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Outline **OINTRODUCTION OTECHNICAL ASPECTS MARKET DEMAND OSUMMARY**

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GREAT PROMISE for Consumers-High-speed data Communications to a Variety of value added Applications Content, presented on multi mode Devices practically anywhere in the world

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INTERNET ACCESS

Mobile Internet

Travel Information Near Video on Demand News and Sports Clips Business TV Audio on Demand Information

Chat,e-mail

Broadcasting

Fixed Internet



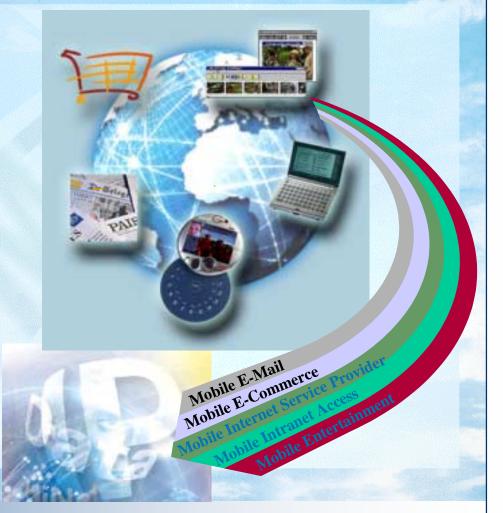




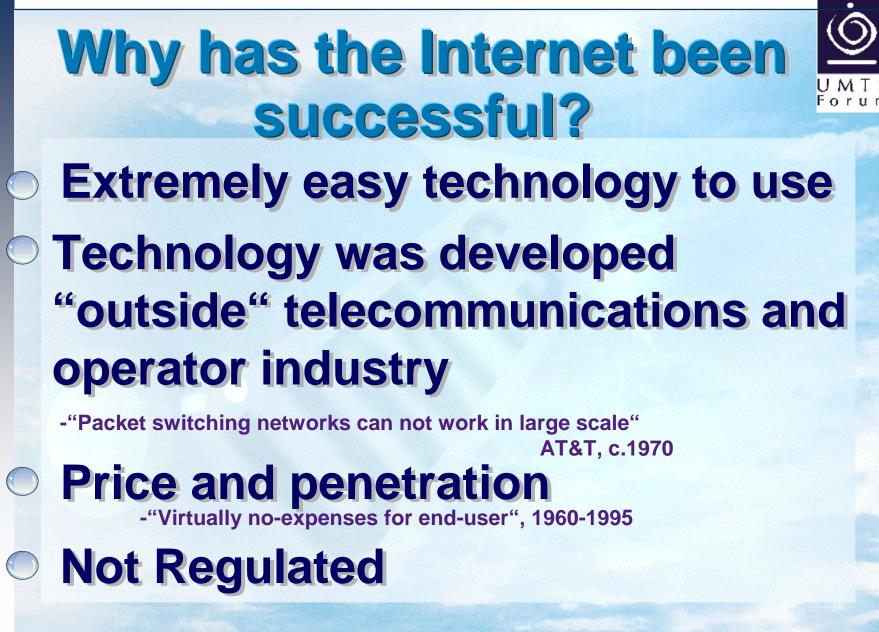
IMPORTANCE OF IP

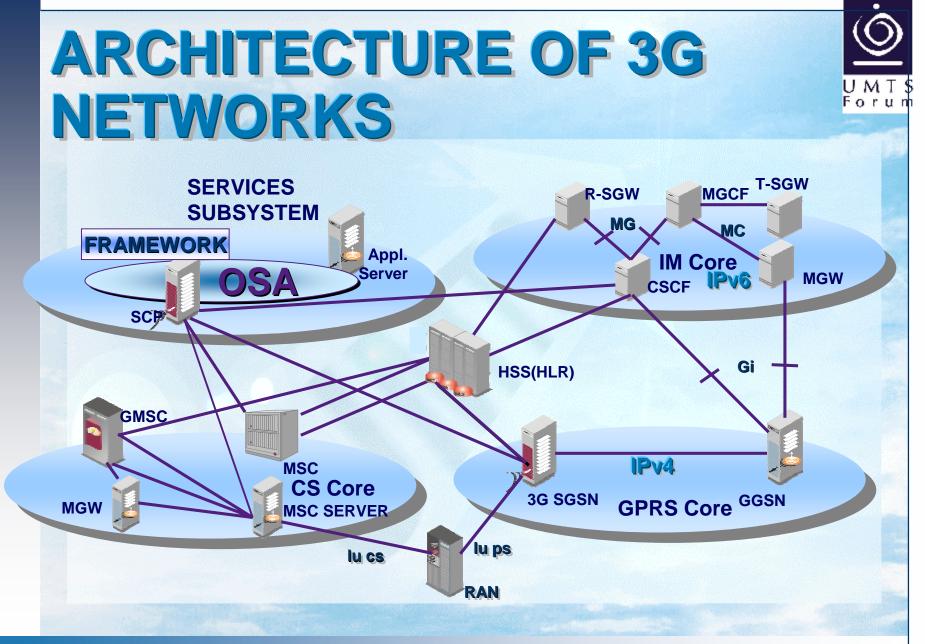
IP is more than a Protocol.

