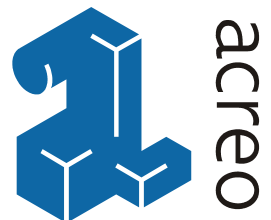


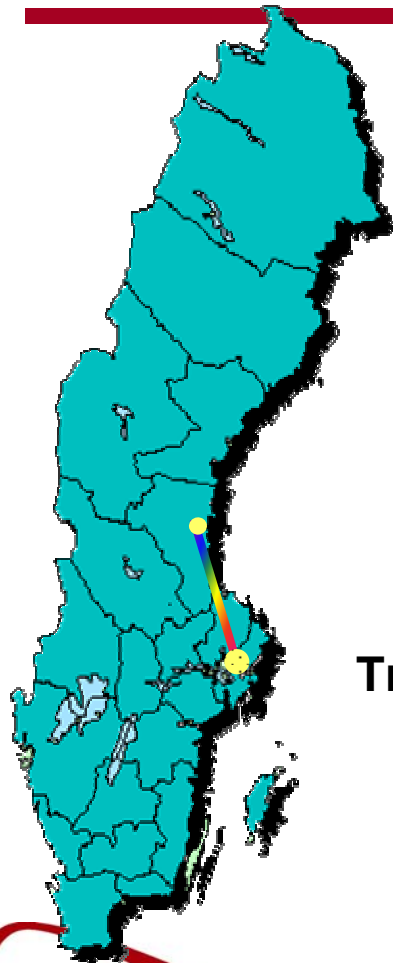
Acreo National Broadband Test bed Experiences

Tove Madsen

tove.madsen@acreo.se

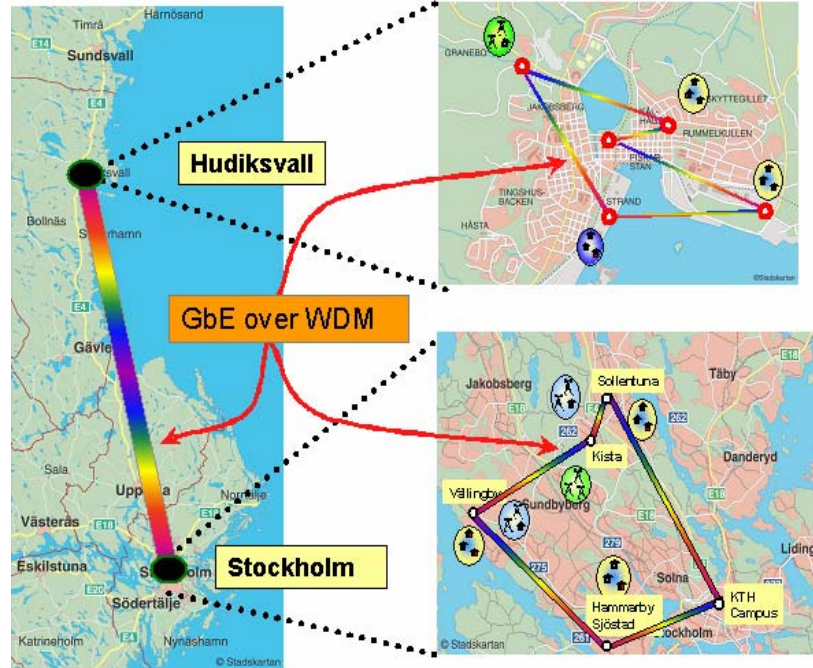


Acreo Test bed



MPLS
2004

Trunk



Metro &
Access

GMPLS

IP base
services: *Triple
play - VoIP,
Internet and IPTV*

Three parts:

