

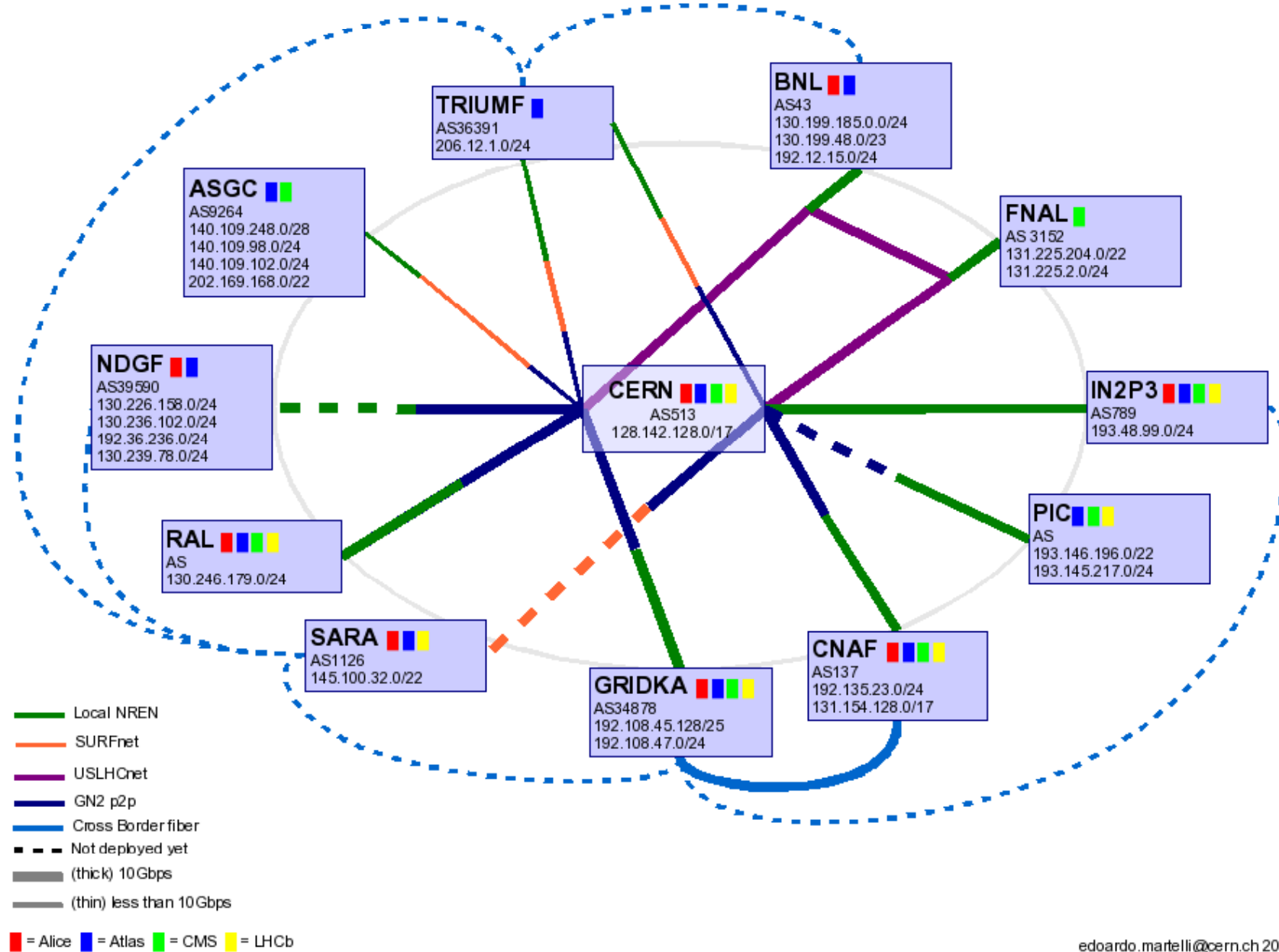


LHCOPN lambda and fibre routing – Episode 2

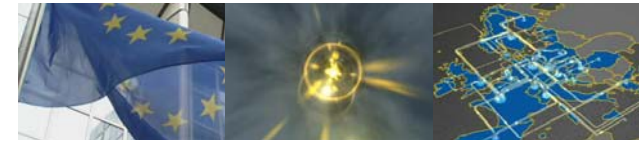
Michael Enrico
Network Engineering & Planning Manager
DANTE

