

The future communication network

A futuristic laboratory or control room with people in specialized chairs and a dense network of blue cables. The scene is dimly lit with blue and white lights, creating a high-tech atmosphere. Several individuals are seated in ergonomic chairs, some looking towards the camera and others looking away. The room is filled with complex machinery, including racks of equipment and a large array of blue cables that snake across the floor and ceiling. A monitor in the upper right corner displays a blue-tinted image. The overall aesthetic is reminiscent of a high-tech research facility or a futuristic data center.

Peter Öhman
Senior Expert R&D
Ericsson

Our vision

All communication devices for real-time voice, video, taste, smell and touch will interoperate and is managed by the end user as easy as a phone call is today



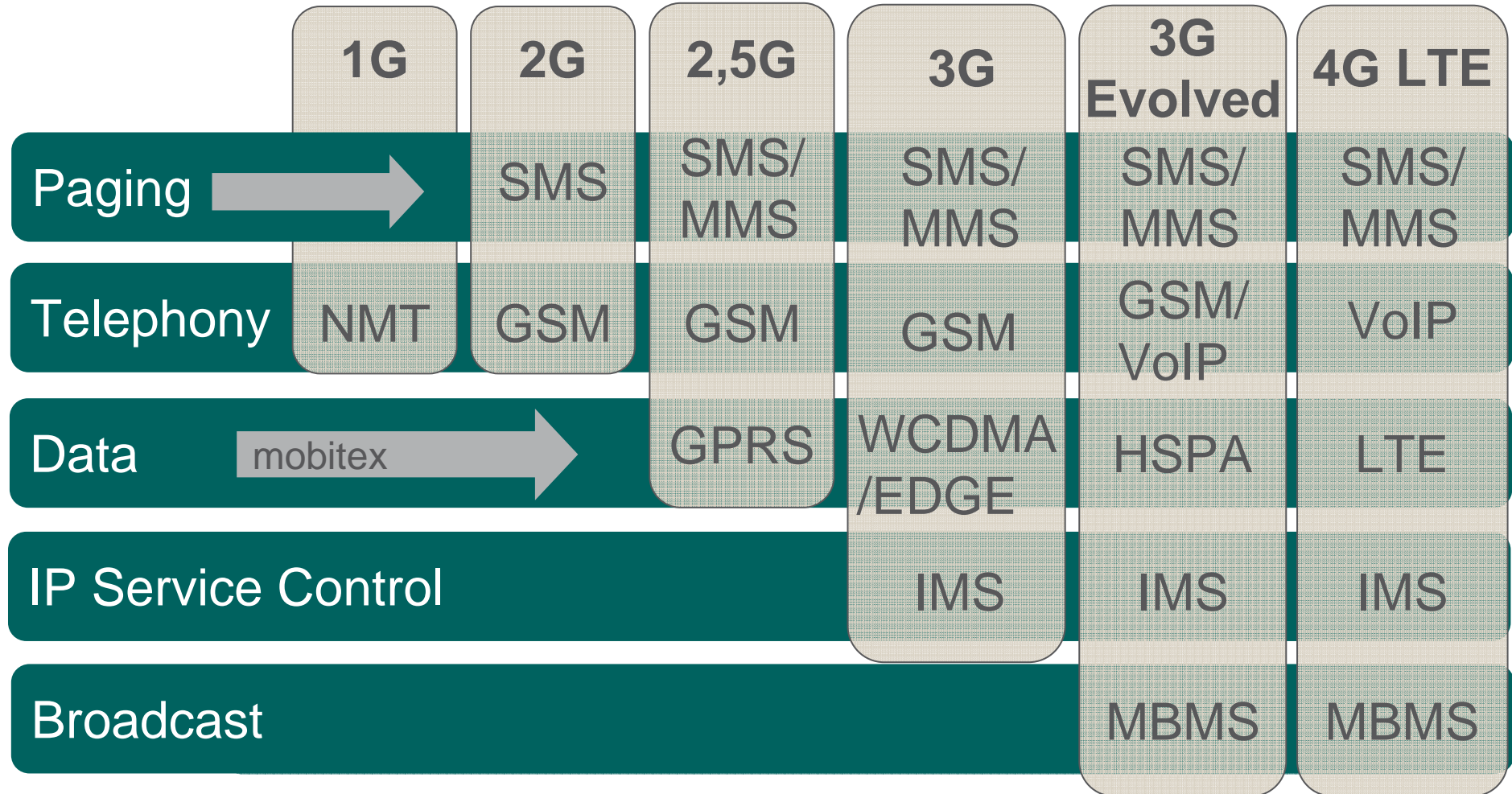
Ericsson technology history:

