CineGrid Day & Viewing 9/9/2011

Frank Kresin & Laurin Herr
Cees de Laat

On behalf of the CineGrid Amsterdam Collaboration

→ please switch off phone! ←

SEEING IS BELIEVING
153957 Photography

CineGrid Mission

To build an interdisciplinary community that is focused on the research, development, and demonstration of networked collaborative tools to enable the production, use and exchange of very-high-quality digital media over photonic networks.

http://www.cinegrid.org/

Internet developments

... more data!

Speed

Volume

Deterministic

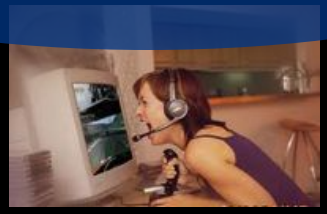
Real-time

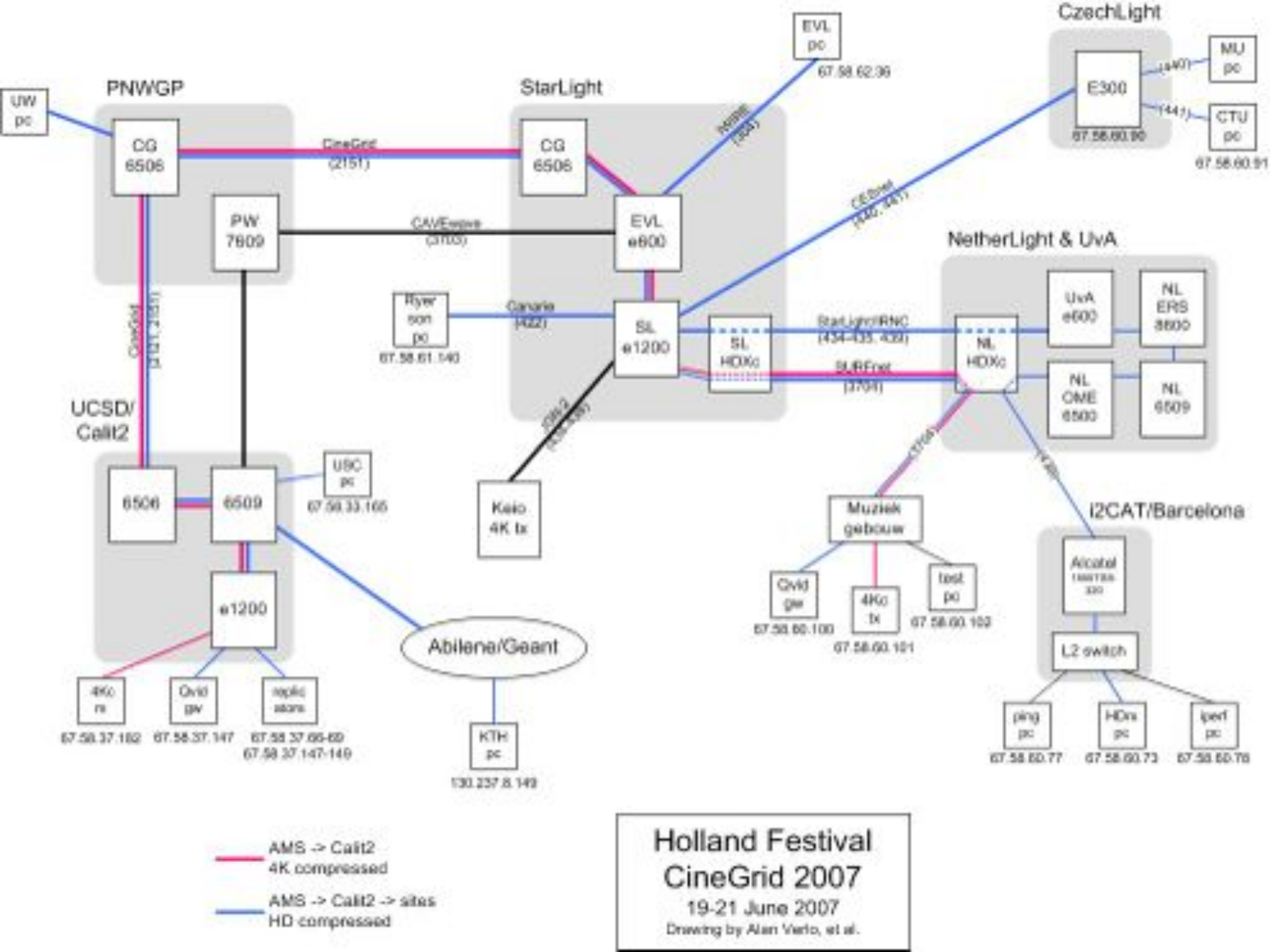
... more realtime!

