


MPLScon 2006  
May 24 2006  
Challenges and Benefits

**IPsphere FORUM**  
*THE BUSINESS OF IP*

**Monique J. Morrow**  
Vice Chair



[www.ipsphereforum.org](http://www.ipsphereforum.org)

## What is the IPsphere Forum?

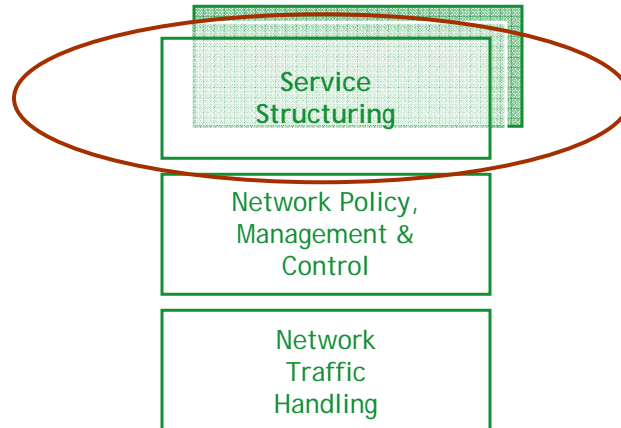
Mission: An enhanced commercial framework - or business layer - for IP services that preserves the fundamental ubiquity of the Internet's technical framework and is also capable of supporting a full range of business relationships so that participants have true flexibility in how they add value to upstream service outcomes



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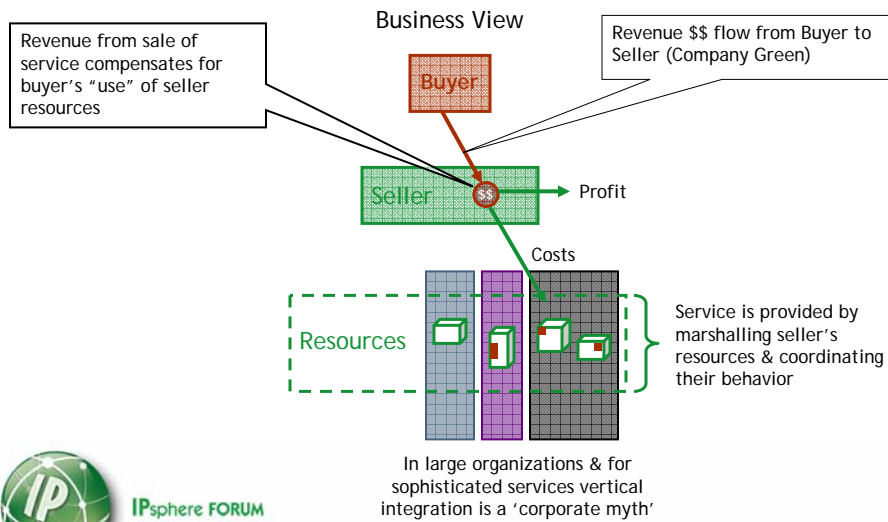
## Focus



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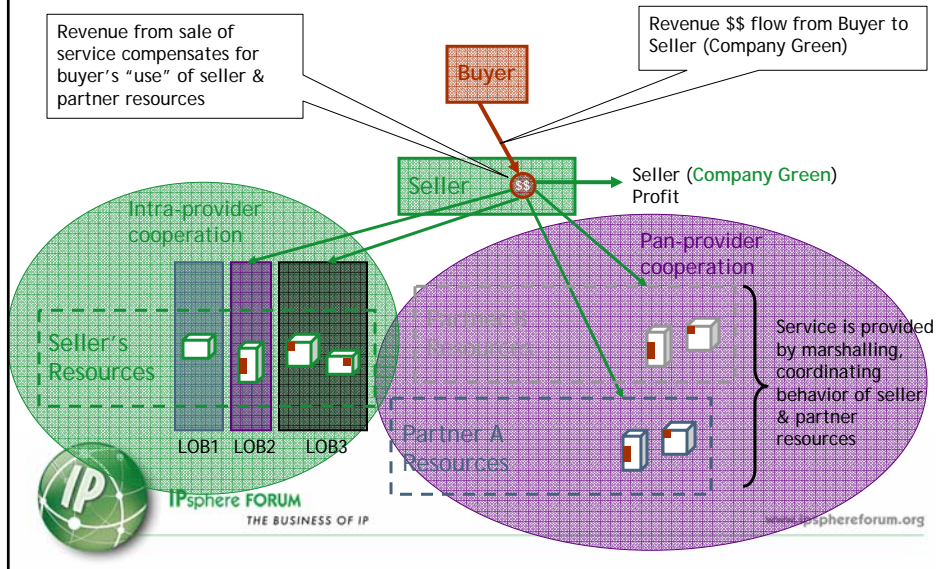
## Vertically Integrated Services



