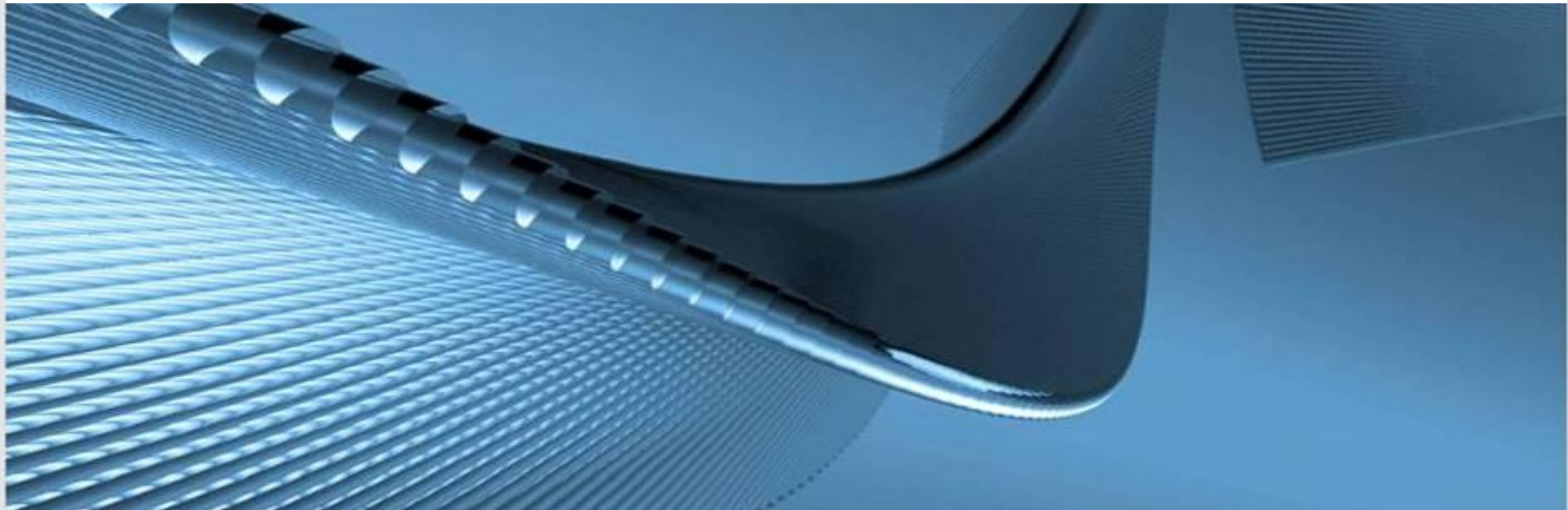


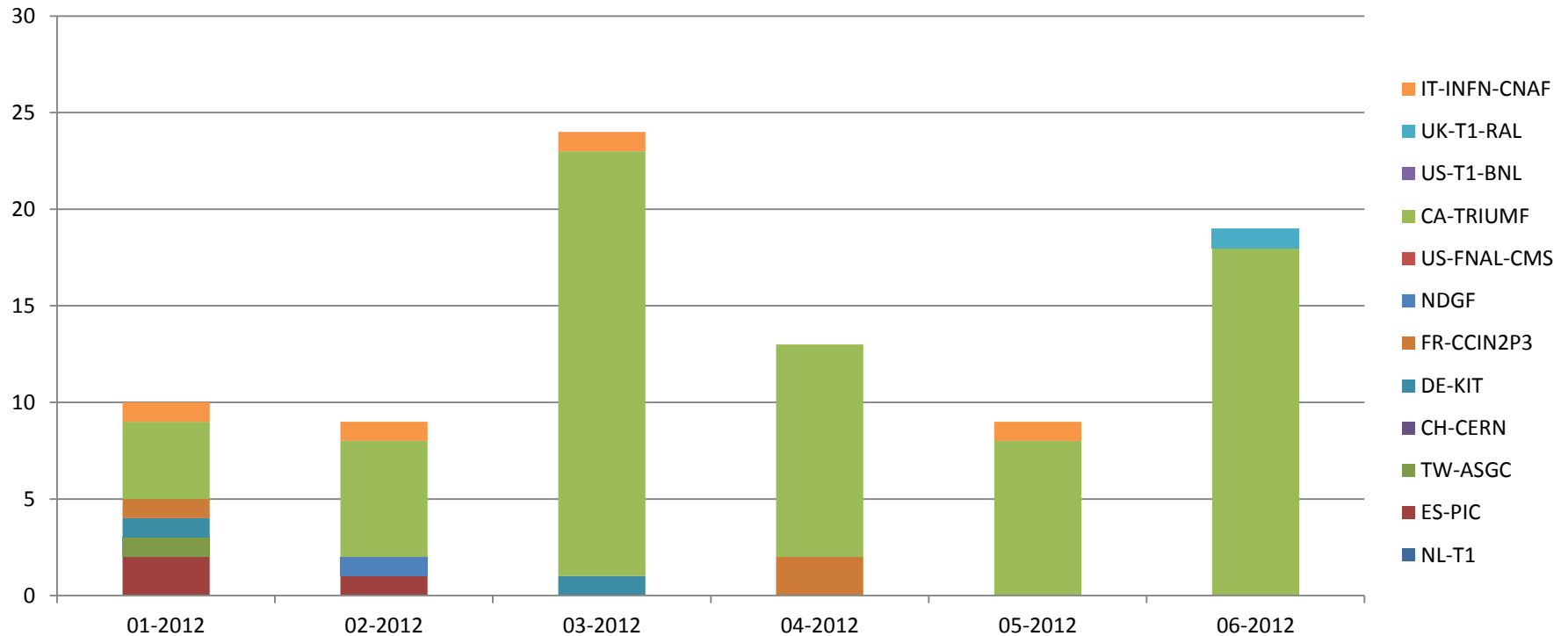
**LHCOPN – OPS-WG**  
**Oslo – 20<sup>ed</sup> Sept. 2012**  
Bruno Hoefft



