

# international issues

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# INTUG contents

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Näringslivets telekomförening

- about INTUG
- ubiquitous networks (new)
- bottlenecks (old)
- broadband
- mobile Internet
- IP telephony
- challenges

**NTK, Stockholm 19.i.2005**

**[www.INTUG.net](http://www.INTUG.net)**

# INTUG what are we?

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Näringslivets telekomförening

- members:
  - national associations
  - corporations
  - individuals
- activities:
  - ITU and WTO
  - OECD
  - APEC TEL, CITEL  
and the European Union

# INTUG our aims

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

- any device, any network, any place
- government policy in Japan and Korea
- seems to presuppose:
  - competitive market structure
  - all operators have access to multiple network pathways
- new technologies will be added incrementally within a framework
- operators can ease customers onto new networks and services
- nobody controls bottlenecks

- fixed networks:
  - local loops
- mobile networks:
  - mobile termination rates
  - international roaming
  - data prices
  - SMS prices
- regulation:
  - nationalistic
  - not (yet) achieving competition

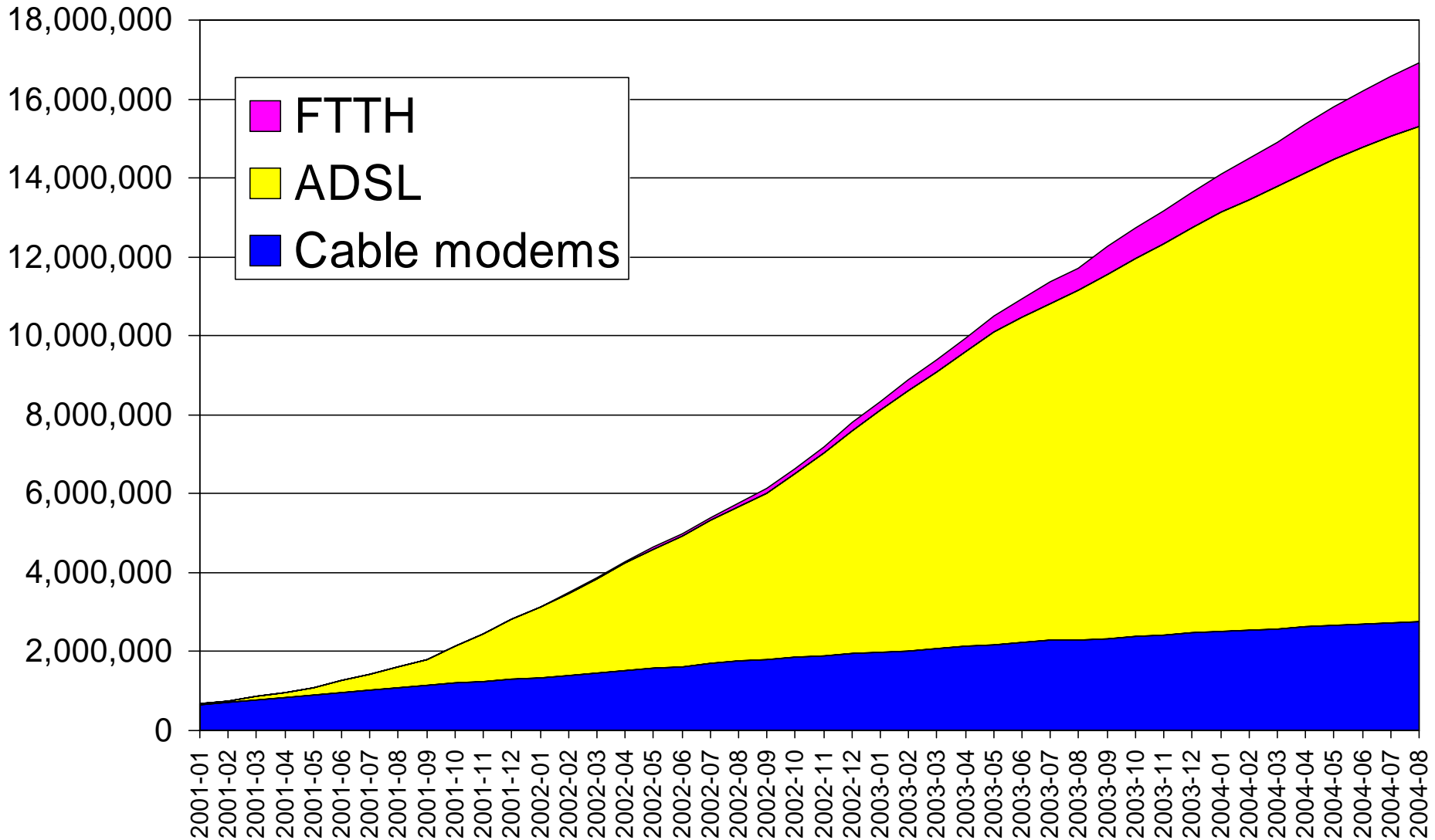
# INTUG ADSL offers

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- Japan Yahoo! BB
  - 50 Megabits/sec downstream
  - 3 Megabits/sec upstream
  - rent of 802.11g router/modem
  - ¥ 5,000 per month (about SKR 337)
- France Free.fr
  - 20 Megabits/s downstream
  - €29.99 per month (about SKR 271)

Japan has > 1 Million FTTH lines  
about ¥ 7,000 per month (about SKR 472)





