Réseaux LCG-France
Bilan et prospectives

jerome.bernier@in2p3.fr

Décembre 2014

LCG-France réseau

- LCG-France

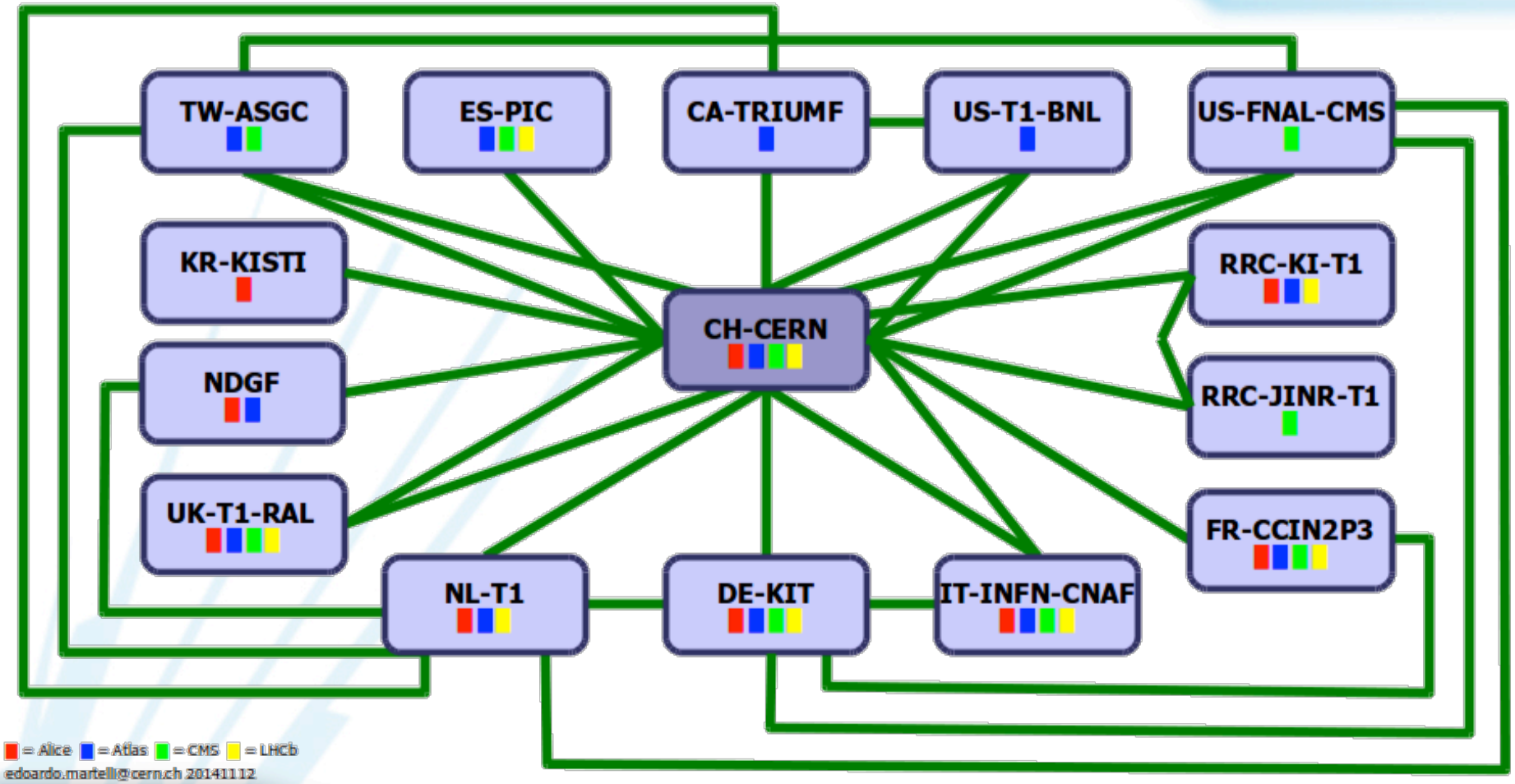
LCG-France

Tier-2: GRIF
•CEA/IRFU
•LAL
•LLR
•LPNHE
•IPNO
Tier-2: Subatech
Tier-2: LPC
Tier-1: CC-IN2P3
Tier-2: IPHC
Tier-3: IPNL
Tier-2: LAPP
Tier-2: LPSC
AF: CC-IN2P3
Tier-2: CPPM
Strasbourg
Ile de France
Nantes
Clermont-Ferrand
Annecy
Lyon
Grenoble
Marseille
LCG France