Scalable

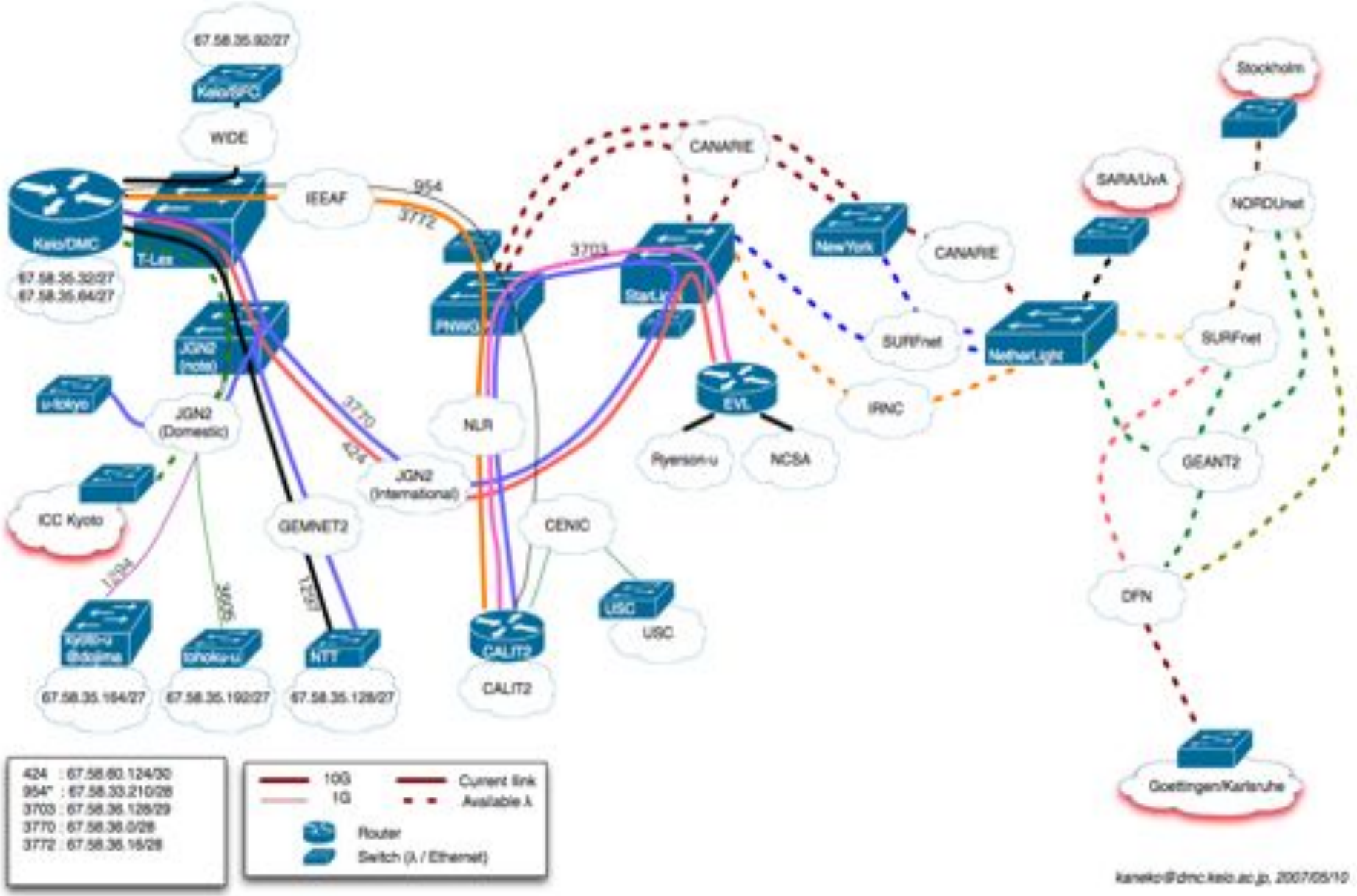
Secure

... more users!



