85 → 41 → 269 → 708 → 5.3 → 1.4 → Colombia (89) 104 → 42 → 168 → 109 → 8.5 II 0.2	,	, ,												
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→ Chile (99) 172 → 141 → 211 → 444 → 6.1 II 0.6 → China (93) 85 → 41 → 269 → 708 → 5.3 → 1.4 → Colombia (89) 104 → 42 → 168 → 109 → 8.5 II 0.2		1 ()												
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\rightarrow Colombia (89) 104 \rightarrow 42 \rightarrow 168 \longrightarrow 109 \rightarrow 8.5 \blacksquare 0.2														\rightarrow
		, ,												11
	\rightarrow	Comoros (72)	33	\rightarrow	9	\rightarrow	28	\rightarrow	103		0.0		0.2	
Congo, Rep. (80) 13 \rightarrow 4 \rightarrow 4 \leftarrow 30 \leftarrow									30	4				
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Summary: CURRENT SITUATION (colour) EVOLUTION (arrow-icon)	COUNTRIES (BCI value, 0-100)	INTERNET USERS (per 1,000 people)	PERSONAL Computers (per 1,000 people)	TELEPHONE MAINLINES (per 1,000 people)	SCIENTISTS AND ENGINEERS IN RESEARCH AND DEVELOPMENT (per million people)	INFORMATION AND COMMUNICATION TECHNOLOGY EXPENDITURE (% of GDP)	RESEARCH AND DEVELOPMENT EXPENDITURE (% of GDP)
\rightarrow	Cyprus (99+)	430	337	554	630 →		0.4
\rightarrow	Czech Republic (99)	270	240	314	1594 ->	7.1 II	1.3
\rightarrow	Denmark (99+)	527	656	619 ->	5016	6 II	2.6
\rightarrow	Djibouti (78)	13 →	24 →	14 →			
\rightarrow	Dominica (94)	361	182	293			
_	Dominican Republic (85)	169		101 →			
11	Ecuador (81)	47 →	39 →	129 ->	50 ←	3.2	0.1
\rightarrow	Egypt (90)	68 →	38 →	140>		1.5 11	0.2
\longrightarrow	El Salvador (80)	93 ->	51 →	141	47 →		
\rightarrow	Equatorial Guinea (59)	14 →	14 →	20 ->			
\rightarrow	Eritrea (67)	16 →	8 ->	9 ->			
\longrightarrow	Estonia (99)	513	483	328	2523 ->		0.9
\rightarrow	Ethiopia (50)	2 ->	3 →	9 ->			
_	Faeroe Islands (—)	646	•	419			
\rightarrow	Fiji (99)	77 →	52 →	122 ->			
\rightarrow	Finland (99+)	534	481	404 ←	7832	6.9	3.5 →
\rightarrow	France (99+)	430	575	586	3213 ->	6.3 II	2.2
\longrightarrow	French Polynesia (—)	214	109 →	208 ->			
\rightarrow	Gabon (82)	48 →	33 →	28 ->			
\rightarrow	Gambia (70)	33 →	16 →	29 ->			
\rightarrow	Georgia (95)	39 →	43 →	151 ->			0.3
\rightarrow	Germany (99+)	455	545	667	3261 ->	6.1 II	2.5
\rightarrow	Ghana (66)	18 →	5 →	15 ->			
\rightarrow	Greece (99+)	180 →	89 ->	568	1413 ->	4.1 II	0.6
_	Greenland (—)	668	•	448			
\longrightarrow	Grenada (92)	182	151 →	309			
_	Guam (—)	383	•	506			
\rightarrow	Guatemala (72)	79 →	19 →	99 →			
\rightarrow	Guinea (68)	5 ->	5 →	3 11			
_	Guinea-Bissau (—)	20 →		7 11			
\rightarrow	Guyana (81)	213	39 →	147			
	Haiti (—)	70 ->		17 →			
\rightarrow	Honduras (76)	36 →	16 →	69 -		4.6	0 11
\rightarrow	Hong Kong (—)	508	,	546	1564	8.9	0.6
→	Hungary (97)	297	146 →	333 -	1472 →	5.8 ←	0.9
\rightarrow	Iceland (99+)	869		653	6807	5.0	3
→	India (71)	55 →	16 →	45 →	119 * ←	5.8	0.8
\rightarrow	Indonesia (85)	73 →	14 →	58 ->	207	3.4	0.1
\rightarrow	Iran (91)	103 →	109 ->	278	1279 →	2.5 →	
	Iraq (79)	1 →	8	37 11	2674	4.4	1.0
	Ireland (99+)	276		489	2674	4.4	1.2
\rightarrow	Israel (99+) Italy (99)	470		424 → 427 →	1213 ←	8.3 II 4.3 II	4.5 ————————————————————————————————————
\rightarrow	Jamaica (95)	478		427 → 129 →	1210	10.6	0.1
\rightarrow	Jamaica (95) Japan (99+)	668		460 →	5287 →	7.5	3.1
\rightarrow	Jordan (99)	118 →	56 →	460 → 119 →	1927 *	8.4	3.1
11	Kazakhstan (95)	27 ->	30 -	167	629	0.4	0.2
\rightarrow	Kenya (68)	32 →	9 →	8 11	023	2.8	0.2
\rightarrow	Kiribati (88)	20 →	10 →	47 →		2.0	
_	Korea, DR (—)	20	10	44 ->			
\rightarrow	Korea, Rep. (99)	684	545	492	3187	6.9 II	2.6
\rightarrow	Kuwait (99)	276		201 →	0107	1.4	0.2
\rightarrow	Kyrgyzstan (96)	54 →	19 →	85 ->			0.2
\rightarrow	Lao, PDR (58)	4 ->	17 ->	13 ->			5.2
\rightarrow	Latvia (99)	448 -		318 →	1434 →		0.4
-	(/	, ,		,	,		

