# Global Trends in Telecom Restructuring

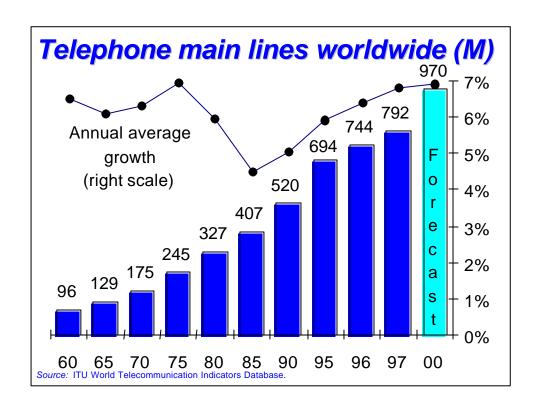
Dr Tim Kelly, ITU
Monday Session 1
CTO Senior management
seminar: Telecoms
restructuring and business
change
Malta, 17-21 May, 1999

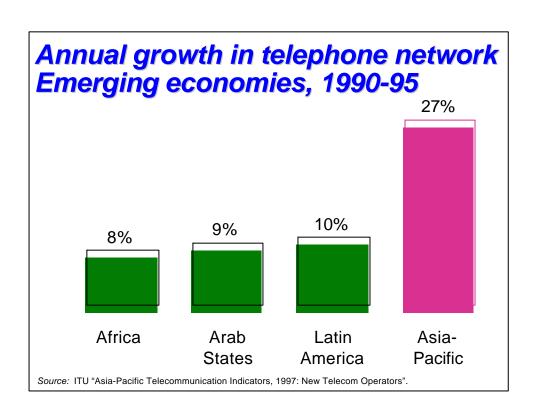


The views expressed in this paper are those of the author and do not necessarily reflect the opinions of the ITU or its membership. Dr Kelly can be contacted at Tim.Kelly @itu.int.

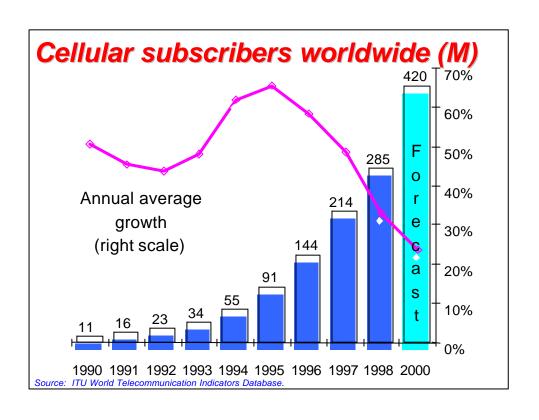


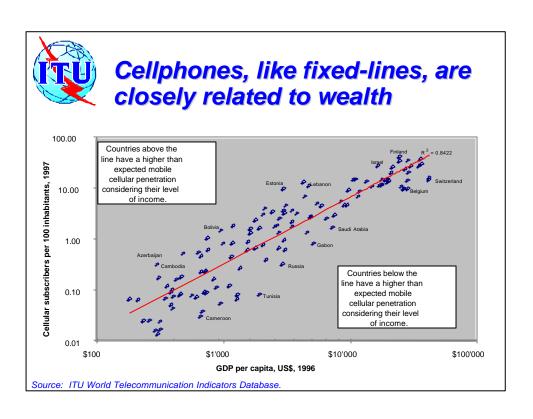
- The state of the Telecoms sector worldwide
  - ⇒ The Public Switched Telephone Network
  - ⇒ Mobile Communications
  - **⇒** The Internet
- Market liberalisation / privatisation \*
- Separation of regulatory and operational functions
- The telecoms development gap: The changing international telecoms environment
  - ⇒ The erosion of the accounting rate system
- Key policy issues
- \* This will be the subject of separate presentations.



