

3GPP MRPs 2G->3G Roadmap



GSA, GSM Association,
IPv6 Forum, MWIF, 3G.IP,
UMTS Forum, UWCC

- Introduction

- MRPs tasks (3GPP Working Procedures)
- MRP High Level Objectives
- MRP Follow-up from the 3GPP Beijing meeting

High Level Objectives

- 1 The MRPs role is to provide market and customer requirements to drive standards decision-making and solutions.
- 2 The MRPs support collaborative standards-making at the global level in order to bring the benefits of new services, economies of scale and new non-proprietary technologies - coupled with widespread access, interoperability, roaming, a wide choice of terminals and user terminal compatibility - to the mass-market.
- 3 With their respective market knowledge, the MRPs are working together where appropriate to maximise the value of their inputs to 3GPP in order to provide the best possible market solutions.
- 4 MRPs remain free to present their individual positions consistent with the working practices and consensus-building protocols of 3GPP and its Operational Partners.
- 5 In addition, the MRPs are working together on matters of common interest which relate to the successful launch and development of networks, applications and services based on 3GPP specifications, for example on timing, spectrum, licensing, regulation, and interoperability.

- 3GPP MRP 2G → 3G Roadmap: Initial View

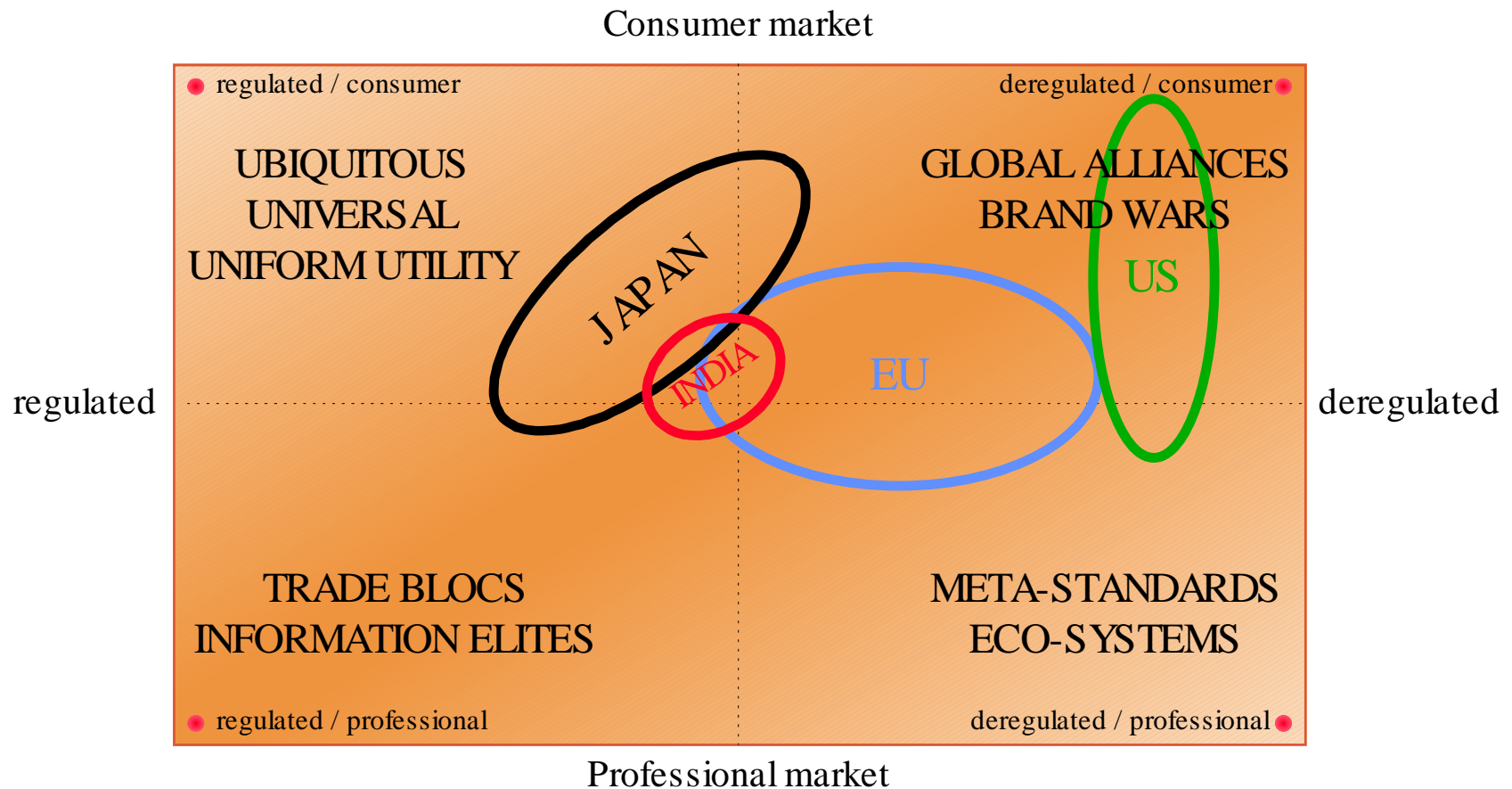
- Roadmaps are essential to maintain direction and momentum at all levels in 3GPP and associated organisations.
- As 3G enters the implementation and competitive phases, it will become increasingly difficult for operators & manufacturers to contribute their views directly. Hence, groups such as the MRPs have a key role to play in building & developing the longer term roadmaps.
- The MRPs have already started work on roadmaps, building upon studies already completed over the past years
- One major objective is to develop service transparency in different environments covering a 5 year span of service and market requirements.
- MRPs wish to advise OP#3/PCG#4 this activity is underway, & a final document will be presented to the November meeting.