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Summary: CURRENT SITUATION (colour) EVOLUTION (arrow-icon)	COUNTRIES (BCI value, 0-100)	INTERNET USERS (per 1,000 people)		PERSONAL COMPUTERS (per 1,000 people)		TELEPHONE MAINLINES (per 1,000 people)		SCIENTISTS AND ENGINEERS IN RESEARCH AND DEVELOPMENT (per million people)		INFORMATION AND COMMUNICATION TECHNOLOGY EXPENDITURE (% of GDP)		RESEARCH AND DEVELOPMENT EXPENDITURE (% of GDP)	
\rightarrow	Lebanon (96)	196	\rightarrow	115	\rightarrow	277	\rightarrow						
_	Lesotho (69)	24	\rightarrow			27	\rightarrow					0	
_	Liberia (—)	0	п			2	п						
_	Libya (—)	36	\rightarrow	24		133	\rightarrow	361					
_	Liechtenstein (—)	633	\rightarrow			574	\leftarrow						
\rightarrow	Lithuania (97)	358	\rightarrow	155	\rightarrow	235	\rightarrow	2136	\rightarrow			0.8	Ш
\longrightarrow	Luxembourg (97)	690	\rightarrow	635	\rightarrow	535	\rightarrow	4301	\rightarrow			1.8	ш
\longrightarrow	Macao (—)	369	\longrightarrow	295	\longrightarrow	379	\longrightarrow	41					
\rightarrow	Macedonia, FYR (97)	79	\rightarrow	222	\rightarrow	262	\rightarrow	504	\leftarrow			0.3	Ш
11	Madagascar (63)	5	\rightarrow	5	\rightarrow	4	П	15	II			0.1	Ш
\rightarrow	Malawi (63)	4	\rightarrow	2	Ш	8	\rightarrow						
\rightarrow	Malaysia (98)	435	\rightarrow	197	\rightarrow	172	\rightarrow	299	\rightarrow	7	Ш	0.7	Ш
\longrightarrow	Maldives (86)	59	\rightarrow	112	\rightarrow	98	\rightarrow						
\rightarrow	Mali (66)	4	\rightarrow	3	→	6	\rightarrow						
\rightarrow	Malta (99+)	315	\rightarrow	165	→	501	\rightarrow	681	←			0.3	
\rightarrow	Marshall Islands (94)	35	\rightarrow	82	\rightarrow	76	\rightarrow						
\rightarrow	Mauritania (75)	7	→	14	→	13	→						
\rightarrow	Mauritius (99)	146	\rightarrow	162	\rightarrow	289	\rightarrow	000		0.0		0.4	II
\rightarrow	Mexico (94)	181	\rightarrow	136	\rightarrow	189	\rightarrow	268	\rightarrow	3.3	Ш	0.4	Ш
_	Micronesia (—) Moldova (96)	127 96	\rightarrow	07	_	113 221	\rightarrow						
→	()	90	7	27	\rightarrow	221		41					
→	Monaco (—) Mongolia (96)	105	\rightarrow	133	\rightarrow	61	\rightarrow	41				0.3	п
\rightarrow	Morroco (78)	153	\rightarrow	25	\rightarrow	44	\rightarrow			6.3	\rightarrow	0.6	
\rightarrow	Mozambique (61)	7	\rightarrow	6	\rightarrow	4	ii .			0.0		0.6	
\rightarrow	Myanmar (73)	2	\rightarrow	8	\rightarrow	9	→	17	п			0.1	11