More than 130 years of leadership

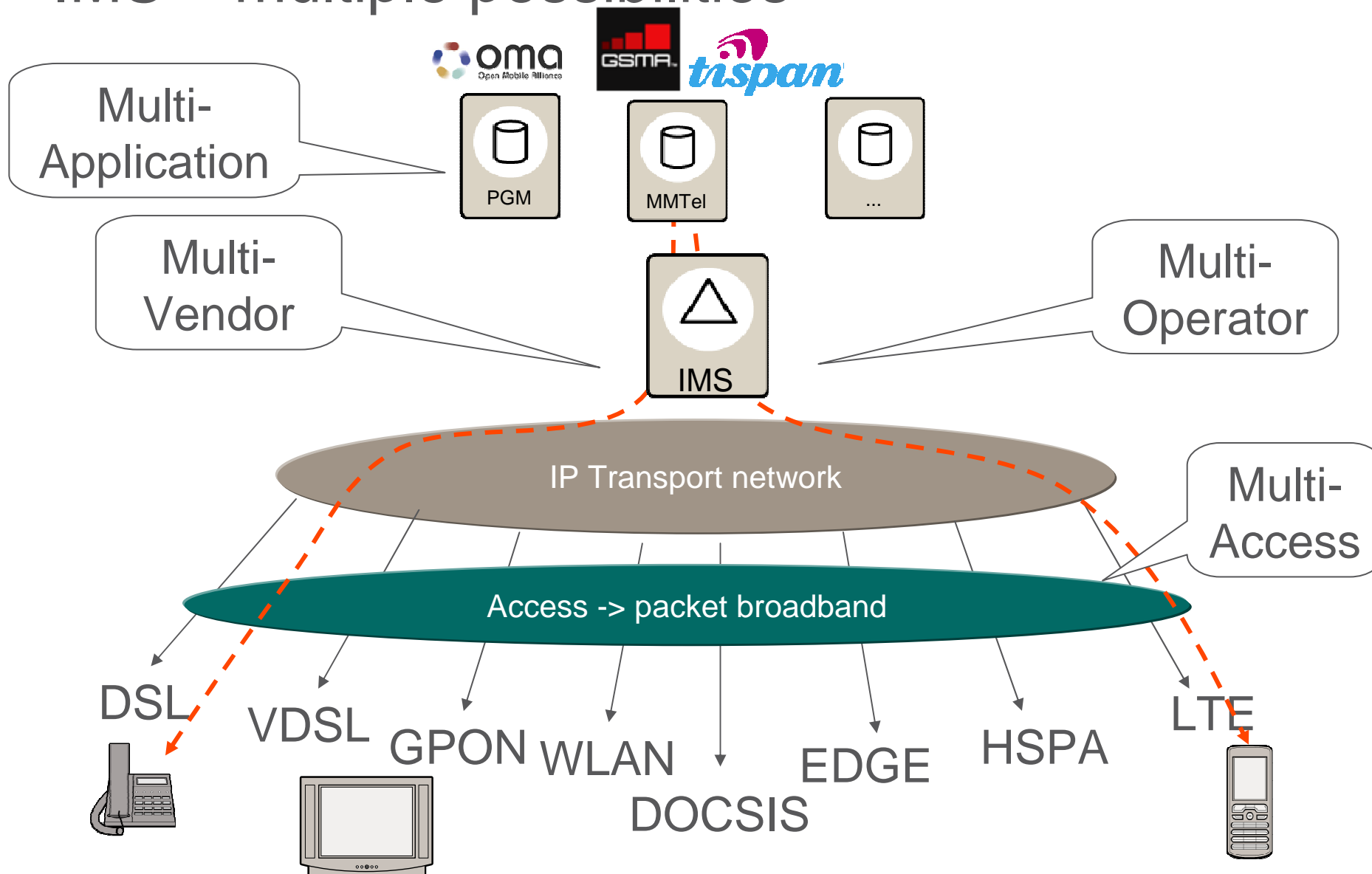
1878	Telegraph to telephone
1923	Manual to automatic
1968	Electro mechanics to computer control
1978	AXE first deployment
1981	Fixed to mobile
1991	1G analog to 2G digital mobile technology
1998	Converge telecom and data in fixed and mobile networks
2001	First 3G WCDMA call on public network
2002	Carrier class IP DSLAM
2003	First mobile softswitch deployment
2005	Mobile Broadband with HSPA
2006	First field deployment of VDSL2 in Europe
2007	LTE system with speeds of up to 144Mbps
2008	10Gbps Gigabit Passive Optical Network (GPON) system
2009	First commercial LTE system , VDSL2 data transfer rates of more than 0.5Gbps
2010	Demo of world record 2.5 Gbps Microwave links
2011	Launch of 40 Gbps WDM-PON