- Recommendations

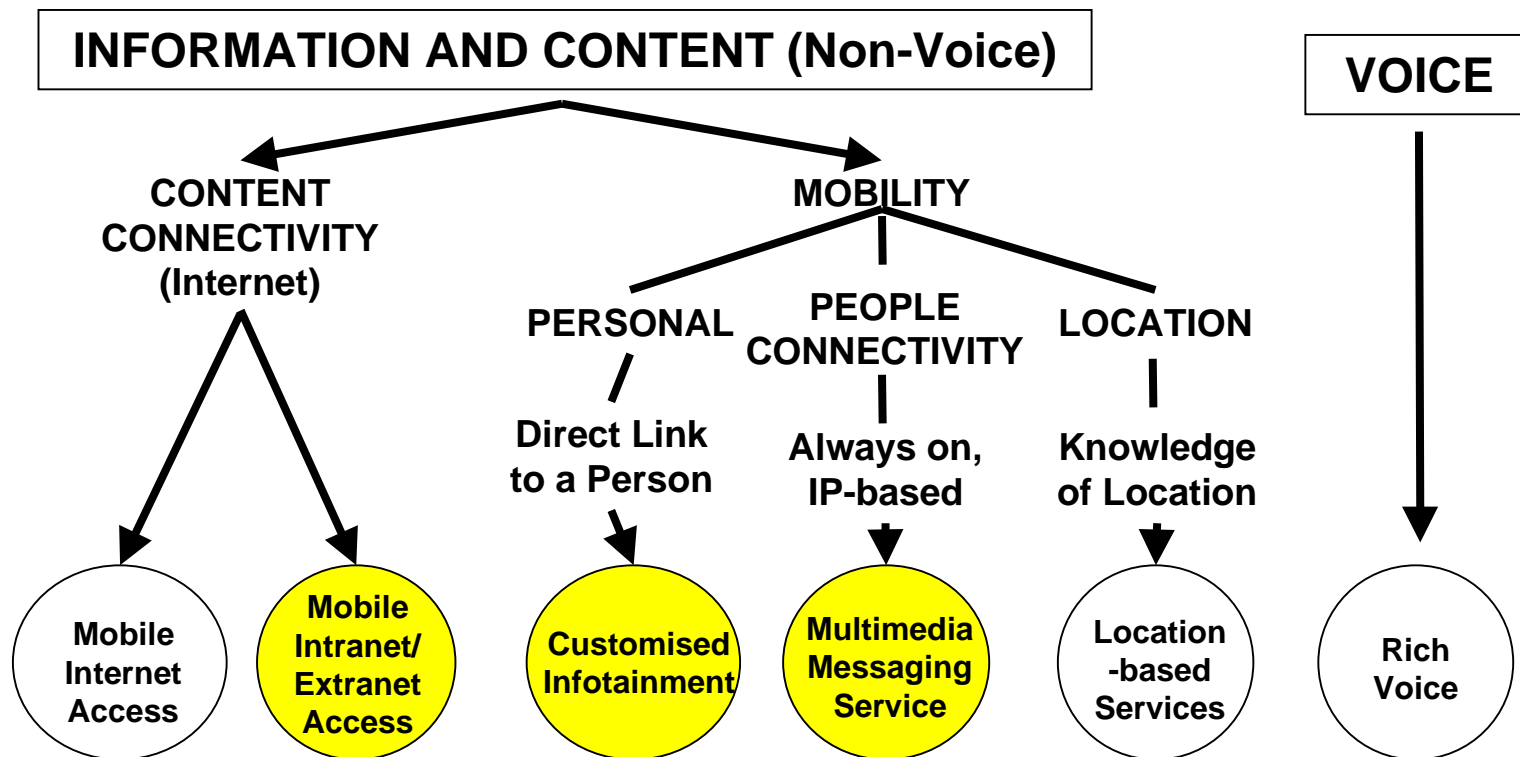
A 3G Market View: 2010



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3G