LHC Meeting, Munich, 20.04.2007

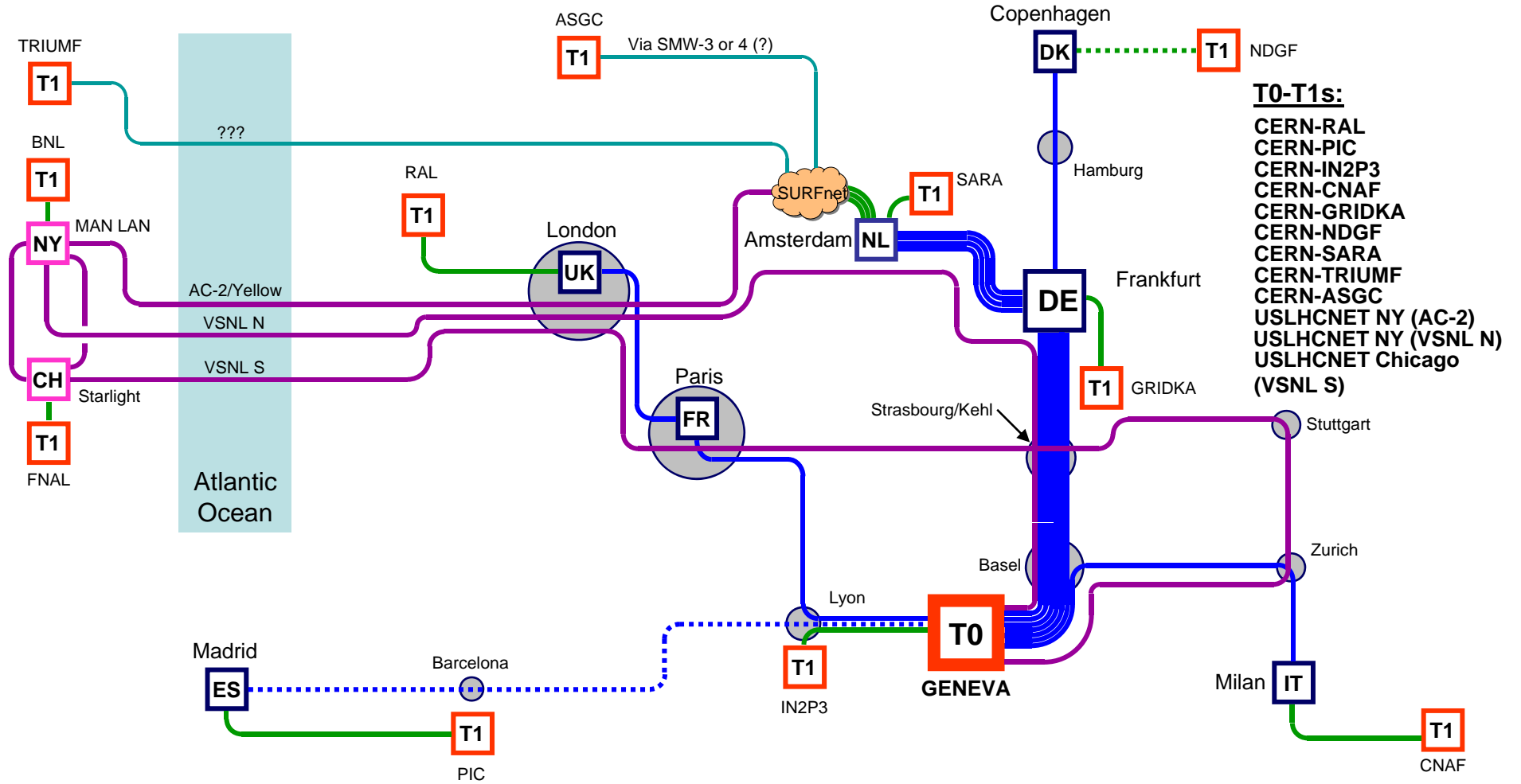
LHCOPN – current status



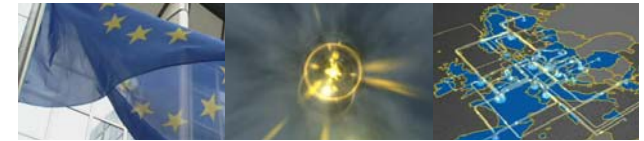
T0-T1 Lambda routing (schematic)



