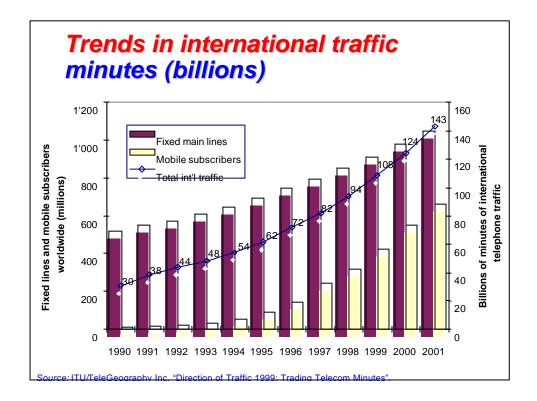
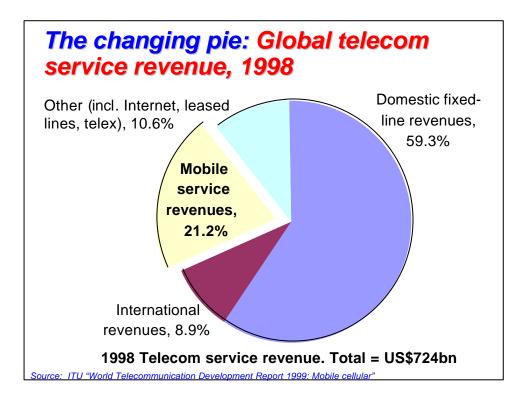
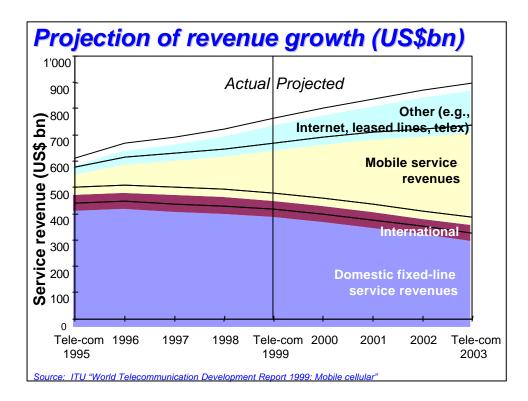


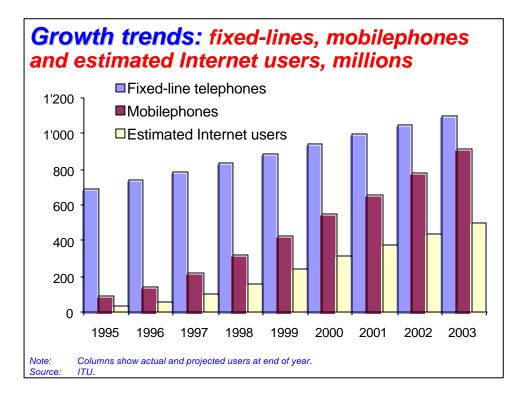
International Interconnect: A series of three lectures Part 1: Trends in international traffic Part 2: Managing the transition from revenuesharing to cost-orientation Part 3: The Internet changes everything