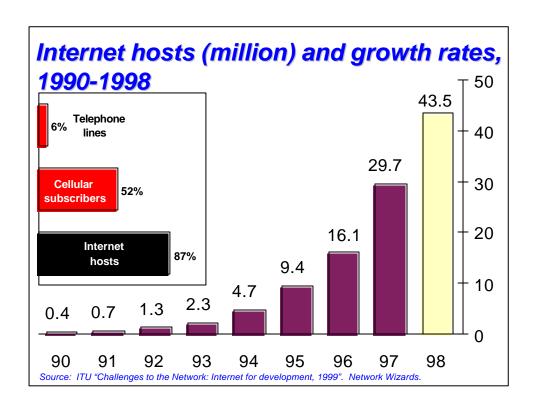


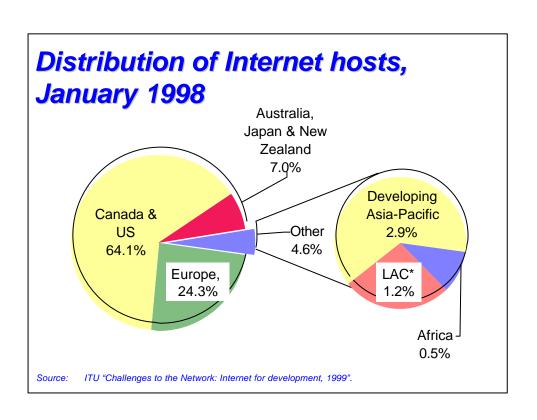
op 20 PTOs by revenue, 1997							
	Rank 97 96			Telecom revenue		Net income	
			Operator (Country)	Total (US\$ m)	Change (96-97)	Total (US\$ m)	Change (96-97
	1	1	NTT (Japan) <sup>a</sup>	71'591	7.1%	2'196	15.3%
	2	2	AT&T (United States)	51'319	1.5%	4'638	-21.5%
	3	3	Deutsche Telekom (Germany)	37'694	7.1%	1'843	87.9%
	4	16	Bell Atlantic (United States)	30'194	3.6%	2'455	-27.8%
	5	5	BT (United Kingdom) a	26'277	4.7%	2'908	-17.6%
	6	4	France Télécom (France)	26'174	3.6%	2'482	605.4%
	7	14	SBC (United States)	24'856	6.0%	1'474	-55.0%
	8	7	Telecom Italia (Italy)	24'204	9.9%	1'949	12.5%
	9	6	GTE (United States)	23'260	9.0%	2'794	-0.1%
ı	10	8	BellSouth (United States)	20'561	8.0%	3'261	13.9%
ı	11	9	MCI (United States)	19'653	6.3%	149	-87.6%
	12	12	DGT (China)	17'154	1.5%	5'375	-12.1%
	13	11	Ameritech (United States)	15'998	7.2%	2'296	7.6%
	14	10	Telefónica (Spain)	15'577	17.8%	1'253	18.6%
	15	17	US West (United States)	15'235	18.0%	697	-40.8%
I	16	13	Sprint (United States)	14'874	5.9%	953	-19.5%
	17		Telebras (Brazil)	14'158	23.7%	3'493	42.1%
	18	19	Telstra (Australia) <sup>b</sup>	11'915	4.9%	1'205	-29.8%
	19	22	DDI (Japan) <sup>a</sup>	8'927	15.9%	63	‡
	20	23	KPN (Netherlands)	7'671	8.4%	962	9.4%
<u>"  </u>			Top twenty	477'291	7.0%	42'447	-4.6%