# Agenda

- LHCOPN – statistics
  - Tickets of 2012 (Q1 + Q2)
  - BGP events
- Backup Link test status
  - Backup link tests in 2013

# Ticket distribution over Tier-1

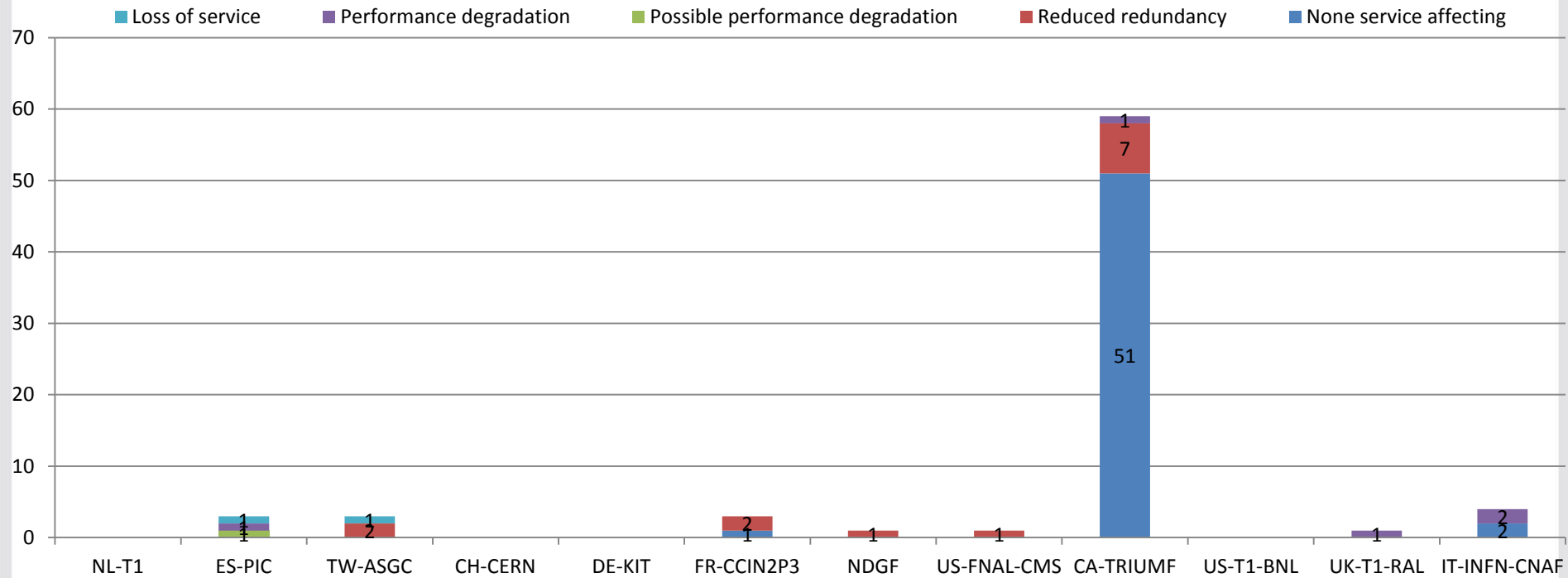


- 2012 (half Year) total-# of tickets: 84
- Average of 14 per month
- one long standing tickets (still from last year)

77379 in progress | 11.12.2011 07:21 n/a | IL2 | Connect | US-FNAL-CMS | CH-CERN / US-FNAL-CMS | Problem with the Geneva-MANLAN link. | Reduced redundancy