\rightarrow	Namibia (86)	37	\rightarrow	110	\rightarrow	64	\rightarrow						
\rightarrow	Nepal (55)	4	\rightarrow	4	\rightarrow	17	\rightarrow	59				0.7	
\rightarrow	Netherlands (99+)	739	\rightarrow	682	\rightarrow	466	11	2482	\rightarrow	6.3	п	1.8	п
_	Netherlands Antilles (—)	11 *	\rightarrow			461	\rightarrow						
_	New Caledonia (—)	324	\longrightarrow			236	\rightarrow						
\rightarrow	New Zealand (99+)	672	\rightarrow	474	\rightarrow	422	\leftarrow	3945	\rightarrow	9.8	\leftarrow	1.2	П
\rightarrow	Nicaragua (74)	27	\rightarrow	43	\rightarrow	43	\rightarrow					0	П
11	Niger (55)	2	\rightarrow	1	Ш	2	Ш						
\rightarrow	Nigeria (63)	38	\rightarrow	7	→	9	\rightarrow			3.5	П		
\rightarrow	Norway (99+)	735	\rightarrow	573	\rightarrow	460	-	4587	\rightarrow	5.1	←	1.7	П
\rightarrow	Oman (97)	111	\rightarrow	47	\rightarrow	103	\rightarrow						
→	Pakistan (60)	67	→	4	→	34	→	07	4	6.9	11	0.2	
—————————————————————————————————————	Panama (91) Papua New Guinea (73)	64 23	\rightarrow \rightarrow	46 64	\rightarrow \rightarrow	136 11	\rightarrow \rightarrow	97	←	8.4	←	0.3	П
\rightarrow	Paraguay (85)	34	\rightarrow	78	\rightarrow	54	\rightarrow	79				0.1	
\rightarrow	Peru (86)	165	\rightarrow	100	\rightarrow	80	\rightarrow	19		6.6	ш	0.1	ш
→	Philippines (77)	54	\rightarrow	45	\rightarrow	41	\rightarrow	48	←	7	→	0.1	
\rightarrow	Poland (99+)	262	\rightarrow	193	\rightarrow	309	\rightarrow	1581	\rightarrow	4.2	ıı .	0.6	11
\rightarrow	Portugal (99+)	279	\rightarrow	134	\rightarrow	401	\rightarrow	1949	\rightarrow	4.4		0.8	11
_	Puerto Rico (—)	221	\rightarrow		ĺ	285	\rightarrow						
\rightarrow	Qatar (97)	269	\rightarrow	171	\rightarrow	253	\rightarrow						
\rightarrow	Romania (96)	208	\rightarrow	113	\rightarrow	203	\rightarrow	976	\leftarrow	3.6	п	0.4	- 11
H	Russian Federation (97)	152	\rightarrow	122	\rightarrow	280	\longrightarrow	3319	\leftarrow	3.6	П	1.2	ш
_	Rwanda (51)	6	\rightarrow			3	п						
\rightarrow	Samoa (97)	32	\rightarrow	7	\rightarrow	73	\rightarrow						
_	San Marino (—)	536		857		741							
_	Sao Tomé and Principe (78)	131	\rightarrow			46	\rightarrow						
\rightarrow	Saudi Arabia (95)	70	\rightarrow	376	\rightarrow	164	\rightarrow			2.3	Ш		
\rightarrow	Senegal (72)	46	\rightarrow	21	\rightarrow	23	\rightarrow			8.3	\rightarrow		