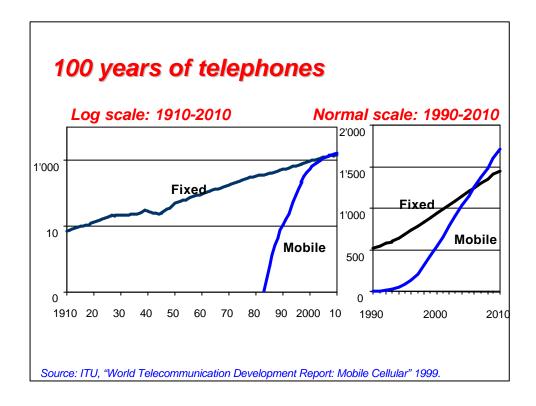


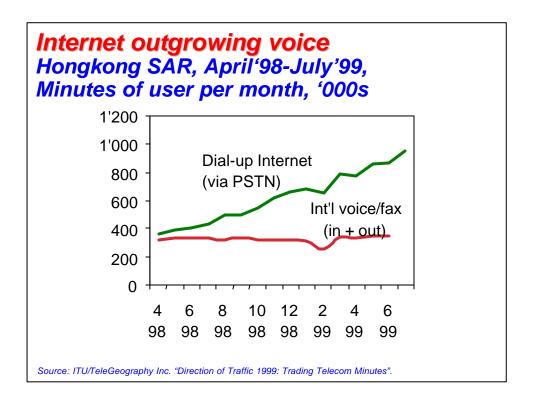


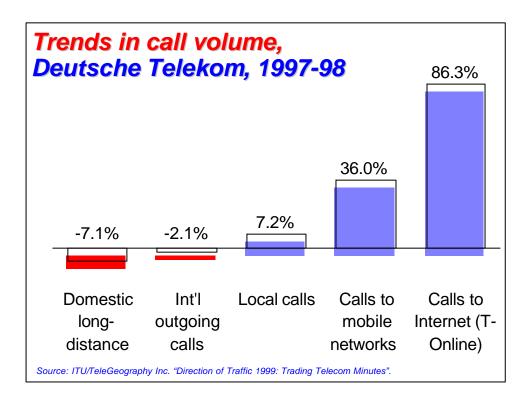


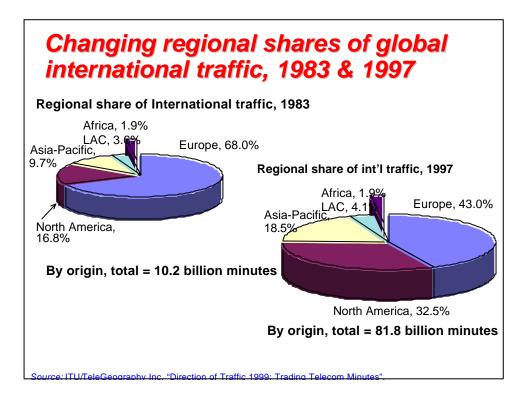


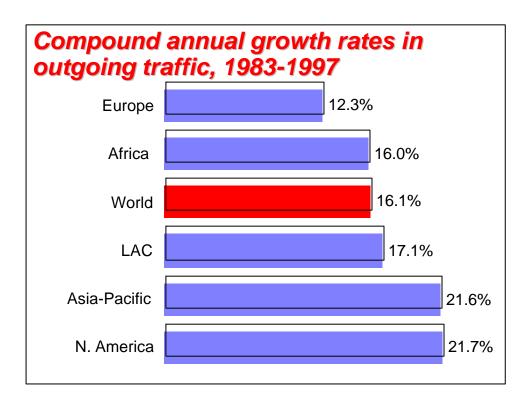


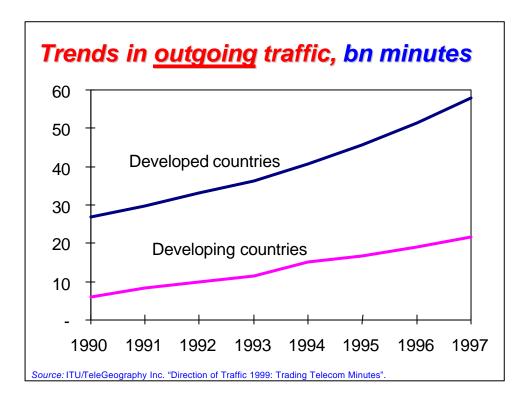


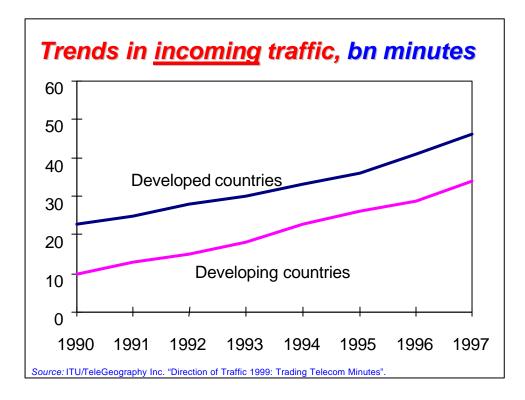




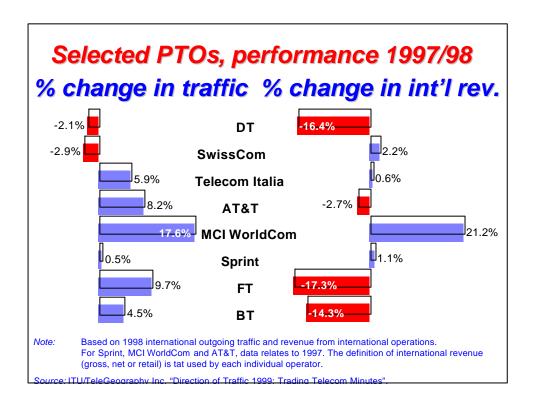


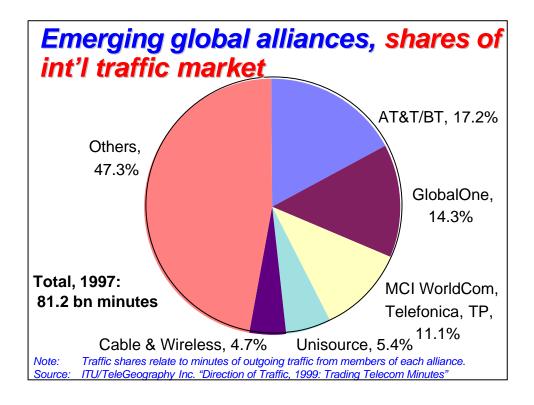


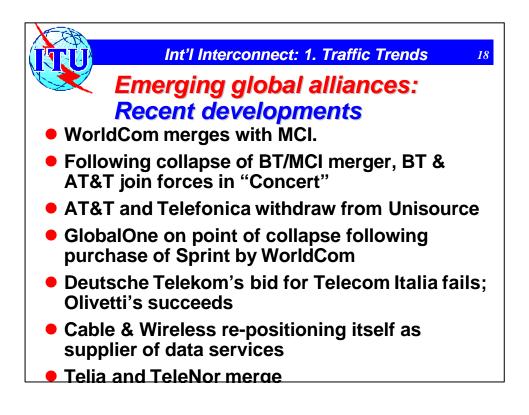


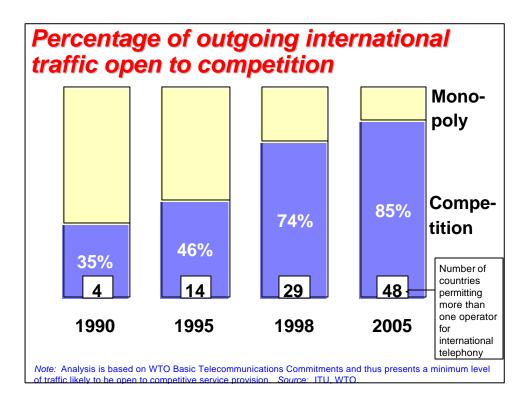


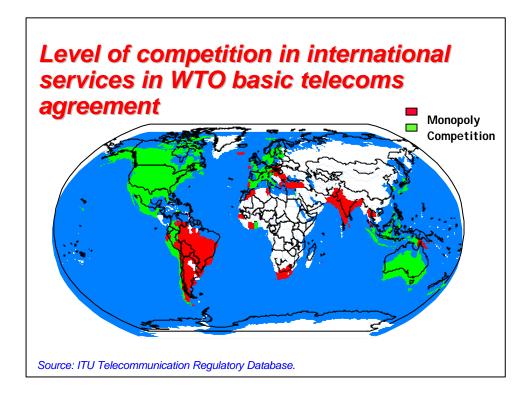
| РТО | 1998 Bn Mins | % change 97/98 |
|-------------------|--------------|----------------|
| AT&T (97 data) | 10'331 | 8.2% |
| MCI WorldCom (97) | 7'313 | 17.6% |
| Deutsche Telekom | 4'711 | -2.1% |
| France Telecom | 3'400 | 9.7% |
| Sprint (97) | 2'759 | 0.5% |
| BT | 2'710 | 4.5% |
| Telecom Italia | 2'339 | 5.9% |
| SwissCom | 1'901 | -2.9% |
| Telefonica | 1'803 | 15.1% |
| Hongkong Telecom | 1'718 | -2.1% |











| Countries permitting int'l competition | | | |