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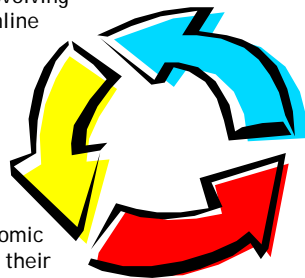
## Cooperative Services



## Cooperative Services Objective

Buyers of services enjoy a greatly expanding & evolving enhanced set of online experiences

Partners have clear economic incentive for contributing their resources



Sellers offer an increasingly richer array of valued services drawing on a variety of resources

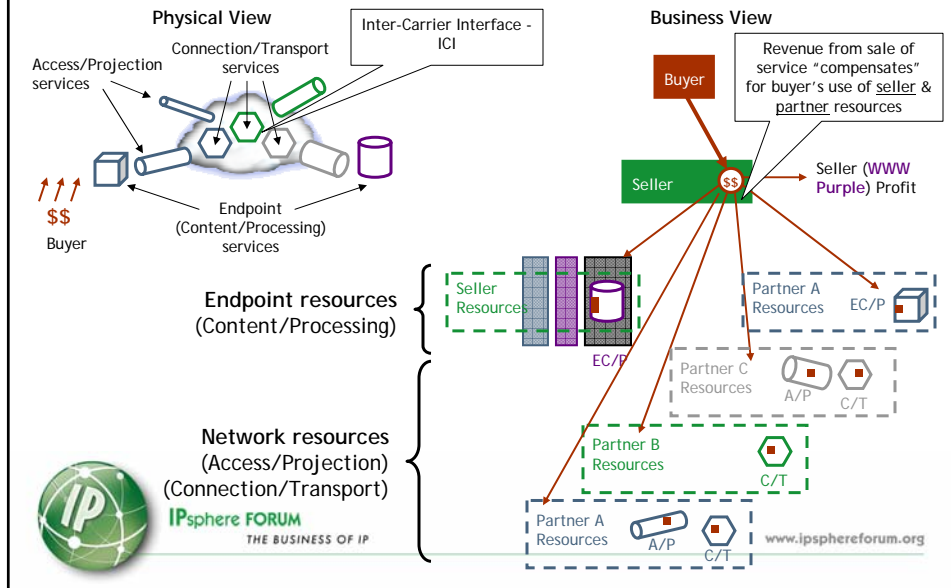
**Thesis:** Any overly egregious imbalance in the risk vs. reward profile for any of the groups who cooperatively structure resources to create a service market threatens that market overall