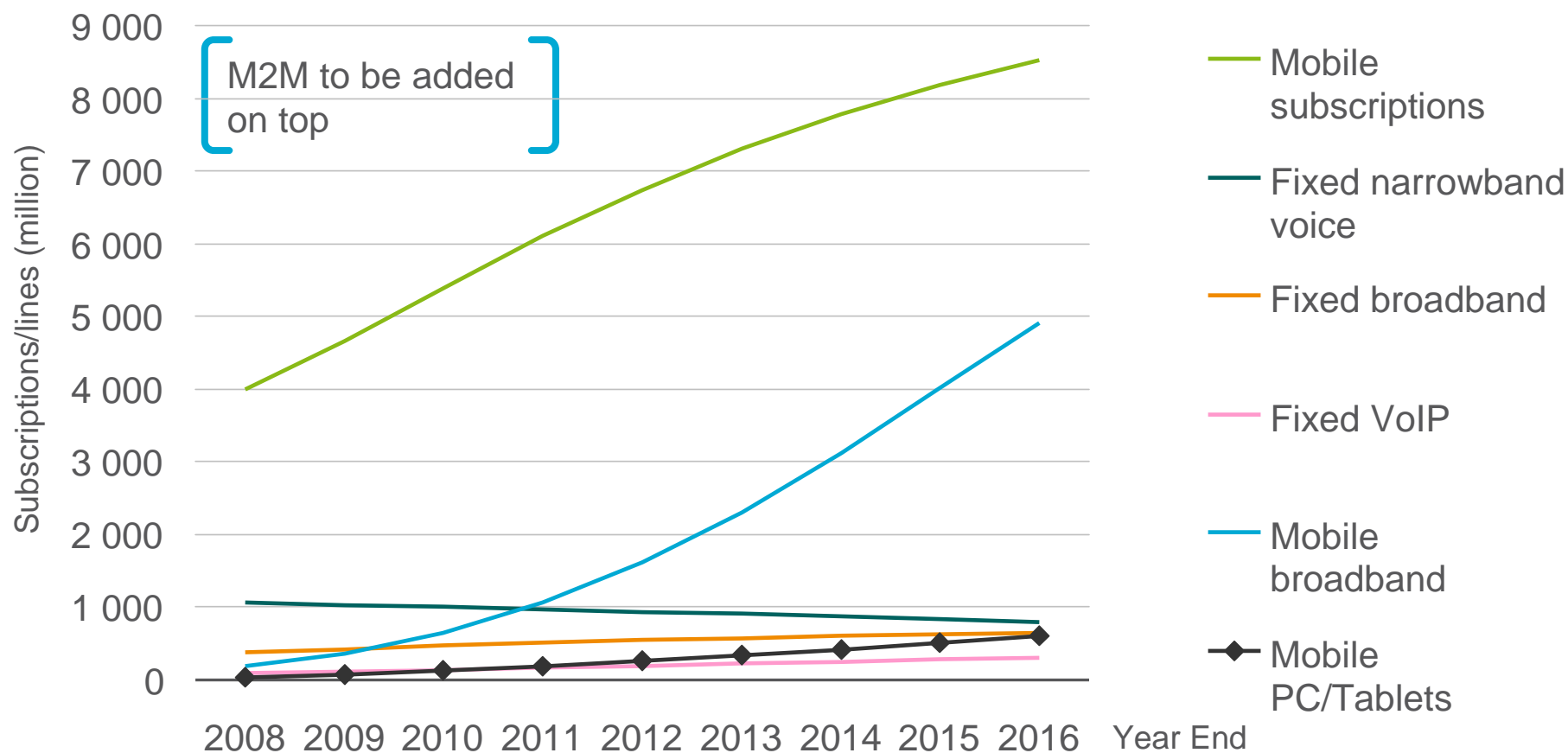
Mobile Telephony Evolution



IMS – multiple possibilities



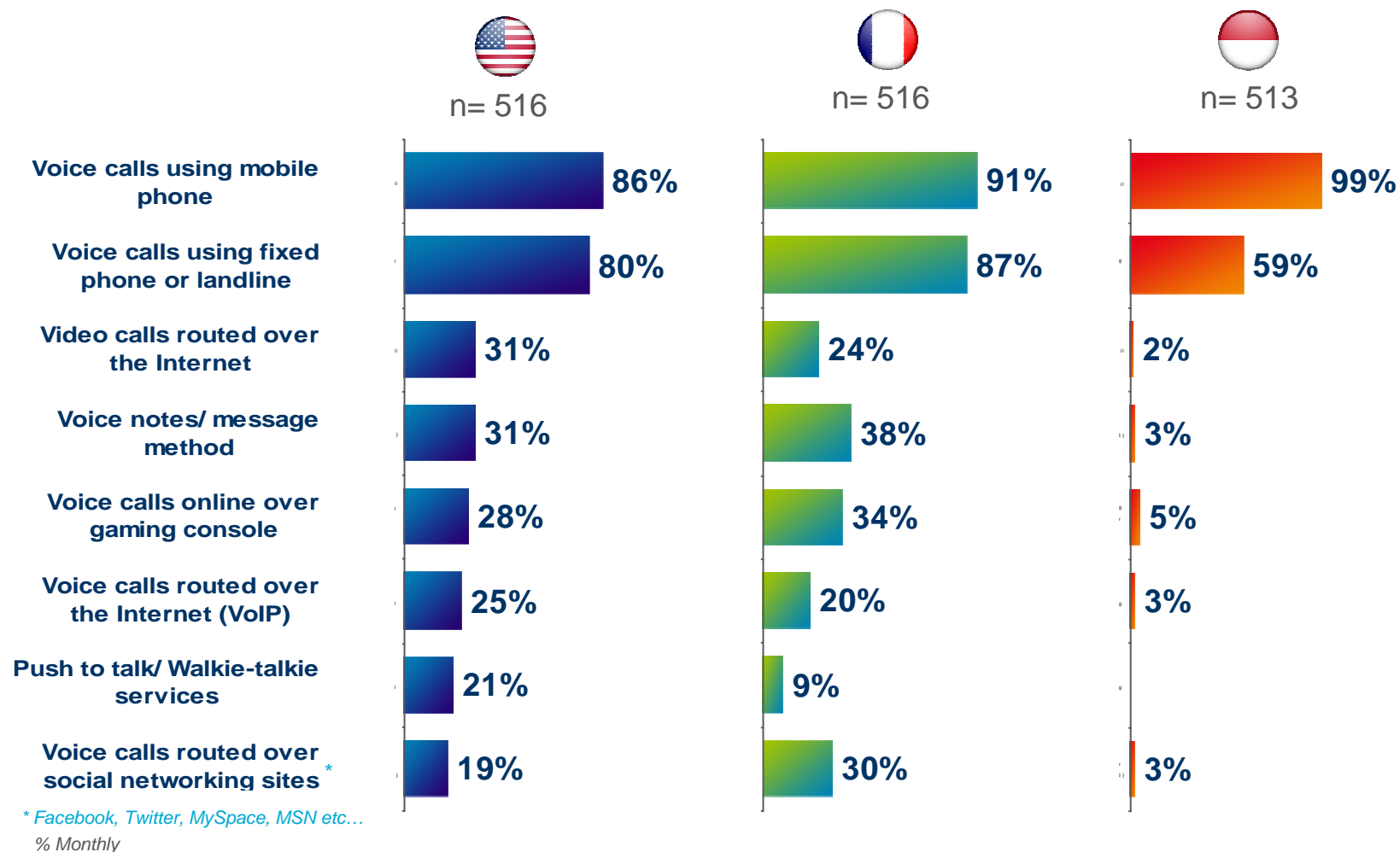
Fixed & mobile subscriptions



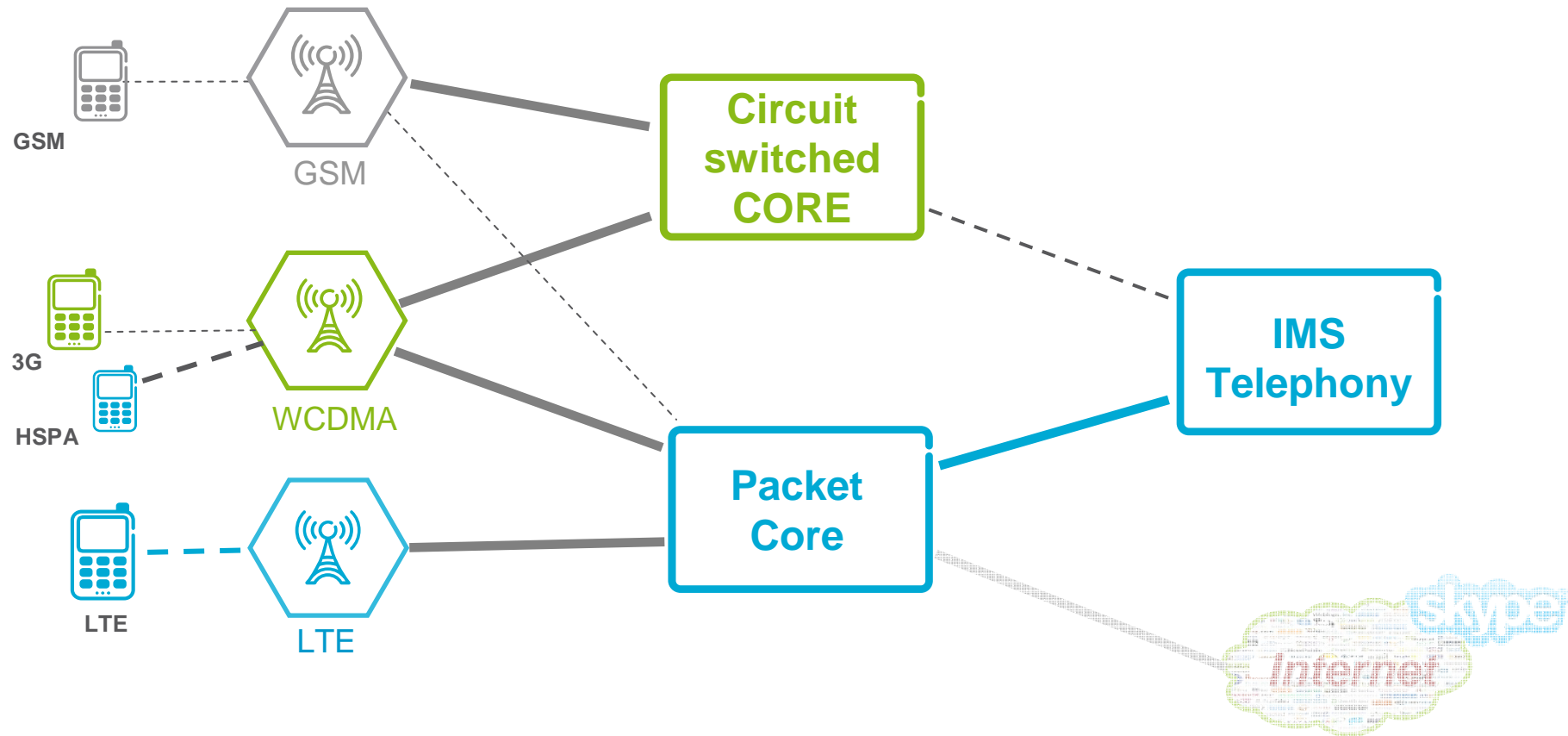