IP is ubiquitous. IP has influenced many businesses

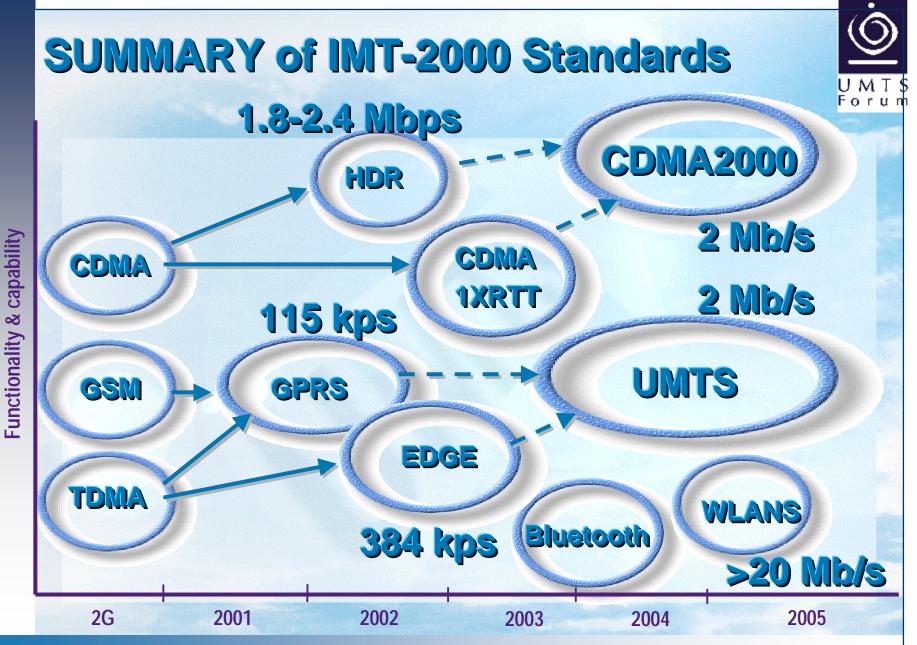


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"The nice thing about standards is That there are so many to choose from"

Today in multimedia rather than choosing one, one uses all of them together

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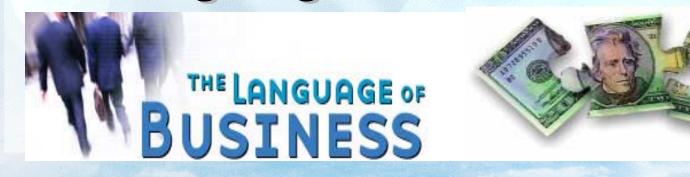
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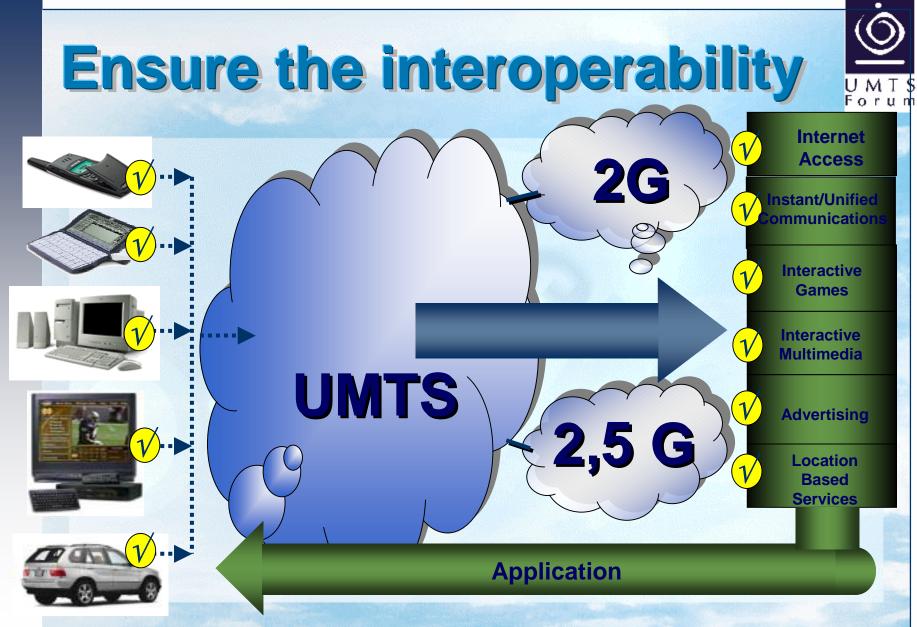