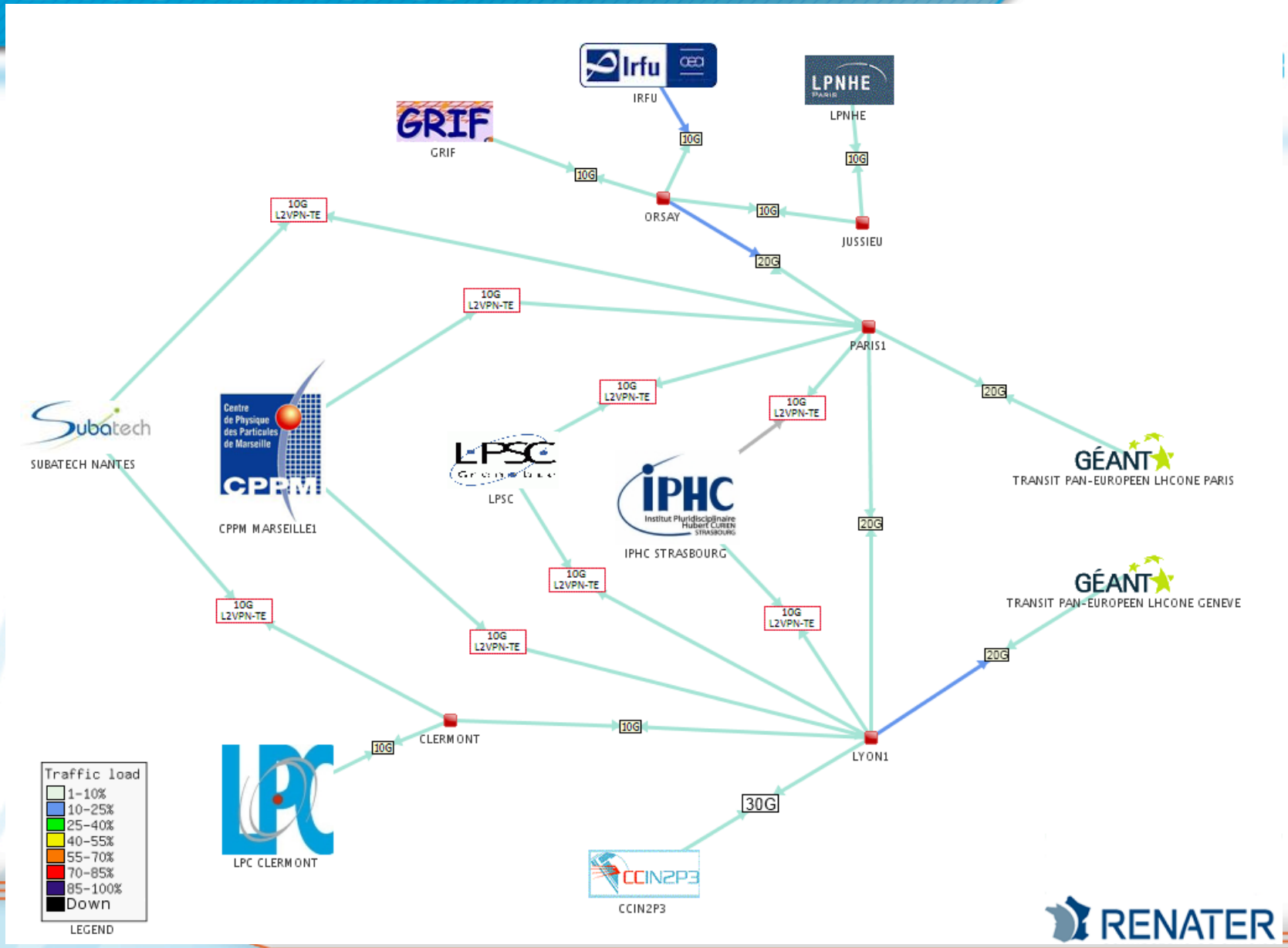
LCG-France réseau

- LCG-France
- LHCOPN & LHCONE

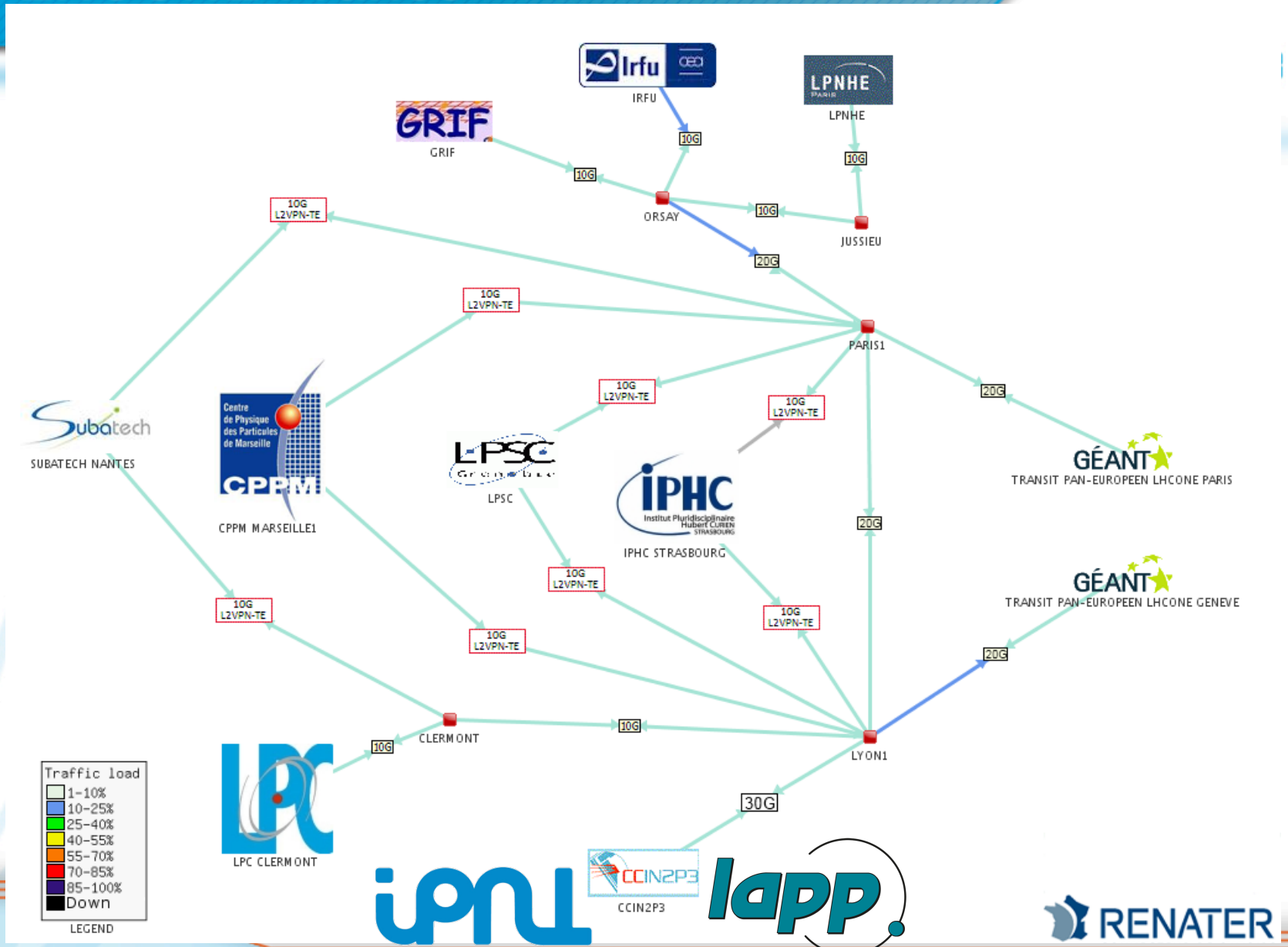
LHCOPN


TW-ASGC
ES-PIC
CA-TRIUMF
US-T1-BNL