# severity of TT

LHCOPN tickets, incl service impact 2012-01 - 2012-06



- majority are „non service affecting“

# BGP events

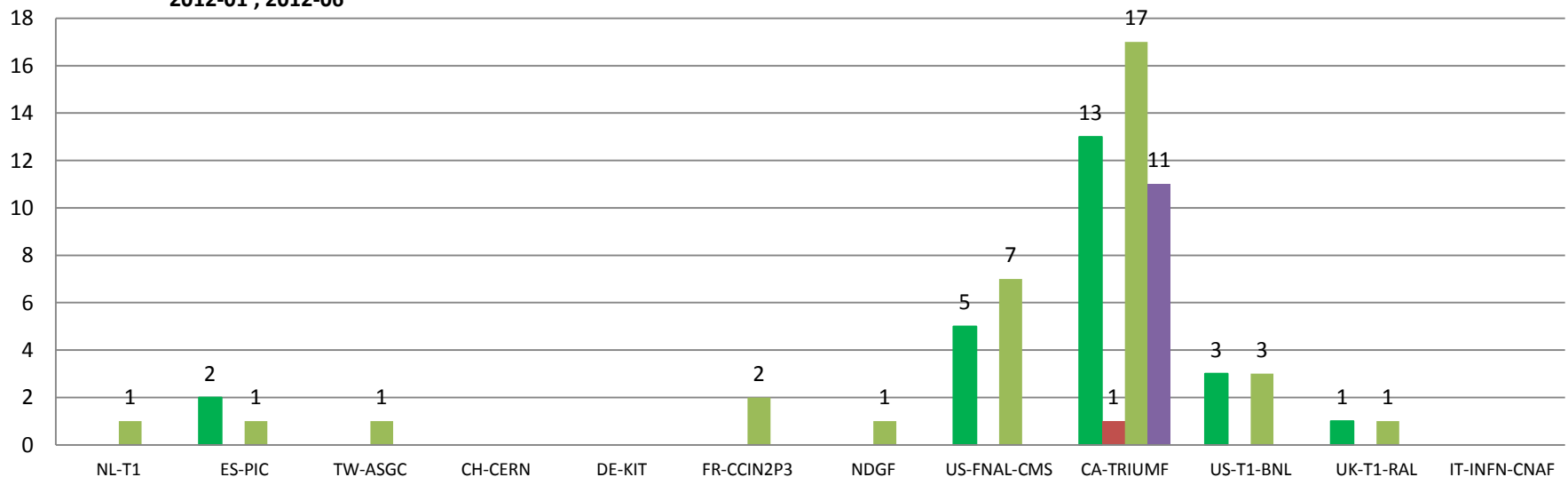
- BPG peer alarms at url:  
<https://cclhcopnmon.in2p3.fr/LHCOPN/report/>

## Events matching per T1

2012-01, 2012-06

■ 2012-Q1 --> no. of detected Events >= 1h  
■ 2012-Q2 --> no. of detected Events >= 1h

■ 2012-Q1 --> no. of related Events reported in TTS  
■ 2012-Q2 --> no. of related Events reported in TTS



- several Triumf events → ISP fiber issues
- ES-PIC : Not correlated event 1957 was the yearly electrical maintenance

# OPS-WG TC

- site reports:
  - Ether send me an email or fill it in at the Twiki page
  - Even if it is : „nothing to report“
  - URL: <https://twiki.cern.ch/twiki/bin/view/LHCOPN/OpsTelCom>
  - Next OPS-WG TC → 17. Oct. 2012
  - VC via Vidyo

# Backup Link test status

## Regular backup tests:

<u>Site</u>	<u>Date of last backup test report</u>	<u>Have we a report since 1 year?</u>
CA-TRIUMF	2012-??-??	OK → ??
CH-CERN	2011-10-15	OK
DE-KIT	2012-03-13	OK
ES-PIC	2011-05-05	KO
FR-CCIN2P3	2010-03-08	KO
IT-INFN-CNAF	2008-04-09	KO
NDGF	2008-04-09	KO
NL-T1	2009-02-10	KO
TW-ASGC	2010-12-28	KO
UK-T1-RAL	2010-08-24	KO
US-FNAL-CMS	2008-04-24	KO
US-T1-BNL	2008-03-27 ??→	OK ??

- 2012 Backuplink test
  - Failure + a little documentation
    - Time
    - Duration
    - Env. Asymmetric transfer


**URL:** <https://twiki.cern.ch/twiki/bin/view/LHCOPN/LhcopnBackupTests>

# Backup Link test 2013

- Detailed tests of each tier-1 site
  - Operation of tier-1 site during primary link shutdown
  - Symmetry (sites with multiple backup path)
  - tier-1 -to- tier-1 connectivity
    - Via direct connection
    - Via tier-0
  - Monitoring tools : Perfsonar / MDM / local monitoring /...
  - Routing → last resort (with/without LHCONE)
  - Notify any “un-normal” behavior of EMI or other Gridware



thanks for your attention



# Questions

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