

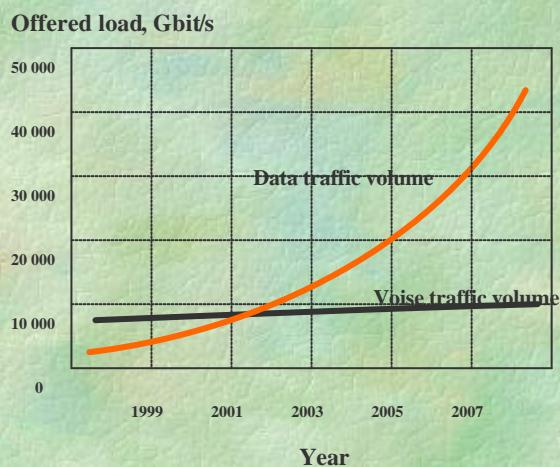
# GPRS roaming network evolution to NGN

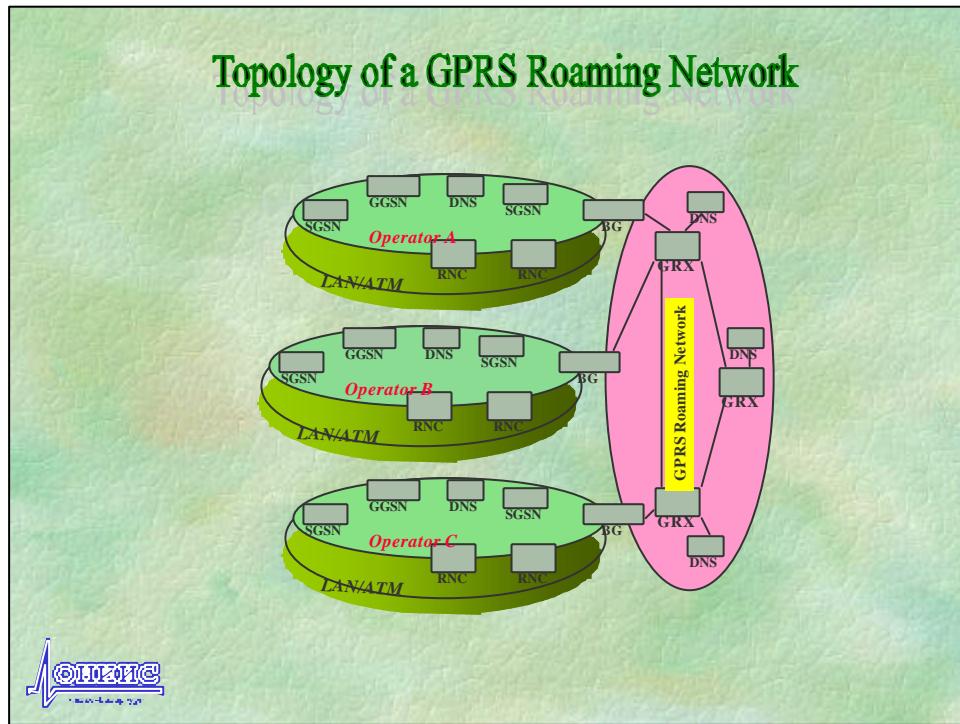
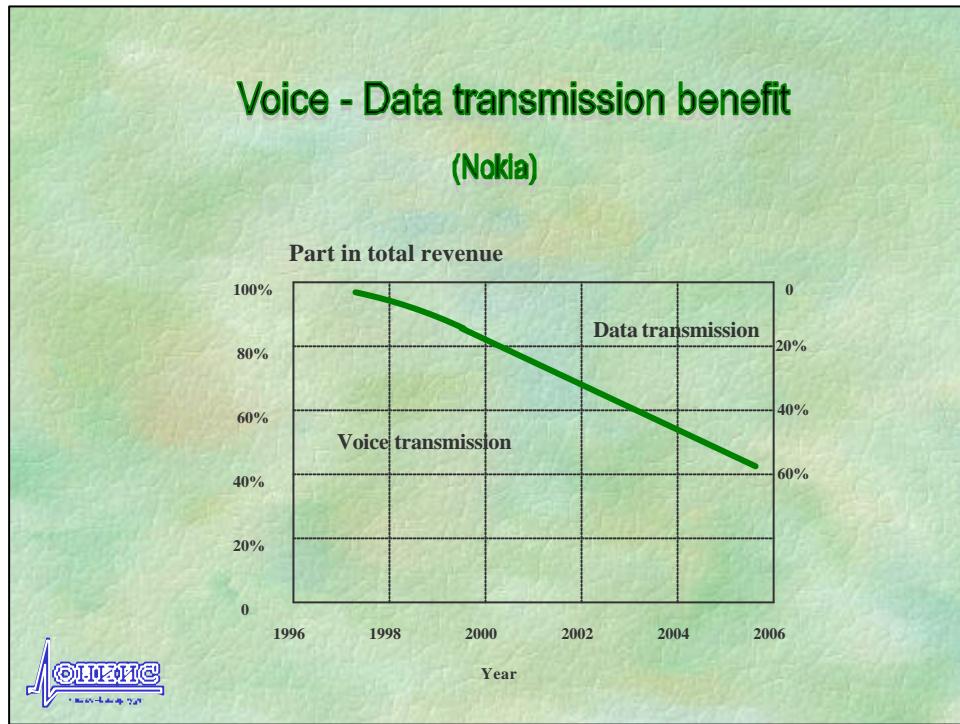
S .Brusilovsky, V. Derzhavina