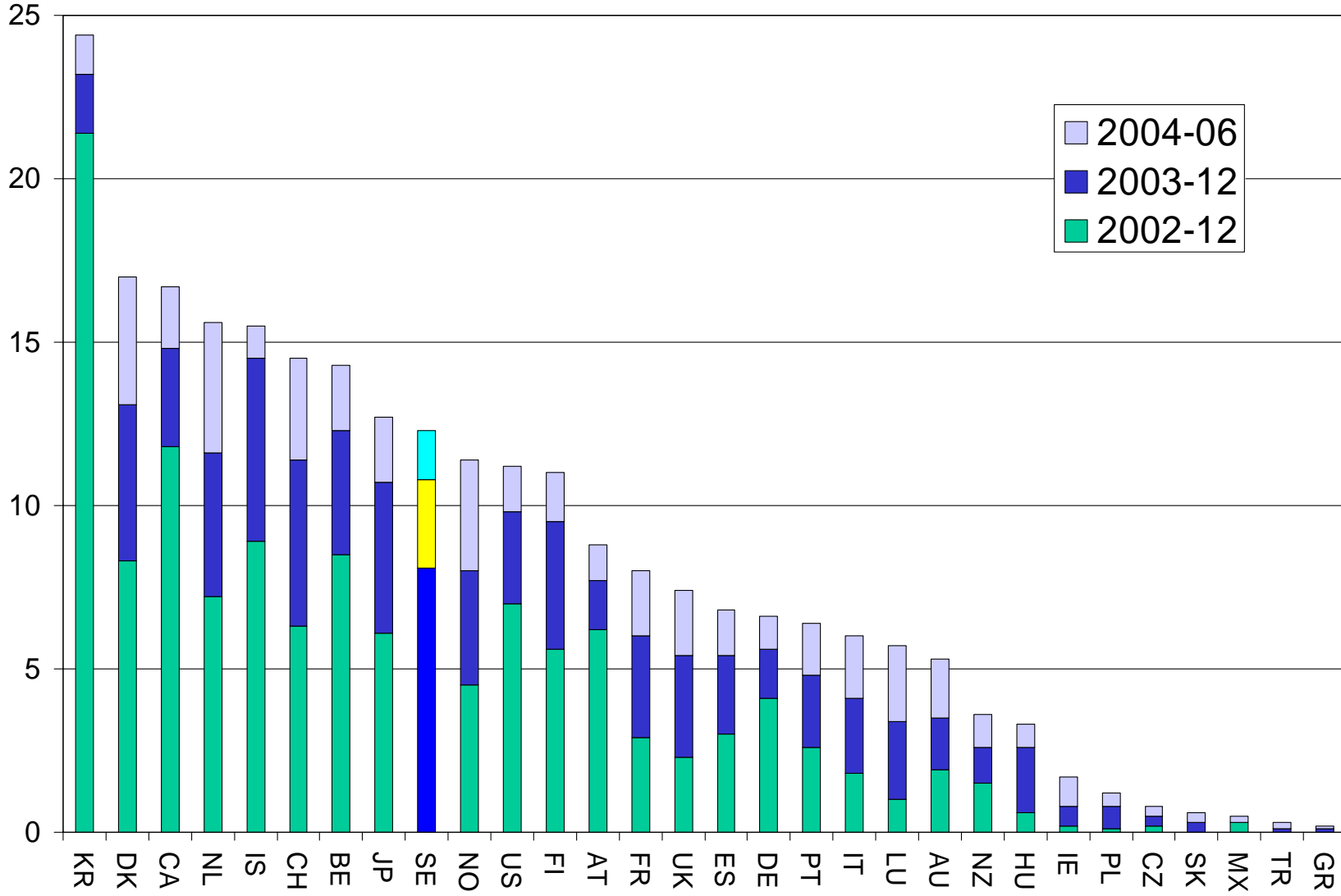
# INTUG broadband

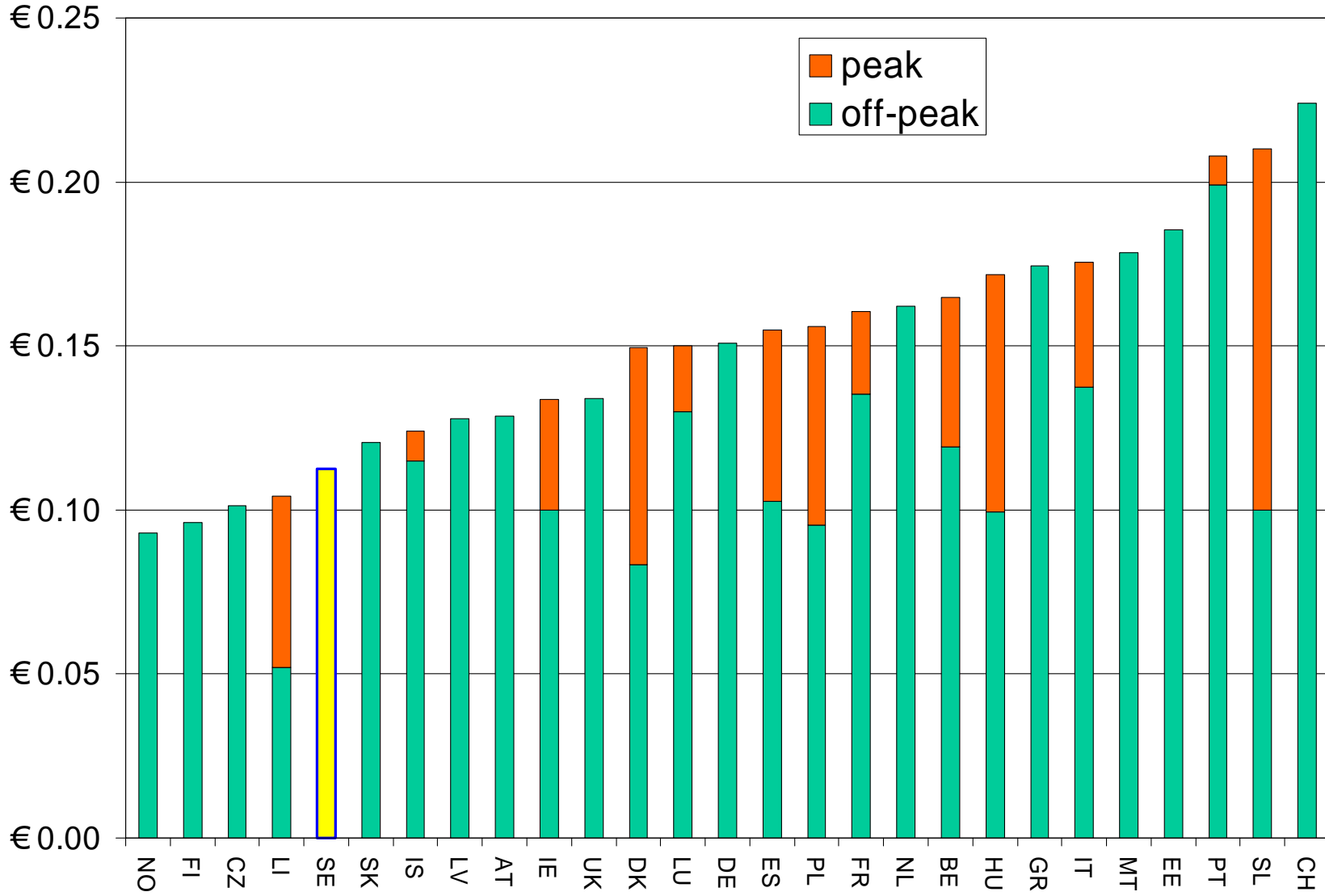
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