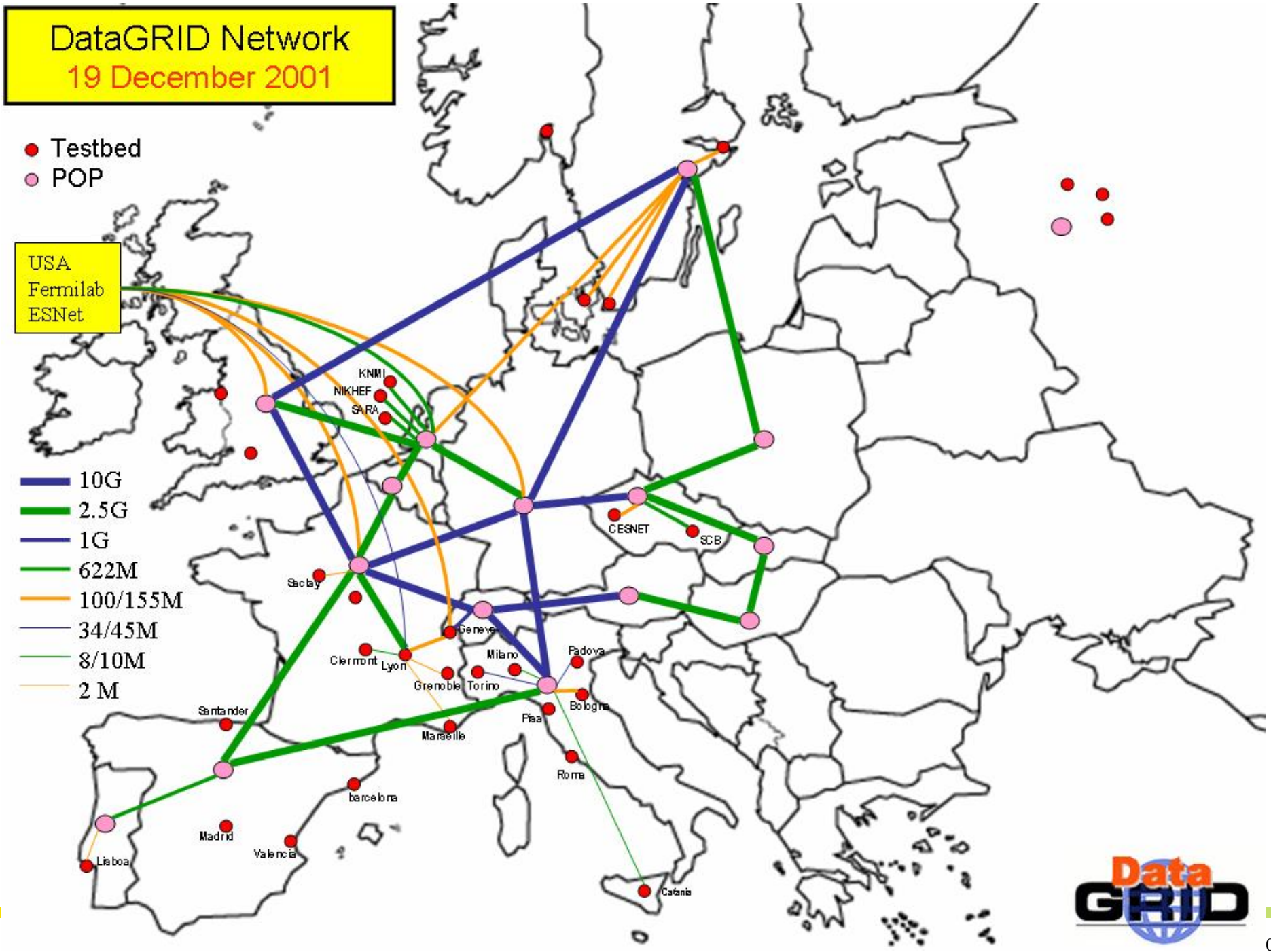
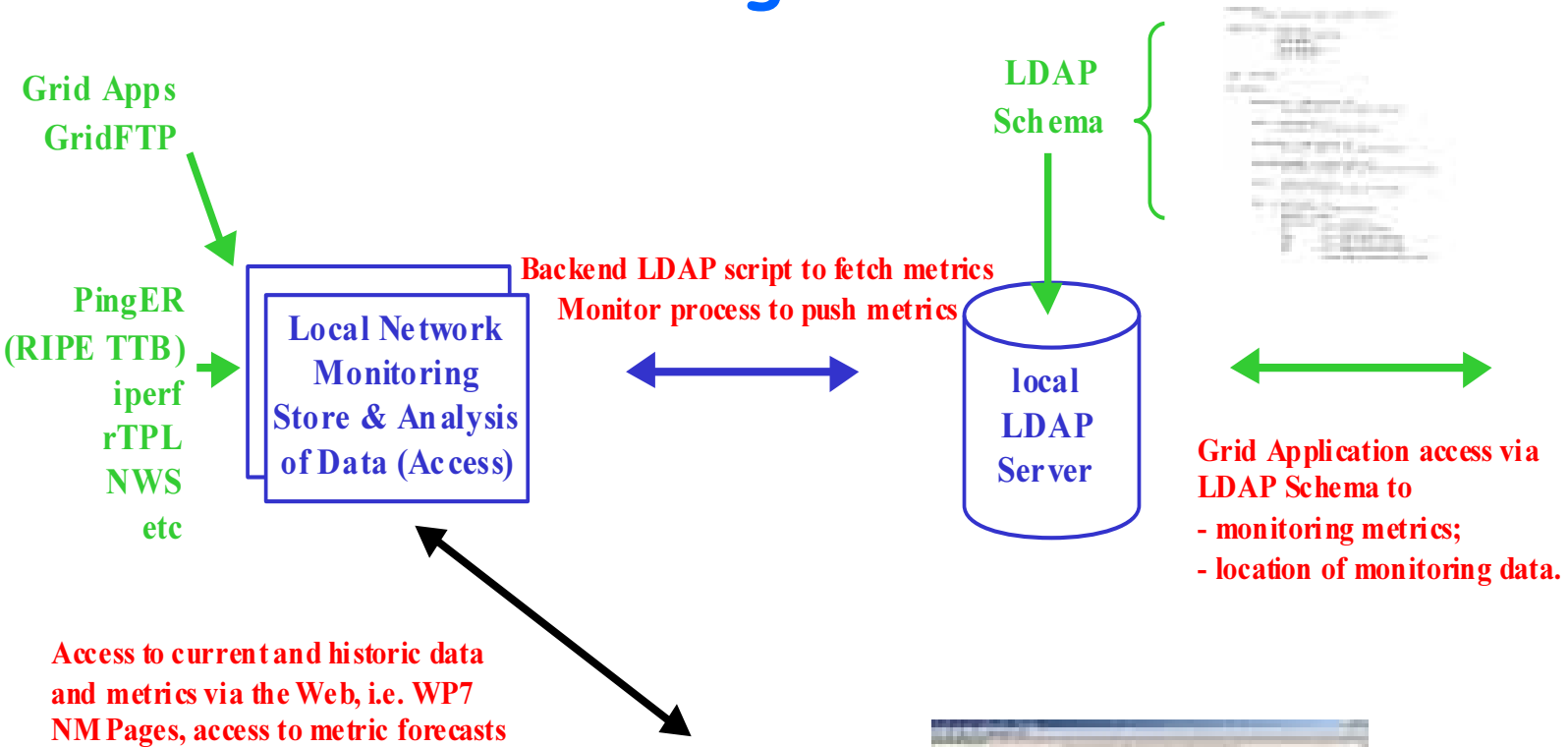
