

Current Status of CMS Tier-2 @ KNU

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*CMS-KR Meeting
KNU, Sep. 29, 2009*

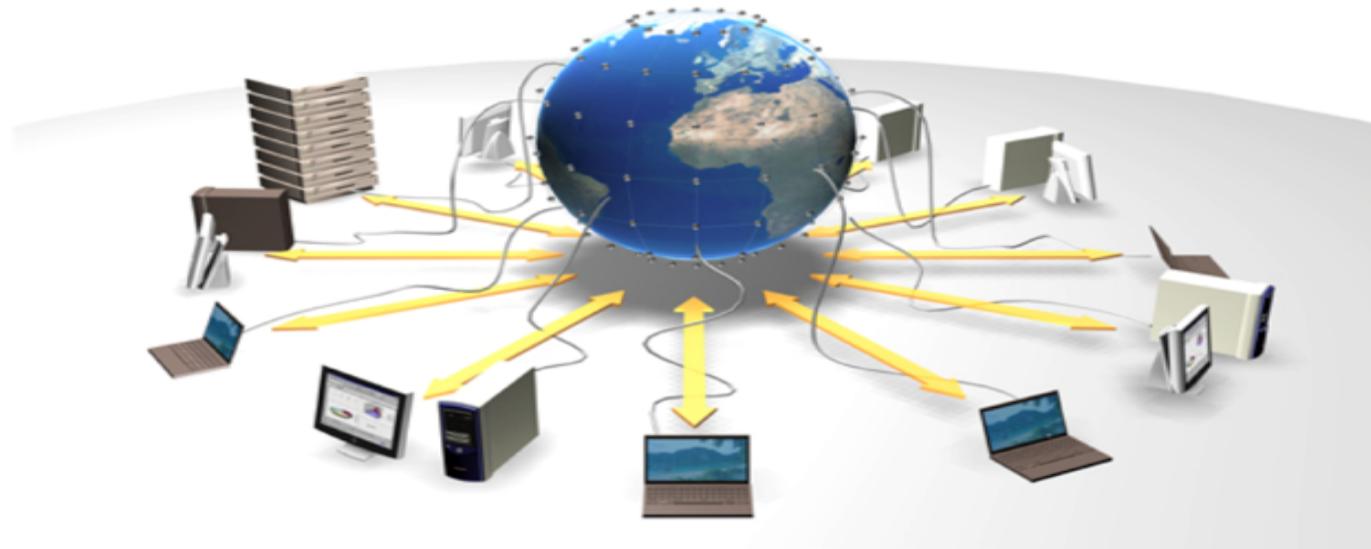
<http://t2-cms.knu.ac.kr>

- Home
- T2_KR_KNU
 - + How to use T2_KR_KNU?
 - + DOE Certificate
 - + LCG User Registration
 - + KNU Account Registration
 - + KNU Network
 - + CMS Tier Site DB
 - + CMS Tier-2 Activities
 - + CCRC08
 - + CSA07
 - + LoadTest 07
 - + CSA06
 - + DBS Discovery
- Monitoring Tools
 - + Ganglia
 - + dCache Pool Usage
 - + GStat
- Documents
 - + LCG User Guide
 - + Grid Acceptable Use Policy
- Related Projects
 - + LHC Computing Grid

KNU Tier2 Center for CMS



Welcome to the CMS Tier2 Center at Kyungpook National University in Korea.



This web portal is your gateway to the CMS Tier2 center at Kyungpook National University (KNU) in Korea. This CMS Tier-2 center is being supported by the Ministry of Education, Science and Technology and is being maintained by the Center for High Energy Physics of the KNU. We will support the CMS computing needs for Korean and overseas collaborators. For your general comments, questions, or reports of any problems regarding to this Center, please email to lcg_knu@knu.ac.kr.