Service Categories

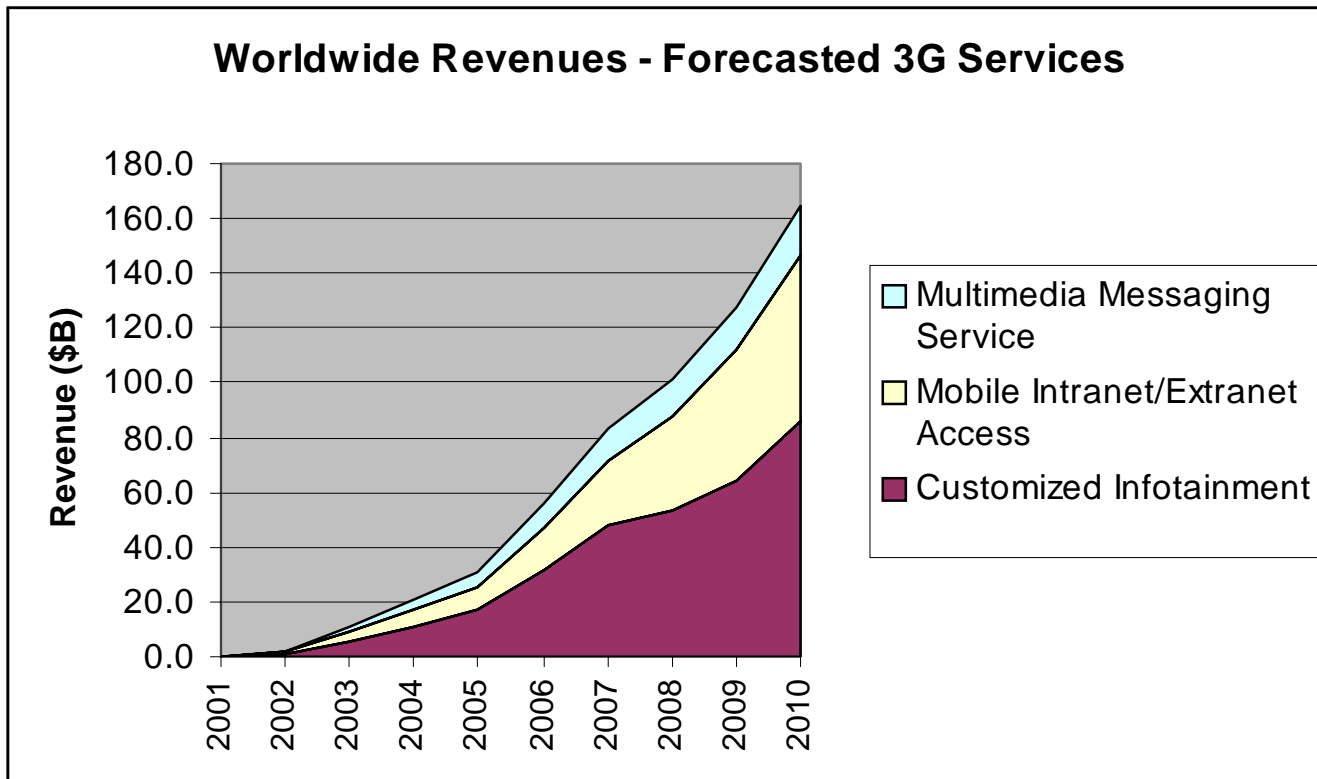


Source: UMTS Forum October 2000

\$164 Billion Revenue from Three 3G