op 20 mobile companies, 1997							
	Cellular subscribers		Mobile revenue		е		
Rank	1997	CAGR	1997	CAGR	% of		
97 96 Operator (Country)	(000s)	(96-97)	(US\$ m)	(96-97)	total		
1 1 NTT (Japan)	19'890	18.4%	20'873	35.5%	29%		
2 5 DGT (China)	13'229	93.1%	3'334 *	81.9%	23%		
3 3 TIM (Italy)	9'278	62.6%	5'345	28.7%	100%		
4 9 DDI (Japan)	7'815	24.0%	6'953	26.1%	78%		
5 2 AT&T (United States)	6'000	15.4%	4'337	10.3%	8%		
6 4 SBC (United States)	5'493	23.9%	3'034	15.1%	12%		
7 6 BANM (United States)	5'356	21.5%	2'859	17.2%	100%		
8 15 SK Telecom (Korea (Rep.))	4'571	58.1%	2'090	31.2%	100%		
9 7 GTE (United States)	4'487	19.7%	2'742	10.5%	12%		
10 12 AirTouch (United States)	4'309	26.6%	2'363	19.1%	100%		
11 8 BellSouth (United States)	4'193	15.1%	3'555	27.0%	17%		
12 21 Telebras (Brazil)	4'023	64.1%	3'762	62.8%	20%		
13 13 Deutsche Telekom (Germany)	3'752	39.6%	2'776	19.0%	7%		
14 18 Mannesmann (Germany)	3'542	54.0%	3'118	32.8%	100%		
15 10 Vodafone (United Kingdom)	3'400	18.6%	2'977	13.5%	100%		
16 24 Telefónica (Spain)	3'187	35.9%	2'395	40.3%	15%		
17 14 Ameritech (United States)	3'177	26.5%	1'760	31.0%	11%		
18 11 BT (United Kingdom)	3'077	14.0%	1'830	14.8%	7%		
19 23 France Télécom (France)	3'000	92.3%	2'851	52.0%	11%		
20 16 Telstra (Australia)	2'777	21.6%	1'477	16.2%	12%		
Top twenty	114'556	34.6%	80'430	27.8%	21%		





	Ranl	Internet / Online Service provider (Country)	Owner	Website	Subscribers (latest 000s)
	1	AOL (USA) *	AOL	www.aol.com	17'100 Jun-98
	2	Nifty-Serve (Japan)	Fujitsu, others	www.nifty.ne.jp	2'630 Aug-9
	3	Biglobe (Japan)	NEC, others	www.biglobe.ne.jp	2'560 <sup>Mar-98</sup>
	4	T-Online (Germany)	Deutsche Telekor	n <u>www.t-online.de</u>	2'300 Jun-98
	5	MSN (USA)	Microsoft	home.microsoft.com	2'000 Jun-98
	6	Chollian (Korea (Rep.))	Dacom	http://www.chollian.net/	1'170 Dec-97
	7	WorldNet (USA)	AT&T	www.att.net	1'095 Jun-98
	8	EarthLink Sprint (USA)	Sprint, others	www.earthlink.com	710 Jun-98
	9	Prodigy (USA)	Prodigy	www.prodigy.com	638 Jun-98
	10	Infovia (Spain)	Telefonica	www.tsai.es	535 Dec-97
	11	Netcom (USA)	ICG	www.netcom.com	512 Jun-98
	12	HiNet (Taiwan-China)	Chungwa Telecor	mwww.hinet.net	507 Jun-98
	13	MindSpring (USA)	MindSpring	www.mindspring.net	393 Jun-98
	14	SBC Internet Services	SBC	www.public.swbell.net	330 Jun-98
				www.public.pachell.net	330
	15	Tele2 (Sweden)	Tele2	www.tele2.se	317 Jun-98
	16	GTE Internetworking (USA	GTE	www.gte.net	311 Jun-98
TU	17	CWIX (USA)	Cable&Wireless	www.cwix.com	310 Jun-98
s to	18	Wanadoo (France)	France Telecom	www.wanadoo.fr	266 Jun-98
k:	19	Netvigator (Hongkong SAR	Hongkong Teleco	mwww.netvigator.com	235 Mar-98
nt,	20	Telia Internet (Sweden)	Telia	www.teliase	232 Dec-9
*		TOTAL, top 20			34'151