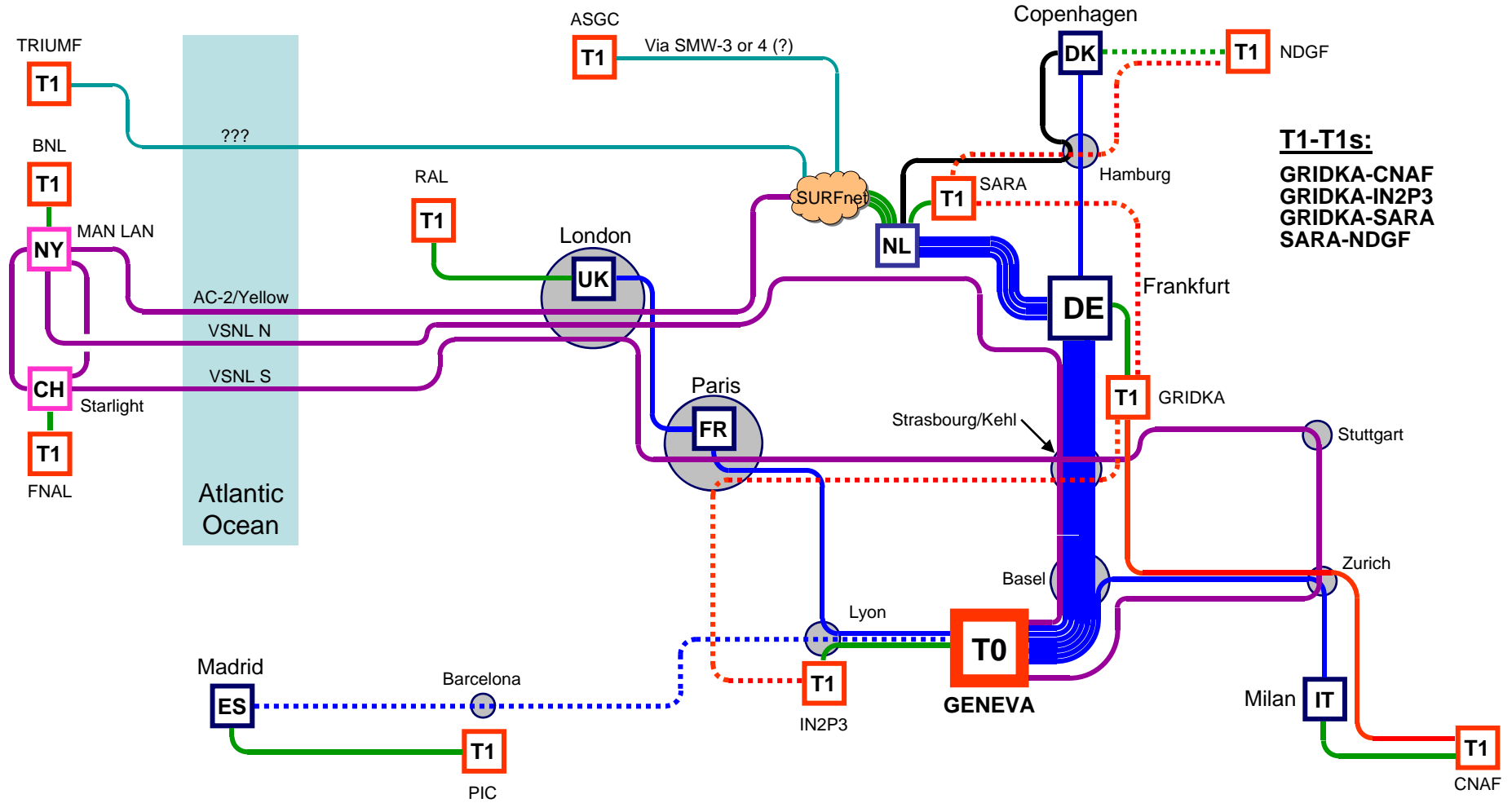
Connect. Communicate. Collaborate



T1-T1 Lambda routing (schematic)



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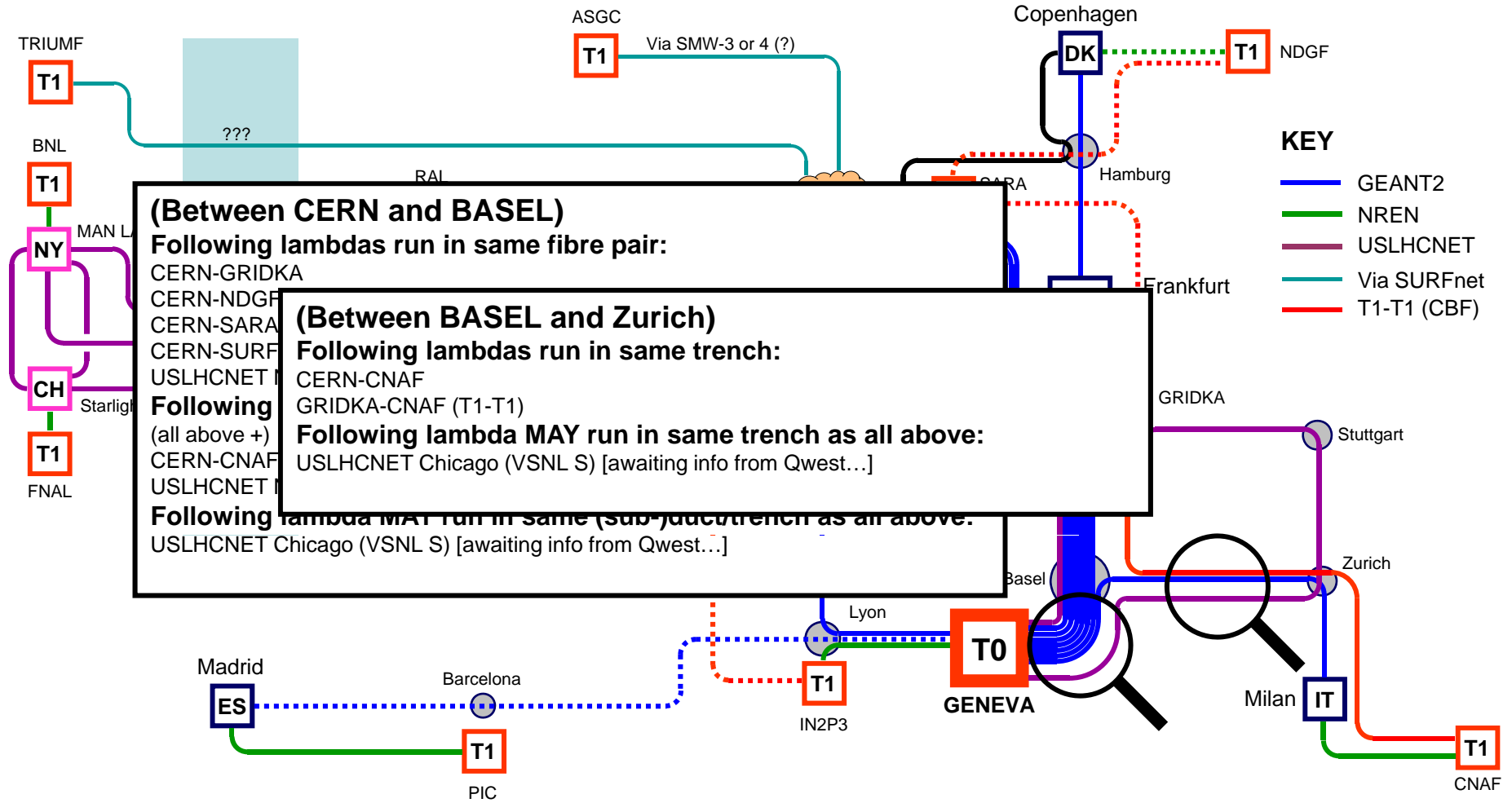