Summary: CURRENT SITUATION (colour) EVOLUTION (arrow-icon)	COUNTRIES (BCI value, 0-100)	US (per	INTERNET USERS (per 1,000 people)		PERSONAL COMPUTERS (per 1,000 people)		TELEPHONE MAINLINES (per 1,000 people)		SCIENTISTS AND ENGINEERS IN RESEARCH AND DEVELOPMENT (per million people)		INFORMATION AND COMMUNICATION TECHNOLOGY EXPENDITURE (% of GDP)		CH AND DPMENT DITURE GDP)
\rightarrow	Seychelles (—)	249	\rightarrow	189	\rightarrow	253	\rightarrow	19				0.1	
_	Sierra Leone (—)	2	\rightarrow			5	п						
\rightarrow	Singapore (—)	571	\rightarrow	621	\rightarrow	425	\rightarrow	4999	\rightarrow	9.4	П	2.3	\rightarrow
\rightarrow	Slovakia (—)	464	\rightarrow	358	\rightarrow	222	\rightarrow	1984	\rightarrow	5.6	П	0.5	Ш
\rightarrow	Slovenia (99)	545	\rightarrow	404	\rightarrow	408	\rightarrow	2543	\rightarrow	3.1	\rightarrow	1.6	П
\rightarrow	Solomon Islands (—)	8	\rightarrow	46	\rightarrow	16	Ш						
\rightarrow	Somalia (—)	11	\rightarrow	6	\rightarrow	12	\rightarrow						
\rightarrow	South Africa (87)	109	\rightarrow	85	\rightarrow	101	\rightarrow	307	\leftarrow	9.9	\rightarrow	0.8	
\rightarrow	Spain (99+)	348	\rightarrow	277	\rightarrow	422	\rightarrow	2195	\rightarrow	3.7	П	1.1	П
\rightarrow	Sri Lanka (—)	14	\rightarrow	27	\rightarrow	63	\rightarrow	128	\leftarrow	5.5	\rightarrow	0.1	Ш
\rightarrow	St. Kitts and Nevis (99)	214	\rightarrow	234	\rightarrow	532	\rightarrow						
\rightarrow	St. Lucia (96)	339	\rightarrow	160	\rightarrow	321	\rightarrow					0.4	
\rightarrow	St. Vincent and Grenadines (95)	84	\rightarrow	135	\rightarrow	189	\rightarrow					0.2	
\rightarrow	Sudan (81)	77	\rightarrow	90	\rightarrow	18	\rightarrow					0.3	II
_	Suriname (85)	71	\rightarrow	46		180	\rightarrow						
\rightarrow	Swaziland (77)	32	\rightarrow	32	\rightarrow	31	\rightarrow						
\rightarrow	Sweden (99+)	764	\rightarrow	763	\rightarrow	717	\rightarrow	5416	\rightarrow	7.4	П	3.7	H
\rightarrow	Switzerland (99+)	498	\rightarrow	865	\rightarrow	689	\rightarrow	3601	\rightarrow	7.5	П	2.6	H
\rightarrow	Syrian Arab Republic (87)	58	\rightarrow	42	\rightarrow	152	\rightarrow						
_	Tajikistan (86)	1	п			39	\leftarrow						
\rightarrow	Tanzania (70)	9	\rightarrow	7	\rightarrow	4	Ш						
\rightarrow	Thailand (—)	110	\rightarrow	58	\rightarrow	110	\rightarrow	287	\rightarrow	4.1	\rightarrow	0.3	II
\rightarrow	Togo (70)	49	\rightarrow	30	\rightarrow	10	\rightarrow						
\rightarrow	Tonga (94)	29	\rightarrow	49	\rightarrow	111	\rightarrow						
\rightarrow	Trinidad and Tobago (98)	123	\rightarrow	79	\rightarrow	248	\rightarrow					0.1	H
\rightarrow	Tunisia (95)	95	\rightarrow	57	\rightarrow	125	\rightarrow	1013	\rightarrow	5.8	\rightarrow	0.6	H
\rightarrow	Turkey (92)	222	\rightarrow	52	\rightarrow	263	\rightarrow	341	\rightarrow	7.9	Ш	0.7	H
_	Turkmenistan (—)	8	\rightarrow			80	\rightarrow						
\rightarrow	Uganda (63)	17	\rightarrow	9	\rightarrow	3	Ш					0.8	II
\rightarrow	Ukraine (97)	97	\rightarrow	38	\rightarrow	256	\rightarrow			8	П	1.2	Ш
\longrightarrow	United Arab Emirates (98)	308	\rightarrow	197	\rightarrow	273	\rightarrow			3.6	П		
\rightarrow	United Kingdom (99)	474	\rightarrow	600	\rightarrow	528	\rightarrow	2706 *	\rightarrow	7.3	\leftarrow	1.9	H
\rightarrow	United States of America (99)	630	\rightarrow	762	\rightarrow	606	\rightarrow	4605	\rightarrow	8.8	\leftarrow	2.7	Ш
\rightarrow	Uruguay (95)	193	\rightarrow	125	\rightarrow	290	\rightarrow	366	\rightarrow	7.9	\rightarrow	0.3	Ш
_	Uzbekistan (—)	34	\rightarrow			67	Ш						
\rightarrow	Vanuatu (85)	38	\rightarrow	15	\rightarrow	33	\rightarrow						
\rightarrow	Venezuela (94)	125	\rightarrow	82	\rightarrow	136	\rightarrow			3.9	Ш	0.3	Ш
\rightarrow	Viet Nam (90)	129	\rightarrow	13	\rightarrow	191	\rightarrow	115	←	15.1	\rightarrow	0.2	
\rightarrow	Yemen (64)	9	\rightarrow	15	\rightarrow	39	\rightarrow						
\rightarrow	Zambia (75)	20	\rightarrow	10	\rightarrow	8	H	51 *	Ш				

