



# Running an ARC-based national grid system in Ukraine

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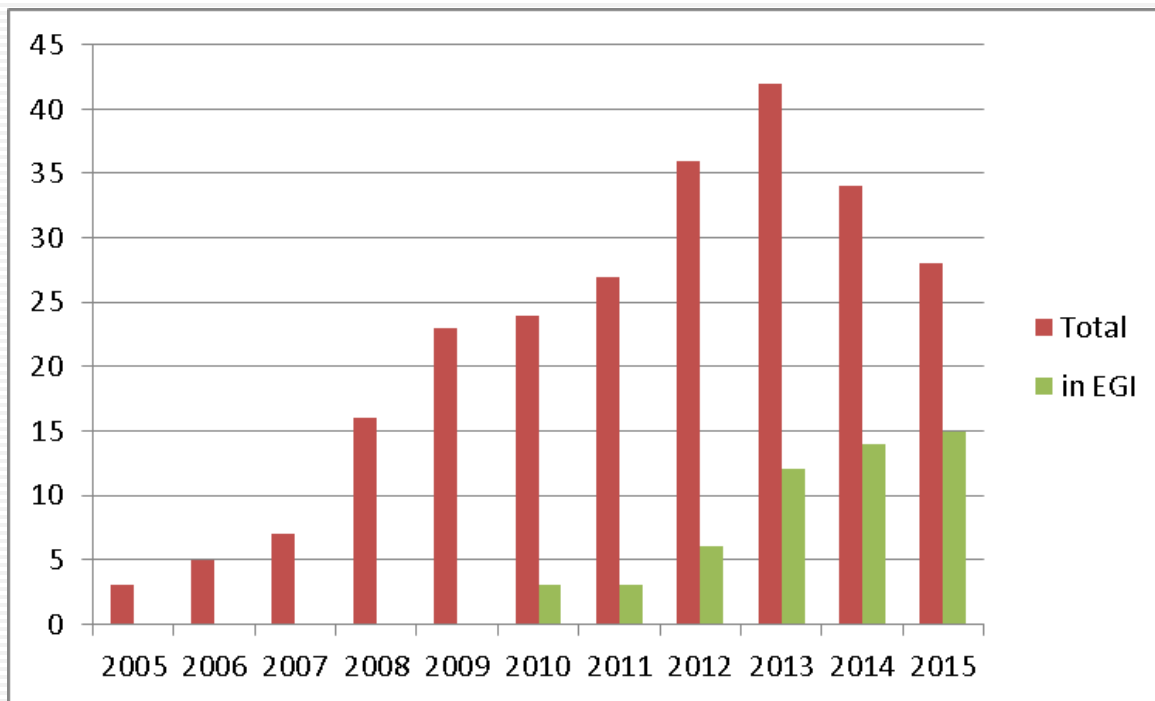
NorduGrid 2015



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## UNG site deployment stats



- **Nov 2011** – MoU with EGI signed
- Most sites has **~32 CPUs** and had build following the myth that local cluster is required to access the grid-infrastructure

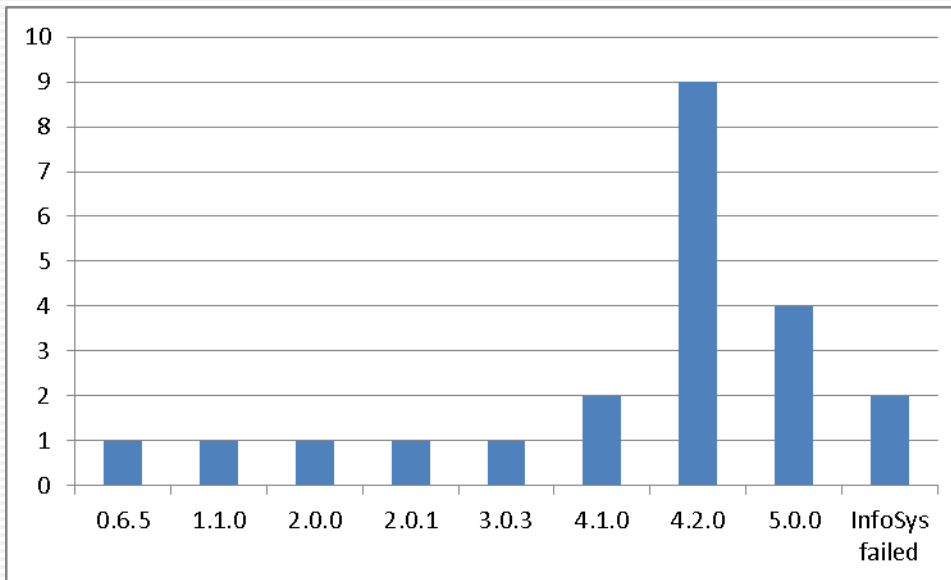


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Jun 1 2015 stats (based on GIIS/ARIS LDAP search)

22 ARIS has registered in GIIS



In practice only NGI-UA sites run the latest software that works and can be used.



