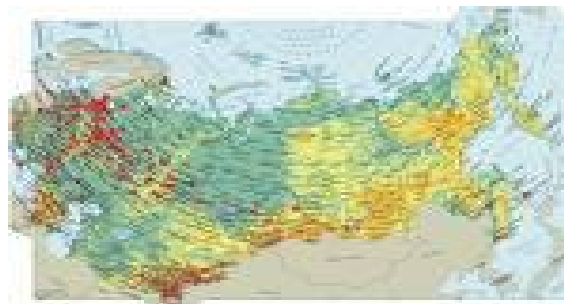
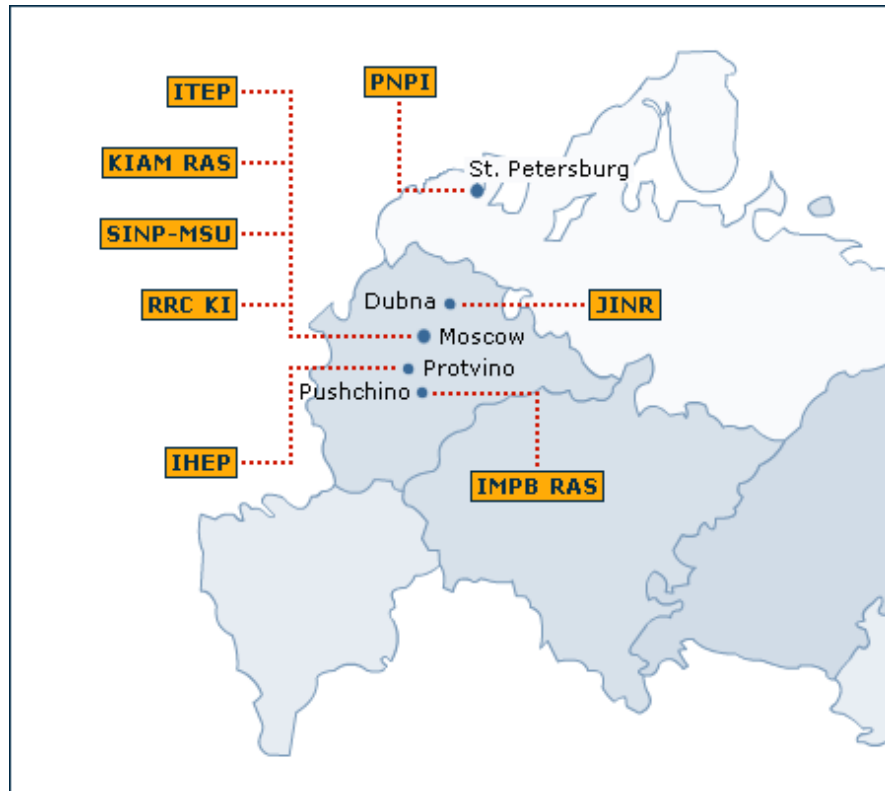


SA1 in Russian Federation

Alexander Kryukov (SINP MSU)