Notes: (*) Data refers to years or periods other than those specified in the indicator definition.

Source:

World Development Indicators 2006, World Bank (www.worldbank.org).

For more detailed information on the reference years of the data see complete tables at: www.socialwatch.org/statistics2007

DEFINITION OF INDICATORS:

Internet users (per 1,000 people): People with access to the internet, per 1,000 people Last available data: 2001-2004; evolution since 1990.

Figure 0 means a value under 0.5

Personal computers (per 1,000 people): Personal computers are self-contained computers designed to be

used by a single individual, per 1,000 people. Last available data: 2001-2005; evolution since 1990.

Telephone mainlines (per 1,000 people): Telephone lines connecting a customer's equipment to the public switched telephone network. Data are presented per 1,000 people for the entire country.

Last available data: 2001-2005; evolution since 1990.

Scientists and engineers in research and development (per million people): People trained to work in any field of science who are engaged in professional R&D (research and development) activity, per million people. Most such jobs require completion of tertiary education Last available data: 2004; evolution since 1996.

Information and communication technology expenditure (% of GDP): Includes external spending on information technology ('tangible' spending on information technology products purchased by businesses, households, governments, and education institutions from vendors or organizations outside the purchasing entity), internal spending on information technology ('intangible' spending on internally customized software, capital depreciation, and the like), and spending on telecommunications and

other office equipment. Expressed as percentage of gross domestic product (GDP). Last available data: 2005; evolution since 2000.

Research and development expenditure (% of GDP): Expenditures for research and development are current and capital expenditures (both public and private) on creative work undertaken systematically to increase knowledge, including knowledge of humanity, culture, and society, and

the use of knowledge for new applications. R&D covers basic research, applied research, and experimental development. Last available data: 2000-2005; evolution since 1996.

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INFORMATION, SCIENCIE AND TECHNOLOGY

Overlapping inequalities

The expression 'to close the digital gap' sums up various objectives related to inequalities in access to information, science and technology in the world. The accelerated revolution resulting from new technologies and the growing importance of data management have brought the term 'information society' into our lives.

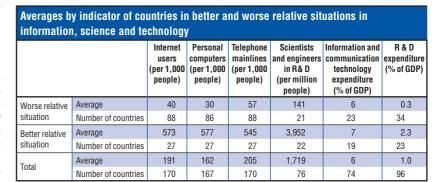
But this process has generated new inequities which are intertwined with the old. In order to understand inequality and implement policies to reduce it in the modern world, it is essential to have a grasp of how much access countries have to information and how far they participate in scientific and technical progress.