US-FNAL-CMS
KR-KISTI
CH-CERN
RRC-KI-T1
NDGF
RRC-JINR-T1
UK-T1-RAL
FR-CCIN2P3
NL-T1
DE-KIT
IT-INFN-CNAF
= Alice = Atlas = CMS = LHCb
edoardo.martelli@cern.ch 20141112

LHCONE France



LHCONE France



LCG-France réseau

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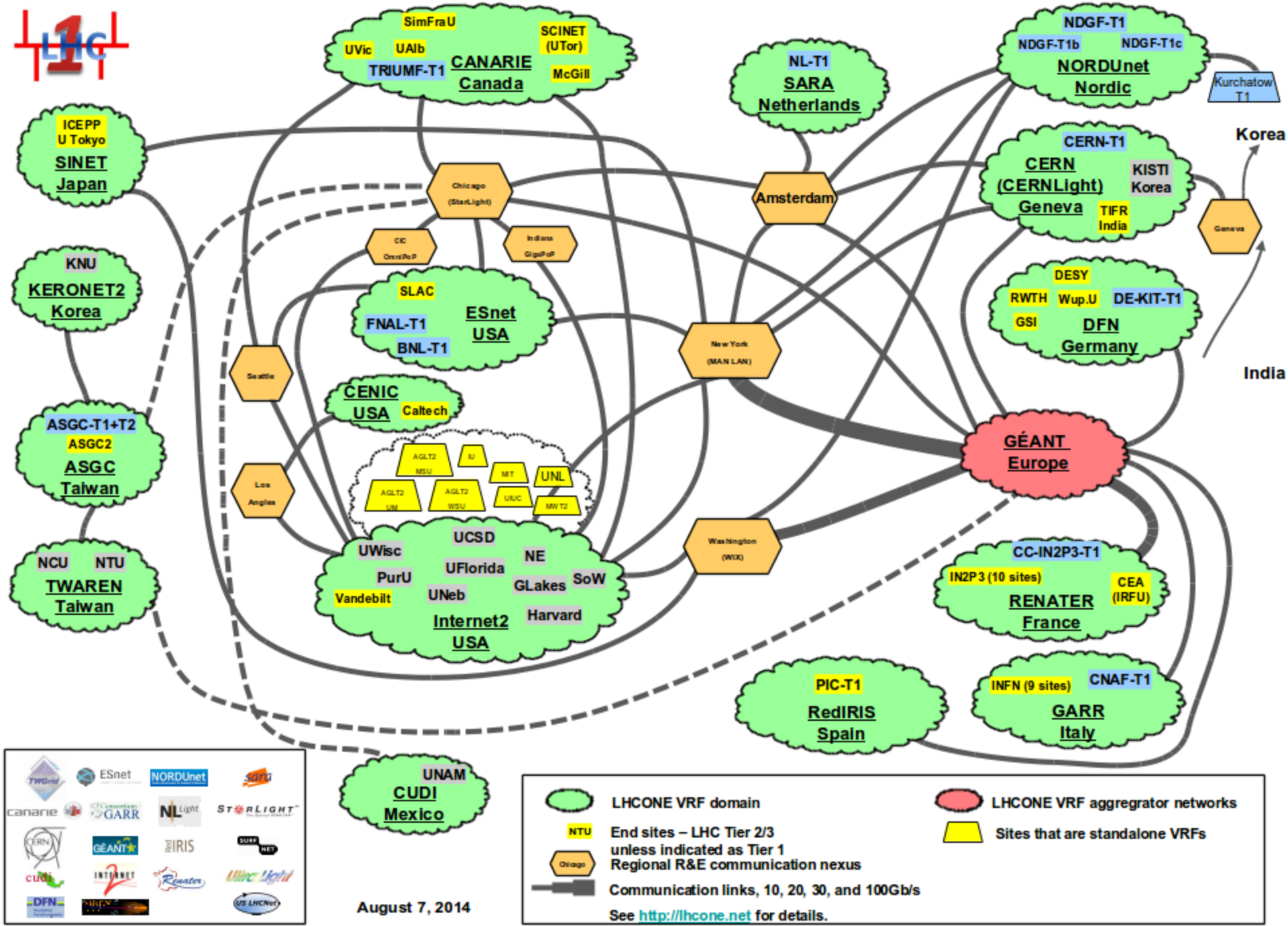
- LHCOPN & LHCONE
- Évolution LHCOPN / LHCONE