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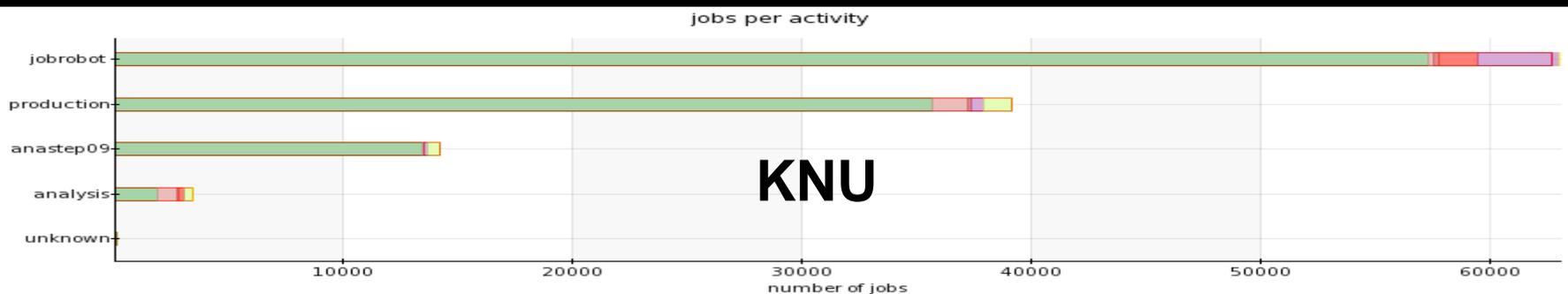