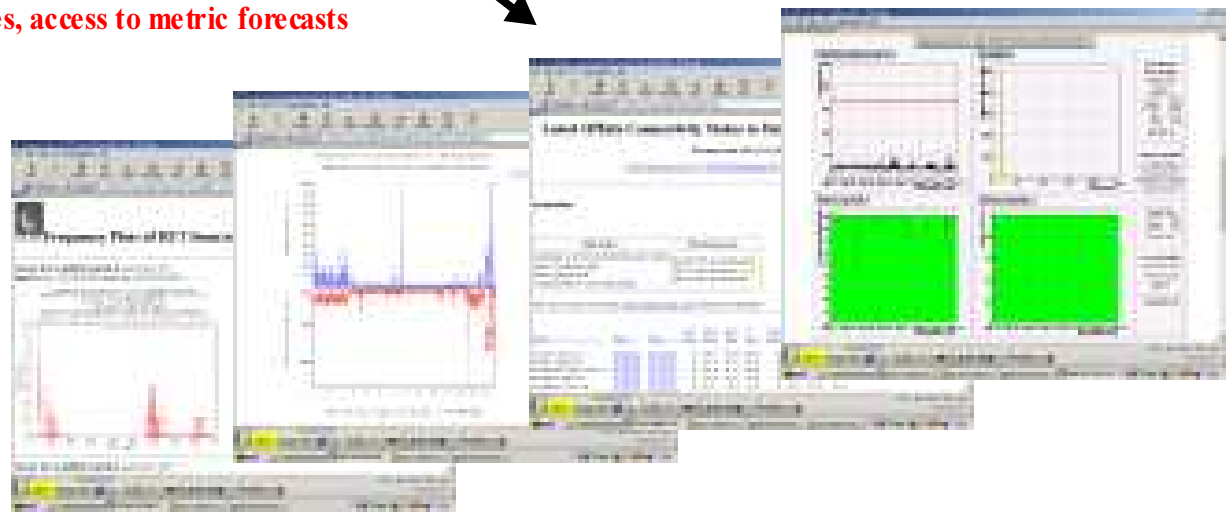