- Hudiksvall
- Kista-Hudiksvall link
- Stockholm

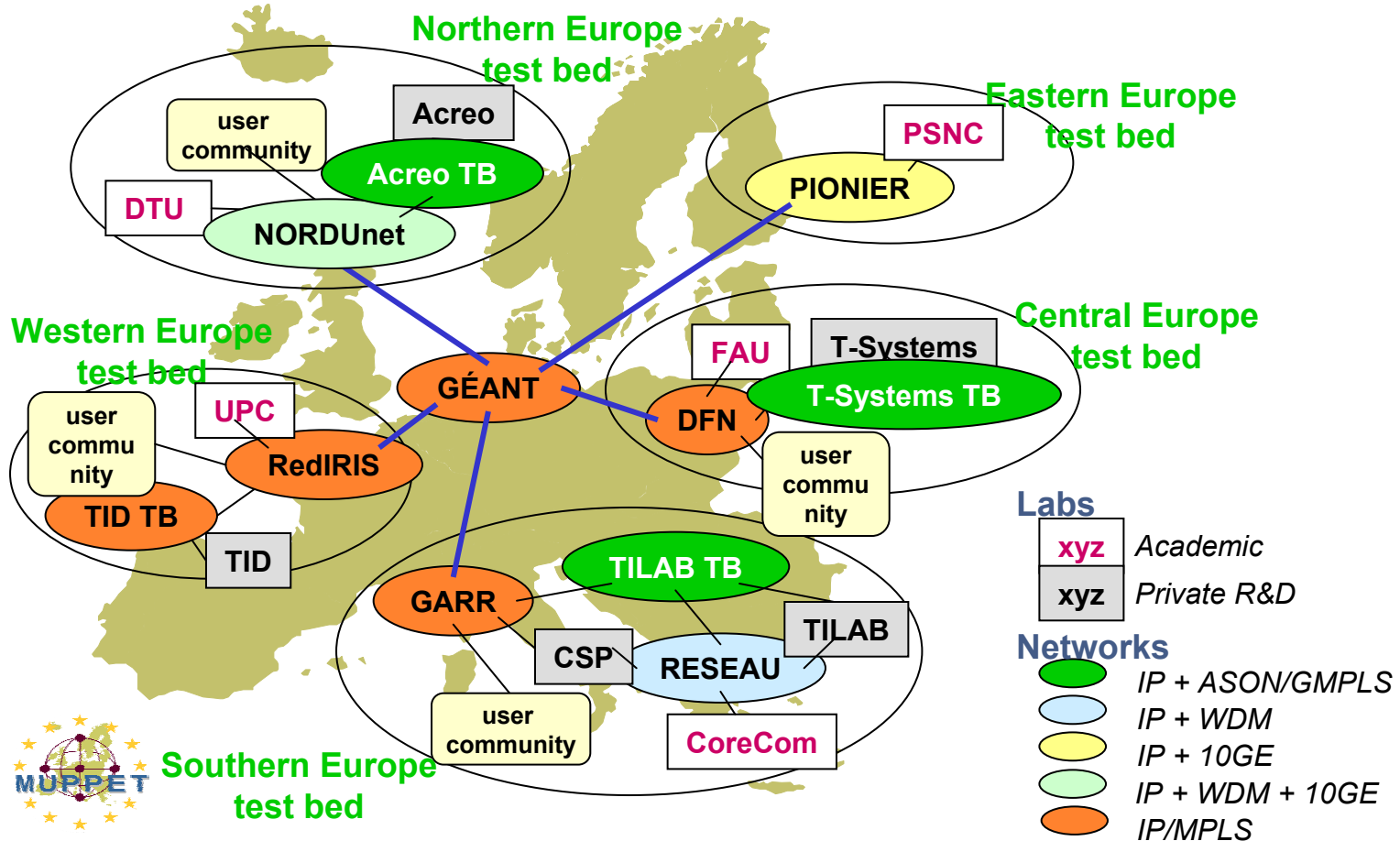
Acreo Test bed vision

- Evaluate network products for Multi-Service Metro Networks
 - Advanced end user service
 - Open Network technologies
 - Access
 - Core