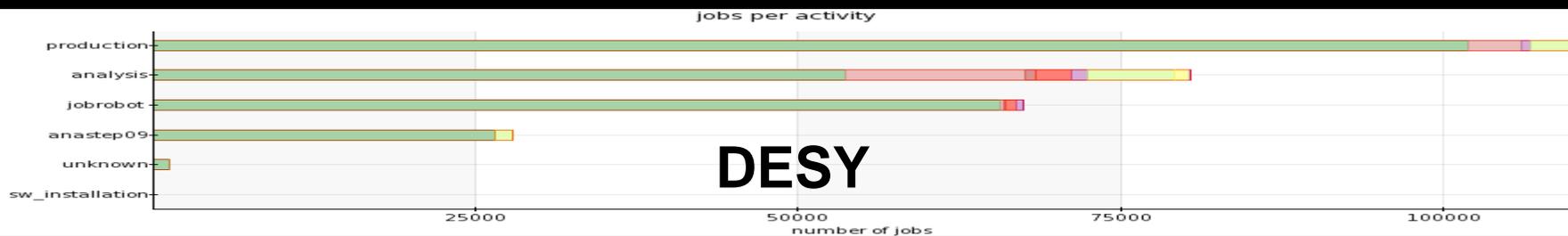
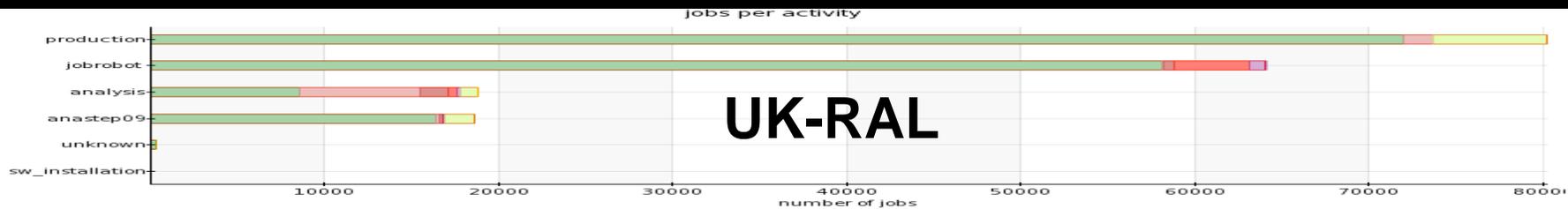
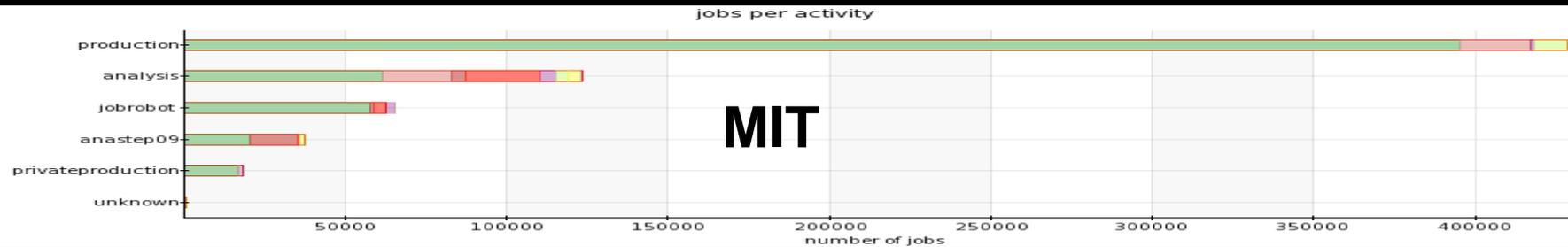