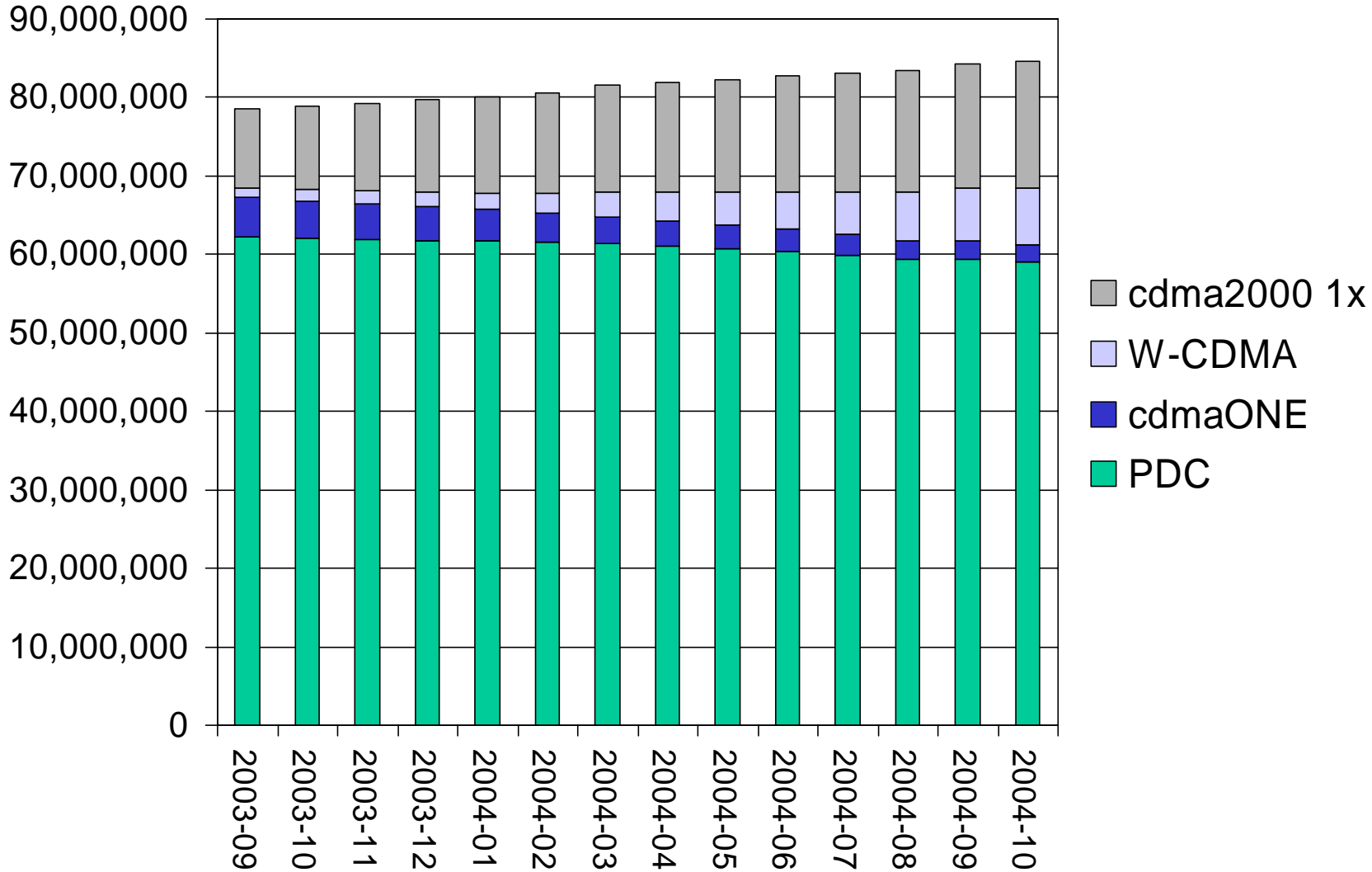
- global best practice is flat rate pricing
- per month, not per Megabyte
- Australia
  - Vodafone\* AU\$49.95 (SKR 260)
  - limit of 500MBytes
- Japan
  - KDDI † JPY 4,200 (SKR 283)
- United States of America
  - T-Mobile\* US\$ 29.99 (SKR 207)
  - Verizon Wireless US\$ 79.90 (SKR 552)