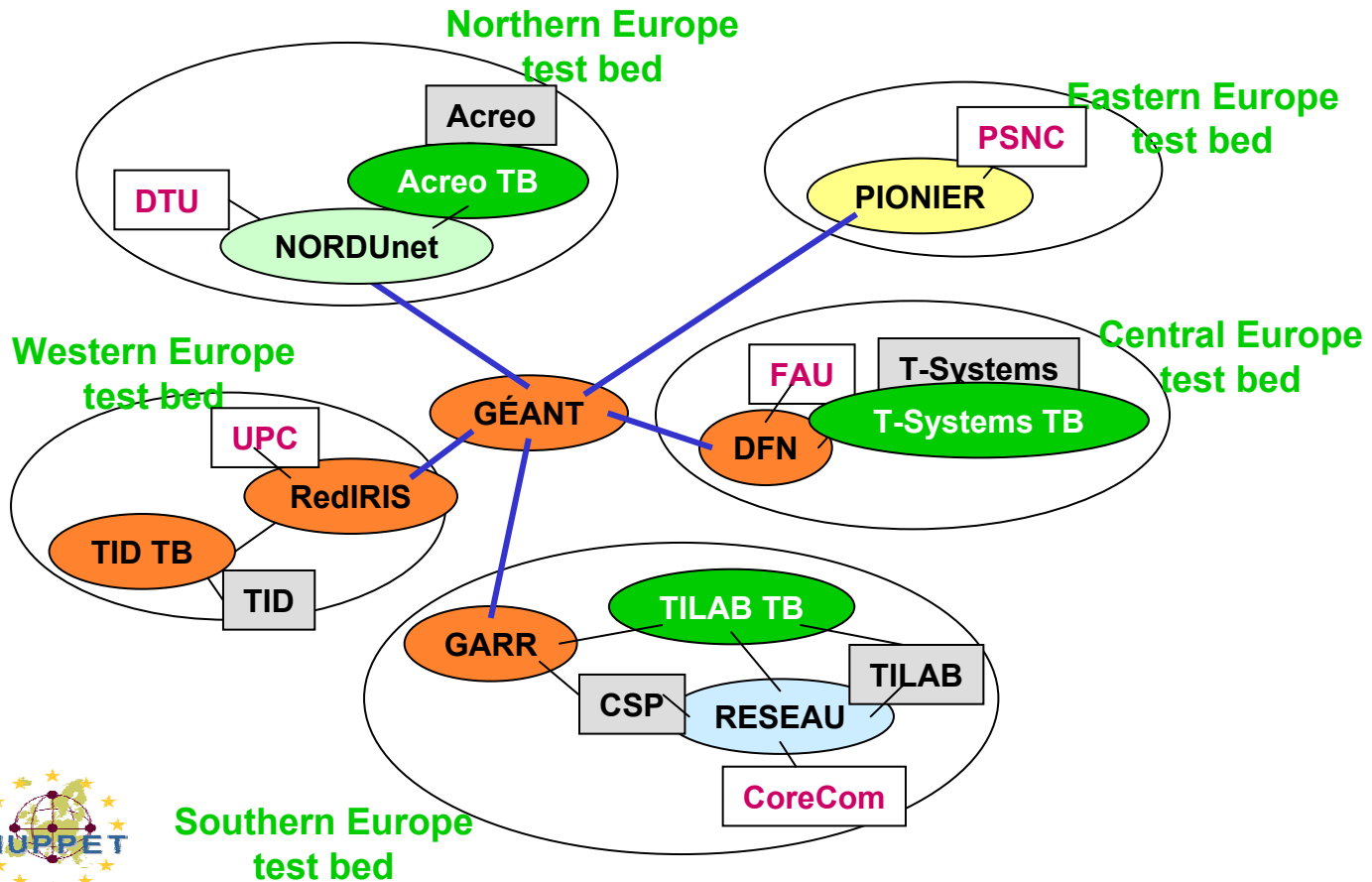
GMPLS Interoperability Demo

- GMPLS Interoperability in Test bed
 - Lumentis and Juniper Networks at ECOC in Stockholm, September -04
 - set up and tear down of LSP
 - fast reroute

MUPPET Network Layout



MUPPET Network Layout



Southern Europe test bed

Experiences from Test bed activities

- ASON / GMPLS
 - Optical control plane
 - IP optical integration
 - UNI
- Feasible network size
- Even small networks are demanding in configuration
- It works!

Acreo Expectations

- L2 GMPLS implementations
- Fast reroute on the optical level
- Management and Configuration tools