

## Networks-on-Demand:

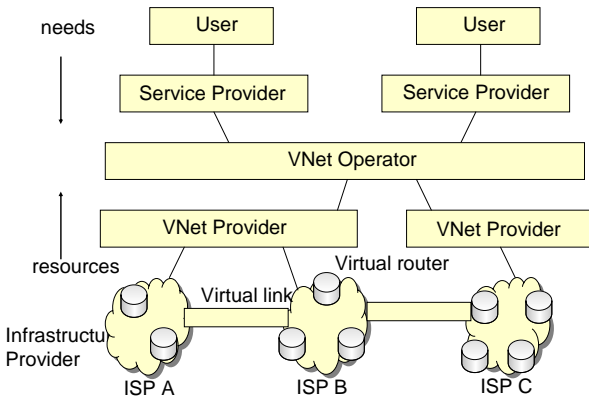
### Resource Allocation Issues in Virtualized Networks



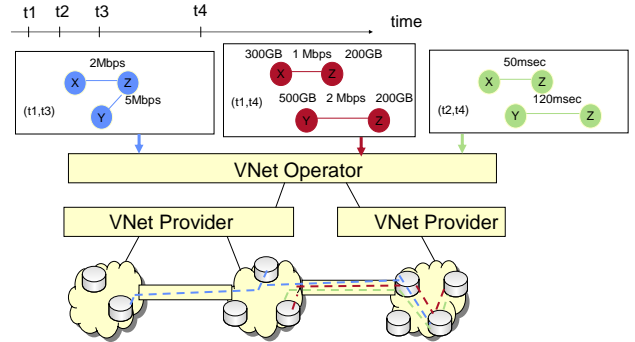
Georgios Smaragdakis, Gregor Schaffrath, Anja Feldmann



### Network Model



### The Mapping Problem



### Applications

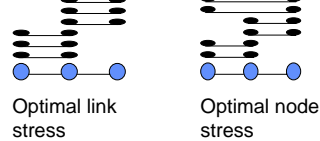
VPNs, Backups, Bulk File Transfers, Flash Crowds, Broadcasting of Events, Overlay Service Deployment, Software Updates,..



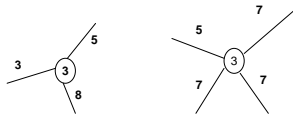
Specification of Roles

### Heuristics

Simple Heuristics will not work

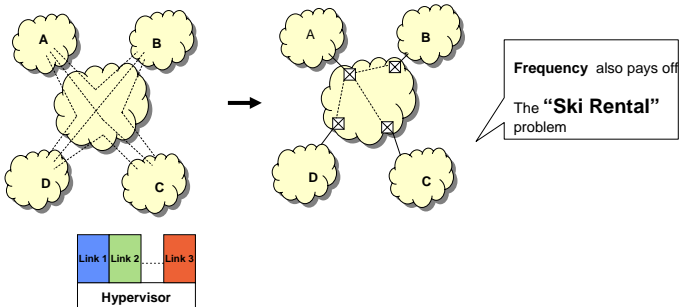


Find a good neighborhood



Stress = maximum load/average load

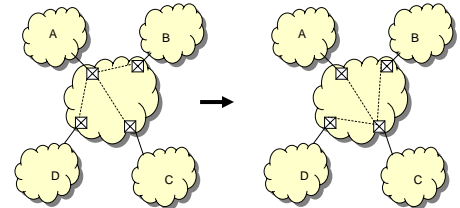
Hoses Model: Aggregation Pays off



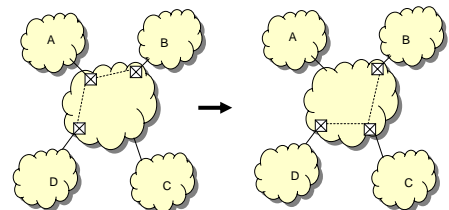
### Migration

Toolbox and Test-beds for:

Link Migration



Router Migration



Storage Migration