\* GPRS † cdma2000

# INTUG 3G in Japan

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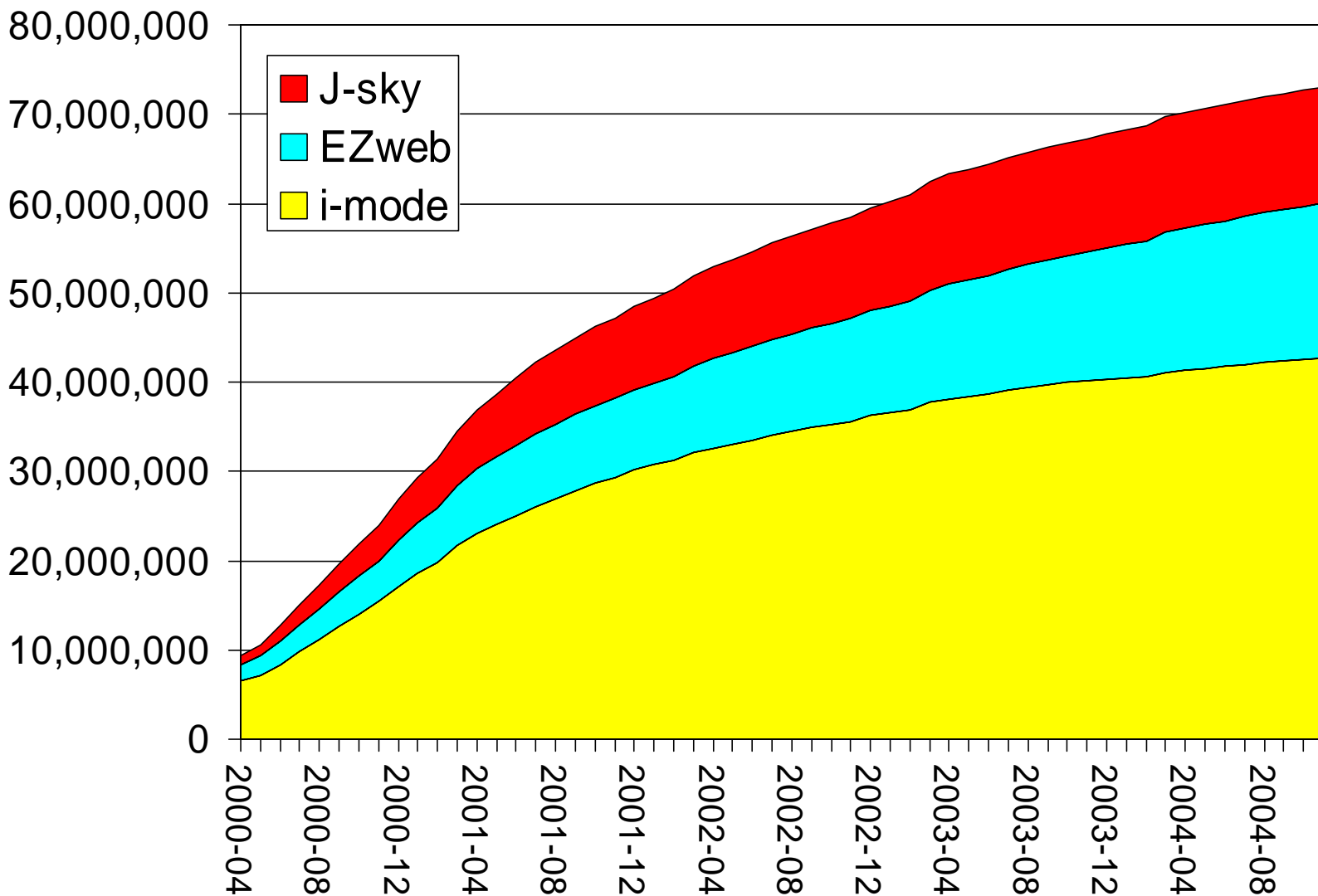
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# INTUG mobile Internet

