INTUG

Choice, access and globalisation What can Australia learn from a global view?

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INTUG contents

- what is INTUG?
- competition and choice
- local access
- mobile networks
- conclusions



INTUG what is INTUG?

- members
 - national associations
 - corporations
 - individuals
- activities
 - International Telecommunication Union
 - Organisation for Economic Cooperation and Development (OECD)
 - APEC TEL, CITEL and EU



INTUG our aims

- real and effective competition
- genuine choice for users
- lower prices
- higher quality
- constructive co-operation with
 - international bodies
 - governments
 - regulators



INTUG competition and choice

- infrastructure and service-based competition are **both** essential
- we need competitive provision of unbundled elements
 - CPE/handsets
 - networks
 - services and content
- continuing need for independent regulatory intervention



INTUG business demand

- Intranet
- Access networks
- Extranet

each company buying from only a very few suppliers

- city centre offices
- branch plants
- call centres
- remote workers
- mobile workers
- governments
- suppliers
- customers
- banks



INTUG operators' choices

- fibre to premises
- leased line
- unbundled local loop
- wireless local loop
- **xDSL**
- ISDN

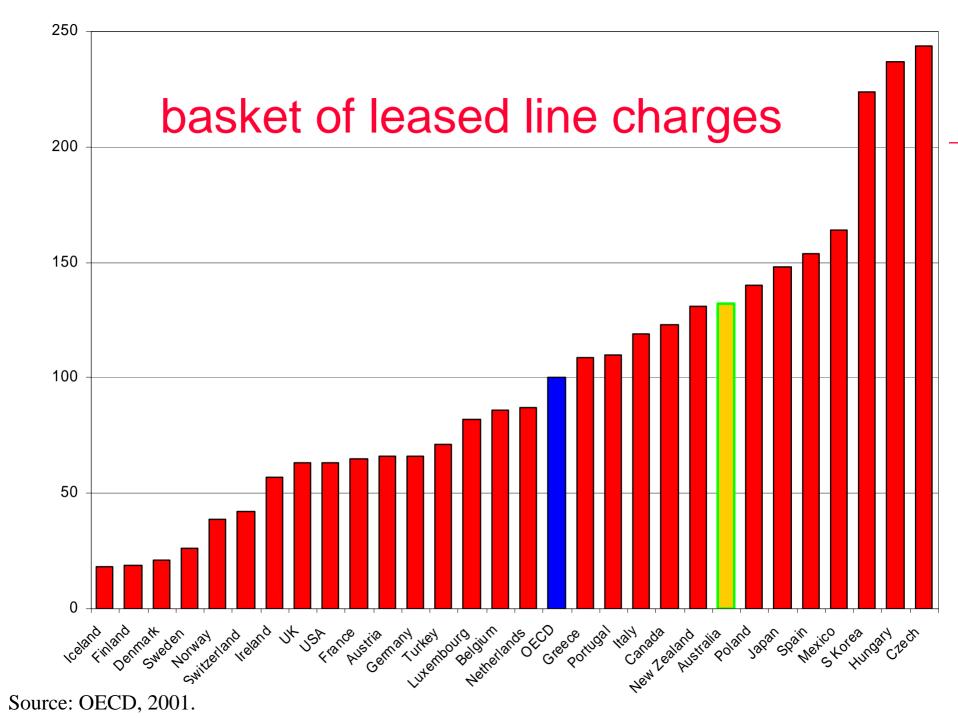
Driven by availability, quality and cost



INTUG leased lines

- market failures
 - pricing
 - non-pricing
- USA leads on
 - prices and discounts
 - geography of availability
 - especially at higher speeds
- OECD and EC reports





INTUG market failures

- pricing
- discounting
- availability
- quality of service
- coverage

The Last Mile – we cannot obtain adequate service in order to link to core network of the competitive carrier.