CMS Computing Resources in KNU

	KNU
CPU (kSI2k)	400->500
Disk Storage (TB)	165->191 (16 of Disk Servers)
WAN (Gbps)	20
Grid System	LCG
CMS Computing Role	Tier-2

- Upgrade OS: SL4->SL5
- Old 32 bit PCs (70 kSI2k) are retired.

Recent Performances in KNU-Tier-2 (I)

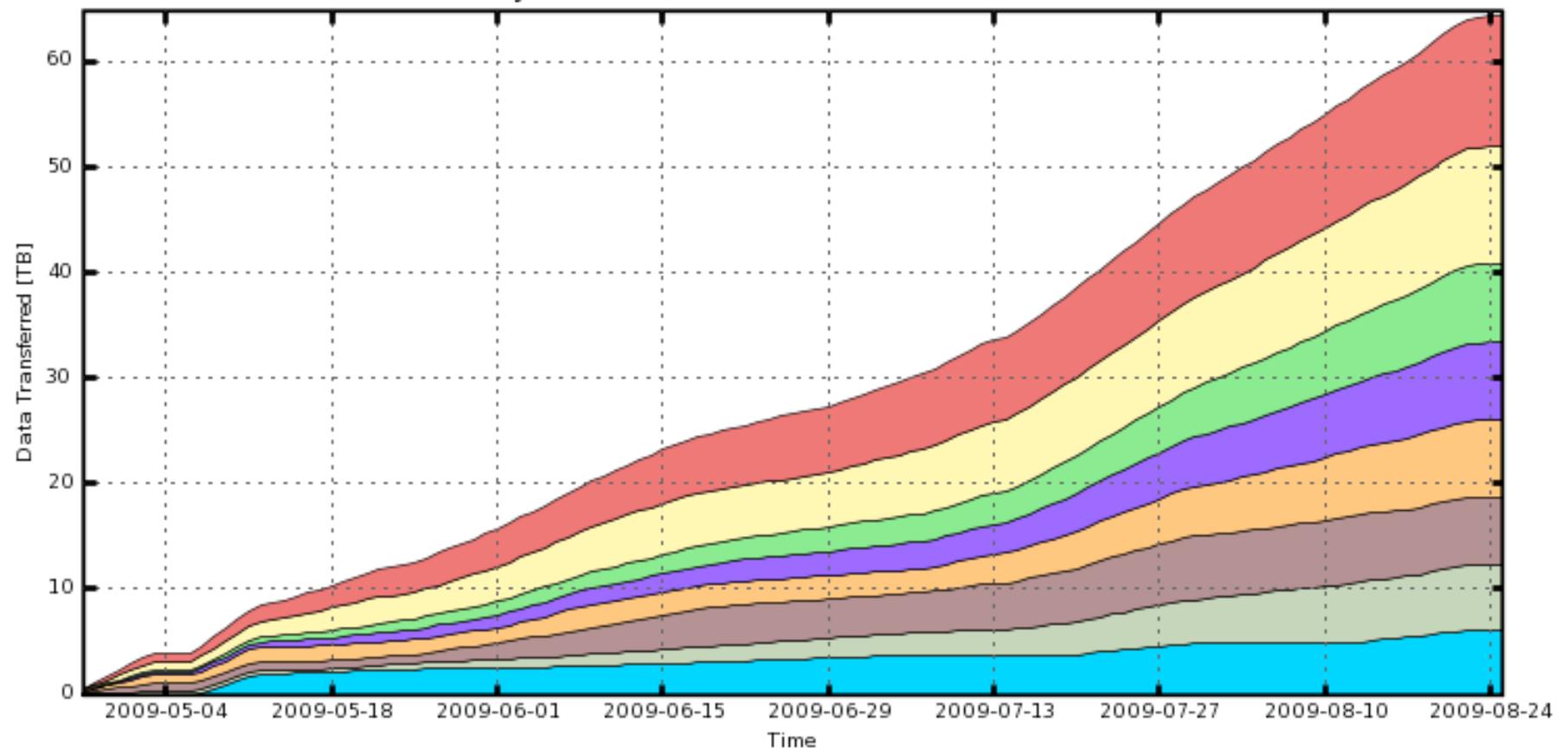


□ submitted
 □ app-succeeded
 □ application-failed
 □ site-failed
 □ aborted
 □ cancelled
 □ app-unknown
 □ pending
 □ running

Recent Performances in KNU-Tier-2 (II)

KNU -> T1

CMS PhEDEx - Cumulative Transfer Volume
120 Days from Week 17 of 2009 to Week 34 of 2009



T2_KR_KNU to T1_DE_FZK_Buffer
T2_KR_KNU to T1_US_FNAL_Buffer
T2_KR_KNU to T1_IT_CNAF_Buffer

T2_KR_KNU to T1_TW_ASGC_Buffer
T2_KR_KNU to T1_ES_PIC_Buffer
T2_KR_KNU to T1_FR_CCIN2P3_Buffer