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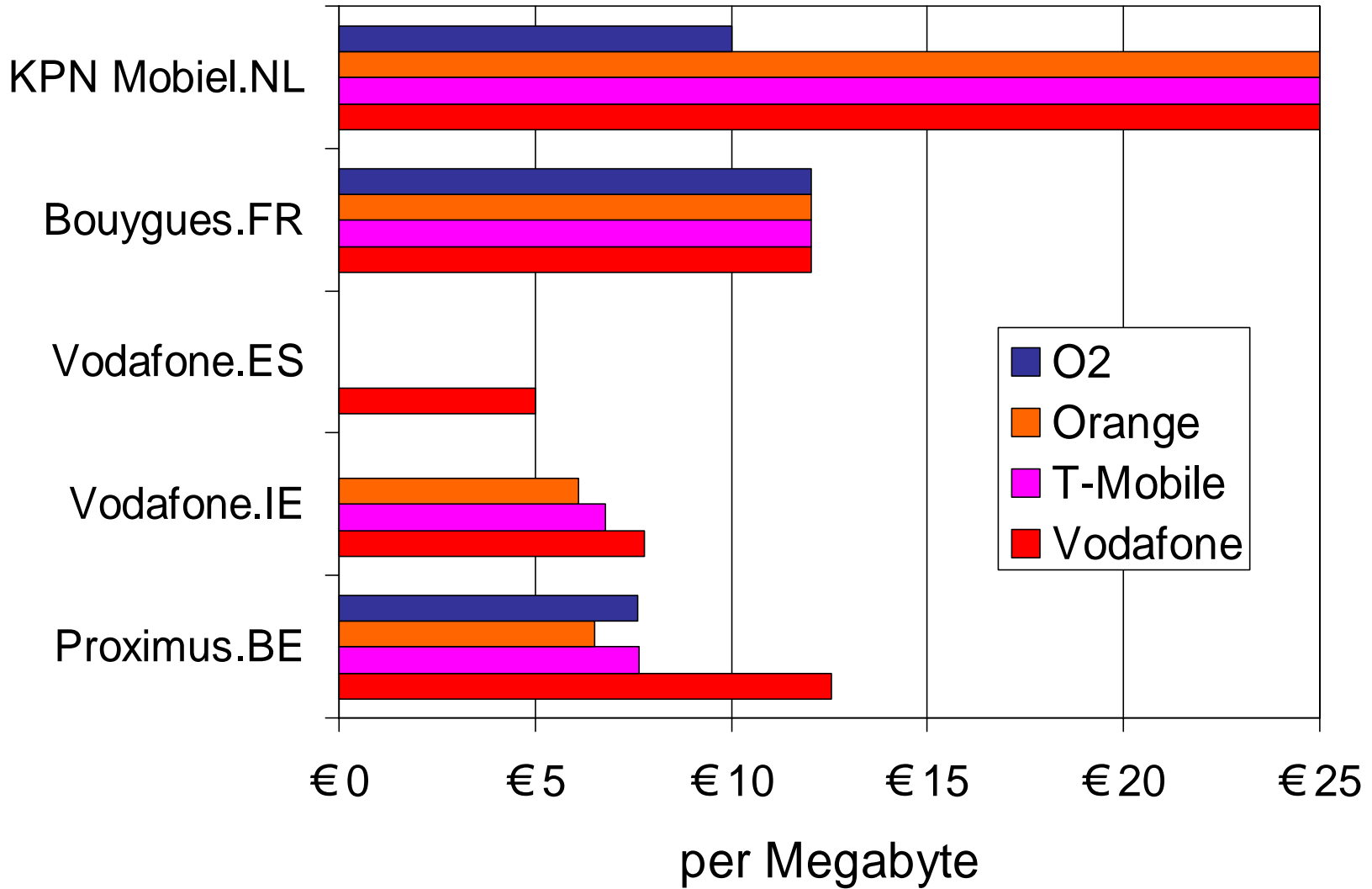
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# INTUG roamers in UK