|--|------------------------------|----------------------------|--|
| 1990 | 1998 | 20 Israel | |
| 1 Japan | 1 Australia | 21 Italy | |
| 2 New Zealand | 2 Austria | 22 Japan | |
| 3 UK | 3 Belgium | 23 Korea (Rep.) | |
| 4 USA | 4 Brunei D. | 24 Malaysia | |
| 1995 | 5 Canada | 25 Mexico | |
| 1 Australia | 6 Chile | 26 Netherlands | |
| 2 Canada (partial) | 7 Colombia | 27 New Zealand | |
| 3 Colombia | 8 DPR Congo | 28 Norway | |
| 4 Chile | 9 Denmark | 29 Peru | |
| 5 Denmark | 10 Dominican Rep. | 30 Philippines | |
| 6 Finland | 11 El Salvador | 31 Russia | |
| 7 Japan | 12 Finland | 32 Somalia | |
| 8 Korea (Rep.) | 13 France | 33 Spain (after Dec. 1998) | |
| 9 Malaysia | 14 Germany | 34 Sweden | |
| 10 New Zealand | 15 Ghana | 35 Switzerland | |
| 11 Philippines | 16 Guatemala | 36 Uganda | |
| 12 Sweden | 17 HK-China (after Dec 1998) | 37 Ukraine | |
| 13 UK | 18 Indonesia | 38 UK | |
| 14 USA | 19 Ireland (after Dec. 1999) | 39 USA | |