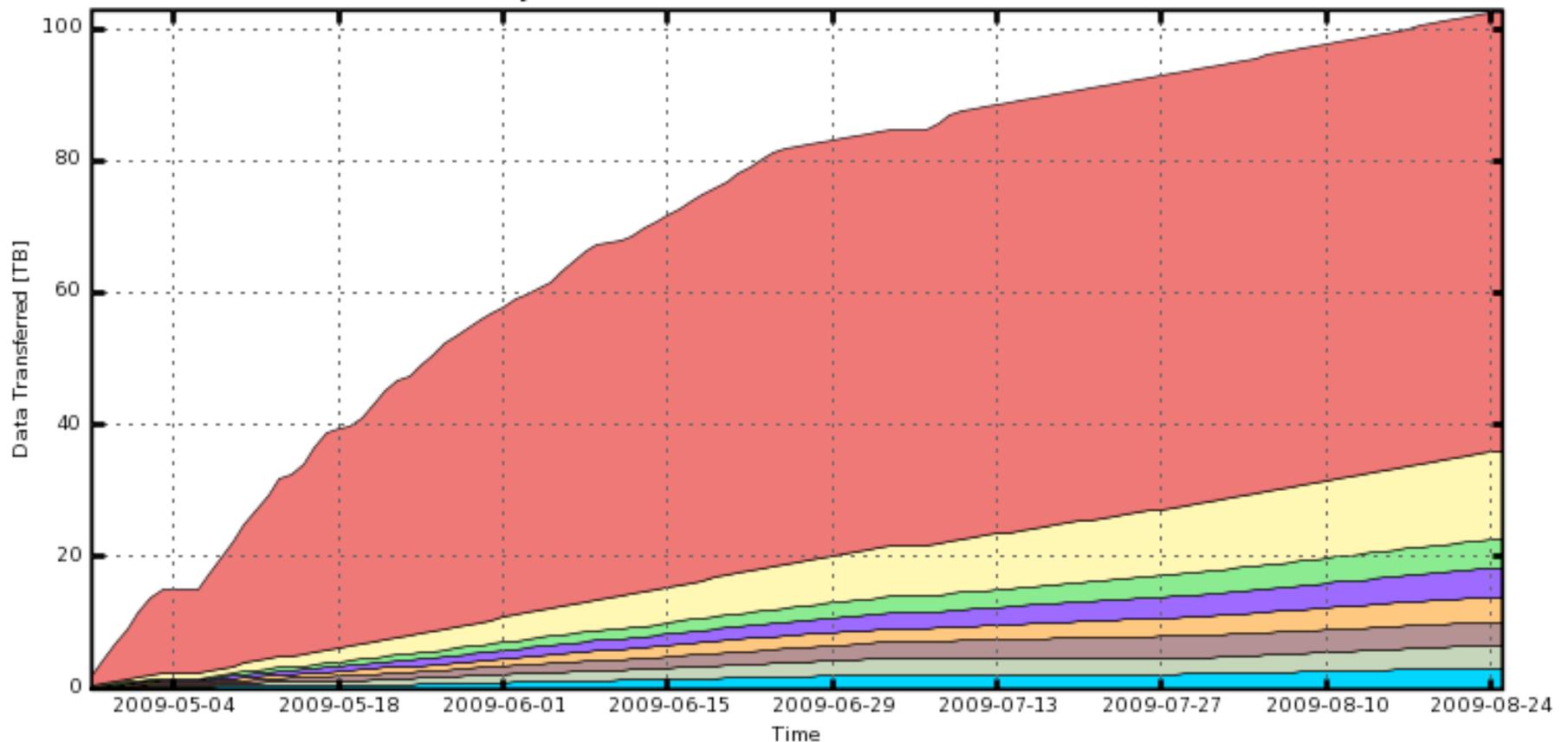
T2_KR_KNU to T1_CH_CERN_Buffer
T2_KR_KNU to T1_UK_RAL_Buffer

Total: 64.37 TB, Average Rate: 0.00 TB/s

Recent Performances in KNU-Tier-2 (III)