DataGRID Network
19 December 2001
Testbed
POP
USA
Fermilab
ESNet
10G
2.5G
1G
622M
100/155M
34/45M
8/10M
2 M
KNMI
NIKHEF
SARA
CESNET
SCB
Saclay
Geneve
Clermont
Lyon
Grenoble
Torino
Milano
Padova
Bologna
Pisa
Roma
Marseille
Santander
barcelona
Madrid
Valencia
Lisboa
Catania
urec
DataGRID

Network Metrics

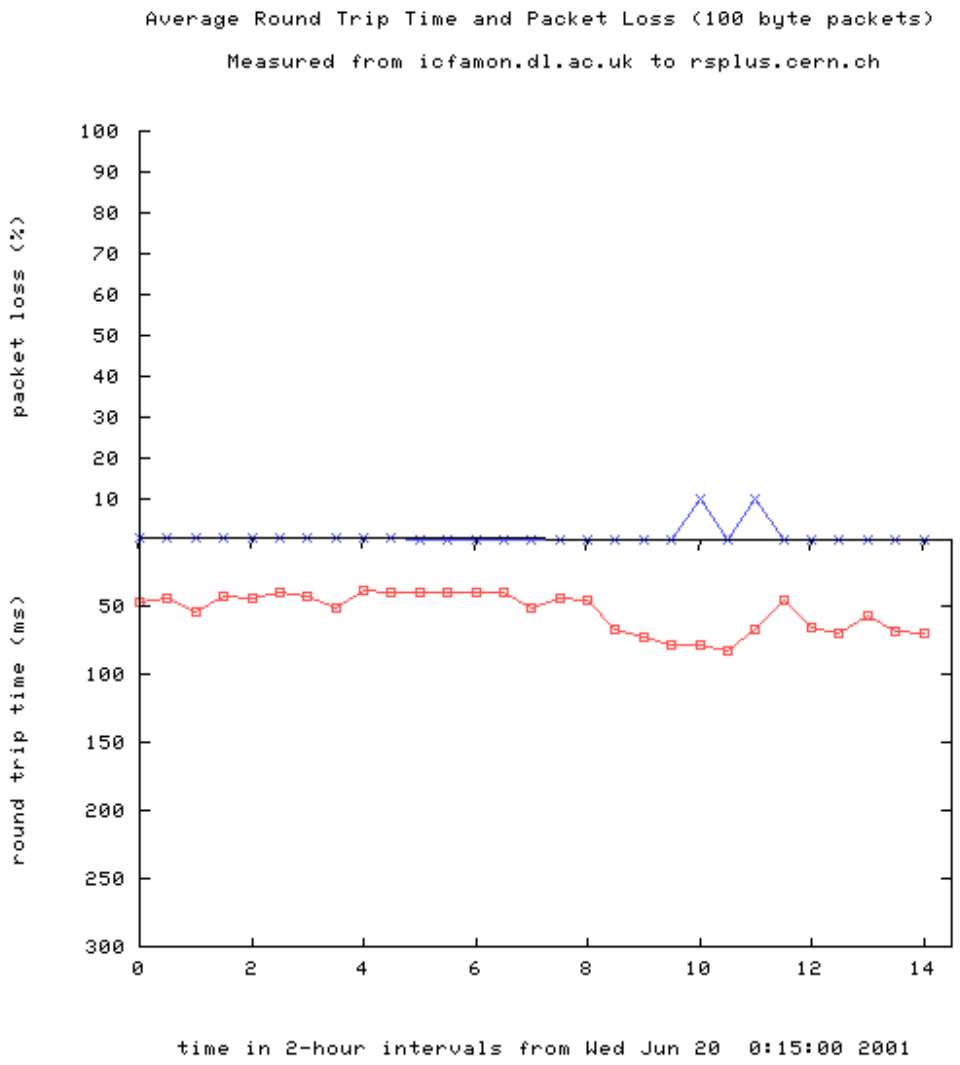
- One way delay & RTT
- TCP and UDP throughput
- Packet loss
- Jitter

