

# LHCOPN update

Paris, 17<sup>th</sup> of June 2013  
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# Update



## **CERN:**

- CERN new datacentre in Wigner now operational. Prefix 188.185.128.0/17 in AS61339 announced to the LHCOPN.

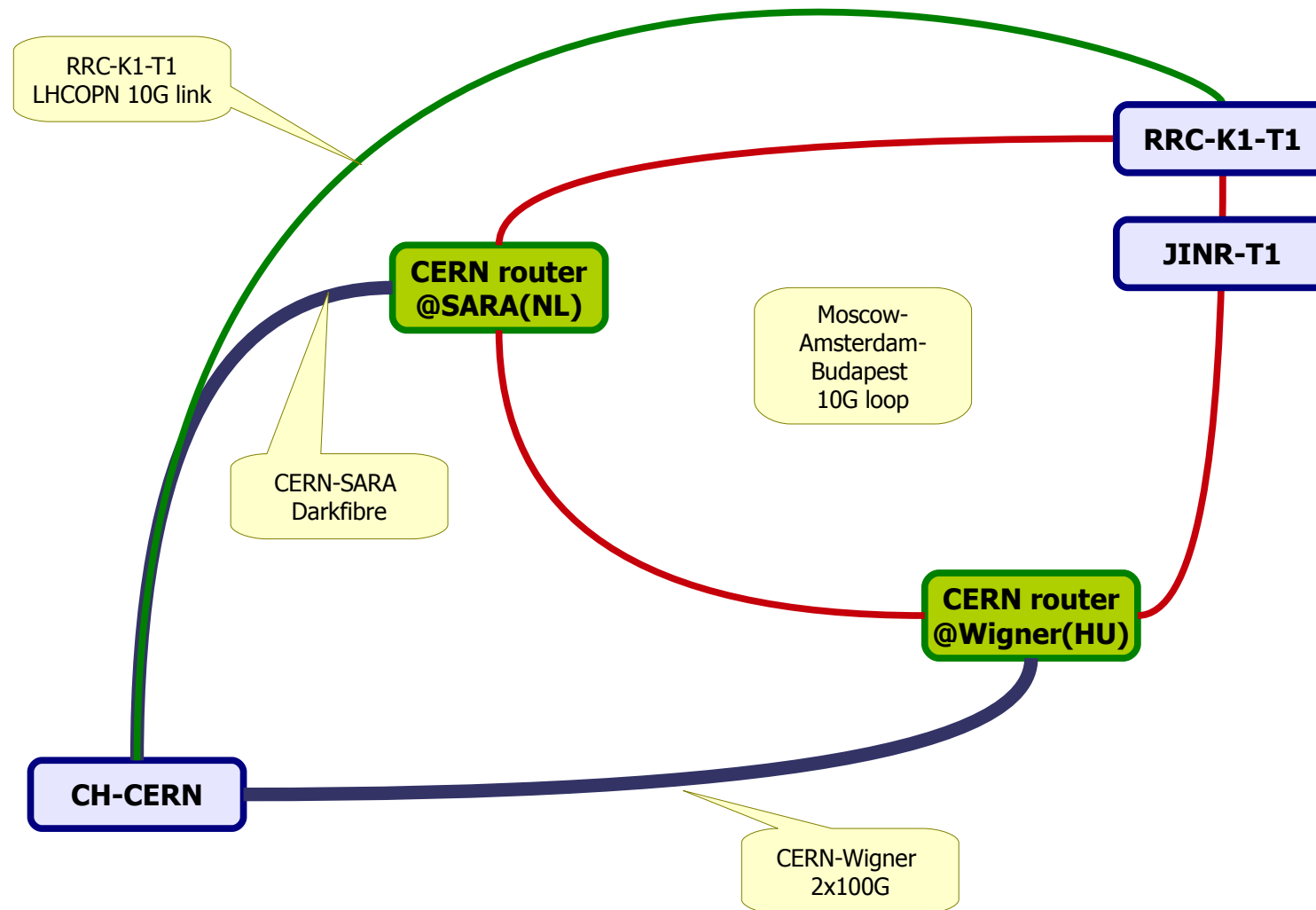