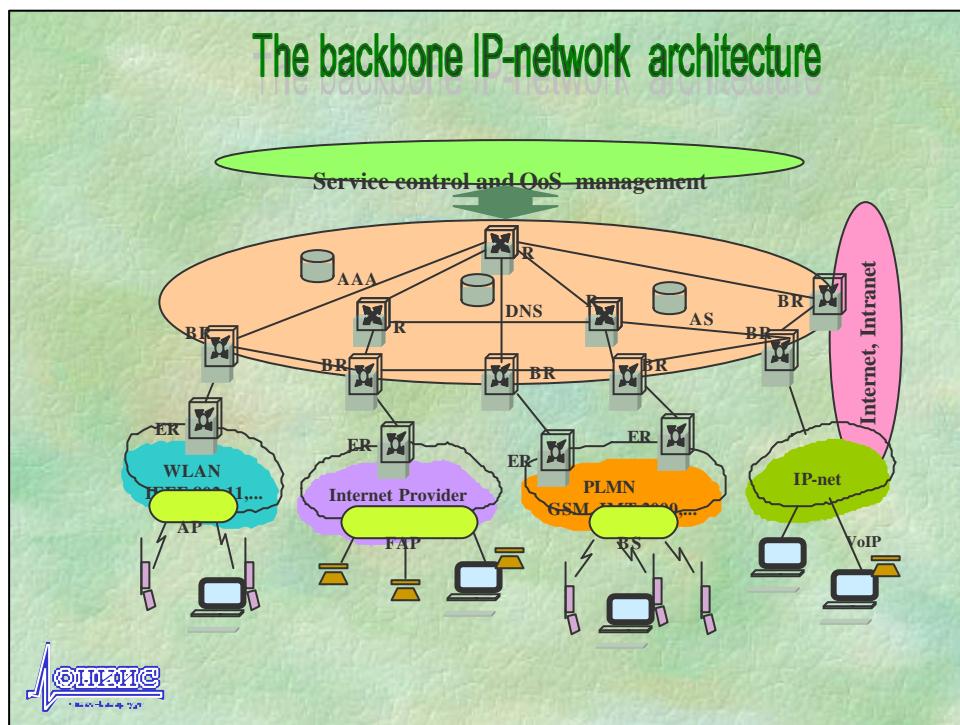
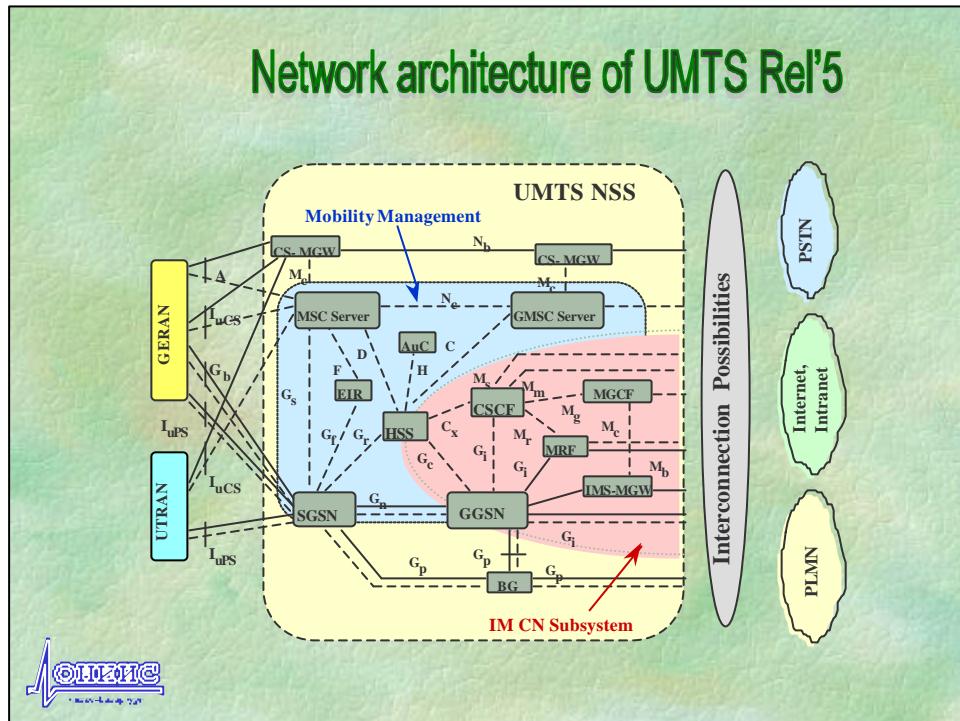
LONIIS,  
St.-Petersburg, Russia,  
brus@loniis.org



## Telecommunication traffic: voice, data (ETSI/TIPHON)







# Conclusion

1. The GPRS transit networks **are required** to provide roaming services in 2G+ mobile systems, for example, GSM ph2+
2. Supporting 3G services and applications demands **to deploy** the inter-PLMN backbone IP-networks in IMT-2000
3. **It is expedient** to create 3G inter-PLMN backbone as NGN using evolutionary development of GPRS transit IP-networks
4. The creation of 3G inter-PLMN backbone includes solving some problems, for example:
  - IP Addressing - schedule and terms of IPv6 deployment
  - Security and Screening - implementation of firewalls, support of encryption and tunnelling methods
  - Quality of Service - QoS classes and IP parameters

