

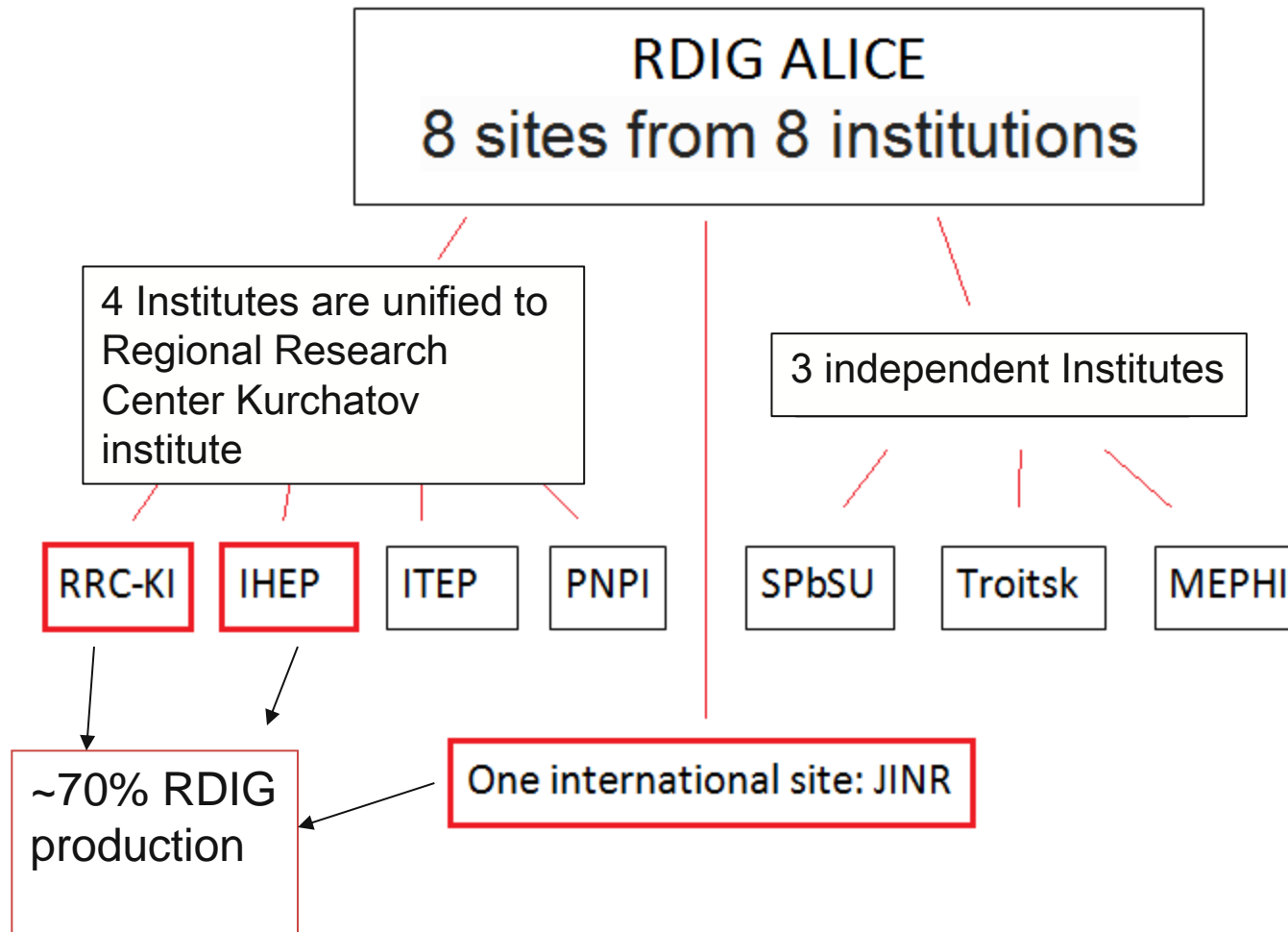


# Operations and plans - RDIG T2s

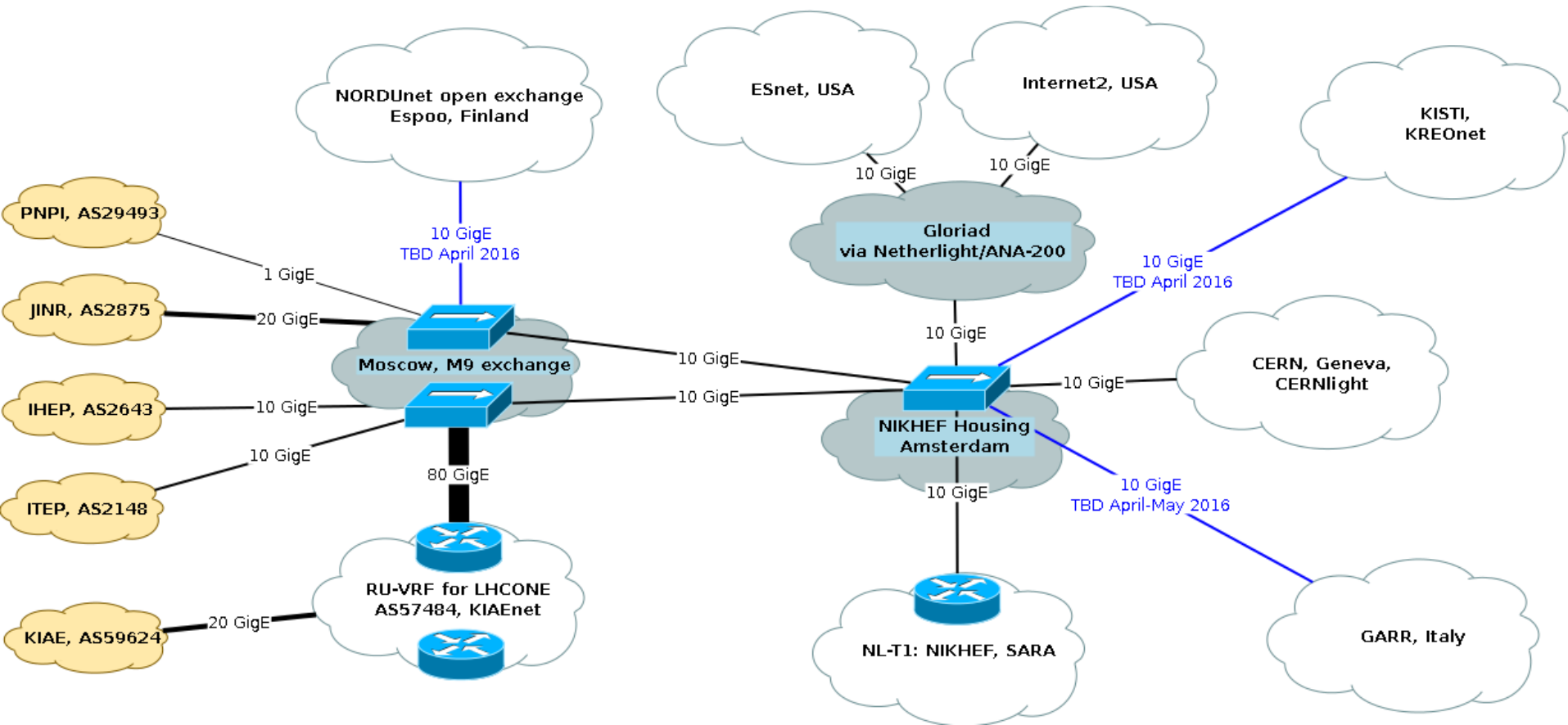
**Andrey Zarochentsev (SPbSU, St. Petersburg),  
Gleb Stiforov (JINR, Dubna) and Victor Kotliar  
(IHEP, Moscow).**

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# RDIG administrative structure