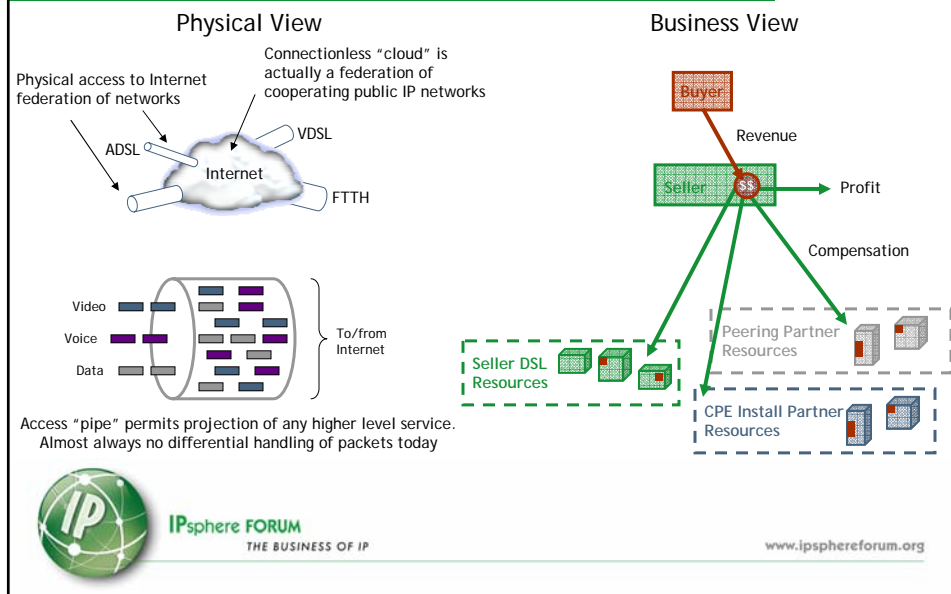
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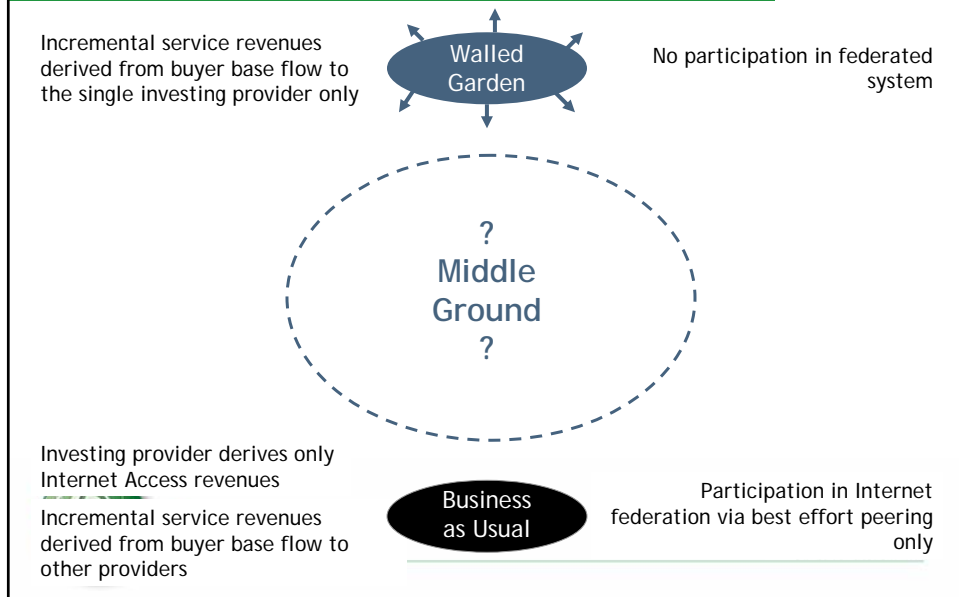
# The IPsphere Framework



# Internet Access Example



## Network Provider Alternatives



## Walled Gardens & beyond

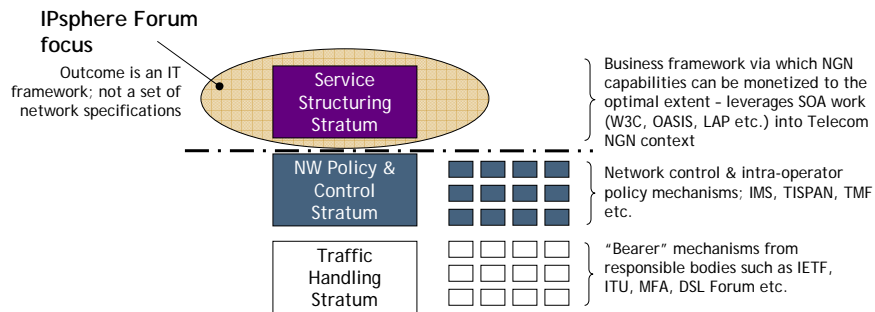
- Walled Gardens must & will be structured
  - Agile solution structuring framework across internal functions is key
- To reward participation outside of Walled Garden
  - Improved pan-provider commercial framework is required which;
  - Encourages & rewards investments in resources used to facilitate services for which a resource owner doesn't have to be the direct seller of service
- Would also let network operators who **MUST** offer lower-level access, transport, connection obtain revenue from higher-level IT services
  - Offsetting costs of providing their mandatory low-level services
  - Ensuring their continued participation in the market without the need for significantly raising lower-level service costs
- An augmented commercial framework cannot be exclusive
  - Must have flexibility to support any business relationship – internal, external
  - Walled Garden, Middle Ground, Business as Usual



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## IPsphere & related NGN programs