Forecasted Services

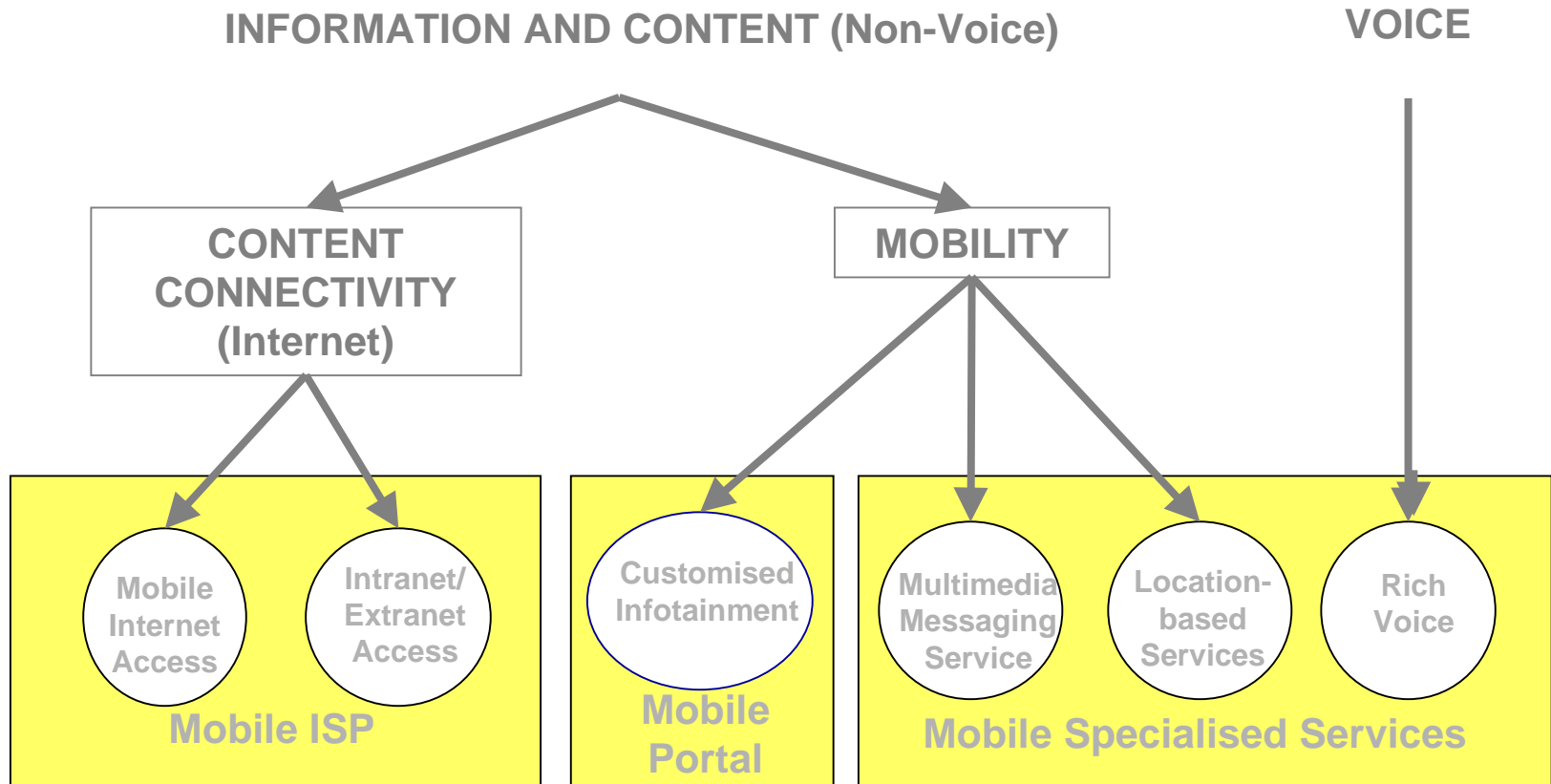


For three of six service categories



Source: UMTS Forum October 2000.