## **RAL:**

- will soon update the network infrastructure and upgrade the LHCOPN routers

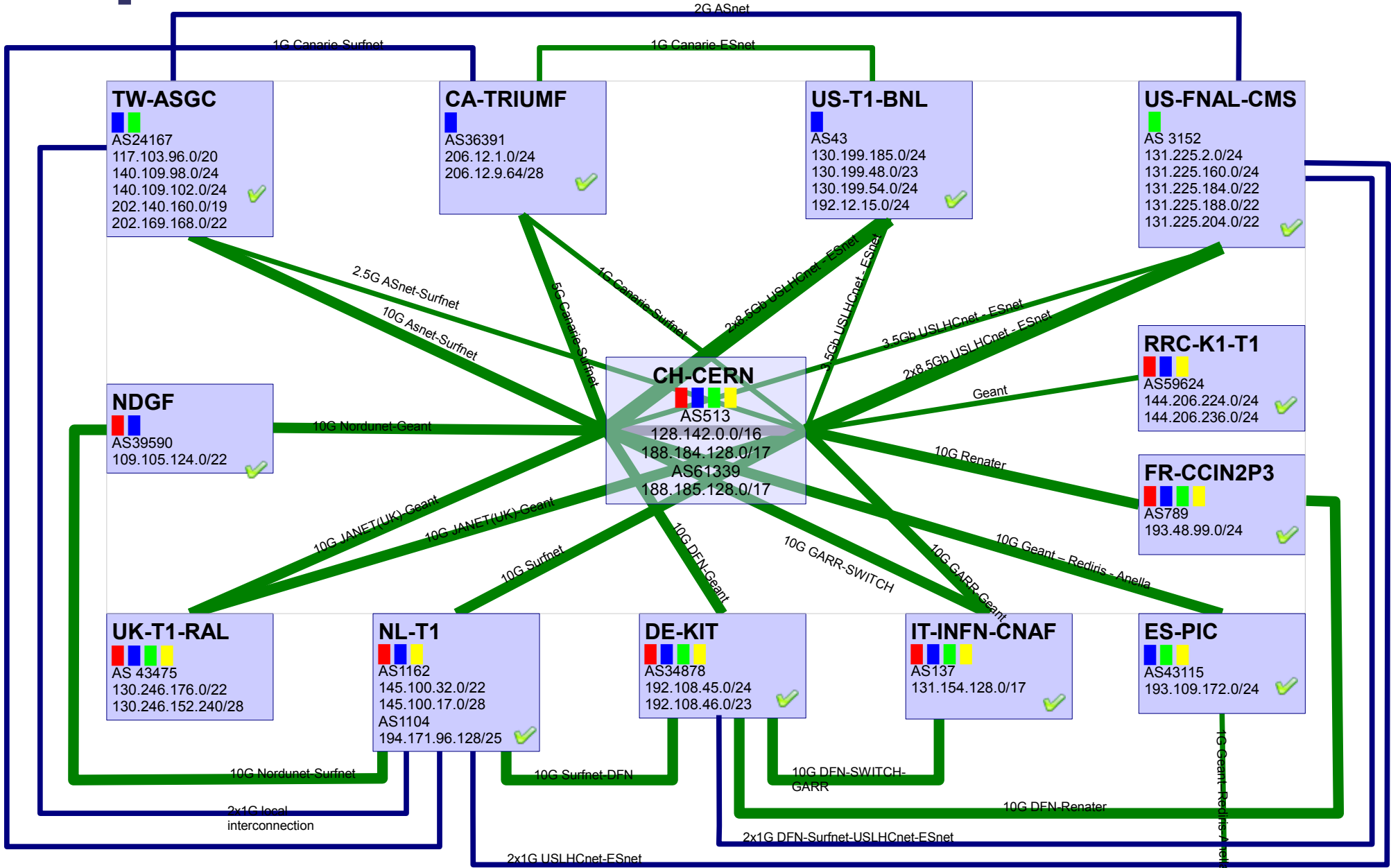
## **New Tier1 NRC-KI and JINR, Russia:**

- setting up a 10G ring KI–JINR–Amsterdam–Budapest. CERNlight routers installed in Wigner (Budapest) and SARA (Amsterdam)
- still connected with 2Gbps link to CERN-T0 only