Source: Internal Ericsson

This slide contains forward looking statements

Mobile calls dominate



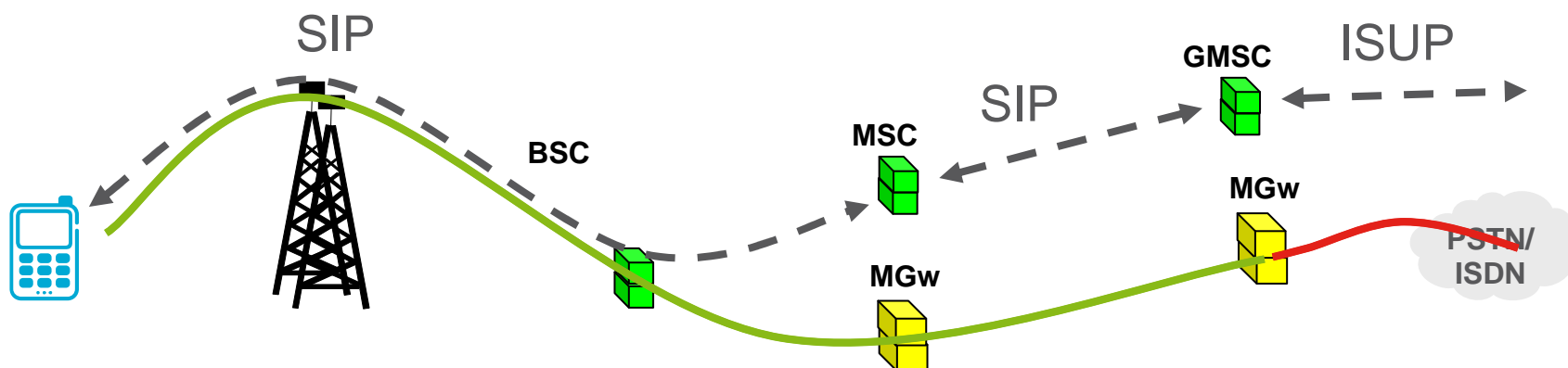
Telephony in Mobile Broadband



LTE is packet-only, no support for circuit.

Telephony over LTE is VoIP!

Voice transport – TrFO/TFO



AMR: 12 Kbps

PCM: 64 Kbps

Network traffic development



Industry estimates place global IP traffic quadrupling over the next 4 years.