# Market liberalisation and corporatisation/privatisation of incumbents

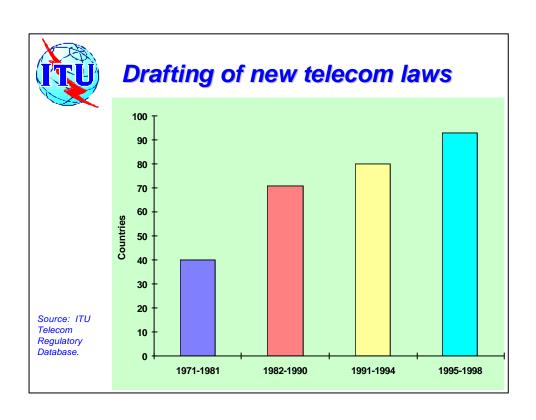
- Process and impact of liberalisation: worldwide trends (Tuesday, Session 1)
- Process and impact of commercialisation/privatisation: worldwide trends (Tuesday, Session 2)
- Towards the future: what next for telecoms businesses? (Wednesday, Session 1)

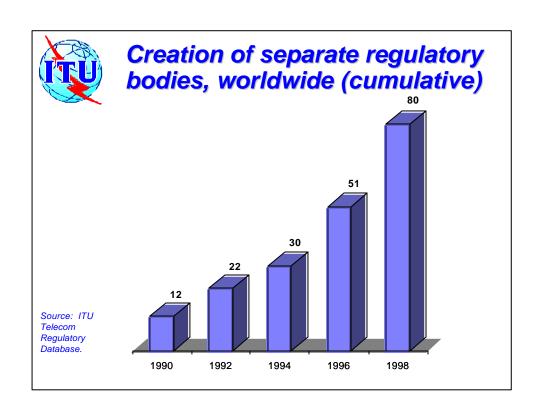


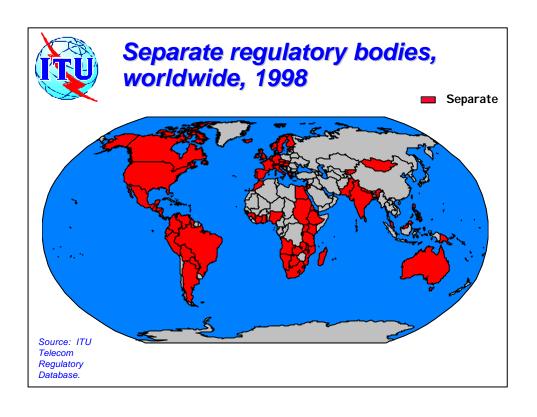
# Separation of regulatory and operational functions

### Of 188 ITU Member States:

- 156 have separated posts & telecoms (32 have not)
- 147 have separated regulatory and operational functions (41 have not)
- 132 have a regulator which is independent of the operators in terms of finance and decisionmaking (in 56, it is not)
- 83 have fully or partially privatised the incumbent operator (105 have not)
- 38 have liberalised basic telecom services (150 have not)