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## UNG Infrastructure services

- ARC sites with A-REX and ARIS installed
  - 2 GIIS indexes
  - Nagios box with regular test (based on probes dated back to 2010)
  - Accounting to SGAS by means of **arc-ur-logger** and/or **JURA**
- + Central VOMS service powered by PHP VOMS Admin
- + Storage infrastructure (DPM, StoRM and dCache + LFC files index)



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## NGI-UA Infrastructure services

- ARC sites with A-REX and ARIS installed
  - Site-BDII that fetches ARIS info
  - 3 Top-BDII instances
  - Nagios box with regular test (latest EGI probes)
  - Central banning ARGUS
  - Accounting to APEL by means of **arc-blahp-logger + native APEL client**
- + Central VOMS service powered by PHP VOMS Admin
- + Storage infrastructure (DPM, StoRM and dCache + LFC files index)
- + CVMFS + VOBOXes for ALICE/CMS
- + EMI WMS that failed to submit jobs to ARC



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## EMIR Test Deployment

DSR: [dsr.grid.org.ua](http://dsr.grid.org.ua)

GSR: [emir.grid.org.ua](http://emir.grid.org.ua)

- Service should register to VO [emir.grid.org.ua](http://emir.grid.org.ua)
  - PVA had been extended to support [services registration](#)
- EMIR DSR fetches allowed DNS from PVA REST API
- EMIR-SERP to register service to DSR
- DSR registers to GSR

+ ARC EMIR monitor: <http://grid.org.ua/emirmon>

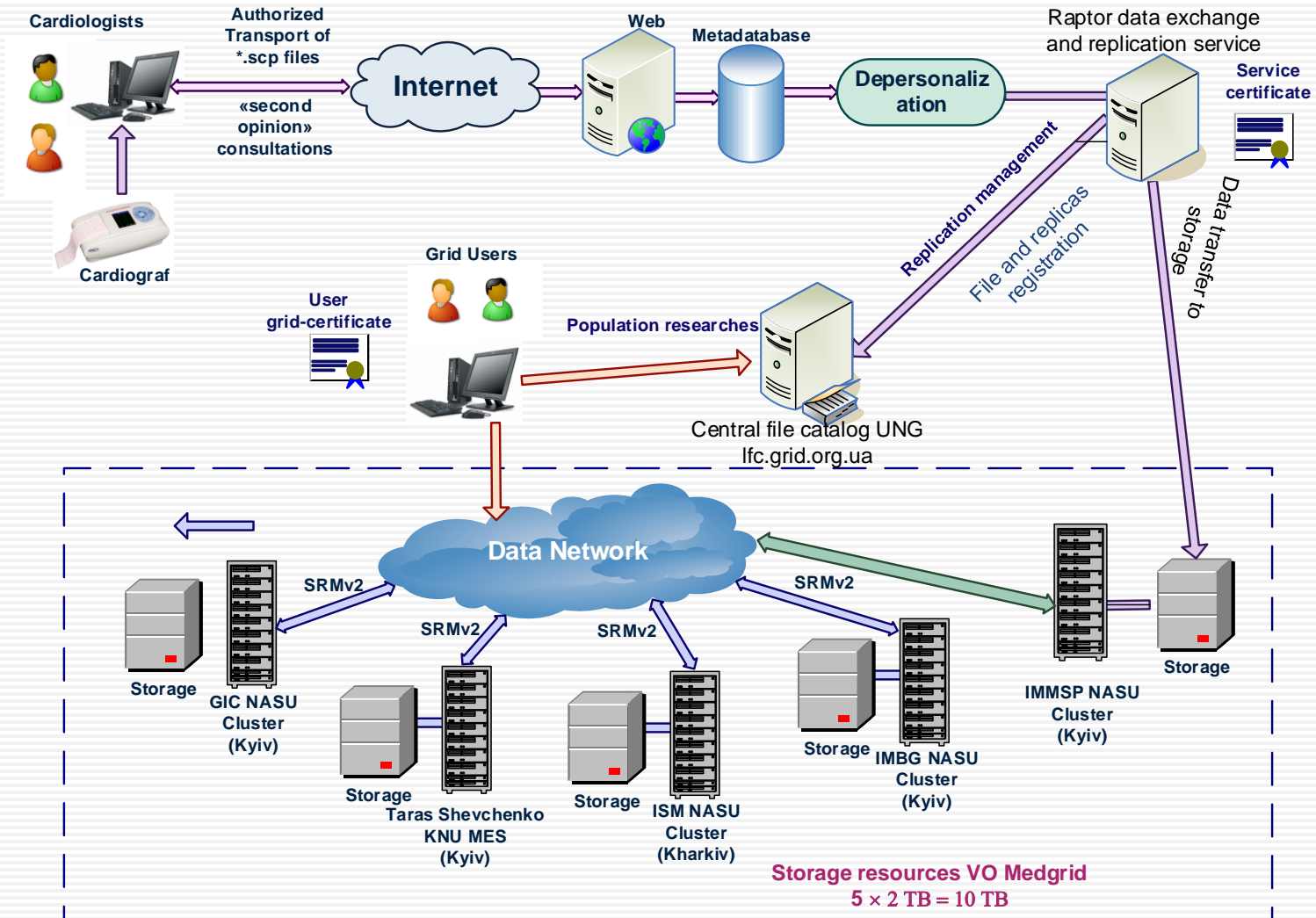
+ Instructions for admins and users in Ukrainian



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## Distributed reliable storage infrastructure





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Thank you for  
kind attention!