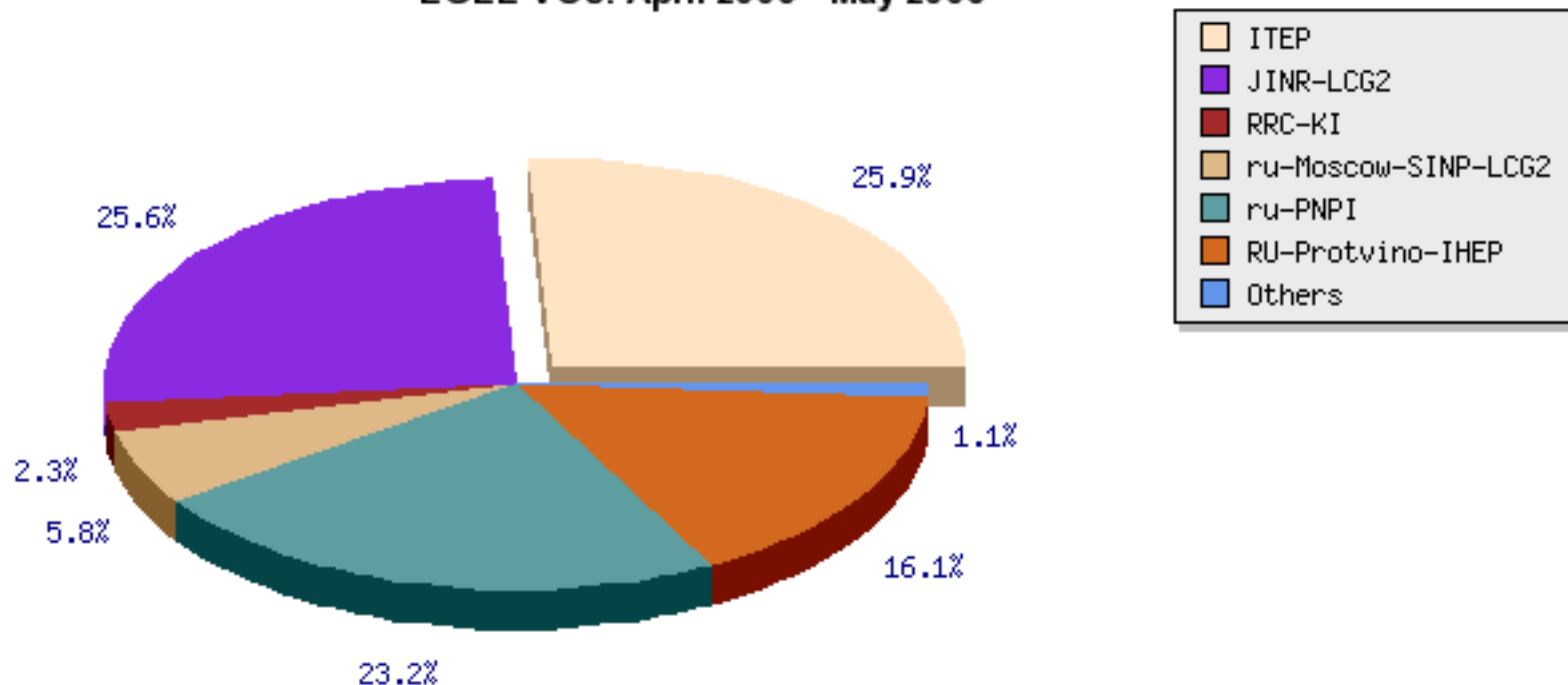




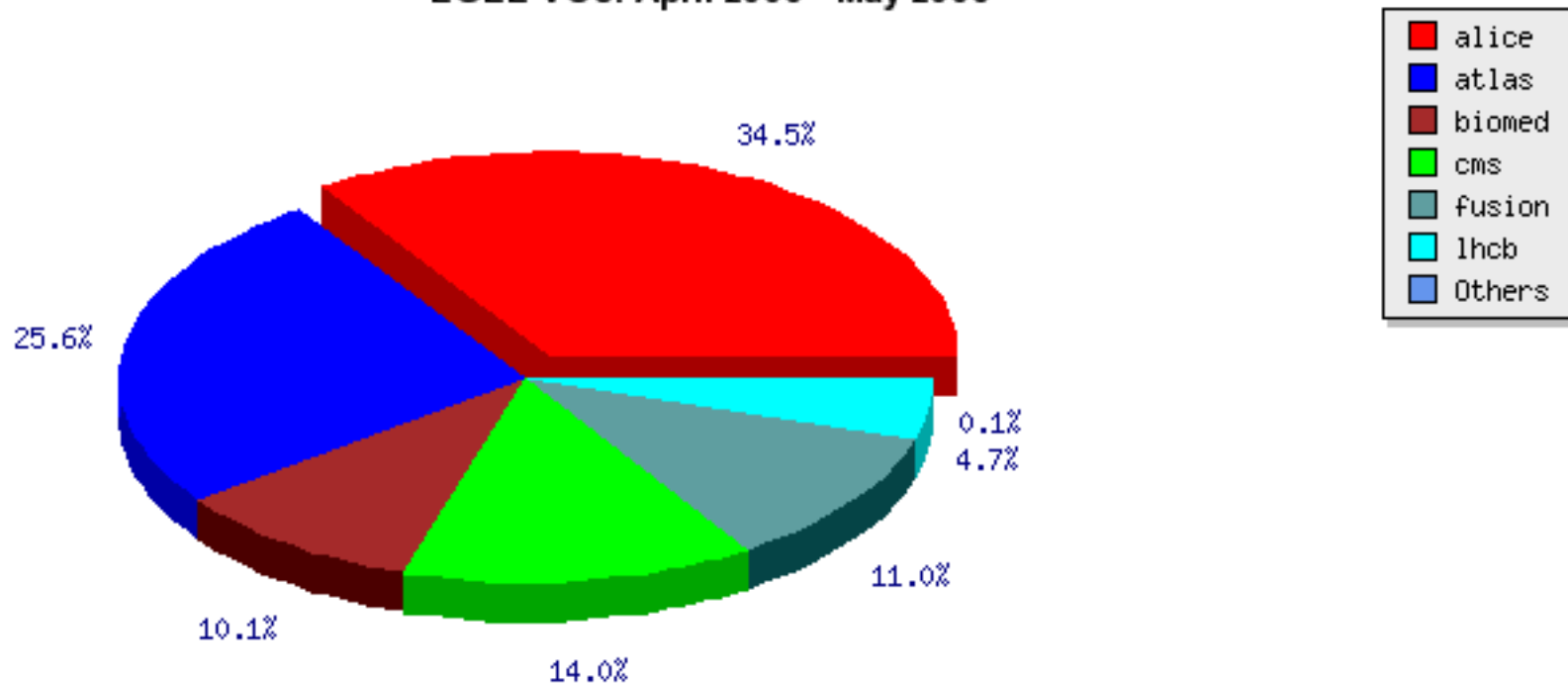
- **Nine** Institutes from Russia made up the consortium **RDIG** (*Russian Data Intensive GRID*) as a national federation in the **EGEEIII** project:
- **IHEP** - Institute of High Energy Physics (Protvino),
- **IMPB RAS** - Institute of Mathematical Problems in Biology (Pushchino),
- **ITEP** - Institute of Theoretical and Experimental Physics (Moscow),
- **JINR** - Joint Institute for Nuclear Research (Dubna) ,
- **KIAM RAS** - Keldysh Institute of Applied Mathematics (Moscow),
- **PNPI** - Petersburg Nuclear Physics Institute (Gatchina),
- **RRC KI** - Russian Research Center “Kurchatov Institute” (Moscow),
- **SINP-MSU** - Skobeltsyn Institute of Nuclear Physics (MSU, Moscow).
- **GC RAS** – Geophysical Center of RAS

- **19 resource centers**
 - 9 – EGEE partners
 - 10 – non-EGEE partners
- **1 PPS site in KIAM RAS**
 - Use XEN virtualization technology to bunch set of services in one box
- **CPU**
 - Physical – 2400 kernels
 - 5500 kSI2K
- **Storage**
 - HDD – 725TB

Russia Normalised CPU time per SITE
EGEE VOs. April 2008 - May 2008



Russia Normalised CPU time per VO
EGEE VOs. April 2008 - May 2008



(C) CESGA 'EGEE View': Russia / normcpu / 2008:4-2008:5 / SITE-VO / egee (x) / ACCBAR-LIN / i