3G market demand

The 3G operator role will change from a simple voice-only, direct relationship with the user to one which involves: multiple partners, revenue sharing, and third parties also targeting the end-user





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Migration from 2G to 3G



How will we know when we will have got to 3G? Famous last words

"The telephone would be used only to inform people of the arrival of telegrams."

Forecasting ca

1876 Alexander G. Bell invents the phone

Forecasting can have unpredictable results

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SERVICES & APPLICATIONS



- Mobile Banking/Brokerage
- Interactive Shopping
- Multimedia Booking & Reservation
- Mobile Auctioning
- and more . . .

mobile info-services

- Map based location info service (e.g. restaurant finder)
- Map based traffic info
- Multimedia personal info service
- and more . . .

mobile services

- Control of Household Devices
- Personal Security Systems
- Video Surveillance
- Machine-to-machine comms
- and more . . .

mobile portal

- Personalized application menus
- Search Engine
- Banner Ads
- and more . . .

mobile communication

- Multimedia Messaging
- Video Telephony / Video Chat
- Fast Internet Access
- and more . . .

mobile entertainment

- Audio- Video-Clips
- Multimeadia Lottery & Betting
- Interactive Games
- and more . . .

mobile office

- Personal Organizer
- Corporate Directory
- Fast Internet-/Intranet Access
- Video Conferencing
- and more . . .

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- Added Value here now for me
 - Simple to use





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ITU Workshop on Licensing Of Third Generation Mobile-16

SIMPLIFY YOUR TFE





UNCERTAINTIES

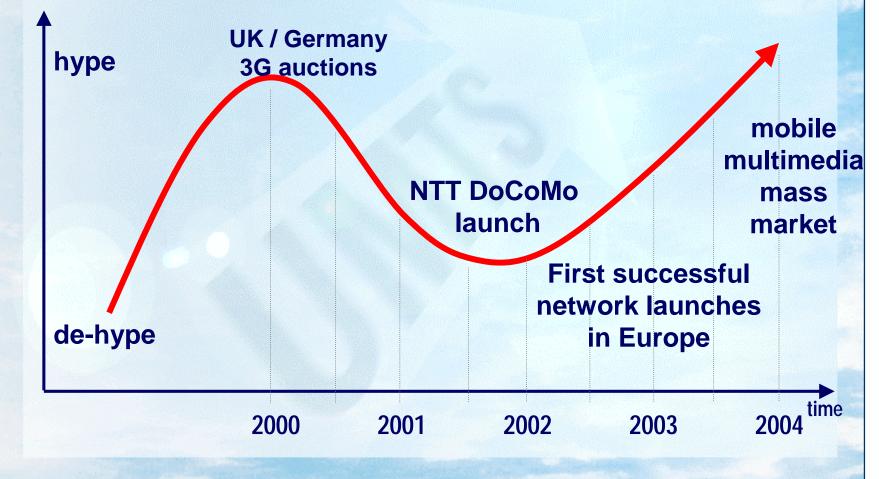
European network Operators have invested approx. 313 billion Euro on UMTS Licenses

In addition large to new infrastructure, Device Availability, network development costs

Strategic uncertainty on product / market positioning, service and market segments etc.

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"This is not the end, it is not even the beginning of the end. It is merely the end of the beginning"

Winston Churchill



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