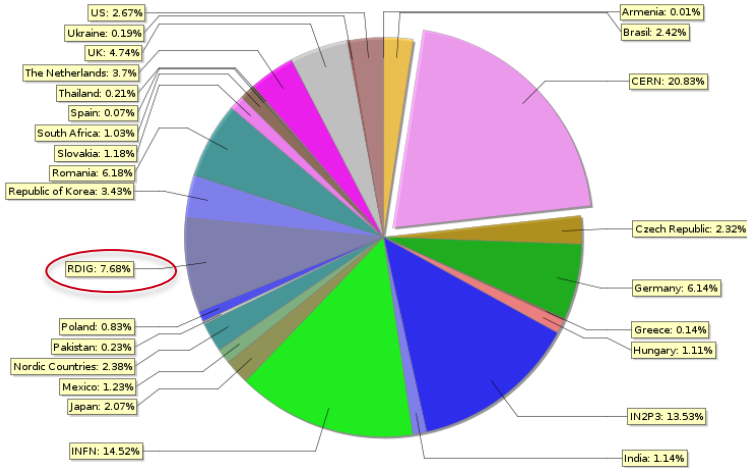
# Network topology



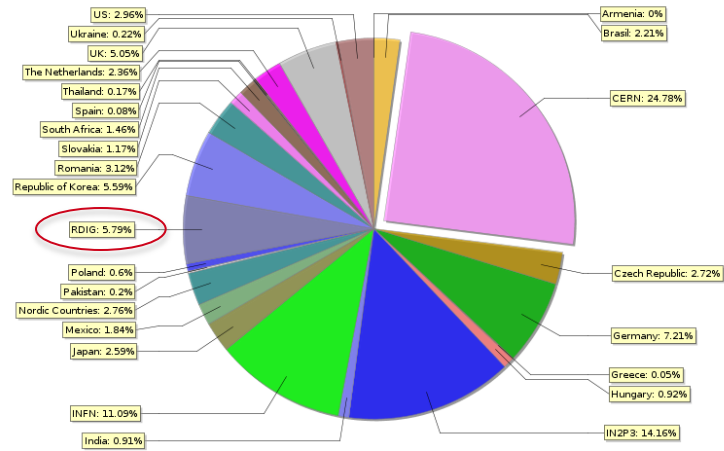
TROITSK, MEPH and SPbSU have individual connections