INTUG geography of competition

- competitive
 - financial districts of largest cities in developed countries
- non-competitive
 - other cities
 - outer suburbs
 - outback
- can vary from street to street

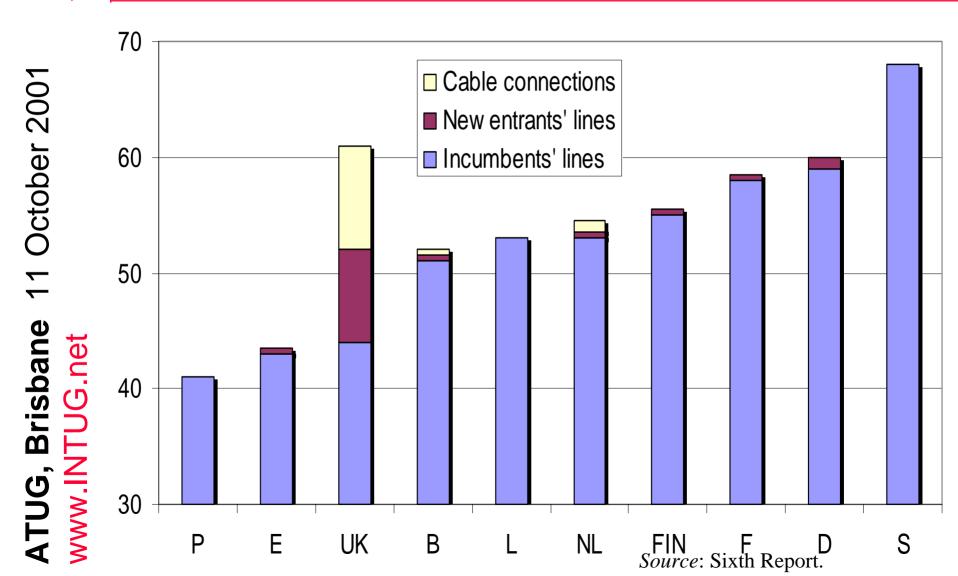


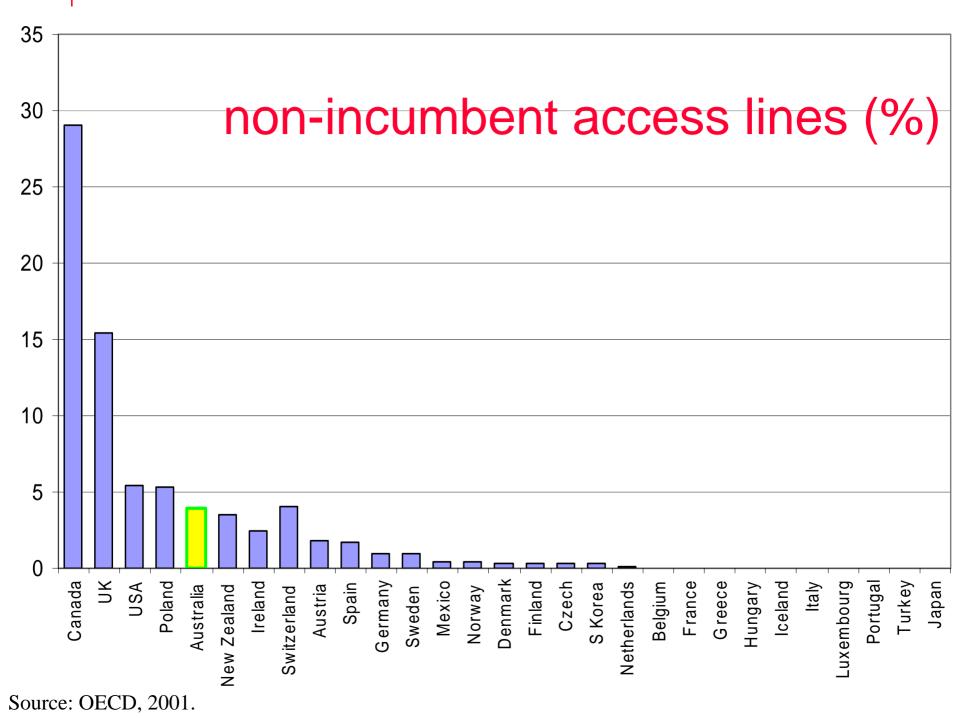