T1 -> KNU

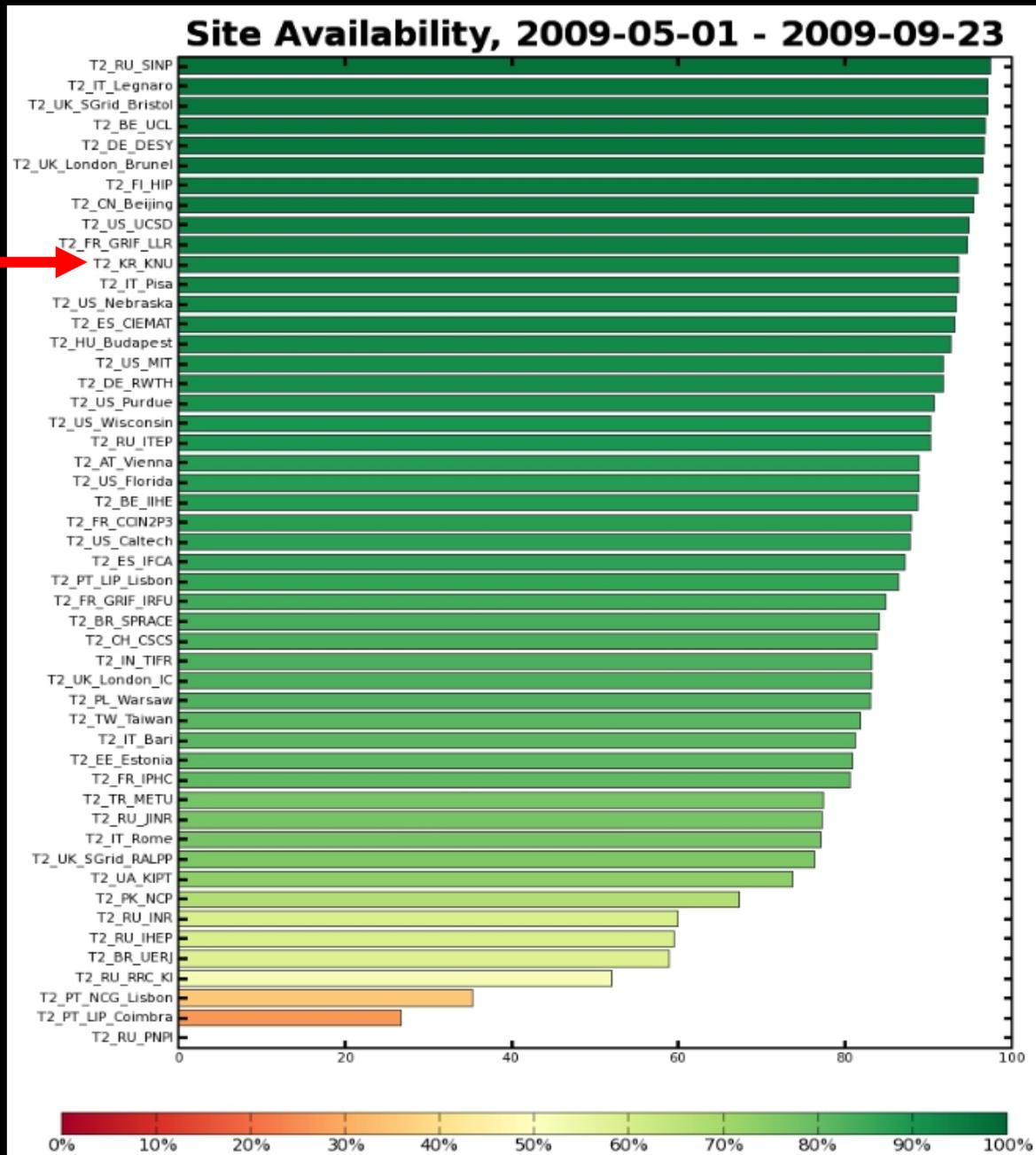
CMS PhEDEx - Cumulative Transfer Volume
120 Days from Week 17 of 2009 to Week 34 of 2009



- T1_UK_RAL_Buffer to T2_KR_KNU
- T1_US_FNAL_Buffer to T2_KR_KNU
- T1_FR_CCIN2P3_Buffer to T2_KR_KNU
- T1_CH_CERN_Buffer to T2_KR_KNU
- T1_TW_ASGC_Buffer to T2_KR_KNU
- T1_DE_FZK_Buffer to T2_KR_KNU
- T1_IT_CNAF_Buffer to T2_KR_KNU
- T1_ES_PIC_Buffer to T2_KR_KNU