3G Business Models

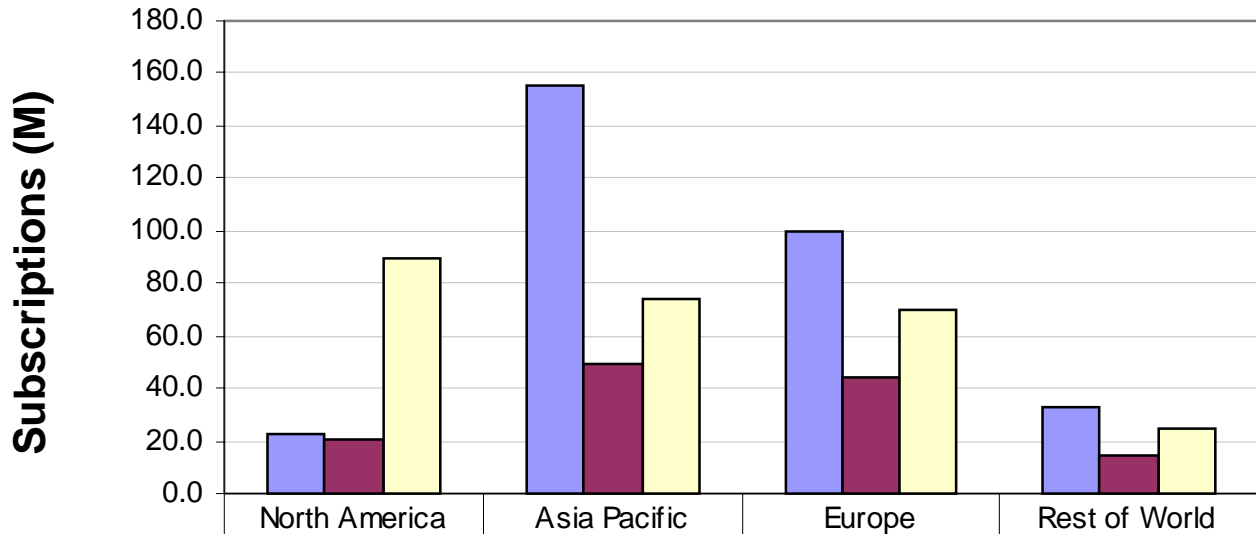


Source: UMTS Forum October 2000

Service Subscriptions by Region: 2010



Subscriptions for Services by Region - 2010



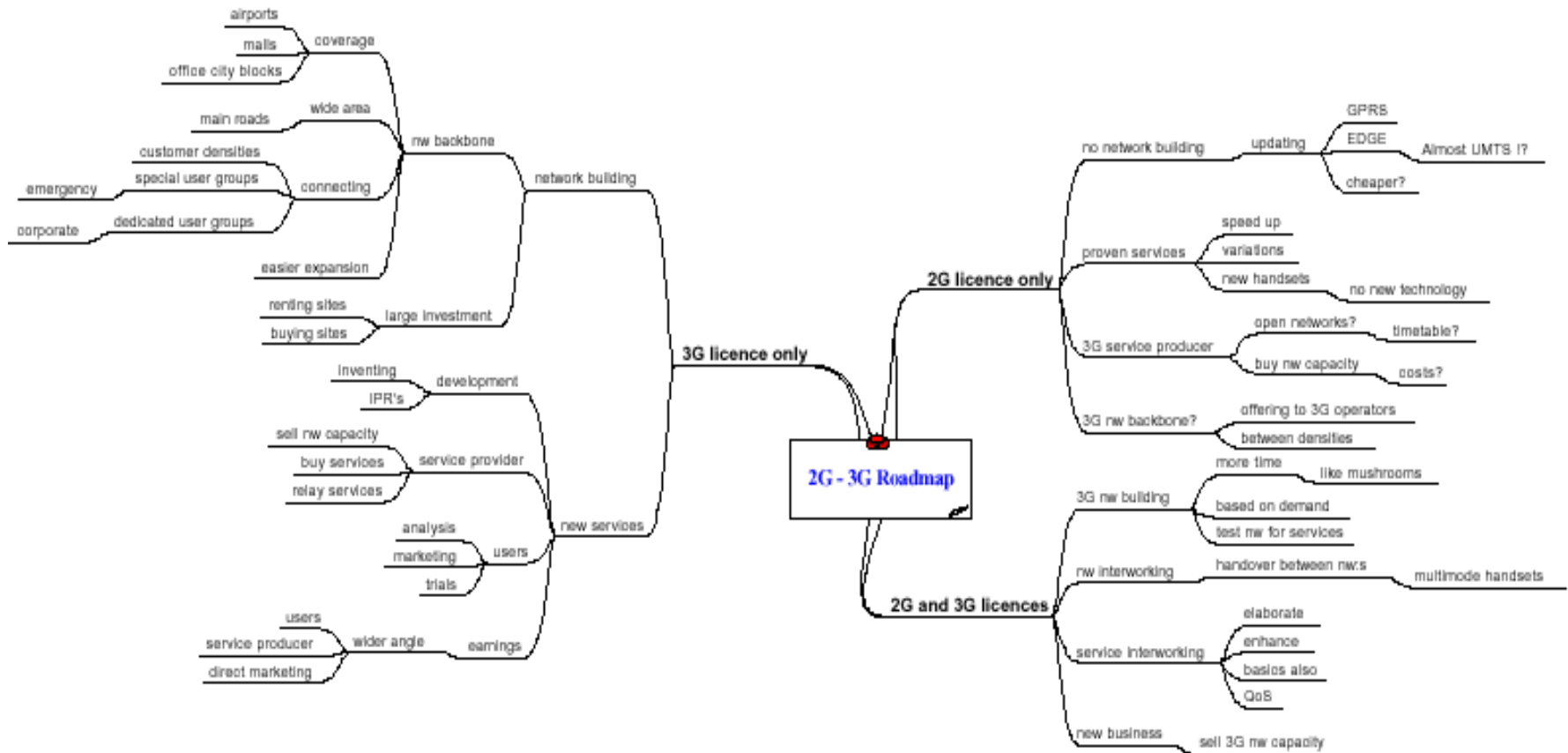
■ Customized Infotainment	22.57941389	155.0139702	100.1882366	33.2848472
■ Multimedia Messaging Service	20.68295326	49.47254793	43.87714724	14.50735067
■ Mobile Intranet/Extranet Access	89.06403813	74.32949586	69.71876874	25.13769254

Source: UMTS Forum October 2000.