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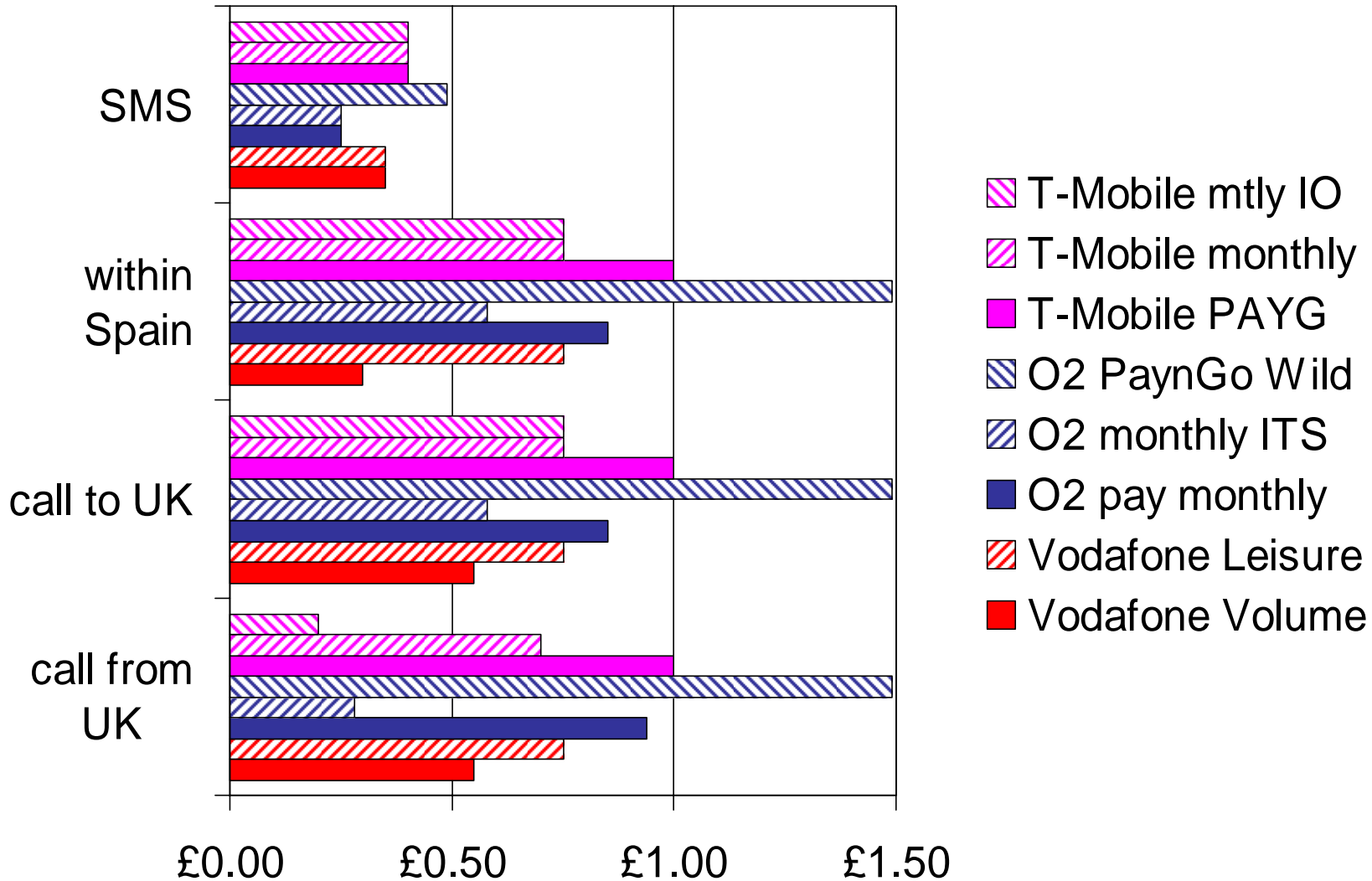
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# INTUG Brits in Spain

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- a major set of regulatory problems
- is it voice telephony?
- is it PATS or ECS? (does *anyone* care?)
- emergency services:
  - access
  - loss of electricity
  - location details
- is it eligible for geographic numbers?
- should there be entries in the directory?

it might just disappear into a bundle with broadband



- significant international traffic
- some countries resisting fiercely
- IP-Virtual Private Networks:
  - rapid roll-out of corporate networks
  - but there is nothing in the regulations, neither for nor against

# INTUG challenges

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- is it the end of per minute voice revenues?
- how do we achieve ubiquitous connectivity?
- how do we reconcile the different approaches in Europe, Asia and the USA?
- how do we overcome long-standing issues? (LLU, F2M, IMR, SMS, etc)
- access to spectrum (cdma450, 3.5GHz FWA)?
- getting fibre into the network, to the premises?
- absence of a single European market?

**INTUG** thank you

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