INTUG subscriber lines

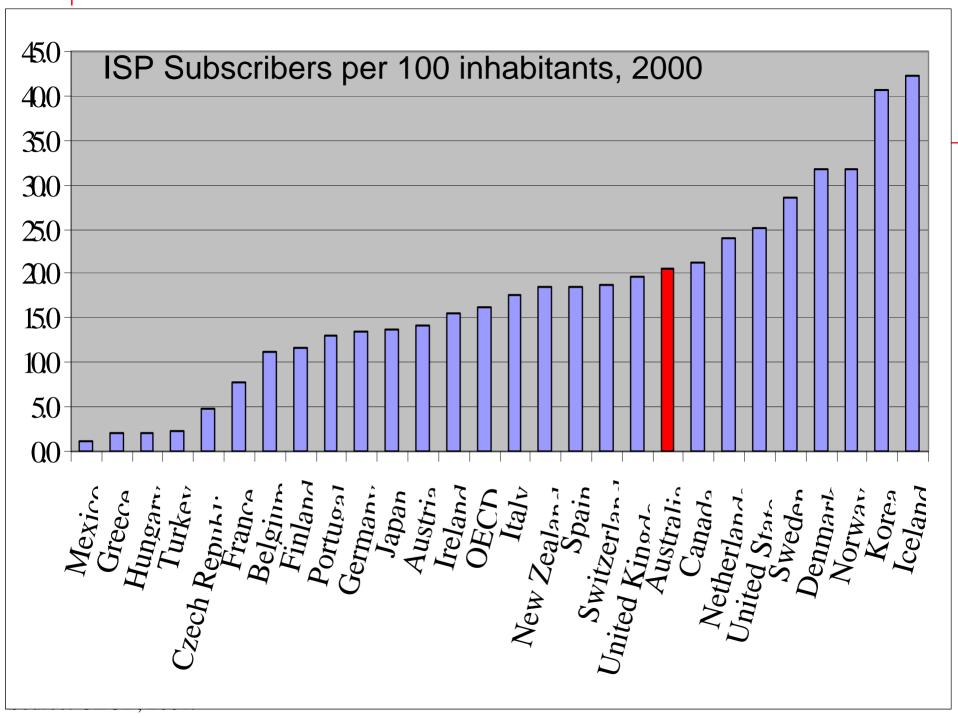
- introduction of competition
- ending the monopoly
- carrier selection
- carrier pre-selection
- number portability
- directory services
- yet still predominantly in the hands of the historic operators