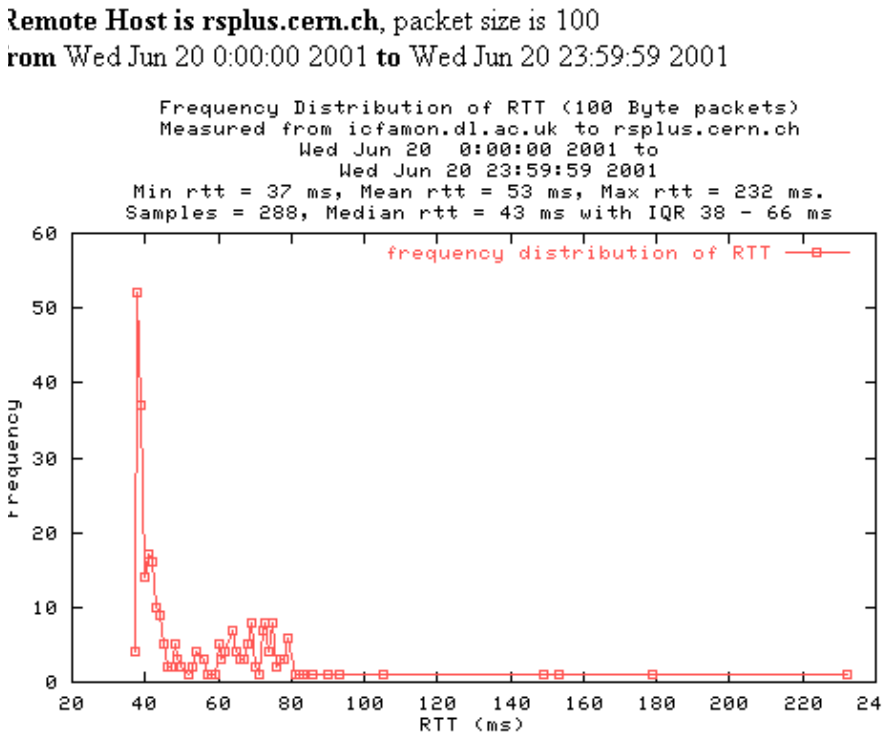
Network Monitoring Architecture



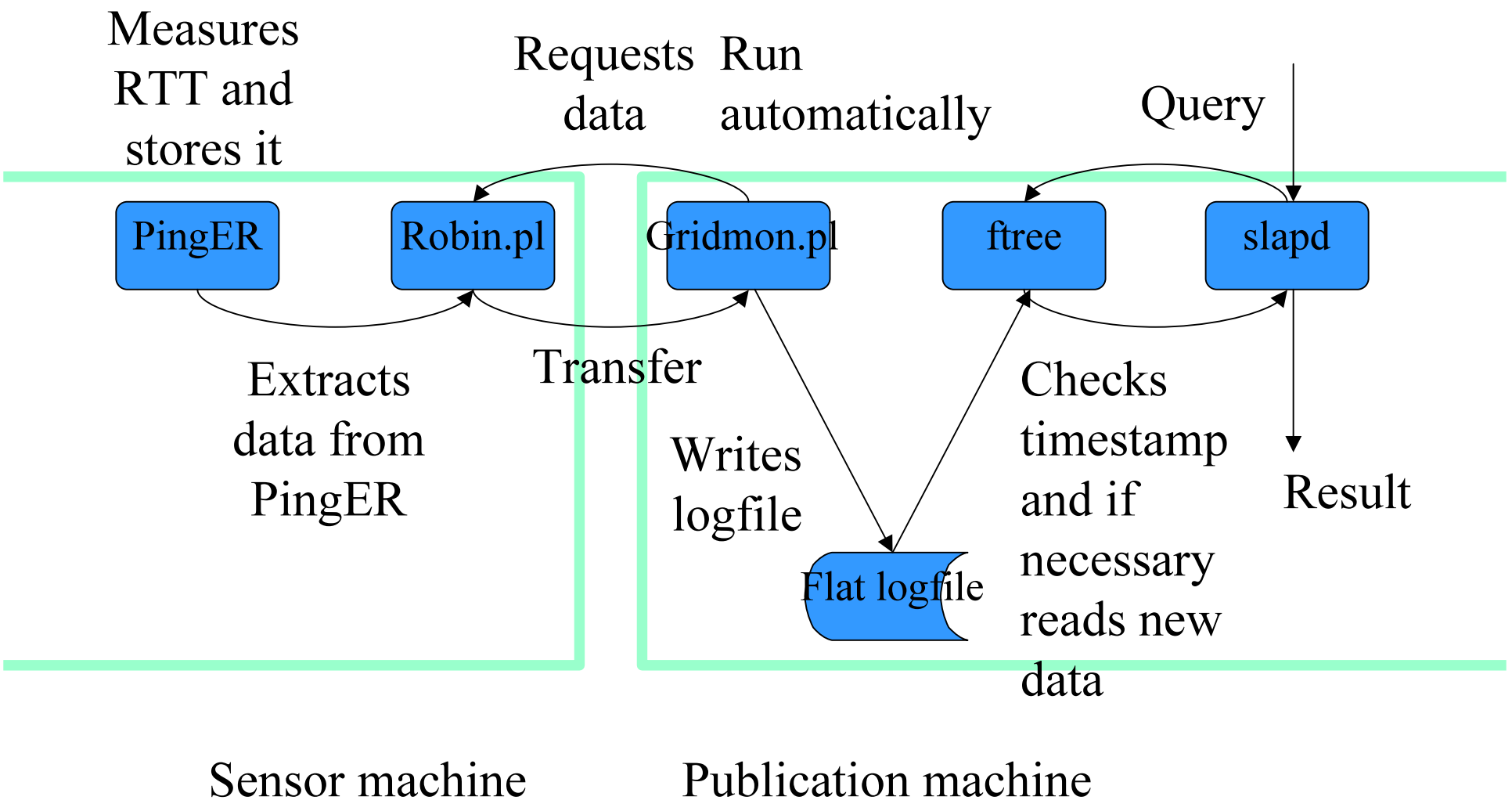


PingER between UK and CERN





Network Metrics data flow



NetworkCost – for WP1 & WP2

- networkCosts[] getNetworkCosts (SEid1, SEid2, filesize)
  - Class NetworkCost -> time, error

1. Query SEid from top Ftree
2. Extract end of DN (dc=to,dc=infn,dc=it,o=grid)
3. Query for NetworkMeasurement object from this DN
4. Extract metrics