# Russian T1s LHCOPN connection



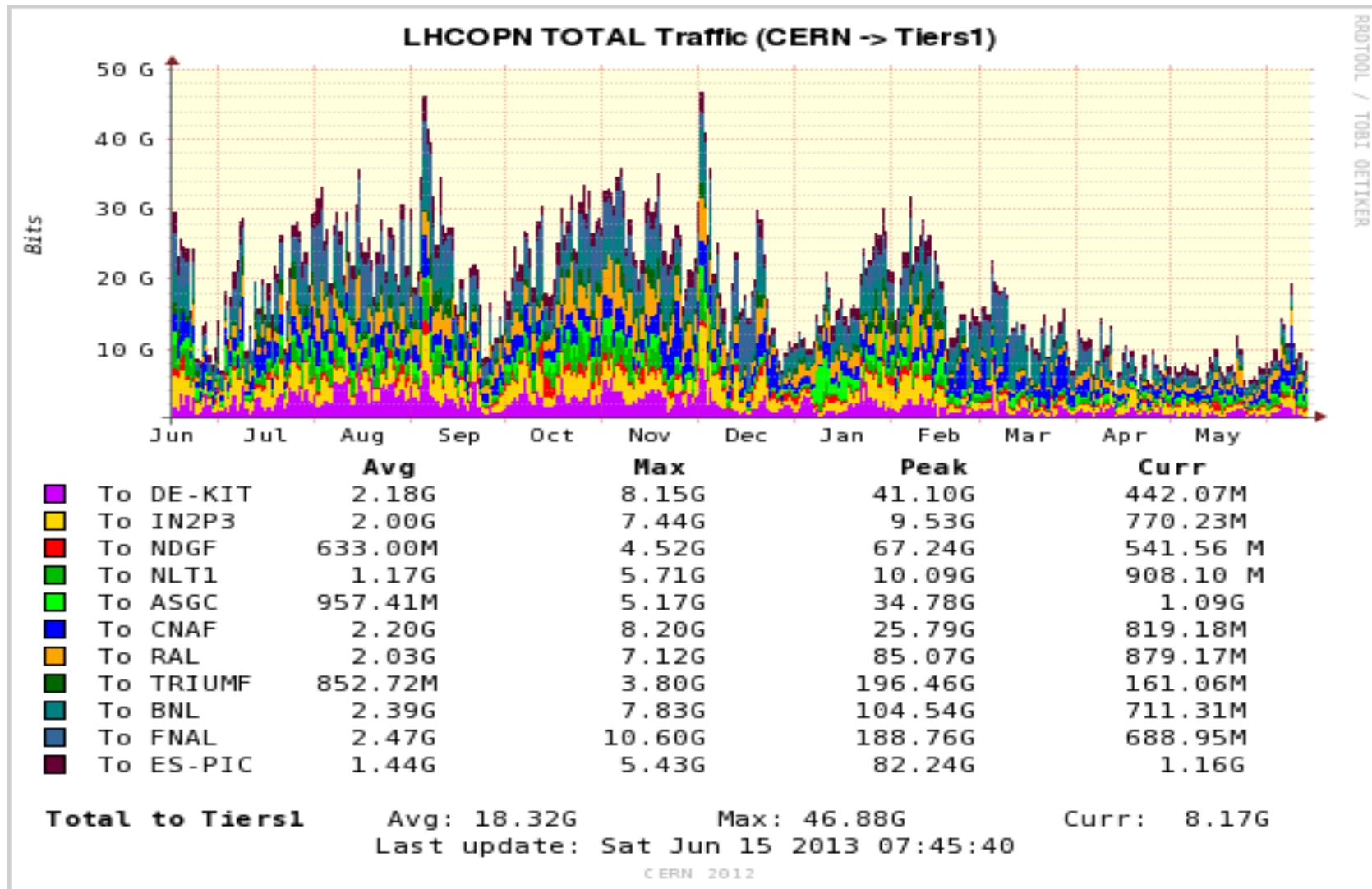
# Map



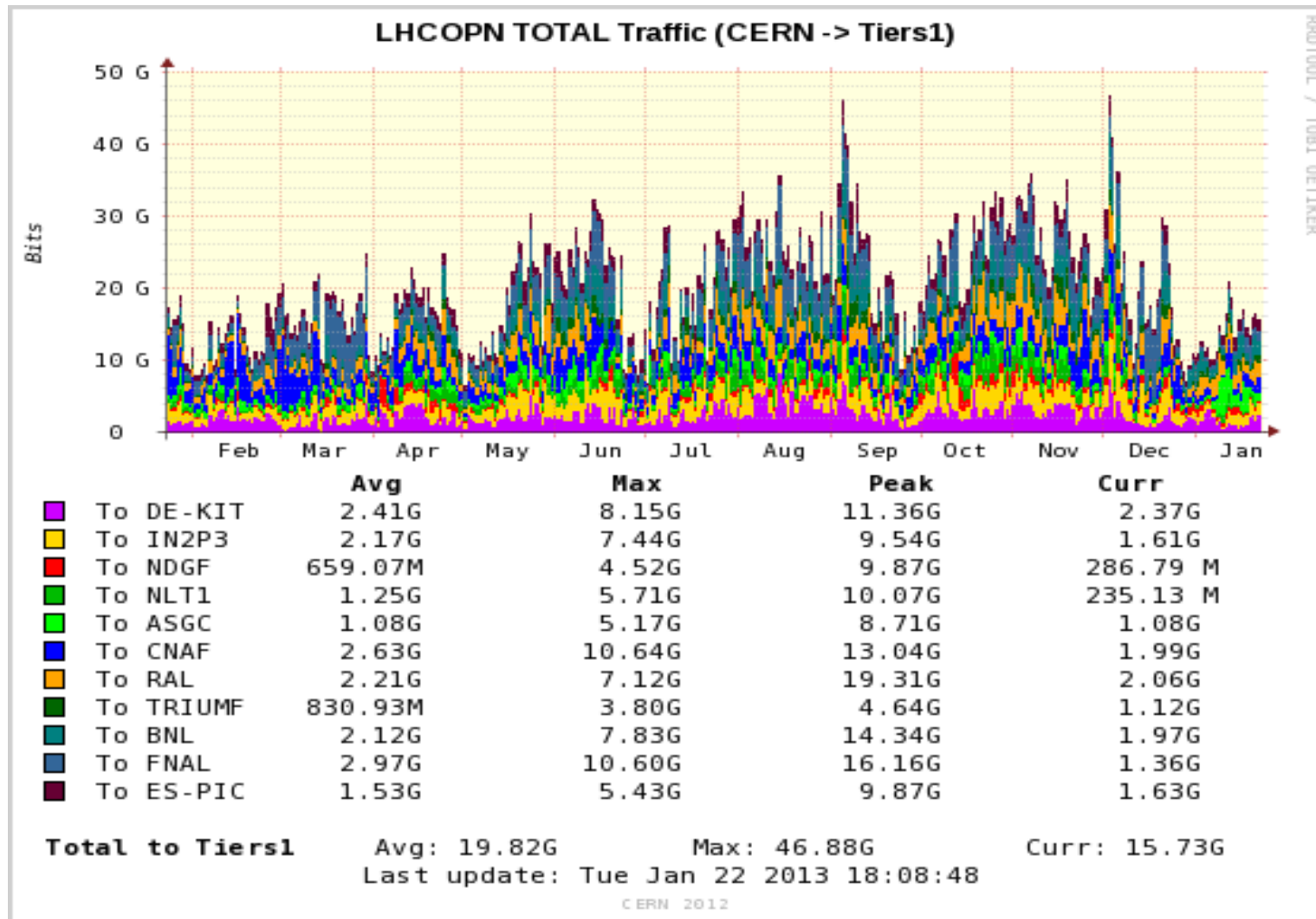
	T0-T1 and T1-T1 traffic		= Alice		= Atlas
	T1-T1 traffic only		= CMS		= LHCb
	Not deployed yet		= internet backup available		
	(thick) >=10Gbps	p2p prefix: 192.16.166.0/24			
	(thin) <10Gbps	edoardo.martelli@cern.ch 20130517			