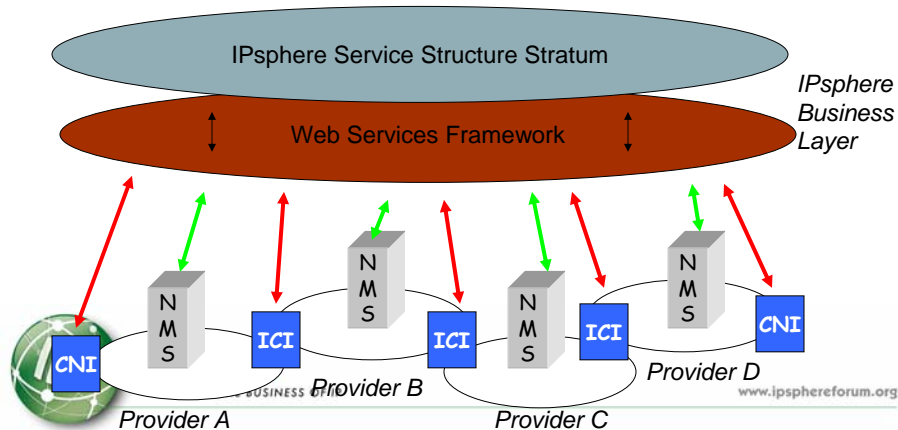


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## IPsphere is a Business Layer above Network

- 1) Each Individual Provider registers "services"
- 2) Providers discover those services of others
- 3) Providers negotiate real-time contracts for composites of those services
- 4) Individual Providers provision their own networks per those contracts



# IPsphere Forum Board

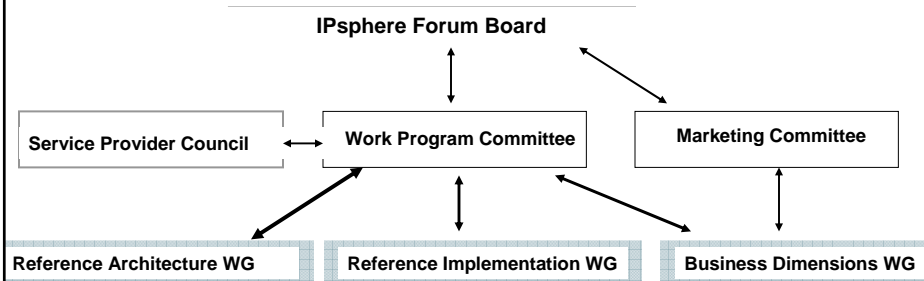
- Omar Elloumi, Alcatel, Secretary and Treasurer
- Keith Dickerson, BT
- Monique Morrow, Cisco, Vice Chair
- Christian Jacquenet, FT
- Yi Zhao, Huawei
- Kevin Dillon, Juniper, Chairman
- Tom Walsh, Lucent
- Donal Morris, Red Zinc
- Cornelis Hoogendorn, Siemens
- Roger Wenner, T-Com
- Sten Nordell, Telenor
- Andy Malis, Tellabs
- Douglas O'Leary, Verizon



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# IPsphere Forum Structure



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## Work Group roles

- **BDWG charter:** primacy of business aspects in the IPsphere Forum through development & tuning of overall "business framework" reconciling the perspectives of both service users and service providers, and the parsing of member contributed (& board sanctioned) use cases through the "business framework"
- **RAWG charter:** the technical framework of the IPsphere Forum through development & tuning of overall reference architecture & associated specifications. Technical framework is tuned via ongoing validation against IPsphere BDWG "use cases", IPsphere RIWG "execution framework"
- **RIWG Charter:** Prove and tune technical framework via actual implementation, also showcase to promote & evangelize IPsphere functionality
- Leverage & liaisons with related SDO's handled via BDWG for commercially oriented topics, & via RAWG for technically oriented topics



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## IPSF and Service Provider Council

- To provide requirements, architectural direction and best common practices for IPSF
- To review any new work items in the light of e.g. operational aspects
- To stimulate the generation of use cases that are important for SPs
- To discuss technologies for achieving commercial agreements or providing business opportunities between SPs



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## SPC Members

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- AT&T
- BT
- DT
- FT
- KT
- Telenor
- TeliaSonera
- Telstra
- Verizon



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## Conclusions

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- NGN business model will not follow the classical Internet framework
- Substantial need for a commercial framework for IP NGNs that enables both providers & users to meet their economic and technical needs optimally
  - And for the broadest possible set of network, content & application services as facilitated by NGN technologies; both inter- & pan-provider
- IPsphere Forum work on 'Business of IP' complements & leverages telecom industry NGN standardization activities already underway
- IPsphere Forum framework applies Service-Oriented Architecture (SOA) approach to service publication, consumption & federation



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