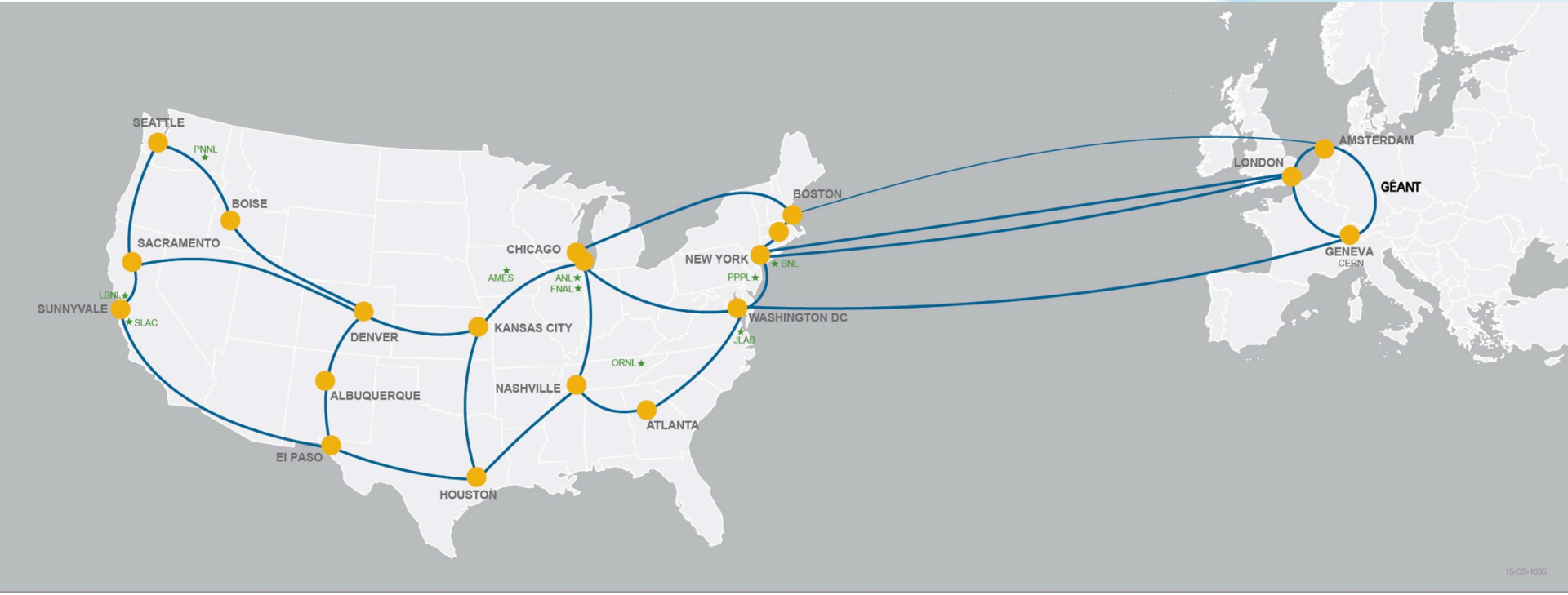
LHCONE: A global infrastructure for the LHC Tier1 data center and Tier 2 analysis center connectivity