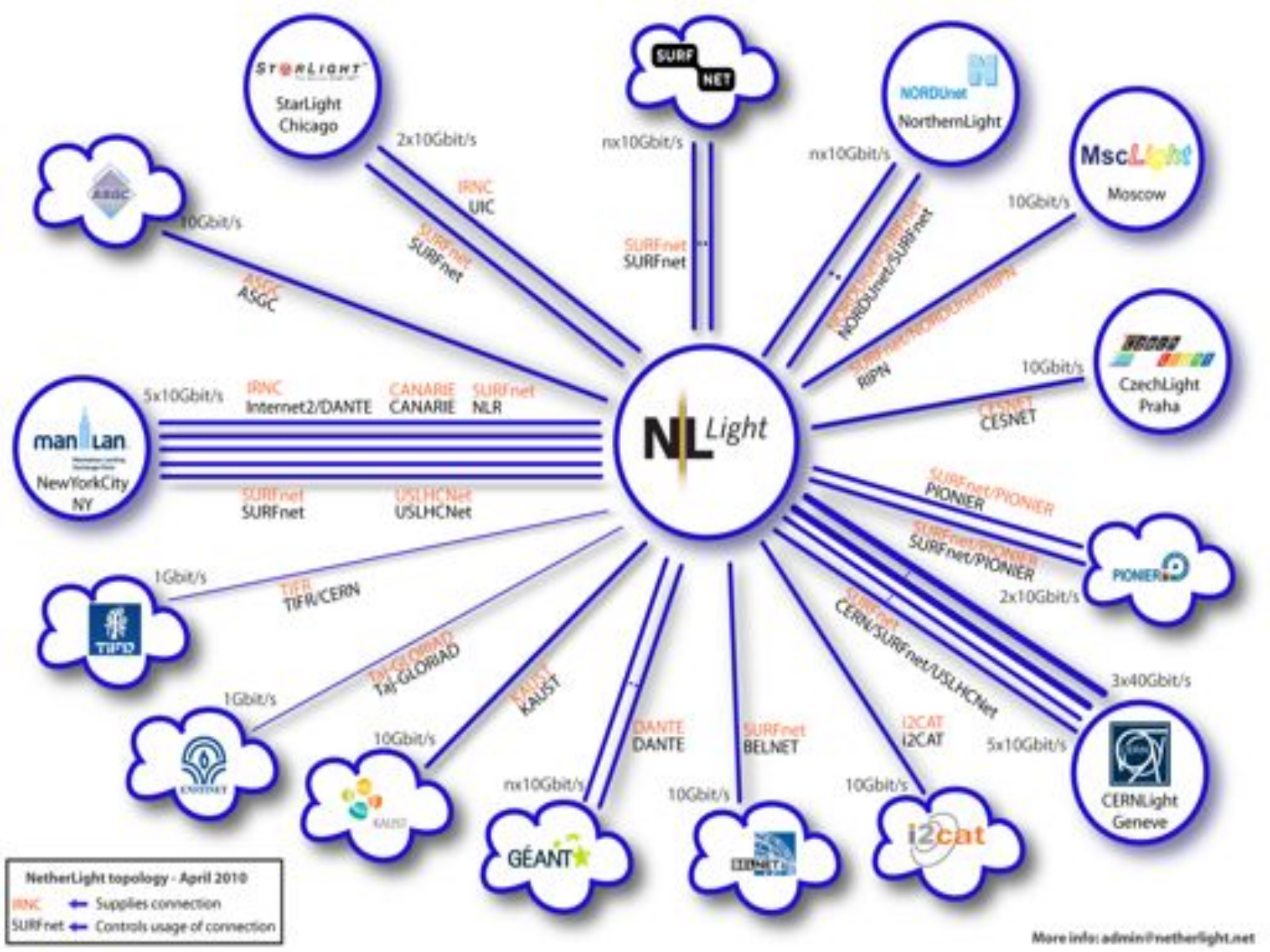

PNWGP
StarLight
CzechLight
NetherLight & UvA
UCSD/
Calit2
I2CAT/Barcelona
UW pc
CG 6506
CineGrid (2151)
PW 7609
CAVEscape (3103)
CG 6506
EVL pc
67.58.62.36
EVL e600
E300
67.58.60.90
MU pc
CTU pc
67.58.60.91
CEEnet (440, 441)
Ryerson pc
67.58.61.140
Canarie (422)
SL e1200
SL HDXc
StarLight/RNC (434-435, 439)
SURFnet (3704)
NL HDXc
UvA e600
NL ERS 8600
NL OME 6500
NL 6509
6506
6509
USC pc
67.58.33.165
e1200
Keio 4K tx
Abilene/Geant
Muziek gebouw
Ovid gw
67.58.60.100
4Kc tx
67.58.60.101
test pc
67.58.60.102
Alcatel
L2 switch
ping pc
67.58.60.77
HDrx pc
67.58.60.73
iperf pc
67.58.60.76
4Kc rx
67.58.37.162
Ovid gw
67.58.37.147
replic ations
67.58.37.66-69
67.58.37.147-149
KTH pc
130.237.8.149
AMS -> Calit2
4K compressed
AMS -> Calit2 -> sites
HD compressed
Holland Festival
CineGrid 2007
19-21 June 2007
Drawing by Alan Verlo, et al.