- CAGR of 35%
- 90% will be Video
- 60% will be Internet Video

BY 2015 90% OF ALL
NETWORK TRAFFIC WILL
BE

VIDEO

"Telepresence", visual communication



Room, Desktop or PAD-based interoperability is key



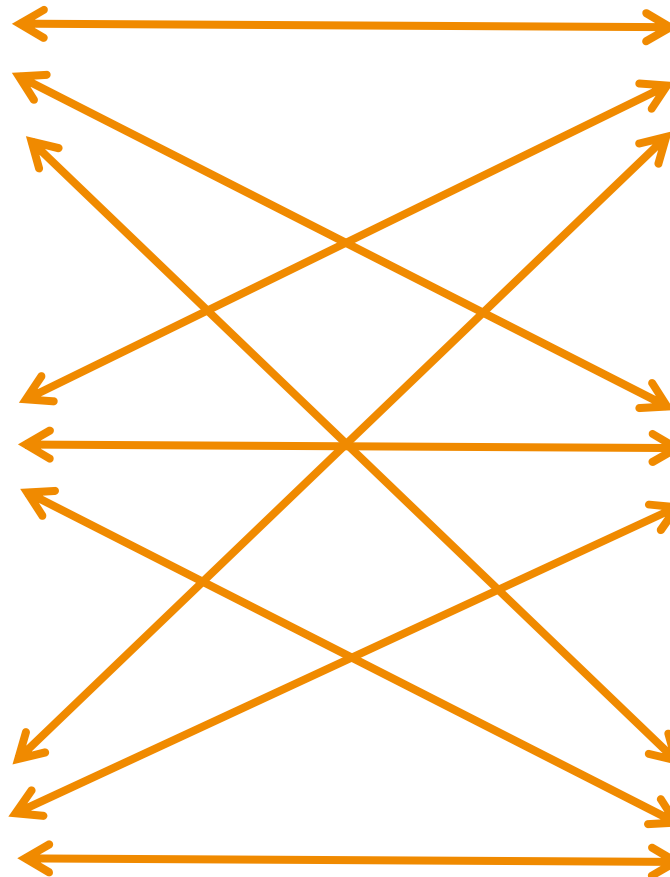
Room



Desktop/Laptop



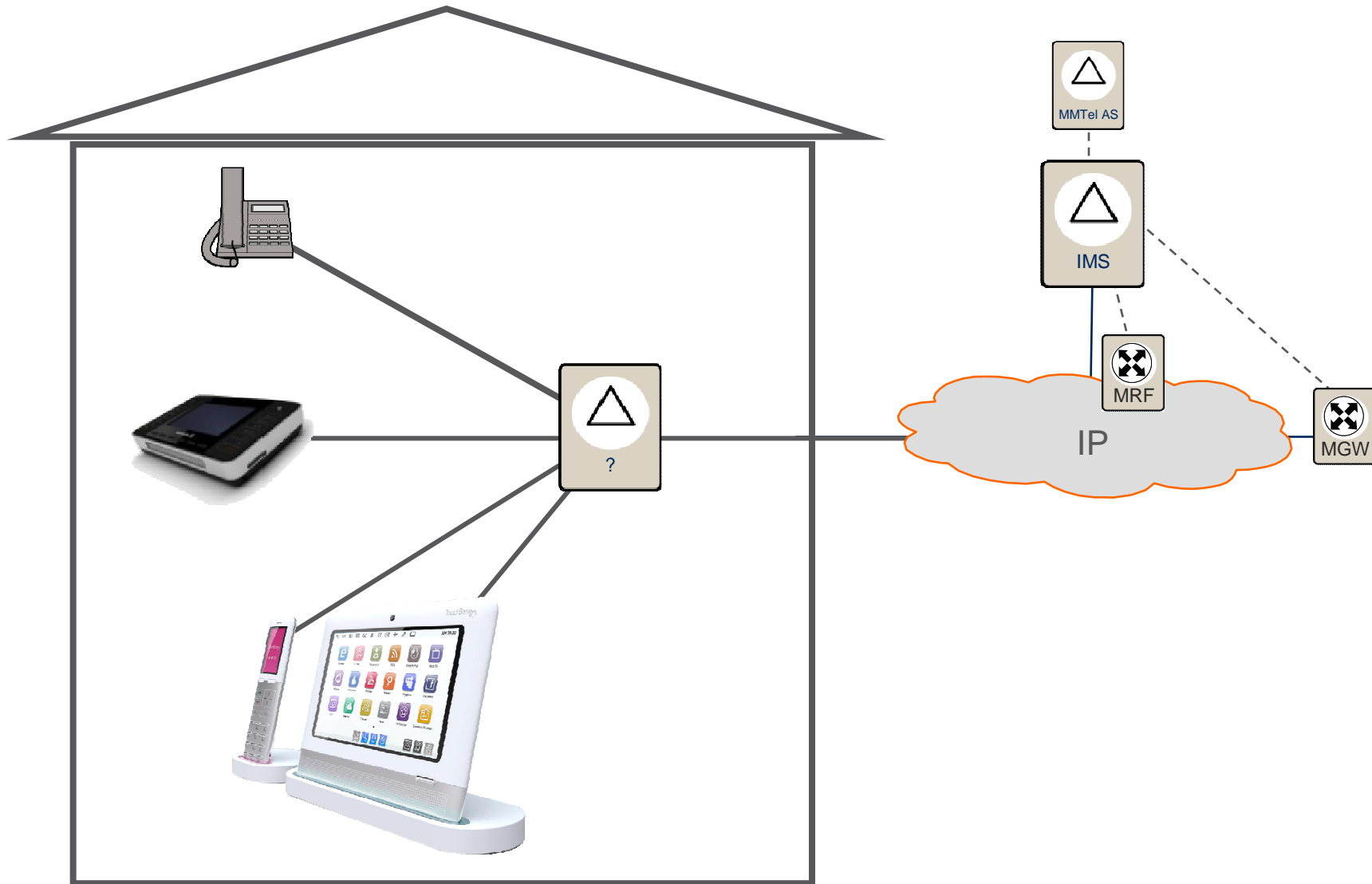
Phone/MID



PAD



Home communication terminals





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