LCG-France réseau

- LCG-France
- LHCOPN & LHCONE
- Évolution LHCOPN / LHCONE
- Évolution APAN/TEIN
- Évolution ESNET-GEANT

ESnet-GÉANT



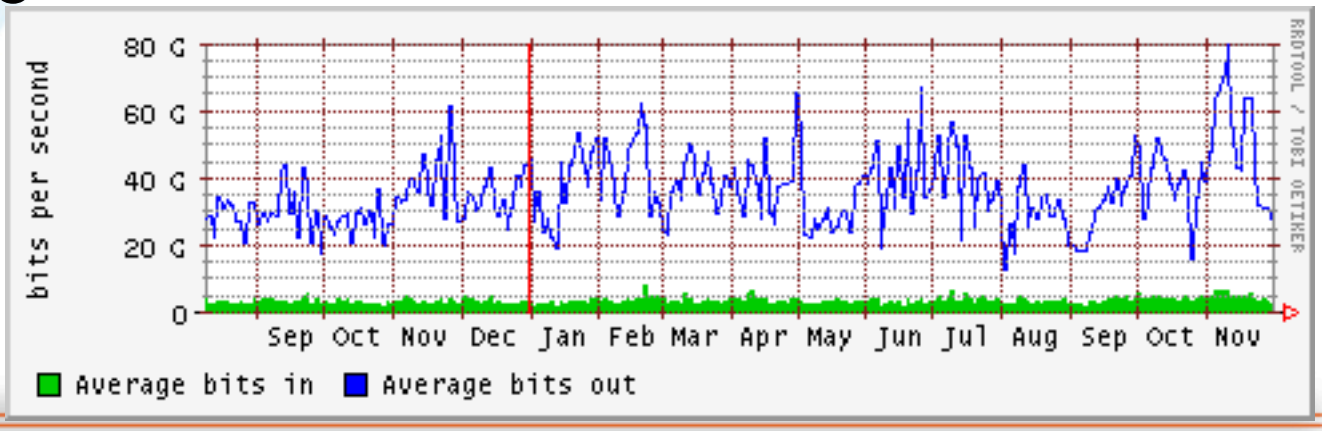
ESnet
ENERGY SCIENCES NETWORK

★ Department of Energy Office of Science National Labs

Ames	Ames Laboratory (Ames, IA)
ANL	Argonne National Laboratory (Argonne, IL)
BNL	Brookhaven National Laboratory (Upton, NY)
FNAL	Fermi National Accelerator Laboratory (Batavia, IL)
JLAB	Thomas Jefferson National Accelerator Facility (Newport News, VA)
LBNL	Lawrence Berkeley National Laboratory (Berkeley, CA)
ORNL	Oak Ridge National Laboratory (Oak Ridge, TN)
PNNL	Pacific Northwest National Laboratory (Richland, WA)
PPPL	Princeton Plasma Physics Laboratory (Princeton, NJ)
SLAC	SLAC National Accelerator Laboratory (Menlo Park, CA)