2008-05-07 20:26 UTC

- **ROC Management**
 - Coordination of EGEE activity in Russia
 - Dissemination EGEE information among partners
 - Collecting feedback
 - Resources planning
- **Security**
 - Incident investigation
- **Operation**
 - Middleware deployment and support
 - COD
 - PPS
 - RC administrator support
 - User, regional VO's and RC register service
 - RU Certificate authority
- **User support**
 - Regional user support (Help desk)
 - TPM

- **Infrastructure VO's (all RC's):**
 - dteam
 - ops
- **Most RC support the following WLCG/EGEE VO's**
 - Alice
 - Atlas
 - CMS
 - LHCb
- **Supported by some RC's:**
 - gear
 - Biomed
 - Fusion
- **Regional VO's**
 - Ams, eearth, photon, rdteam, rgstest, fusion_grid

- **Aims: to support the national scientific projects and to test new application areas before including them into the global EGEE infrastructure**
- **Currently RDIG support the following VOs (<http://rdig-registrar.sinp.msu.ru>):**
 - eEarth (eEarth Project, <http://www.e-earth.ru>)
 - PHOTON (projects PHOTON/SELEX
<http://egee.itep.ru/PHOTON>, <http://www-selex.fnal.gov>)
 - AMS (AMS project, <http://ams.cern.ch>)
 - Fusion_rdig (ITER project, <http://www.iter.org>)

- **Specific RDIG monitoring**
 - SAM collector
 - Accounting collector
 - ...

RDIG Sites Summary - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://grid.sinp.msu.ru/rdig/rocsummary.php

SMS CERN GRID Daily SINP Call Free | Free Call! ФГЗ | Организаци... access (application...

start · A.KRYU... RDIG Sites S... RDIG Accounti... SA1 transition ... EGEE Account... (Untitled)

VO Group: LHC

Click [here](#) for the pie plots

Site	Number of Jobs		Norm Sum CPU (hrs)		Sum CPU (hrs)		Norm Sum Elapsed (hrs)		Sum Elapsed (hrs)	
	Total	%	Total	%	Total	%	Total	%	Total	%
RU-Moscow-KIAM-LCG2	128	0.16%	13	0.01%	13	0.03%	36	0.03%	36	0.07%
ru-Novgorod-NOVSU-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RU-Troitsk-INR-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RU-SPbSU	5044	6.32%	563	0.59%	1478	3.34%	702	0.58%	1842	3.36%
Kharkov-KIPT-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
SU-Protvino-IHEP	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RU-Phys-SPbSU	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ru-Moscow-FIAN-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ru-Moscow-MEPHI-LCG2	86	0.11%	2	0.00%	1	0.00%	3	0.00%	1	0.00%
ru-Chernogolovka-IPCP-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RU-Moscow-KIAM-PPS	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
ru-Moscow-SINP-LCG2	4337	5.43%	4957	5.16%	3343	7.56%	6306	5.24%	4285	7.82%
RU-Protvino-IHEP	13213	16.55%	20915	21.78%	7679	17.37%	25958	21.56%	9532	17.39%
ru-IMPB-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
RRC-KI	655	0.82%	2487	2.59%	993	2.25%	3972	3.30%	1586	2.89%
JINR-LCG2	14439	18.08%	7956	8.29%	2928	6.62%	10175	8.45%	3743	6.83%
ITEP	21819	27.33%	30892	32.17%	11175	25.27%	41188	34.20%	14902	27.19%
ru-PNPI	20127	25.21%	28232	29.40%	16607	37.56%	32084	26.64%	18873	34.44%
ru-Moscow-GCRAS-LCG2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total	79848		96017		44217		120424		54800	

Done

rc:services [RDIG SINP-MSU] - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://grid.sinp.msu.ru/grid/rc/services

SMS CERN GRID Daily SINP Call Free | Free Call! ФГЗ | Организаци... access (application...

start · A.KRYU... rc:services [...] RDIG Accounti... SA1 transition ... EGEE Account... (Untitled)

Login

Search

Trace: » main » services

Главная страница Общая информация Операционный центр РДИГ БАК-РДИГ Ресурсный центр НИИЯФ Группа НИИЯФ