INTUG subscriber lines in EU





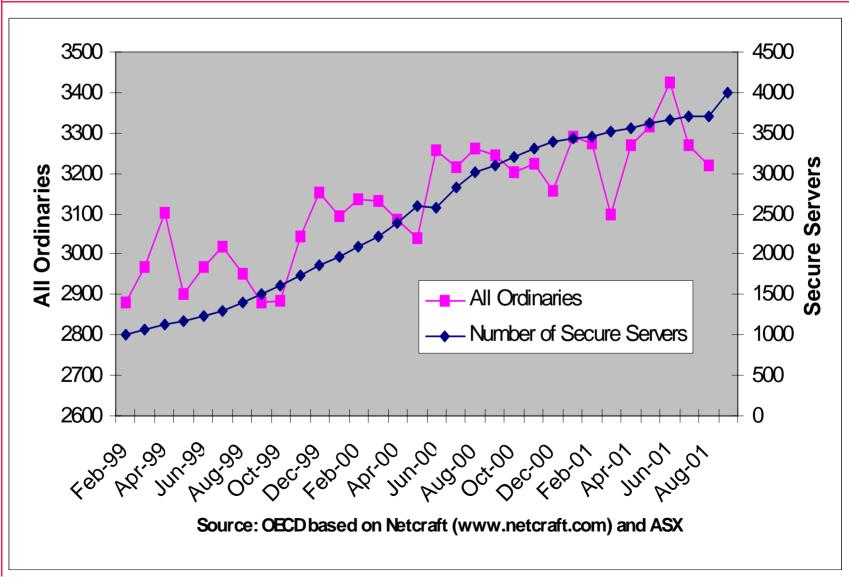


INTUG broadband penetration

Chart will be updated shortly



INTUG Australian secure servers



INTUG local loop unbundling

- historic operators' response:
 - deny, delay and degrade (3D)
 - saturation with their own services
- has made it very hard to regulate
- collapse of several operators in USA
 - financial markets
 - tactics of RBOCs



INTUG wireless local loop

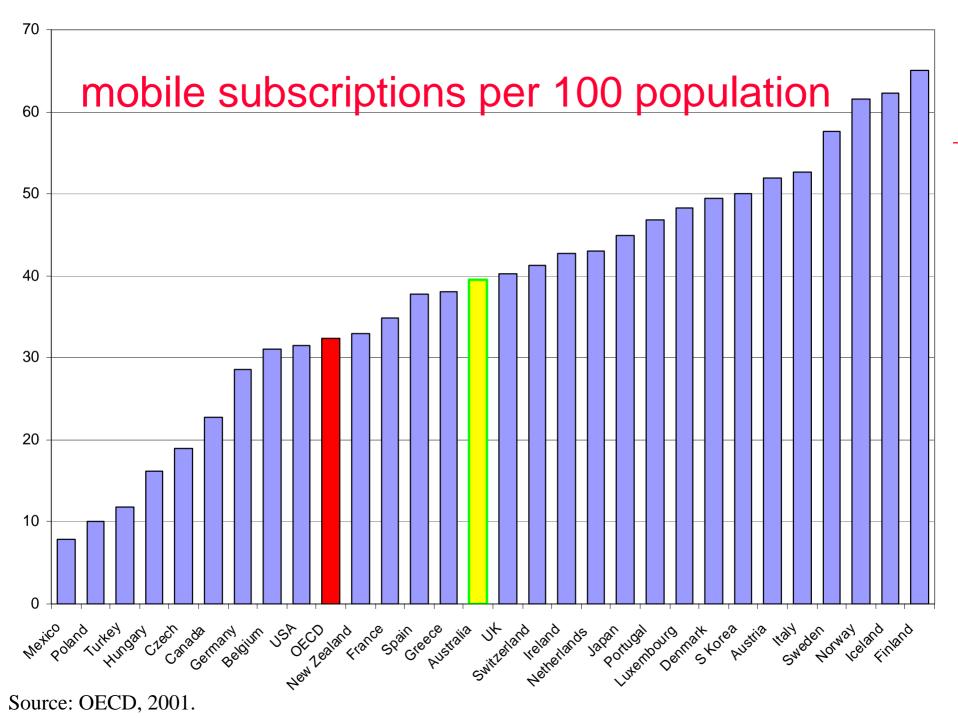
- slow allocation process
- different frequencies and technologies
- successes and failures
- knock-on effects of:
 - 3G spectrum allocation
 - dot.com crash
- only a few historic operators have been allowed into WLL market