T1-T1s:
 GRIDKA-CNAF
 GRIDKA-IN2P3
 GRIDKA-SARA
 SARA-NDGF

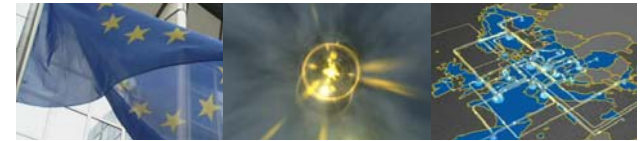
SRLG analysis



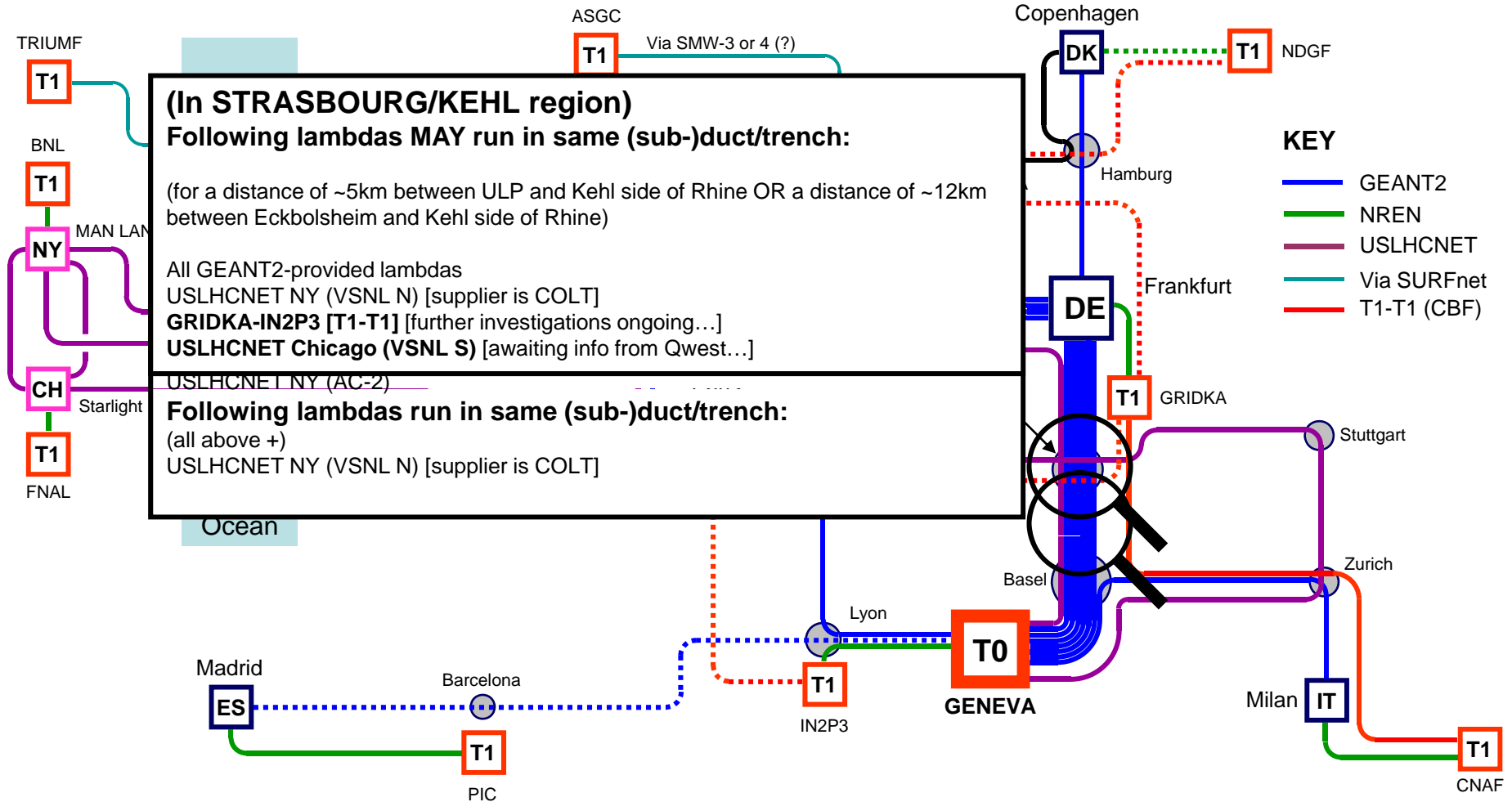
Connect. Communicate. Collaborate



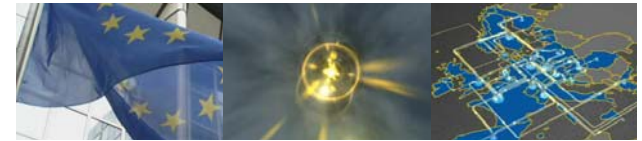
SRLG analysis (cont)