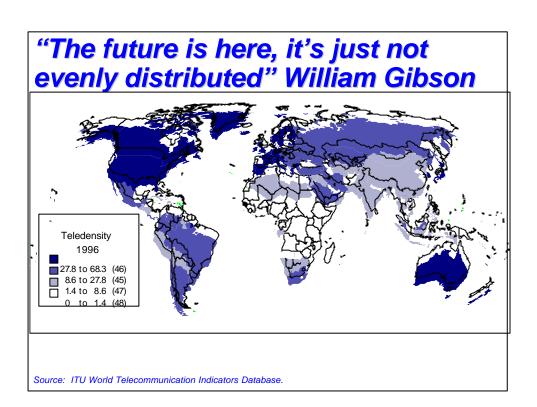


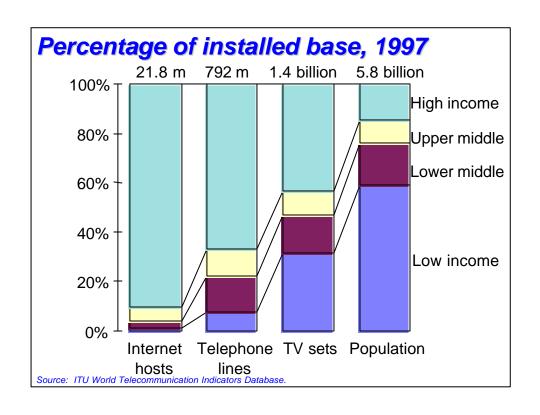


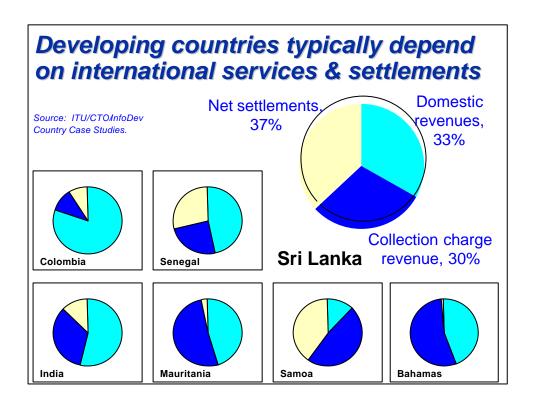
# The development gap: Impact of the changing international telecoms environment

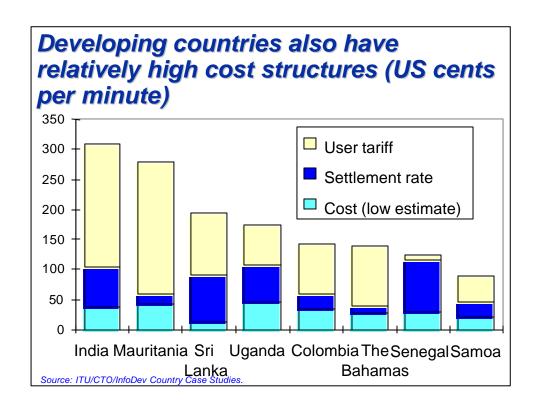
- Telecommunications development gap

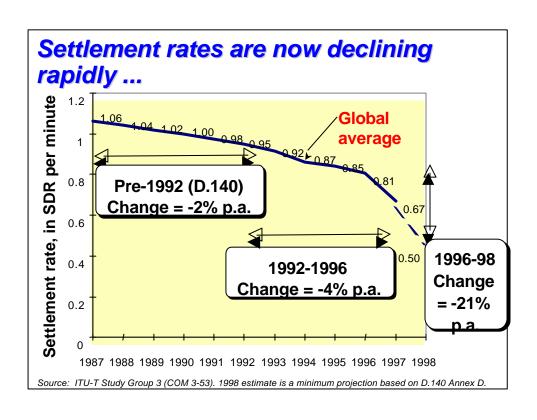
  - ➡ Widening between middle-income developing countries and the Least Developed Countries (LDCs)
  - New development gap emerging for advanced telecom services (Internet, broadband, multimedia)
- Uneven pace of market liberalisation
  - ⇒ For instance, there are more telephone companies in the UK than the whole of Africa
- Erosion of accounting rate system
  - **⇒** Traditional support for network roll-out











# Two alternative scenarios: ITU Focus Group targets, by teledensity (T), to be achieved by 2001 (2004)

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\$0.45	\$0.35	\$0.29	\$0.23	\$0.16	\$0.12	\$0.06

## FCC Benchmarks, by income group

Low income, T<1	Low income	Low-mid income	Upper- mid income	High income
\$0.23	\$0.23	\$0.19	\$0.19	\$0.15
2002	2001	2000	1999	1998

Source: ITU Focus Group Report, FCC.



# Key policy issues to be tackled

#### Interconnection

How to manage the transition to a multi-player environment?

### Internet

⇒ Who really sets the rules? Who really gets benefits?

#### International settlements

⇒ How to transition to a cost-oriented system while providing a "soft-landing" for developing countries?

### International infrastructures

⇒ How to ensure equal access at competitive rates?

#### Investment

**⇒** How to increase investment, esp in LDCs?