# RDIG production in last year (till April) vs previous

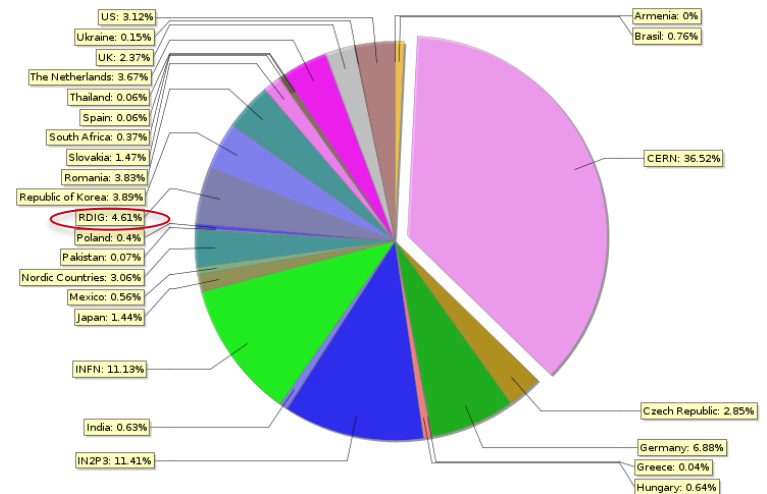
Total CPU hours for ALICE jobs



Total wall time kSI2K hours for ALICE jobs

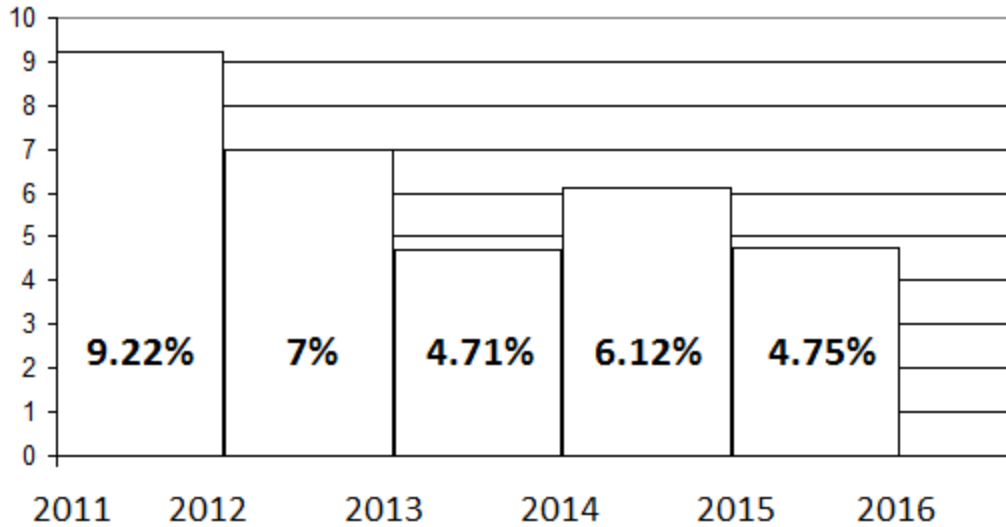


DONE jobs



**CPU usage: 7.68% vs 4.81%**  
**Done jobs: 4.61% vs 5.9%**  
**Wall time in kSI2K hours: 5.79% vs 7.35%**

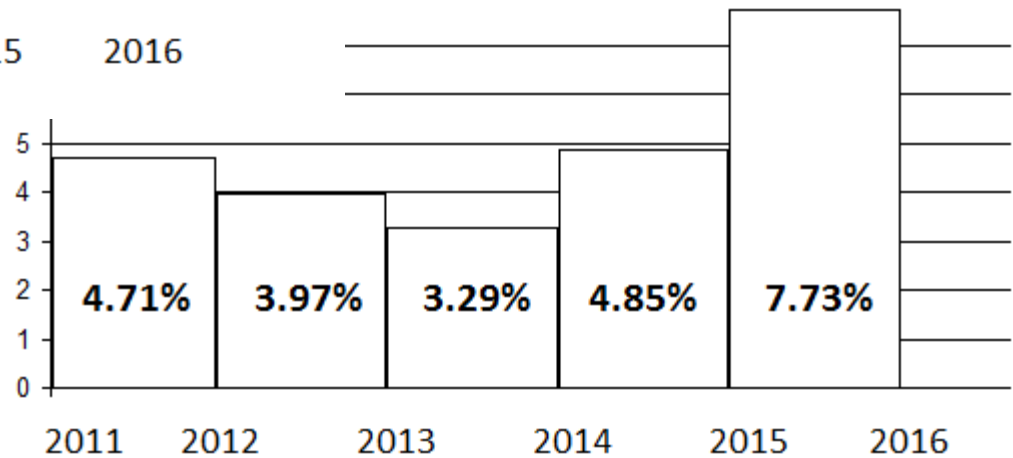
# RDIG production from April 2011 till April 2016



**CPU time share is growing, but the percentage of done jobs decreases.... Why?**

## DONE JOBS

**Old CPUs, network problems, small sites...**



## Total CPU hours for ALICE jobs

# RDIG resources in 2016

	HEP SPEC2006/slot		HEP SPEC2006 For ALICE in 2016	Disks (TB)		CE vs 2015
	2015 year	2016 year		2015 year	2016 year	
SPbSU	8,00	11,77	4 804,00	58,00	128,00	+280 Cores/ 13,5 HepSpec06
PNPI	11,00	11,00	660,00	44,00	44,00	
JINR	10,40	12,00	5 136,00	428,00	448,00	Update CPU HS 10,4 to 12
RRC-KI	11,00	11,00	3 300,00	330,00	330,00	
Troitsk	9,28	9,28	320,16	116,00	116,00	
ITEP	9,00	9,00	1 575,00	139,00	139,00	
IHEP	8,60	8,60	5 667,40	270,00	270,00	
MEPHI	8,74	8,74	769,12	40,00	40,00	
<b>SUM</b>			22 231,68		1 515,00	
<b>REBUS PLEDGES</b>			<b>21679</b>		<b>1568</b>	
%			107		97	

## Software update on Russian sites.

Site name	xrootd version
SPbSU	v4.2.2, EOS v0.3.160 on xrootd v3.3.6 on CentOS 7
PNPI	v4.3.0
JINR	v3.3.4 – Update in progress with hardware upgrade
RRC-KI	v4.1.1.
Troitsk	v4.3.0
IHEP	v20140506-4d557f2 from tarball on Debian
IHEP	v4.2.3
MEPHI	EOS v0.3.35 on xrootd v3.3.6

# Conclusions

- Hardware update on JINR and on SPbSU
- Most of the sites connected to LHCONE
- The last version of xrootd installed (or being installing) on all sites
- All sites work pretty stable

## Plans:

- Connect other sites to LHCONE
- Include new sites to WLCG





Thank you for your attention!