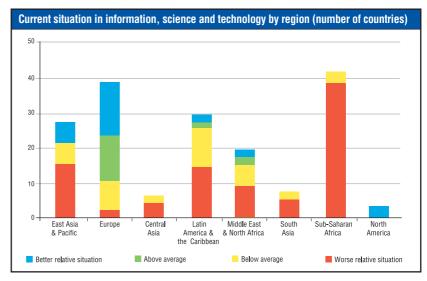
It is possible to take an optimistic view of how things have developed in recent years, and point out, for example, that between 2000 and 2007 internet connectivity in Africa increased by more than 600%. But it is impossible to ignore the gaps between different regions of the world: 7 out of 10 people in North America have access to the internet but in Africa the rate is only 1 in 30.1

As was pointed out in *Global Information Society Watch 2007*, "increase in access to ICTs (Information and communication technologies) will not, by itself, reduce poverty or secure freedoms on a sustainable basis. But there is a real danger that lack of access to ICTs, and to the spaces where decisions are made about information and communications infrastructure, content and services, can deepen existing social exclusion and create new forms of exclusion." Therefore it is essential for countries and communities to be able to access and autonomously utilize the new productive and cultural systems that scientific and technical progress have made available.

In 2005, the international community adopted the Tunis Commitment, which reaffirmed its will "to build a people-centred, inclusive and development-oriented Information Society, premised on the purposes and principles of the Charter of the United Nations, international law and multilateralism, and respecting fully and upholding the Universal Declaration of Human Rights, so that people everywhere can create, access, utilize and share information and knowledge, to achieve their full potential." It is important to note that, as this declaration suggests, these processes are closely linked to human rights and to the problems of poverty and gender inequity.

A comparison of the countries in the better situation with those in the worse situation sheds light on the vast gaps that exist, especially in access to personal computers, telephone mainlines and the





Current situation and evolution in information, science and technology (number of countries)												
	←	←	11	\rightarrow	\rightarrow	Total						
Countries in worse situation	0	0	7	72	5	84						
Countries below average	0	0	2	22	14	38						
Countries above average	0	0	0	9	8	17						
Countries in better situation	0	0	0	13	13	26						
Total	0	0	9	116	40	165						

internet. There are almost 20 times more personal computers per capita in the group of countries in a better relative situation, and the gaps in telephone mainlines and opportunities for internet access are similarly enormous.

The indicators of public expenditure on education are more worrying still, and the same applies to investment in research and development. The inequities in these areas are so vast that they compromise the possibility of closing these gaps in the future since investment is a necessary condition for improvement in scientific and technological development and the possibility to join the information society. Investment in research and development is nearly eight times greater in the countries in the better situation than in those in the worse situation (2.3% and 0.3% of GDP, respectively).

An analysis of the current situation by region shows the gap very clearly indeed. Nearly all the

countries in South Asia and Sub-Saharan Africa are in the worse situation. In Europe a good proportion of the countries are in the better relative situation but there are still some quite marked contrasts.

An analysis of recent evolution in this field shows that almost all countries have made progress. This is good news, but it does not necessarily mean that the science and technology gap between the two ends of the spectrum has narrowed, since the relative distance between the two groups may not have changed even though all countries have moved forward. In nine countries evolution in this area is stagnant, which amounts to a slow approach to the global information society. This has happened in Europe (Bulgaria) and also in Africa (Chad, Madagascar, Niger, the Republic of the Congo), in Central Asia (Kazakhstan and the Russian Federation) and in Latin America (Ecuador and Panama).

^{1 &}lt; www.internetworldstats.com>.

² Esterhuysen, A. and Bissio, R. (2007). "Preface" in Global Information Society Watch 2007. Focus on Participation. Montevideo: APC / ITeM. Available from: <www. globaliswatch.org/en/preface2007>.

³ World Summit on the Information Society (2005). "Tunis Commitment". Document WSIS-05/TUNIS/DOC/7-E, 18 November 2005. Available from: <www.itu.int/wsis/docs2/ tunis/off/7.html>.