

# The Worldwide LHC Computing Grid

**WLCG Milestones for 2007**  
**Focus on Q1 / Q2**

Collaboration Workshop, January 2007



Worldwide LHC Computing Grid  
Distributed Production Environment for Physics data Processing





## Q1 2007 - Tier0 / Tier1s

1. Demonstrate Tier0-Tier1 data export at **65%** of full nominal rates per site using experiment-driven transfers
  - Mixture of **disk / tape** endpoints as defined by experiment computing models, i.e. 40% tape for ATLAS; transfers driven by **experiments**
  - Period of at least one week; daily VO-averages may vary (~normal)
2. Demonstrate Tier0-Tier1 data export at **50%** of full nominal rates (as above) in conjunction with T1-T1 / T1-T2 transfers
  - Inter-Tier transfer targets taken from ATLAS DDM tests / CSA06 targets
3. Demonstrate Tier0-Tier1 data export at **35%** of full nominal rates (as above) in conjunction with T1-T1 / T1-T2 transfers **and** Grid production at Tier1s
  - Each file transferred is read at least once by a Grid job
  - Some explicit targets for WMS at each Tier1 need to be derived from above
4. Provide SRM v2.2 endpoint(s) that implement(s) all methods defined in SRM v2.2 MoU, **all critical** methods pass tests
  - See attached list; Levels of success: threshold, pass, success, (*cum laude*)



## Q2 2007 - Tier0 / Tier1s

- As Q1, but using SRM v2.2 services at Tier0 and Tier1, gLite 3.x-based services and SL(C)4 as appropriate
- Provide services required for Q3 dress rehearsals
  - Detail to be provided



## Megatable Extract

<b>Tier1 Centre</b>	<b>ALICE</b>	<b>ATLAS</b>	<b>CMS</b>	<b>LHCb</b>	<b>Target</b>
IN2P3, Lyon	6	109.2	31.5	10.5	157.2
GridKA, Germany	11.9	88.2	26.3	6.3	132.7
CNAF, Italy	5.2	88.2	36.8	6	136.2
FNAL, USA	-	-	105	-	105
BNL, USA	-	287.2	-	-	287.2
RAL, UK	2.4	102.2	26.3	6.3	137.2
NIKHEF, NL	3.4	109.2	-	9.1	121.7
ASGC, Taipei	-	65.1	26.3	-	91.4
PIC, Spain	-	49.7	10.5	3.5	63.7
Nordic Data Grid Facility	4.7	49.7	-	-	54.4
TRIUMF, Canada	-	48.3	-	-	48.3
US ALICE	8.2	-	-	-	8.2
<b>TOTALS</b>	<b>41.8</b>	<b>997</b>	<b>262.7</b>	<b>41.7</b>	<b>1343.2</b>