Ресурсный центр НИИЯФ

- О ресурсном центре
- Новости
- Политика РЦ
- Контакты
- Интерфейс пользователя (UI)
- Сервисы РЦ & ЦБГС

Статус

- CE
- SE
- ПО
- ВО
- Задания
- Очереди
- Сертификаты
- Сводка

Внешний мониторинг

- RDIG Мониторинг
- EGEE Accounting

Сервисы РЦ & ЦБГС

НИИЯФ МГУ поддерживает грид-сервисы, перечисленные ниже. В случае проблем, просьба обращаться к ответственным за сервис.

Сервис ¹⁾	Статус ²⁾ / Время теста	Хост	Ответственный	Примечания
LCG02-CE	ERROR 2008-05-08 11:31:22 MSK	lcg02.sinp.msu.ru	С.Зоткин	
LFC	OK 2008-05-08 11:24:38 MSK	lcg04.sinp.msu.ru		
LCG06-CE	OK 2008-05-08 11:17:40 MSK	lcg06.sinp.msu.ru	С.Зоткин	
Site BDII	OK 2008-05-08 10:47:41 MSK	lcg06.sinp.msu.ru	С.Зоткин	
LFC	OK 2008-05-08 07:25:39 MSK	lcg07.sinp.msu.ru	Л.Шамардин	Корневой каталог LFC для российских ВО
LCG13-SE	OK 2008-05-08 10:44:07 MSK	lcg13.sinp.msu.ru		Classic
R-GMA	OK 2008-05-08 07:24:00 MSK	lcg13.sinp.msu.ru	А.Грибушин	

Done

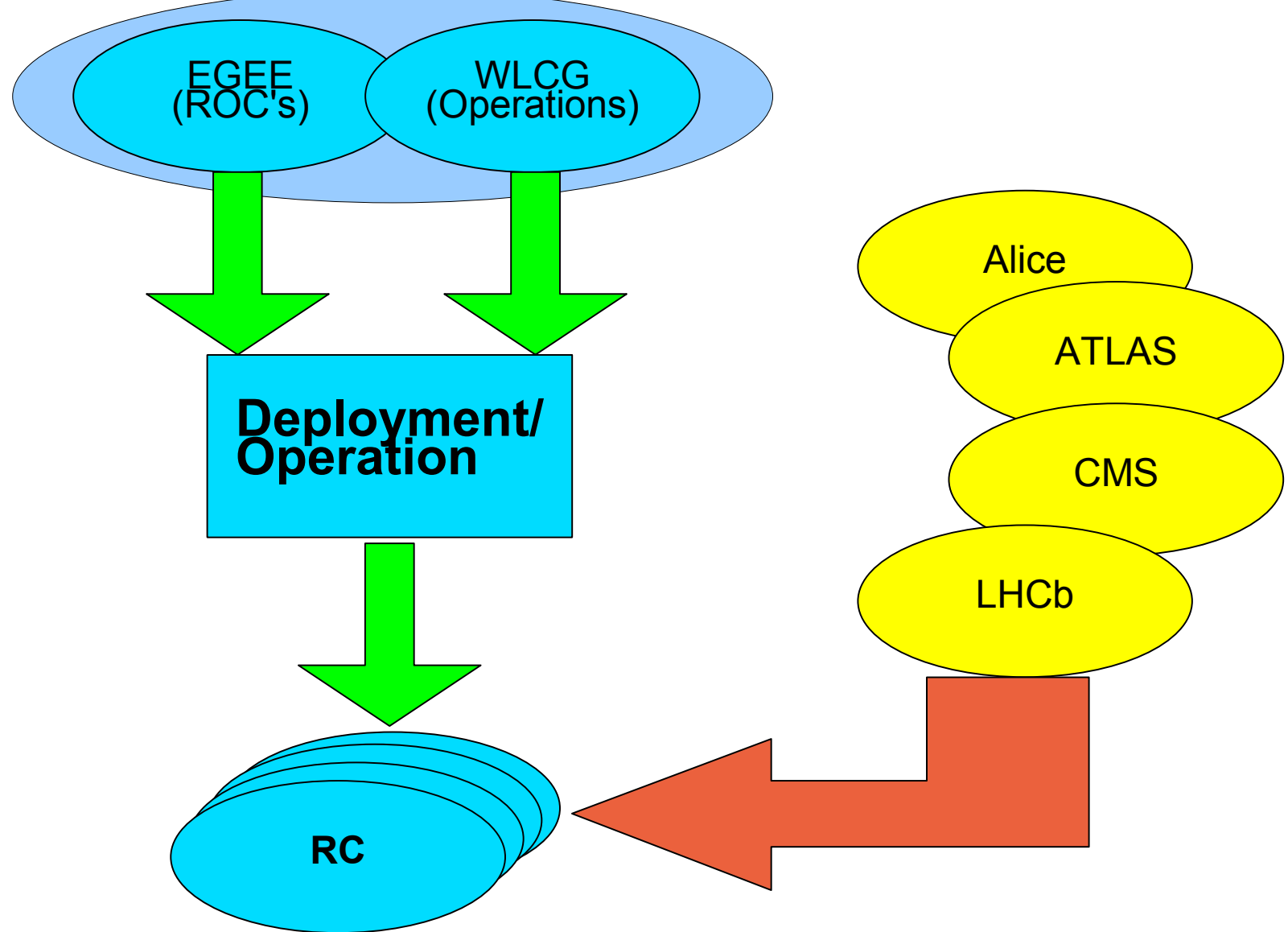
- **ROC Web-site**
 - <http://grid.sinp.msu.ru>
- **RDIG Web-site**
 - <http://egee-rdig.ru/>