Current Links & Available Links for Kyoto Prize Events

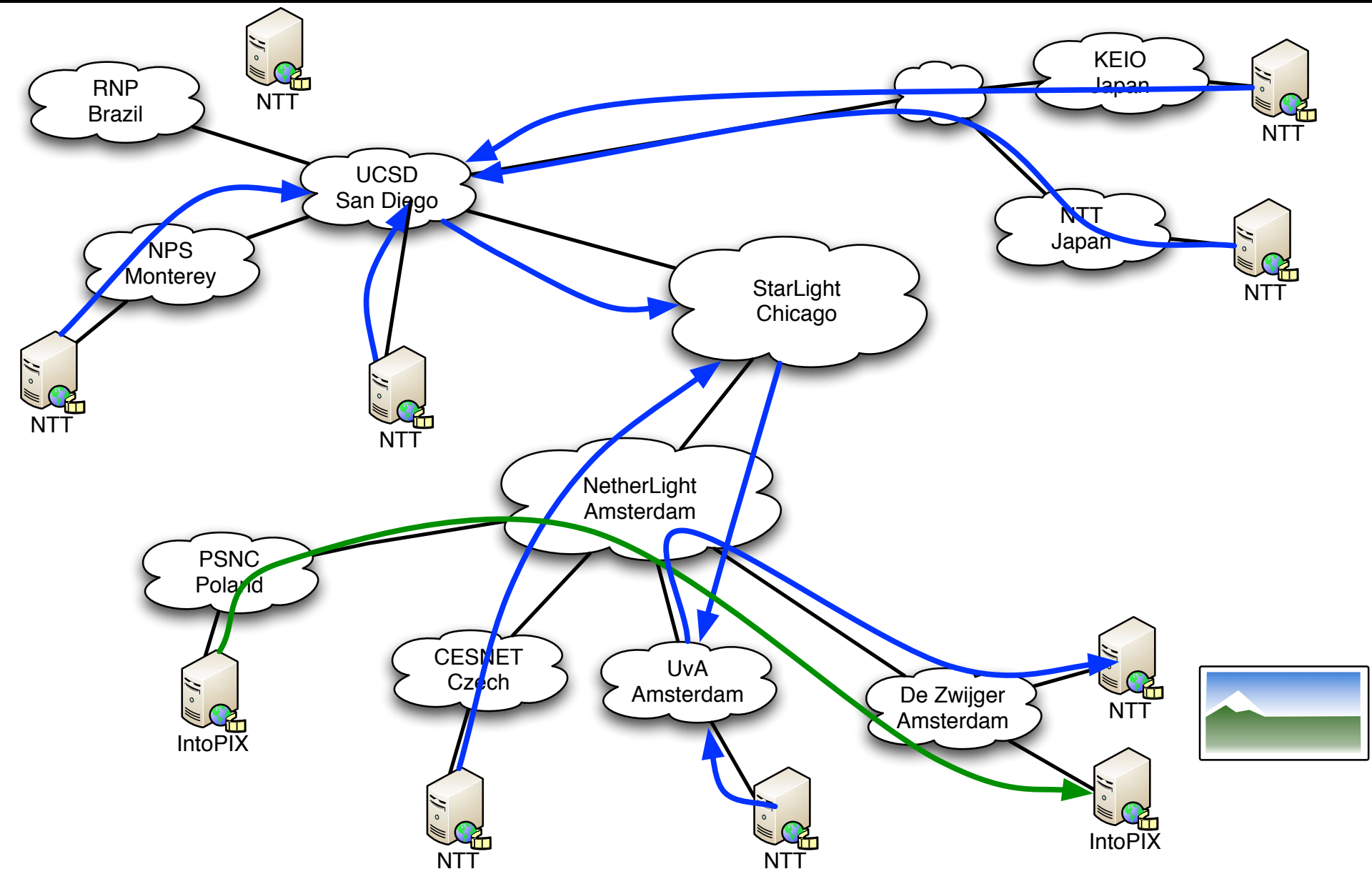


We investigate: TOMTOM for complex networks!

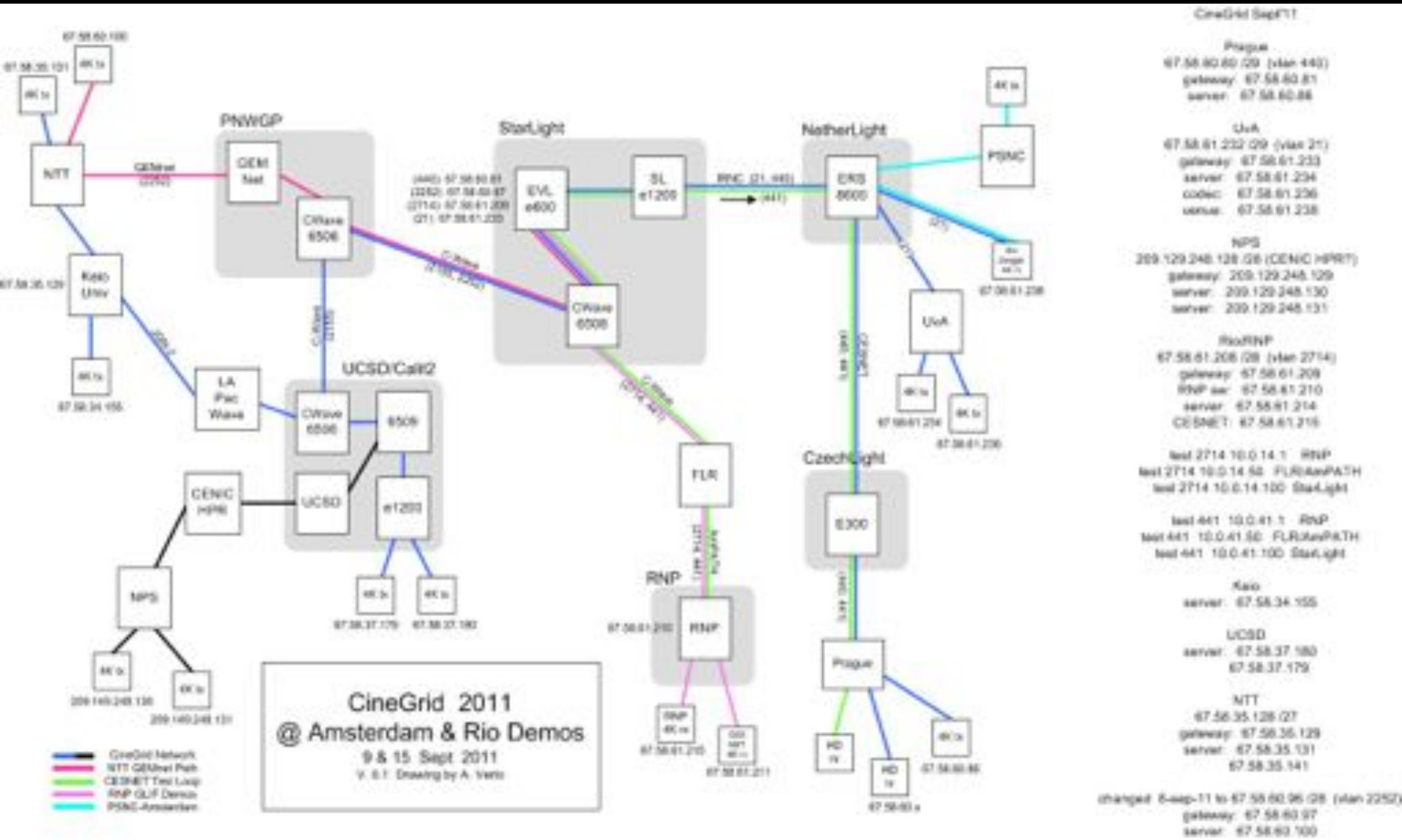
IceLink 4Gb
IceLink 10Gb
IceLink 2.5Gb
ASGCNet 10Gb/2.5Gb
ACE 10Gb
SURFnet-GLORIAD 10Gb
Internet2-ION 10Gb
US LHCNet 2*10Gb
NORDUnet 10Gb
CANARIE 10Gb
SURFnet-GLORIAD 10Gb
National LambdaRail 10Gb
US LHCNet 2*10Gb
US LHCNet 2*10Gb
NORDUnet n*10Gb
Stockholm
Helsinki
St Petersburg
e-Arena-Informica-RUNNet-GLORIAD 10Gb
NORDUnet GLORIAD 10Gb
NORDUnet 50Gb
SURFnet-IEEAF-GLORIAD 90Gb
Amsterdam
Copenhagen
Moscow
MoscowLight
Hamburg
PIONIER 40Gb
Poznan
London
AIAANet 1Gb
Prague
CESNET 10Gb
US LHCNet 2*10Gb
Tel-GLORIAD 1Gb
SURFnet 120Gb
CERN/TIFR 1Gb
Barcelona
CATLight-I2CAT 10Gb
Tel-GLORIAD 1.25Gb
KAUST 10Gb