LCG-France réseau

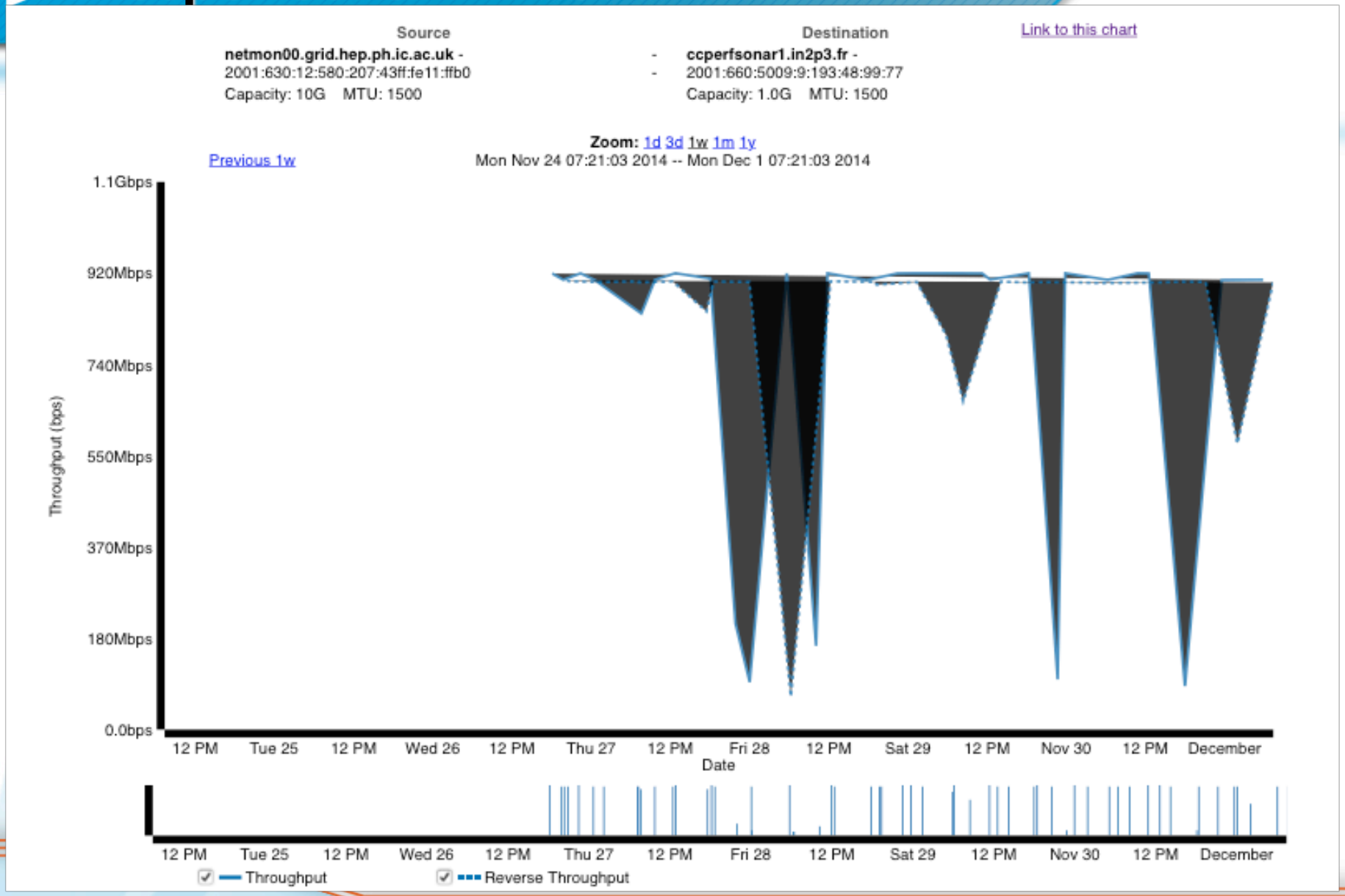
- LHCOPN & LHCONE
- Traffic T1-T1 sur LHCONE
- Évolution APAN/TEIN
- Evolution ESNET-GEANT
- RENATER 6
- CCIN2P3



IPv6

- LHCOPN & LHCONE
- PerfSonar

ccperfsonar1 IPv6



IPv6

- LHCOPN & LHCONE
- PerfSonar
- CCIN2P3
  - EfficientIP
- Labos IN2P3/IRFU