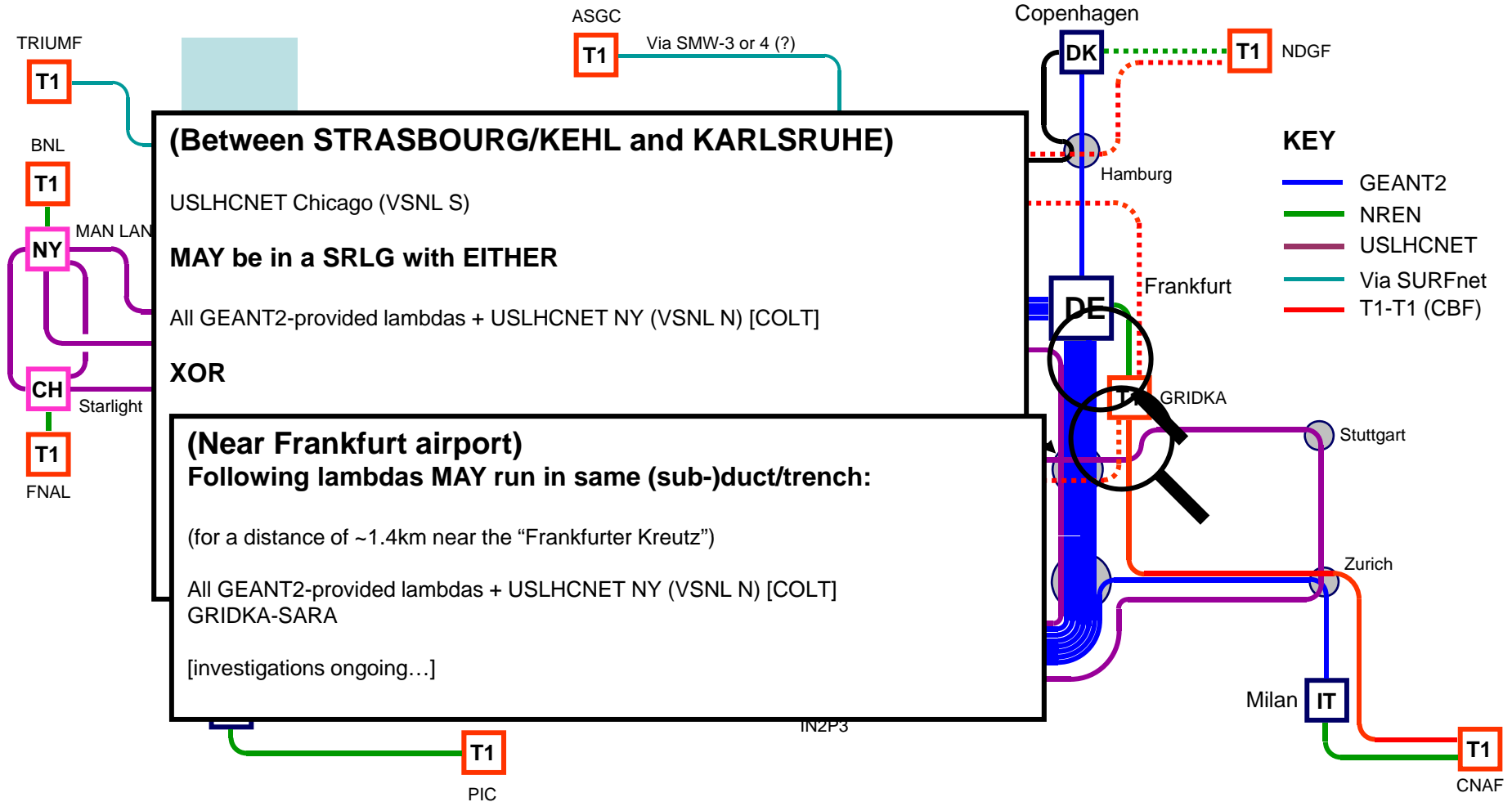
Connect. Communicate. Collaborate



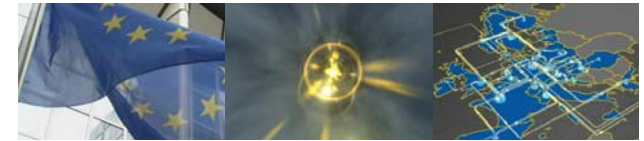
SRLGs analysis (cont)