StarLight
Chicago
SURFnet
NORDUnet
NorthernLight
MscLight
Moscow
ASGC
manLan
NewYorkCity
NY
NL Light
CzechLight
Praha
PIONIER
TIFR
ENSTINET
KAUST
GÉANT
DANTE
BELNET
i2cat
CERNLight
Geneve
2x10Gbit/s
IRNC
UIC
SURFnet
SURFnet
nx10Gbit/s
SURFnet
SURFnet
nx10Gbit/s
NORDUnet/SURFnet
10Gbit/s
RIPN
10Gbit/s
CESNET
CESNET
10Gbit/s
ASGC
ASGC
5x10Gbit/s
IRNC
Internet2/DANTE
CANARIE
CANARIE
SURFnet
NLR
SURFnet
SURFnet
USLHCNet
USLHCNet
SURFnet/PIONIER
PIONIER
SURFnet/PIONIER
SURFnet/PIONIER
2x10Gbit/s
1Gbit/s
TIFR
TIFR/CERN
1Gbit/s
TAT/GLORIAD
TAT/GLORIAD
10Gbit/s
KAUST
KAUST
nx10Gbit/s
DANTE
DANTE
10Gbit/s
SURFnet
BELNET
10Gbit/s
I2CAT
I2CAT
SURFnet
CERN/SURFnet/USLHCNet
3x40Gbit/s
5x10Gbit/s
NetherLight topology - April 2010
IRNC ⟵ Supplies connection
SURFnet ⟵ Controls usage of connection
More info: admin@netherlight.net

The Network @ CG-AMS 9/9/11



The Network @ CG-AMS 9/9/11



CineGrid Sept'11

Prague
67.58.60.80 /29 (vlan 440)
gateway: 67.58.60.81
server: 67.58.60.88

UvA
67.58.61.232 /29 (vlan 21)
gateway: 67.58.61.233
server: 67.58.61.234
codec: 67.58.61.236
venue: 67.58.61.238

NPS
209.129.248.128 /28 (CENIC HPRT)
gateway: 209.129.248.129
server: 209.129.248.130
server: 209.129.248.131

RioRNP
67.58.61.208 /28 (vlan 2714)
gateway: 67.58.61.209
RNP svr: 67.58.61.210
server: 67.58.61.214
CESNET: 67.58.61.216

test 2714 10.0.14.1 RNP
test 2714 10.0.14.50 FLR/AmPATH
test 2714 10.0.14.100 Sta4Light

test 441 10.0.41.1 RNP
test 441 10.0.41.50 FLR/AmPATH
test 441 10.0.41.100 StarLight

Kaio
server: 67.58.34.155

UCSD
server: 67.58.37.180
67.58.37.179

NTT
67.58.35.128 /27
gateway: 67.58.35.129
server: 67.58.35.131
67.58.35.141

changed 8-sep-11 to 67.58.60.96 /28 (vlan 2252)
gateway: 67.58.60.97
server: 67.58.60.100

POSSIBLE ROLES

- Feature films (live action / animation)
- Educational usage
- Scientific vizualisation
- Extremely HQ videoconferencing
- Reproduction of performances
- Gaming
- Television
- Home applications?