PROBLEMS AND RISKS

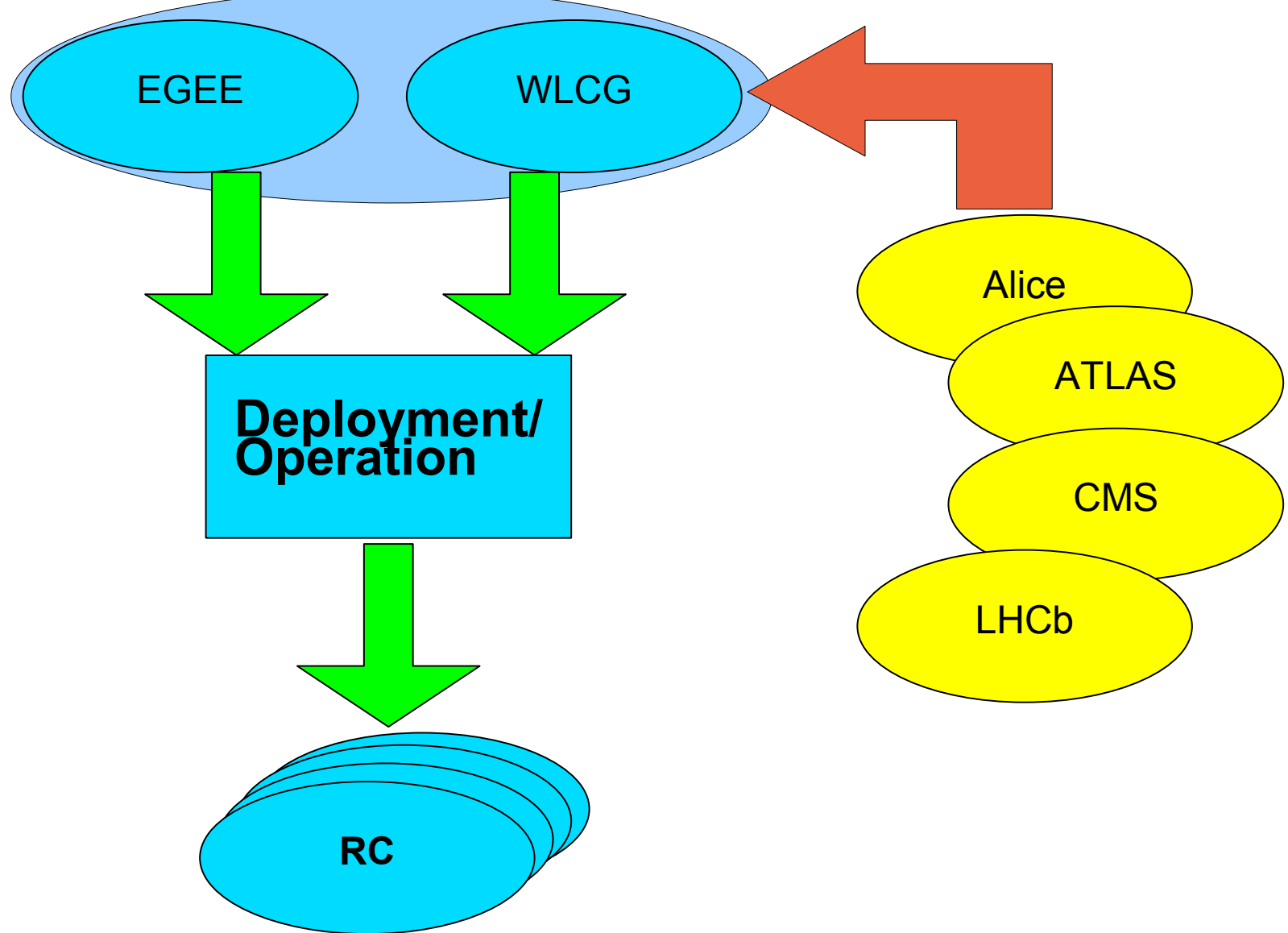
Quote from N.Thackray

- **To get an early agreement from the main VOs on the proposed changes to the release process**
 - The proposal is based on current, “unofficial” practices by the VOs so hopefully not much negotiation will be needed.

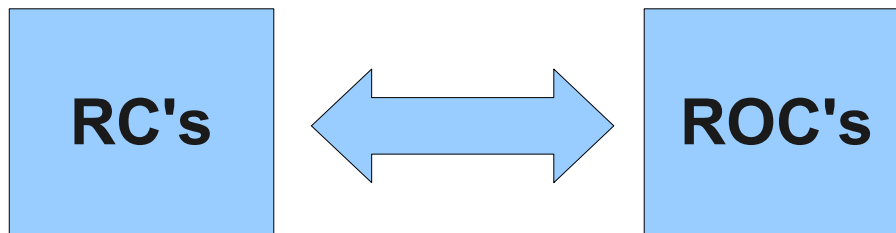
- **The main problem is coordination with LHC VO's.**
 - LHC are starting
 - Experiments are sending a lot of additional requests to RC:
 - Installation of specific SW
 - Specific customization
 - Additional services (VOBox, xrootd, ...)
 - Experiments have own tests/certificate procedure/"homemade" resource brokers and etc and etc.
 - It is not a part of SAM or other standard procedure.
 - System administrators have no information about the test result.
 - All these are come to RC passing over EGEE/WLCG
 - No documentation
 - Require unstandardised action from system administrators
 - Usually it should be restore by hand after updating gLite
- **This leads to the problem with management of infrastructure**
- **This leads to the problem with security of Grid**
- **This leads to the problem with operation of Grid**



- **EGEE/WLCG must (at least) review and approve the VO specific requests to RC.**
 - Procedural documents for system administrator should be mandated
- **All requested should be come from single point - deployment group.**
 - Possible it is necessary to introduce LHC VO's peoples.



- **SLD**
 - It should be contract between producers and customers of services



- **SLD**

- It should be contract between producers and customers of services
- Exception is (may be) LHC VO's
 - Because (often) ROC is responsible for LHC VO's

