





## > BUSINESS MADE **SIMPLE**

# The Impact of the World Wide Web on Carrier Networks – an Historic Opportunity

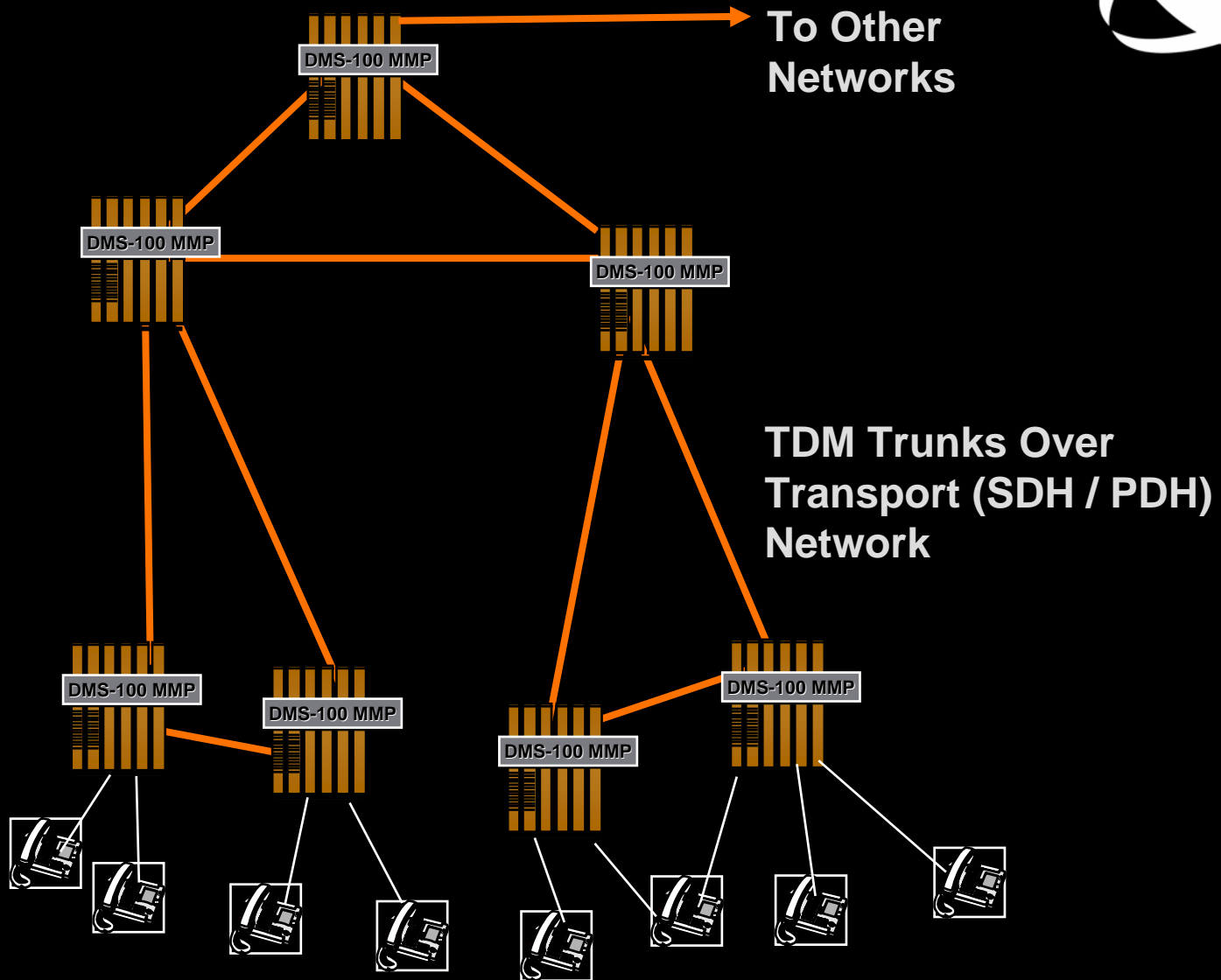
Geoff Hall

Chief Technology Officer, EMEA

May 24, 2006



# TDM Voice Network



# From the Familiar World



## Historical

## Modern

What

Low Bandwidth Growth



Rapid Bandwidth Growth

Shared Facilities



Variable, always on

Network Aware User



User Aware Network

People to People



People, Content & Autonomic

Nodal Services



Network, device & web services

How

Integrated Nodes



Separation of control and bearer

Proprietary & Closed



Open with Gateways

Separate Networks



Converged

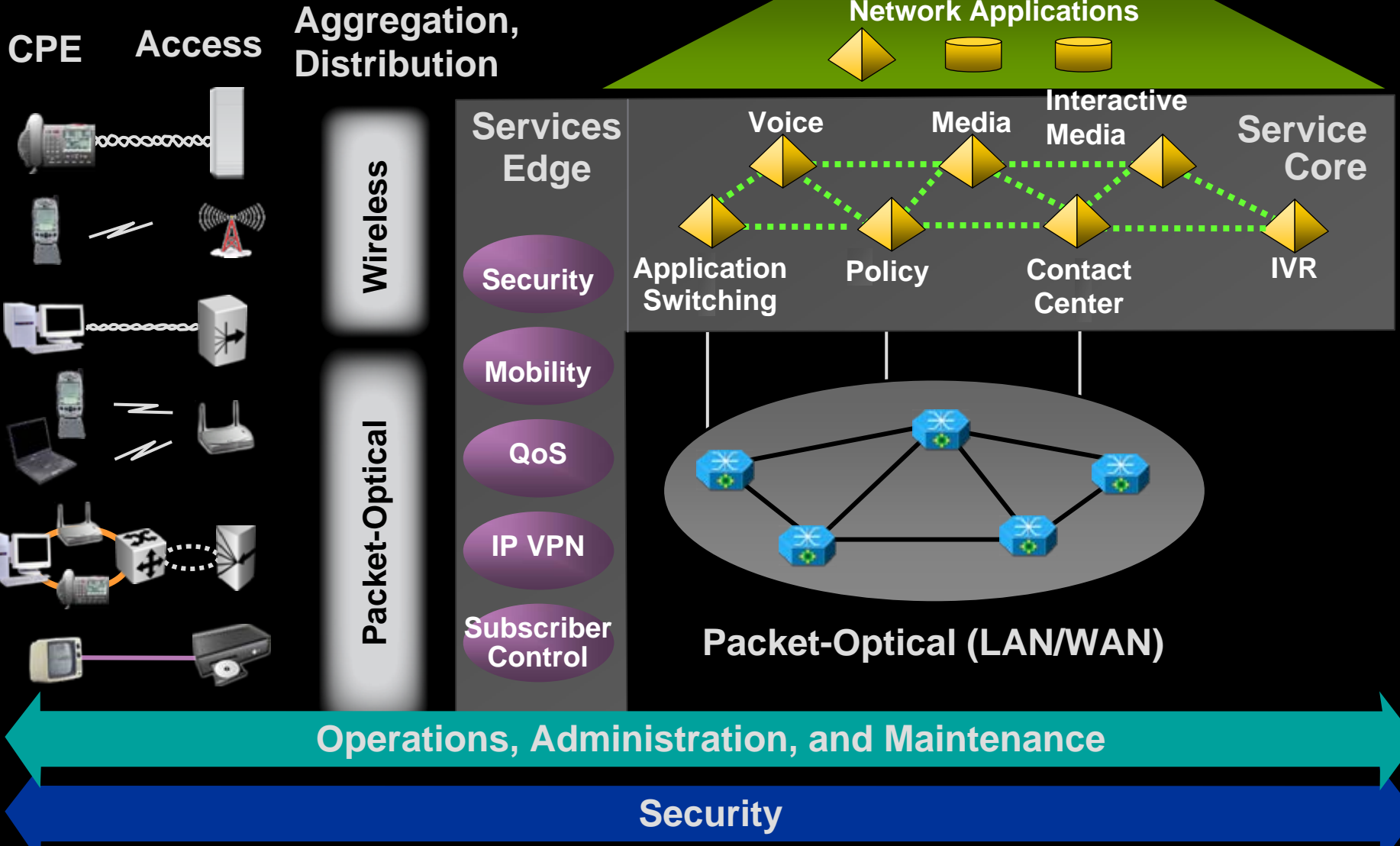


Enabled

**The networks become an infrastructure for the WEB**

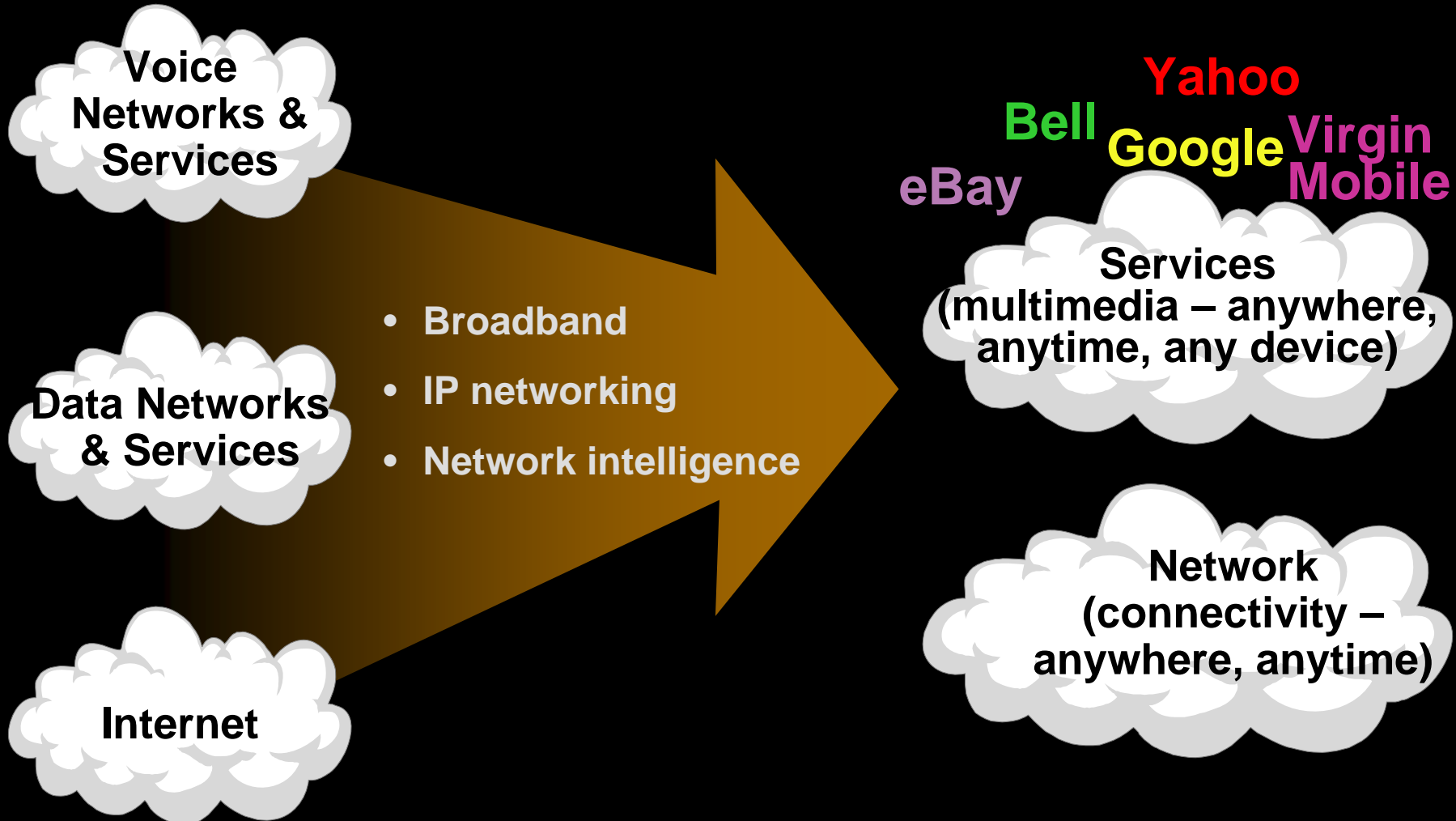
# The New Network

## WEB Applications



# Infrastructure Virtualization Brings Profound Change

New Business Models, Customers, Opportunities





## This Generation's Place in History but....

- > Exploitation of the Capability of the WEB is the Driver
  - will only happen if it is Simple, Secure and Reliable
- > Technology and Standards are the Enablers
  - Technologies and architectures must enable substitution and evolution
  - Standards prevent Isolation
- > Realisation = Revenue + Regulation
  - What gets built will be guided by rational business models
  - Regulation determines the viable business models
- > Critical to Economic Performance

# Korea – Some of the World's Most Advanced Service Offerings



- **Remote digital home services** – home monitoring, digital picture frames, visitor surveillance, heating control, door control, lighting control

- **Commercial transactions made via mobile devices** – subway passes, tickets, groceries, e-Money, credit card purchases, ATMs

- **Location-based services**
- **Mobile stock trading**
- **Mobile banking**

- **Security**
- **Convenience**
- **Transactions**





## In Conclusion

- > The WEB has profoundly changed the Topology of carrier Networks
- > The WEB has Undermined the old and is creating New Business Models.
- > The Power of the WEB in conjunction with the Network infrastructure is a significant component of a competitive economy
- > Will not happen by osmosis





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