### **INTUG**

# What the global enterprise requires

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### **INTUG** contents

- needs and markets
- regulatory context
- killer
  - information
  - applications
  - services
  - technology
  - suppliers
- competition and choice?

### **INTUG** needs

- seamless global interoperability
- integrated web technology end-to-end
- unbundled provision of best-of-breed value added services

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### **INTUG** market

- separate competitive choice of:
  - network operators
  - service providers
- flexibility to change suppliers
- open interfaces to:
  - applications
  - information
  - services
  - exchanges

### INTUG regulatory context

- market deficiences
- auctions & beauty contests
- roaming & fixed termination
- mergers & take-overs
- new legislative package
- competition law inquiries

### **INTUG** market deficiencies

- high mobile-to-fixed termination rates
- high roaming rates
- national oligopolies turning into a global oligopoly
- absence of global and regional services

# **INTUG** auctions & beauty contests

- 3G allocation has come to an ignominious end
- consolidation amongst operators
- anti-competitive behaviour?
- proposals to share infrastructure
- no underlying business model
- payback 7 ... 10 ... 15 ... 20 years?
- rival technologies?

### **INTUG** mergers and joint ventures

- Vodafone:
  - Mannesmann
  - J-Phone
  - Eircell
  - Eurocall Scheme
- France Telecom + Orange
- Vizzavi
- network sharing

### **INTUG** legislative package

- market definitions
- are markets competitive?
- who has SMP?
- what are they obliged to do?
- universal service
- location (112 and privacy)
- pricing information

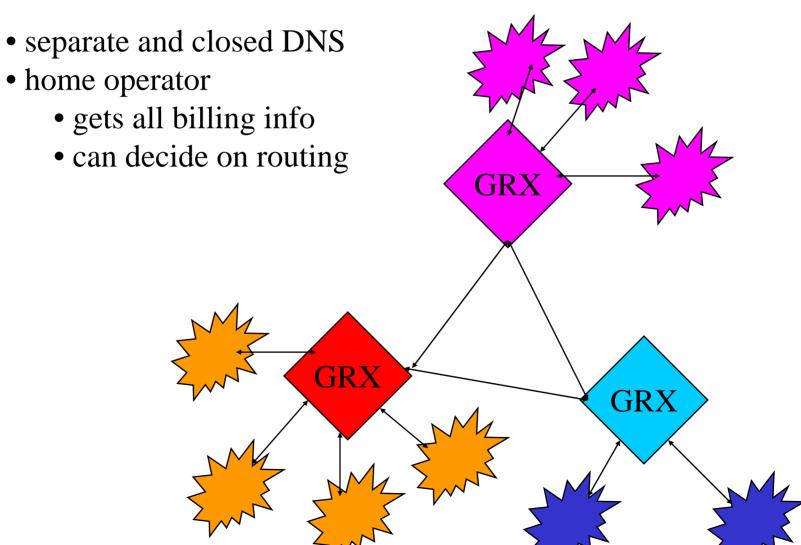
### **INTUG** roaming inquiry

- formal DG Competition investigation
- collusive behaviour
- wide variations in prices
- increasing prices
- high levels of market power
- poor provision of information to consumers

### INTUG 2.5 and 3G roaming

- revolutionary change
- GPRS will be the model for UMTS
- central role for VPN providers
- "keeping" customers when abroad
- data protection and privacy issues
- competition law issues

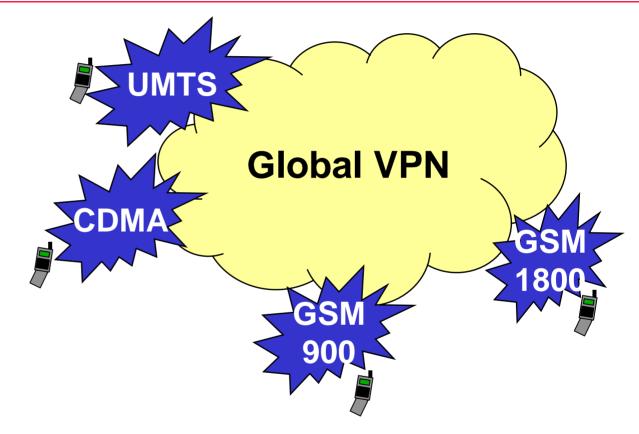
# INTUG GPRS Roaming eXchange



### **INTUG MVNOs**

- slow but steady progress
- NRAs shifting to open access
- will reduce high termination costs
- will cut exorbitant roaming fees
- some operators conceding MVNOs
- a lot of competition to take part
- support in European Parliament

### **INTUG** what businesses want



buying only transit over mobile networks

# **INTUG** regulatory summary

- competition law is a poor instrument to regulate a fast moving market
- regulatory cycle is longer than product/service life cycle!
- users need to be aware of GPRS and UMTS roaming
- GRX could fit with VPNs to provide viable solution

# **INTUG** killer information

- access to relevant market data
- consolidated customer data
- interpreted supplier data
- marketing/promotional data
- a tailored information portal

more information than my competitor at the point of decision/negotiation including what I didn't know

# **INTUG** killer applications

- multimedia not voice
- browser-based thin client
- windows terminal functionality
- transactions on-line (legacy systems)
- advertising (streamed video/sound)
- machine to machine
- intelligent agent surfers

### **INTUG** killer services

- unbundled
- market prices and news
- messaging, not just SMS
- location finding
  where is the nearest X
- vending machine access
- ticketing/reservations
- real-time logistic optimisation

### INTUG killer technologies

- GPRS/EDGE
- 3G UMTS
- Bluetooth
- "quin-band" global roaming
- 4G with high resolution GPS

### INTUG killer suppliers

- global reach and interconnect
- competitive in more than one layer
- access to:
  - content
  - function
  - transport
- free of GSM-dependency
- virtual and virtuous

### **INTUG** competition and choice

- current market delivers neither
- mobile commerce needs both
- enterprises are global like the market
- licence spending is stifling growth
- interoperability will drive growth
- open application/information interfaces
- unbundled web-based services
- network operators AND service providers