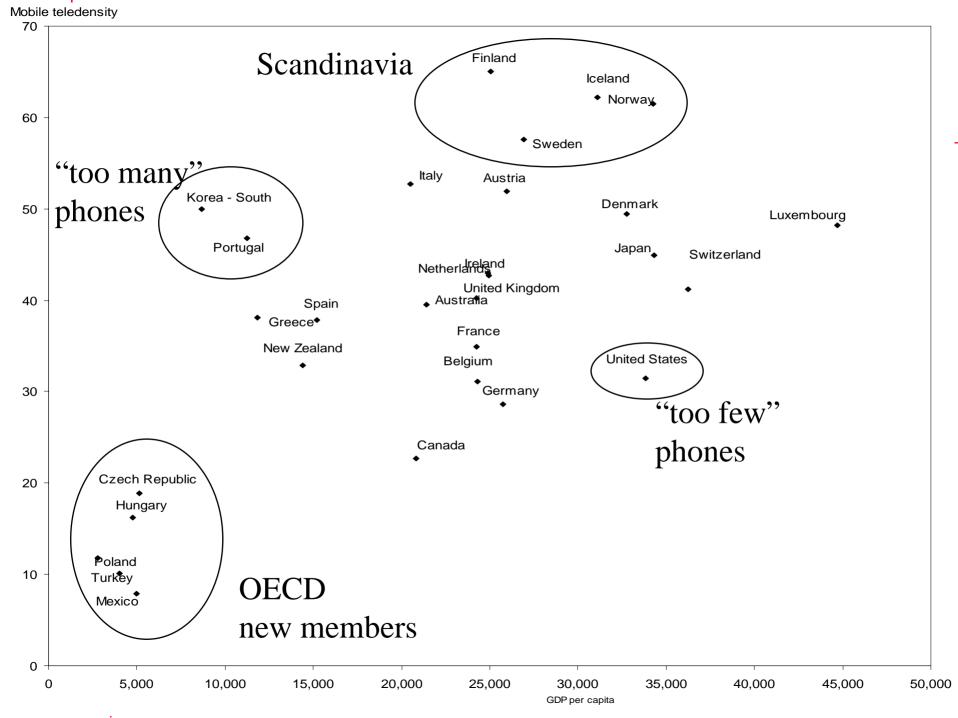


INTUG lessons from Sri Lanka

- extremely low teledensity
- WLL introduced in order to:
 - to stimulate SLT
 - to open new markets
- doubled the size of the market
- improved quality







INTUG success of GSM

- state support for adoption of a standard
- spread out from Europe to most of the world (with some CDMA and PHS)
- consolidation
- oligopolistic practices lead to exorbitant international roaming and termination charges



INTUG roaming inquiry

- European Commission is the competition authority
- instigated by INTUG
- preliminary findings against operators
- dawn raids on 11 July 2001 on:
 - British Telecom
 - Deusche Telekom
 - France Telecom (Orange)
 - Vodafone
- not just a European problem it is global!



INTUG failure of 3G?

- self-immolation of operators in German and UK auctions
- out of favour with financial markets
- attempting to control downstream service markets
- poor brand names
- have to succeed with GPRS first, but roll-out looks very bad



INTUG wireless LANs

- different standards
 - IEEE 802.11b Wi-Fi
 - Hyperlan
 - other forms of 802.11
- in "unlicensed" spectrum
 - 2.4 GHz
 - 5.8 GHz
- needs additional security measures



11 October 2001

INTUG where are WLANs?

- campuses, factories and offices
- hotels
- airport lounges
- motorway service stations and railway stations
- trains?
- Starbucks' coffee shops
- pizza and hamburger bars



INTUG m-commerce

- does it exist?
- how is it different from E-commerce?
 - customisation?
 - location-based services?
- is ubiquitous commerce more accurate?
- what is the business mode for this?



INTUG a common global pattern

- persistent market failures (e.g., leased lines and roaming charges)
- incumbents have world class delaying tactics
- competition law is very slow
- a continuing need for regulation
- collapse of high-tech share prices has:
 - blunted competition
 - stunted R&D



INTUG summary

- pressing need for new entrants to create and increase competition
- we must press on with LLU, WLL and other alternative means of access
- we still do not know what the Mobile Internet and broadband services will really be so we must allow for all possibilities



INTUG consolidation

- an oligopoly of operators
- common behaviours
- searching for global business models
- regulators and users face recurring problems