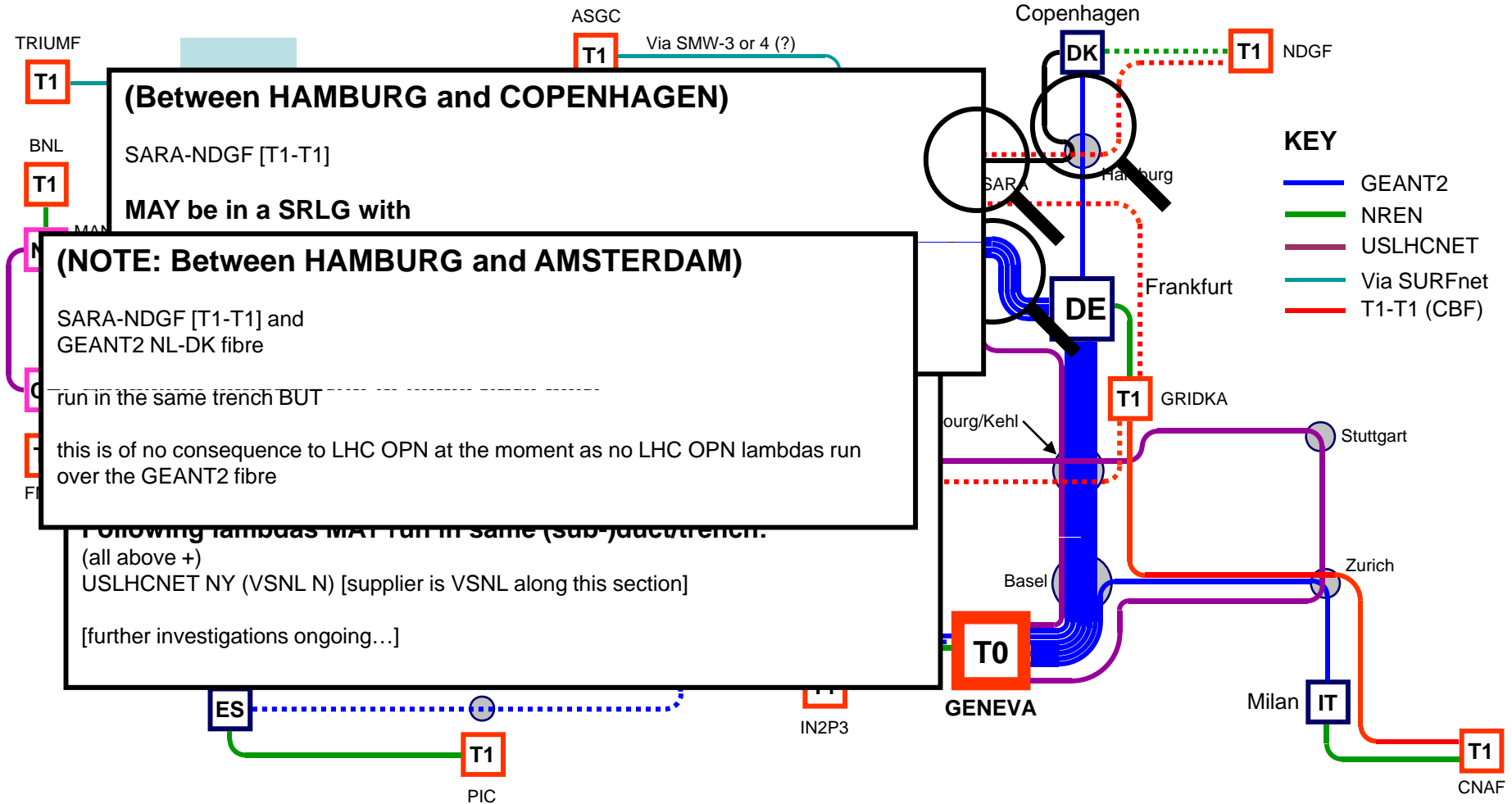
Connect. Communicate. Collaborate



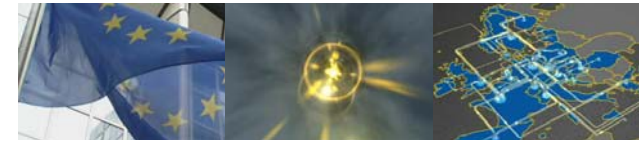
SRLGs analysis (cont)



