At the threshold of next generation

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Towards a common standard of mobile communications

1**G 3G 2G** discontinuity evolution

NMT



- start early '80s
- analogue
- speech, (data)
- roaming in Scandinavia and some **European markets**

GSM



- start early '90s
- speech, high-speed data, packet-switched (GPRS)
- encryption
- SMS and MMS
- global roaming

- WCDMA for new frequencies
- EDGE for existing ones



- start early '00s
- speech
- very high-speed data
- mobile Internet
- MMS multi-call
- video streaming



Learnings from second generation markets

Wanted: mobile services with a global reach!

CWTS





- Open technology open interfaces, open service platform
- Multivendor interoperability, seamless 2G-3G interworking
- Global roaming for all services (voice, data, messaging)









Learnings from second generation markets

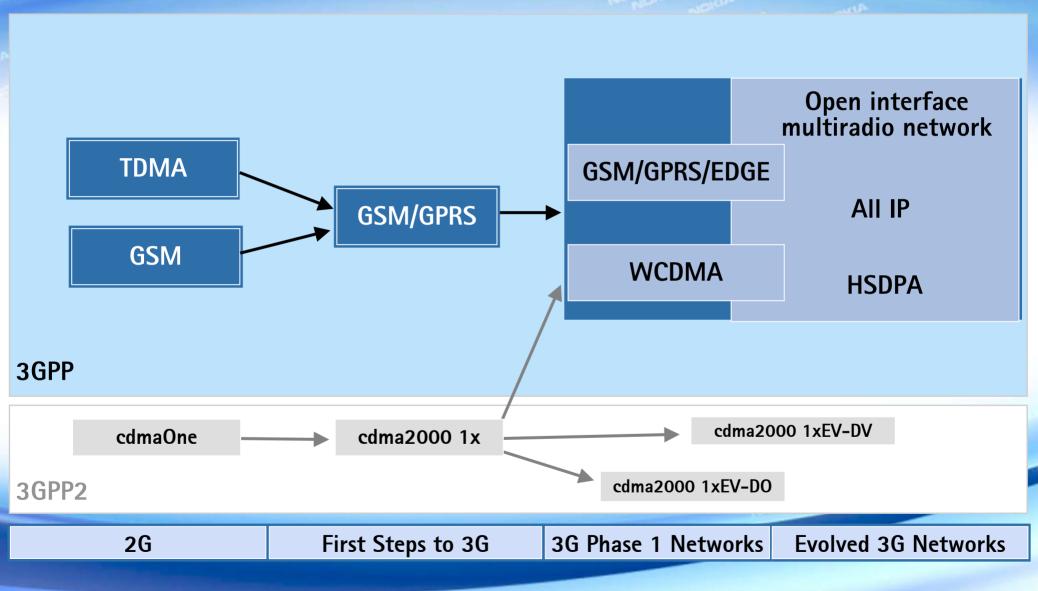
Wanted: mobile services with a global reach!



3G Partnership Project (3GPP) founded in 1998 to bring local standardisation bodies under one global framework



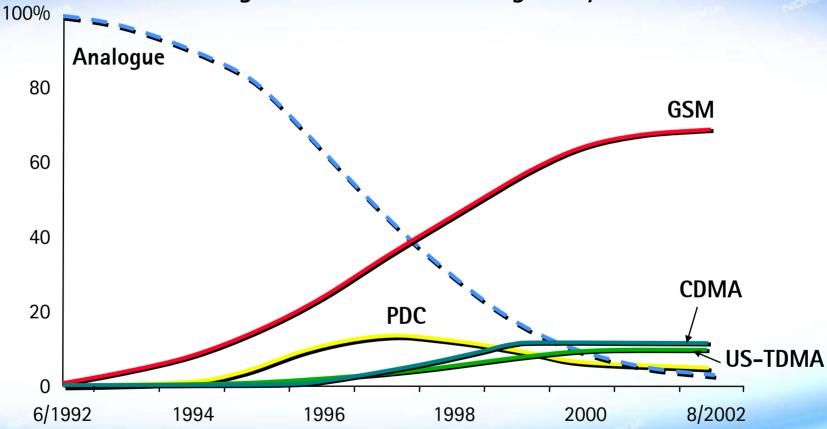
Global Evolution to 3G Mobile Technologies





WCDMA will inherit GSM economies of scale

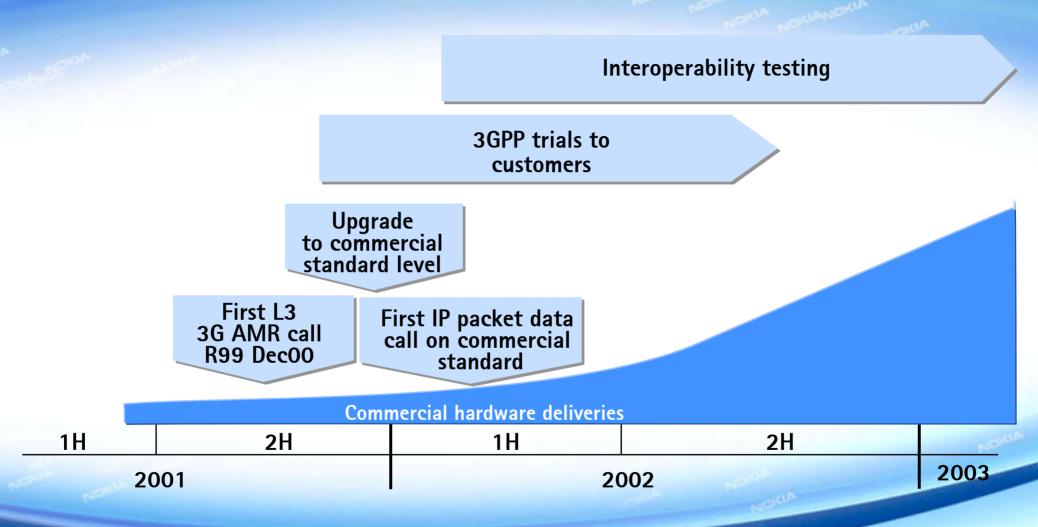




source: EMC



WCDMA 3G standard and technology are ready to go





September 26, 2002 marks a new phase

Phone availability

GSM/WCDMA phone deliveries to operator controlled live networks

Launch phases

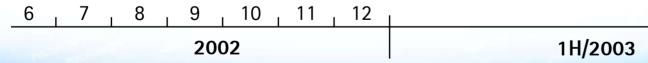
Commercial pilots with friendly users and commercial launches

Application integration and field optimisation

Network tuning and optimisation

Commercial software release deliveries to operator controlled live networks

Network roll-outs continue



Interoperability testing continues



At the threshold of next generation

- Advanced mobile services
- First WCDMA commercial pilots
- Seamless GSM/GPRS/EDGE/WCDMA services









3G is ready for take-off!





NOKIA

CONNECTING PEOPLE