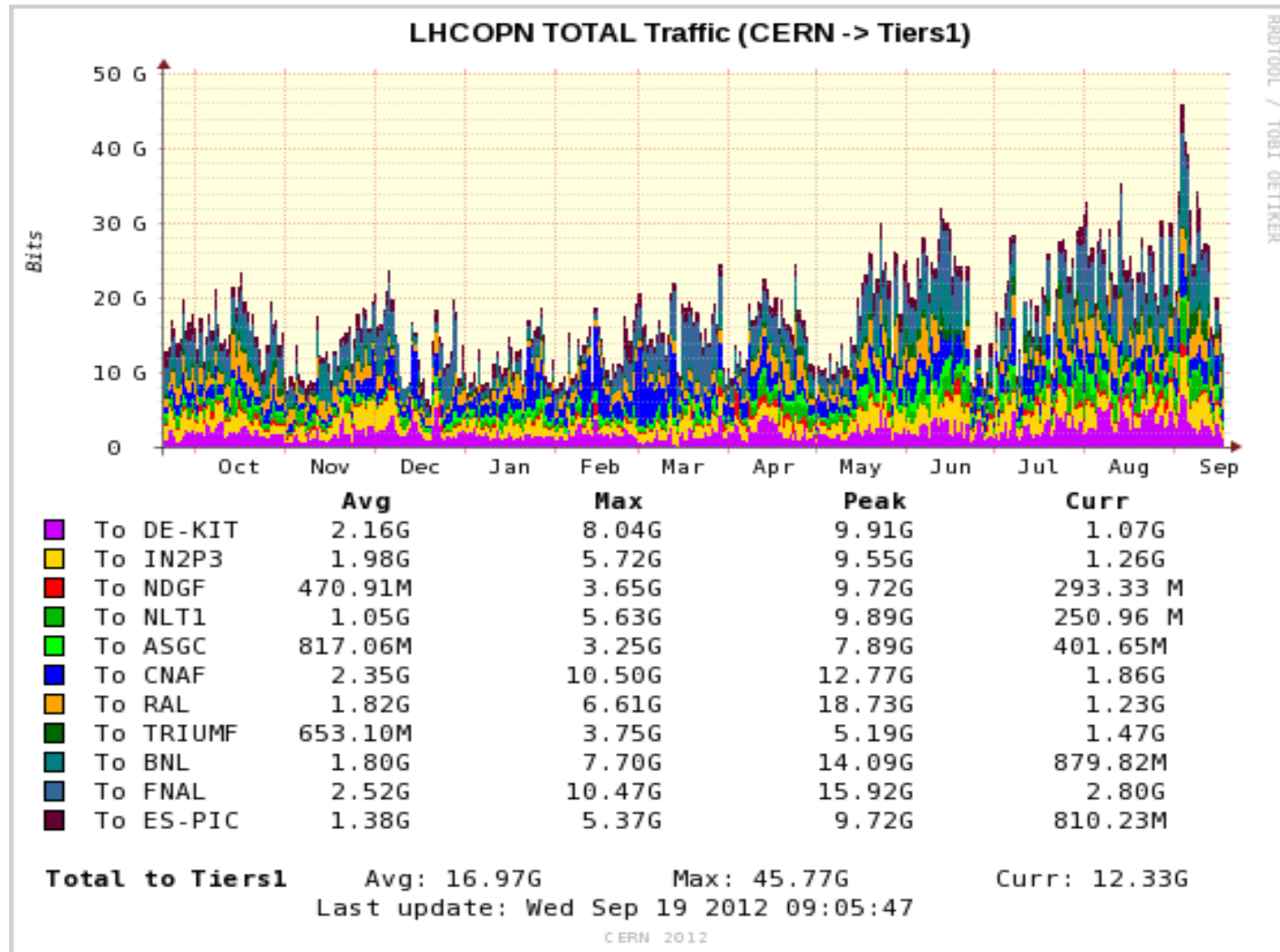
# LHCOPN traffic trends



# (previous graph, January 2013)



# (previous graph, September 2012)





## **IPv4 shortage may hit deployment of new CERN VMs in 2014**

- IPv6 routing enabled among these LHCOPN sites: CERN, KIT, PIC, NDGF
- CERN IPv6 network deployment progressing well (<http://cern.ch/ipv6>)
- HEPiX IPv6 working group is surveying the IPv6 compatibility of the WLCG applications (results available at <http://cern.ch/hepixon-ipv6>)

**Questions?**