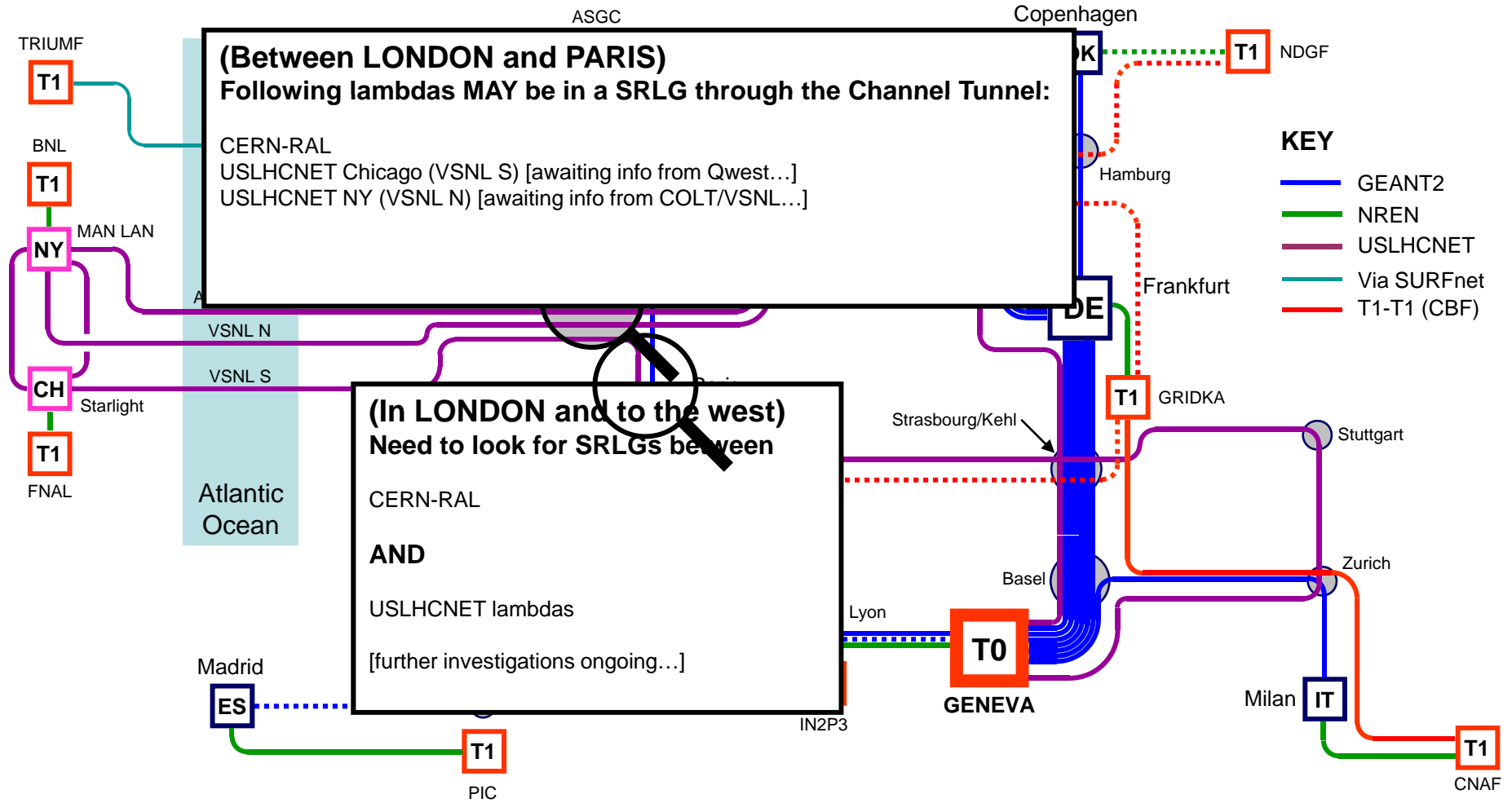
Connect. Communicate. Collaborate



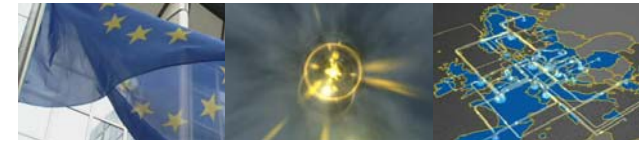
SRLGs analysis (cont)