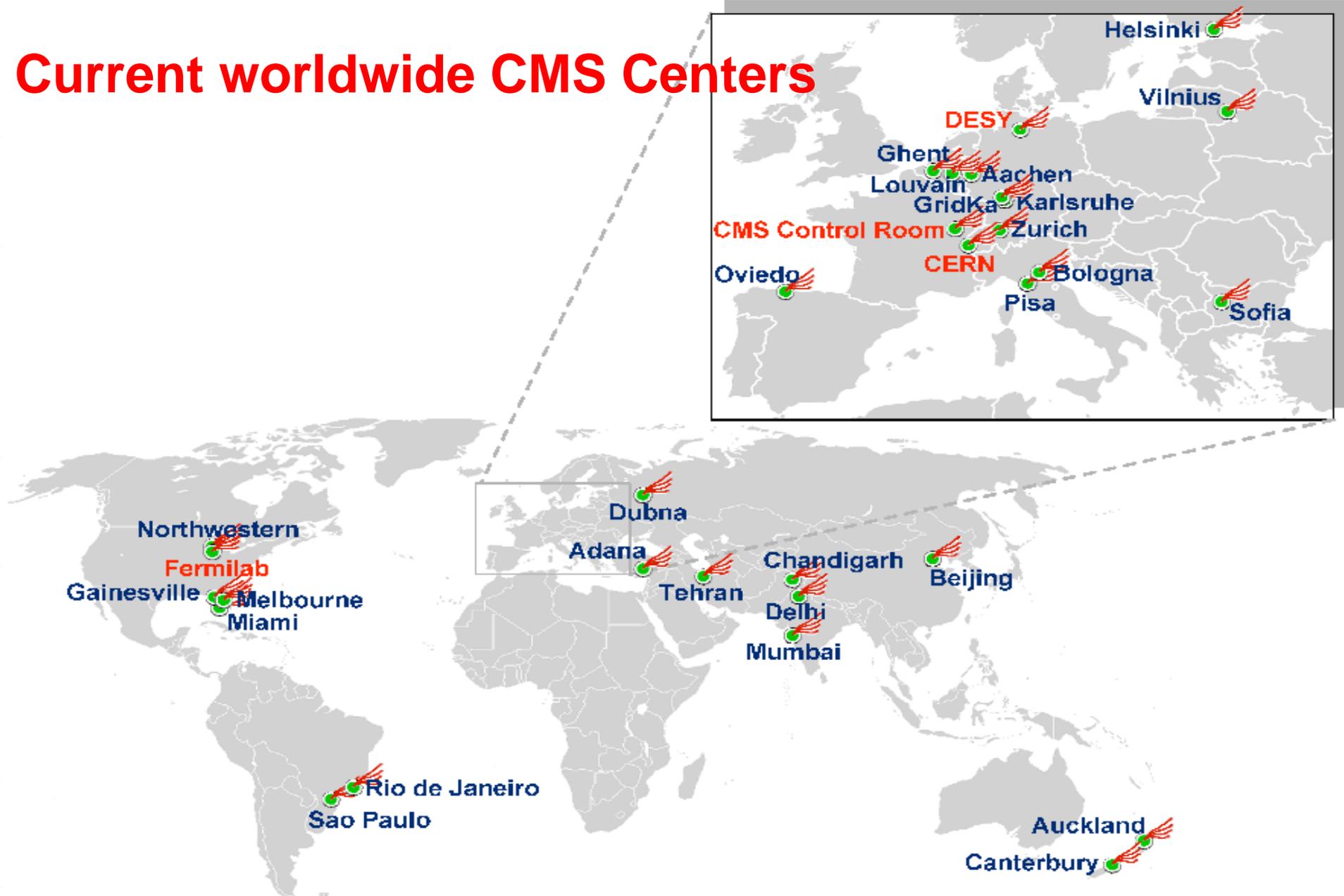
Total: 102.38 TB, Average Rate: 0.00 TB/s

Tier-2 Site Ranking



Establishing CMS Center (I)

Current worldwide CMS Centers



Establishing CMS Center (II)

- **Communication focal point for students, postdocs & faculties.**
- **CMS operations:**
 - **Sub-detector data quality monitoring**
 - **Data analysis**
 - **CMS computing operation**
 - **Remote shift**
- **Outreach Activities:**
 - **Increase CMS visibility**
 - **Attract new students**
 - **Tour and discussions with physicists**
 - **Live display, posters and other exhibits**

Summary

- **Tier-2 at KNU is running correctly**
- **Computing resources:**
 - **CPU: 500 kSI2k**
 - **Disk: 191 TB**
 - **WAN: 20 Gbps (KREONET:10 G, KOREN:10 G)**
- **Local user support**
 - **RS Graviton search by Dr. Chung, J.H.**
 - **W' study by Chang, S.H.**
 - **CRAFT09 cosmic ray data analysis by Hur, S.G.**
- **We are willing to support KR-CMS users.**