

# 3GPP "All-IP" vision

*Long and short term*

- What do we want to obtain ?
- How do we get there (phasing) ?
- What do 3GPP need to do ?
- Issues to be resolved

# What do we want to obtain ?

- Establishment of a flexible service creation environment
- Quick Service/Application creation
  - APIs to allow for third party applications
  - Gain from Internet Services
  - Gain from Intranet Services
  - Utilisation of Toolkits
- Real time including Multimedia services
- Scalability

# What do we want to obtain ?

- Independence of access type
  - Seamless services
  - Common Services development
  - Commonality between private and public networks
  - Potential for fixed mobile convergence
- Separation of Services, Control and Transport when beneficial
- Integrated O&M
- Leverage IP technology cost factor without compromising quality or performance

# What do we want to obtain ?

- Open interfaces to ensure a multi-vendor environment
- At least same level of security as in state of the art mobile networks
- At least same level QoS as in state of the art mobile networks
- Respect spectrum efficiency
- Voice services, and other relevant legacy services

# What do we want to obtain ?

- Maintain and enhance Global Roaming
- Minimise the number of options in the standard

# How do we get there ?

- Hybrid CS and PS network as intermediate step
- Ensure forward compatibility
- Ensure backward compatibility
- Service "transparency" across domains for common services

# How do we get there ?

- IP transport, where beneficial
- Support for charging and billing

# What do 3GPP need to do ?

- Establishment of longer term architecture as part of R00
- Establishment of workplan for R00
- Establishment of detailed requirements
- Study requirements for naming and addressing



# What do 3GPP need to do ?

- Identify potential reuse of other bodies work
- Potentially co-operate with other bodies

# Issues to be resolved

- Which Mobility Management model(s)
- Which Call Control model (H.323, SIP, H248, ... ?)
- IP version to use – IPv6 ?
- Where to use IP transport ?
  - Core network
  - Iu interface
  - UTRAN
  - Uu Interface

Issues to be resolved