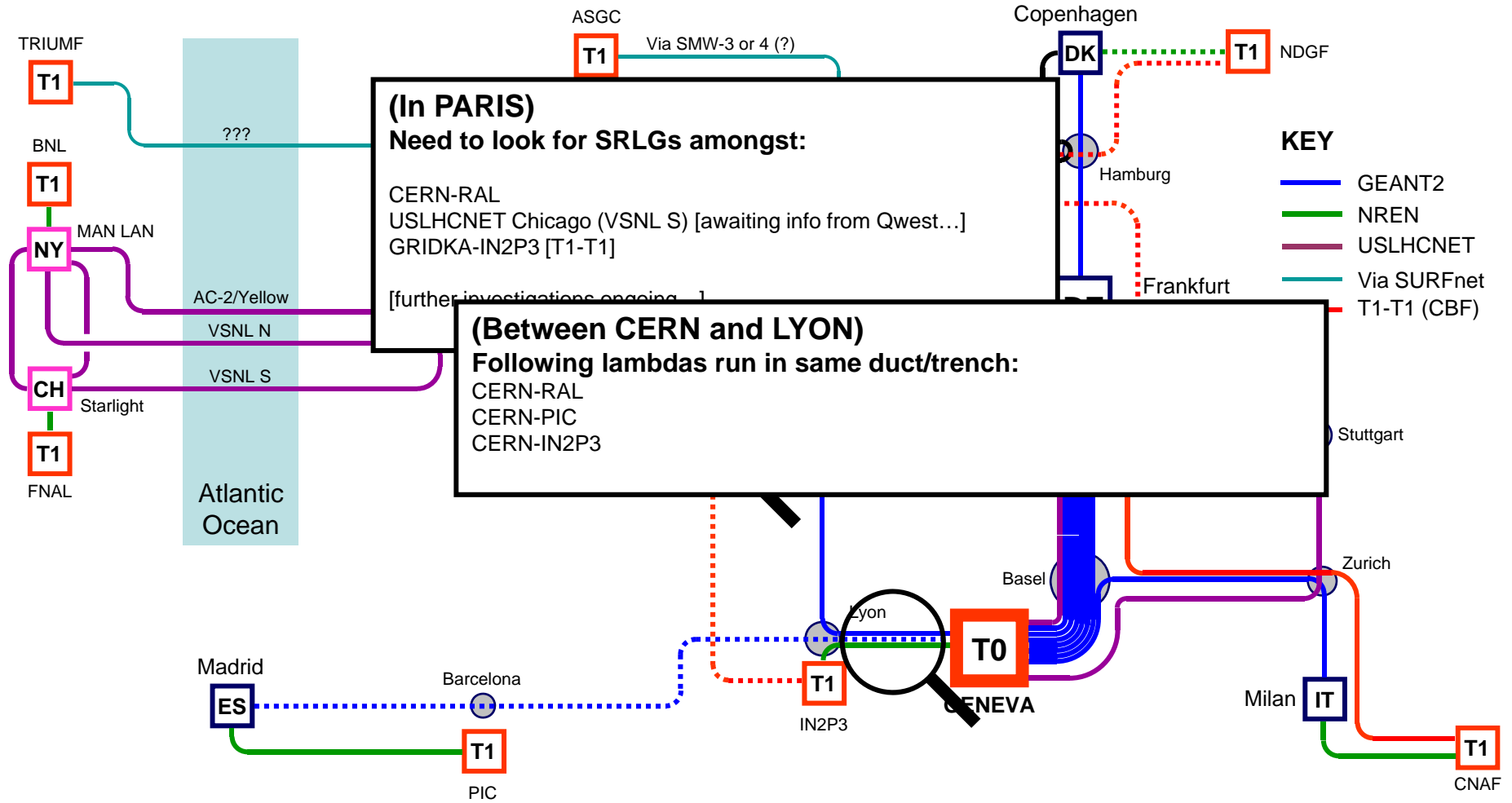
Connect. Communicate. Collaborate



SRLGs analysis (cont, last two!)



Connect. Communicate. Collaborate





Connect. Communicate. Collaborate

Conclusions

- Obviously Basel-Geneva is very busy
 - Some lambdas can be brought in to CERN via Lyon (but at additional cost)
- Further investigations required in particular concerning:
 - Physical routing of Qwest USLHCNET lambda
 - Physical routing of GRIDKA-IN2P3 in Strasbourg/Kehl
 - Street level routing of GRIDKA-SARA (& GEANT2 fibre) near FFM airport
 - Physical routing of SARA-NDGF (Hamburg-Copenhagen)
 - Physical routing of COLT/VSNL USLHCNET lambda (VSNL N CLS-FFM)
 - Physical routing of GRIDKA-IN2P3 in Paris area
- Firmer conclusions will be drawn after these have been resolved