Initial Operator View of 3G Transition Options



GSA, GSM Association, IPv6 Forum, MWIF, 3G.IP, UMTS Forum, UWCC

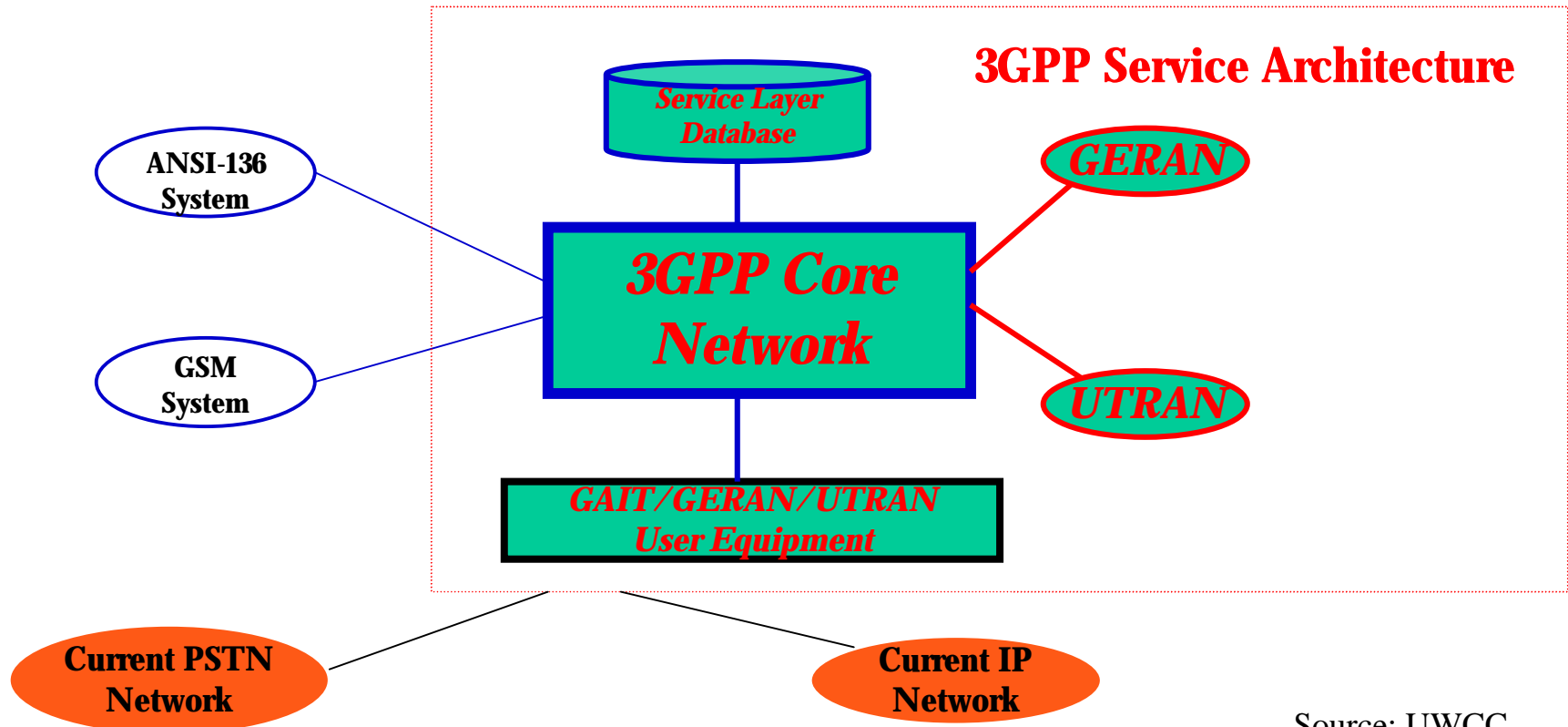


Source: GSMA

GSM/TDMA 2G-3G Technology and Services Roadmap

3GPP -MRPs
GSA, GSM Association,
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Transition to 3G Services