PROJECTORS

Sony's First Ever 4K Home Theater Projector Shoots Super Resolution for Super Cash

4K video might be our inevitable future, but for now it's prohibitively expensive and rarely available. Sony's taking care of the latter part with its new VPL-VW1000ES projector—four times the resolution of 1080p (!) for mega,

Share Like 5K

Gizmodo on Facebook

Vind ik leuk

272.092 mensen vinden Gizmodo leuk.

CINEGRID AMSTERDAM GOALS

Assemble technology, science, art and education to create new concepts, pilots & business models that result in:

- New forms of storytelling
- New domains for scientific exploration
- Transformation of workflows in creative media production
- Better education
- Enhanced economic growth

PARTNERS

CONSORTIUM PARTNERS

SURFnet, UvA, SARA, Dutch Film- and Television Academy, DELL, TNO, Holland Festival, Blender Institute, Sandberg Institute, MediaGuild, Waag Society

COLLABORATORS

Poznan Supercomputing Center, Amsterdam Innovatie Motor, UCSD, University of Illinois, NHK, KTH, KEIO University, Pathé Benelux, Filmmuseum, Salto, Nationale Computer Faciliteiten, IDFA, BeamSystems, ISOC, IDFA, DutchView, PICNIC, GridForum and many more

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153957 Photography

ACTIVITIES
Center of Excellence
Scientific Research
Content production
Education
Business Models
Outreach

CINEGRID AMSTERDAM

Research-, development- and outreach facility for production, transport and projection of digital cinema:

- Digital projection and sound in very high quality
- Editing and capture facilities
- Rendering & disk space
- Extremely high quality networks

In the center of Amsterdam

International context

SO FAR

-Holland Festival ’07 & ’10
-BeamLab
-PICNIC’08 & ’09
-Mediapark Jaarcongres ’08 ’09 ’10
-SURFnet GigaPort
-ICT Delta ’09
-Holland Animation Film Festival
-Workshops 4K
-Educational contest
-4K How to Cookbook
-Content, content content..

Handelingen
Maarten de Heer

Red End
Robin Noorda & Bethany de Forest

Hey at all
We're almost done. Shhh..

STEREO 4K Recording
Viktoria Mullova
Holland Festival 2010

RESOURCES

- CineGrid Studio for 4K postproduction
- 100 TB of Highly Connected Storage Space
- High Performance Render Cluster
- 3 4K Screens and
- 1 - 10 Gb/s light path connections

- Expertise in
- - production
- - encoding
- - transmission
- - screening

CineGrid @ Holland Festival 2007 Crew

HOME CONTACT OVER CINEGRID PARTNERS

SEARCH AAA

CINEGRID AMSTERDAM

BUSINESS PRODUCTIE RESEARCH VERTONING

PRODUCTIE / LUKIE / 08/09/2011

Make your own 4K production!

Are you an audiovisual artist or filmmaker? And do you want to experience 4K with your own production? Participate in our 4K contest! Send in your concept for a 4K video-installation or film (ca. 5 minutes) before the 14th of November. Incorporate the latest techniques in your concept, and make use of the full potential [...]

Share / Save

CINEGRID AGENDA

9 September/2011

CineGrid Day

Experience the 4K future now! On the 9th of September, CineGrid Amsterdam organizes the CineGrid Day 2011. 8...

CINEGRID ON TWITTER

Bodegón Geométrico #3d #render #pavement http://t.co/eDOGA9P

Via @MayaRendering To make an object move with a dynamic parent MayaDynamics http://t.co/D867jsV #3D #Maya #animation

4 new tweets

#3D See how our rosie works, buy the model and put your project in best_presentation http://t.co/DiCoqmI

#3D Have a time to check this artist for this very realistic human anatomy at turbosquid.... http://t.co/q93qqnE

Nhk Hentai Tokko Hentai Naruto Hentai Fanfiction FF13 Vanille Hentai

www.cinegrid.nl

CINEGRID IS SUPPORTED BY

City of Amsterdam, Pieken in de Delta

EFRO / Kansen voor West, Province of Noord-Holland