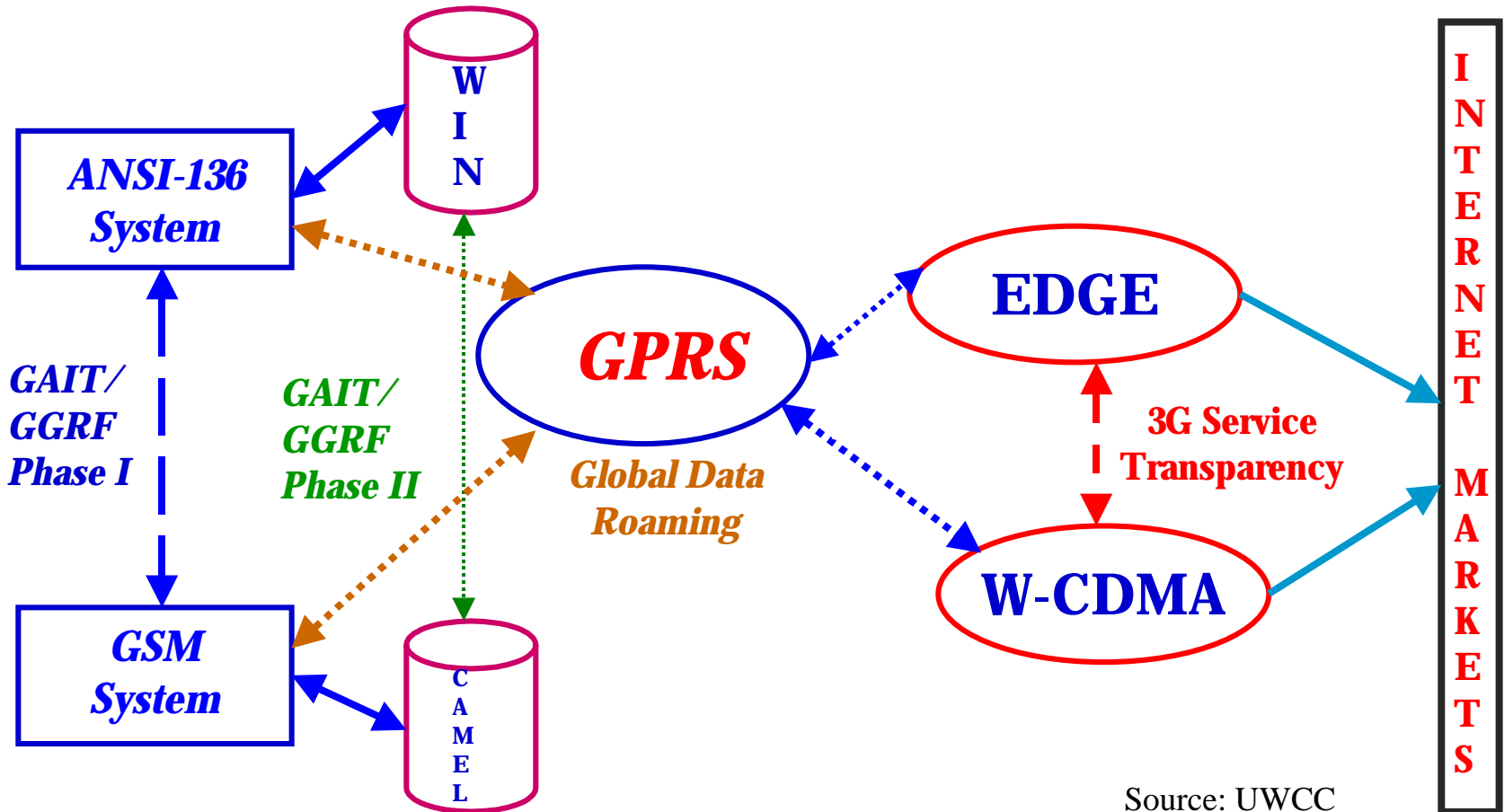


Source: UWCC

GSM / TDMA 2G → 3G Transition Elements

3GPP -MRPs
A GLOBAL INITIATIVE

GSA, GSM Association,
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Source: UWCC

Example: Translating Services into Technology Requirements



Services/Technology enablers	Internet Intranet access	Customised Infotainment	Multimedia Messaging
Single security mechanism	X	X	X
Automatic routing to PoP	X	X	?
Online graphics interface	X	X	X
Capability Negotiation end-to-end	X	X	X

Source: UMTS Forum

Recommendations

- Maintain current Release 4 content and schedules
- MRPs will contribute service prioritization to guide Release 5 (and beyond) programs
 - MRPs request PCG endorsement of the open UMTS Forum Workshop: 1Q 01
 - Regular MRP status updates at OP/PCG

Workshop Objectives

- **Assess the requirements for deploying key 3G services**
 - Identify essential technology enablers
 - Relate technology enablers to work items in key specifications and industry fora
 - Identify gaps
 - Clarify the unique service opportunities of IMS, timing, transition issues
 - Capture the best thinking from the converging industries mobile, internet, content
- **Output**
 - Priorities for standardisation requirements
 - Plan for disseminating results
 - Action plan for way forward