

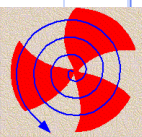


ALICE



The 7th Asian Tier Center Forum (ATCF7)

- Strengthen collaboration among Asian countries which are involved in Grid computing communities like LIGO (LDF), Belle-2, LHC (ALICE, ATLAS, CMS, LHCb), .
- Started in 2015. (Forum Physically meets once in a year.)
- Hosted by Suranaree University of Technology(SUT) together with Global Science experimental Data hub Center (GSDC), Korea Institute of Science and Technology Information (KISTI).
- Held in Jeju Island, Republic of Korea during 1–3 Nov 2023.
- Perspectives on Asian grid computing community from LHC and non-LHC experiments representatives.
- Co-located with the annual **KREONet workshop**, therefore, met with international research and education network providers in Asia with their roadmap and milestones for LHCONE networking.
- Mr Puneet Patel TIFR and Myself attended the ATCF-7 with full support from ATCF.



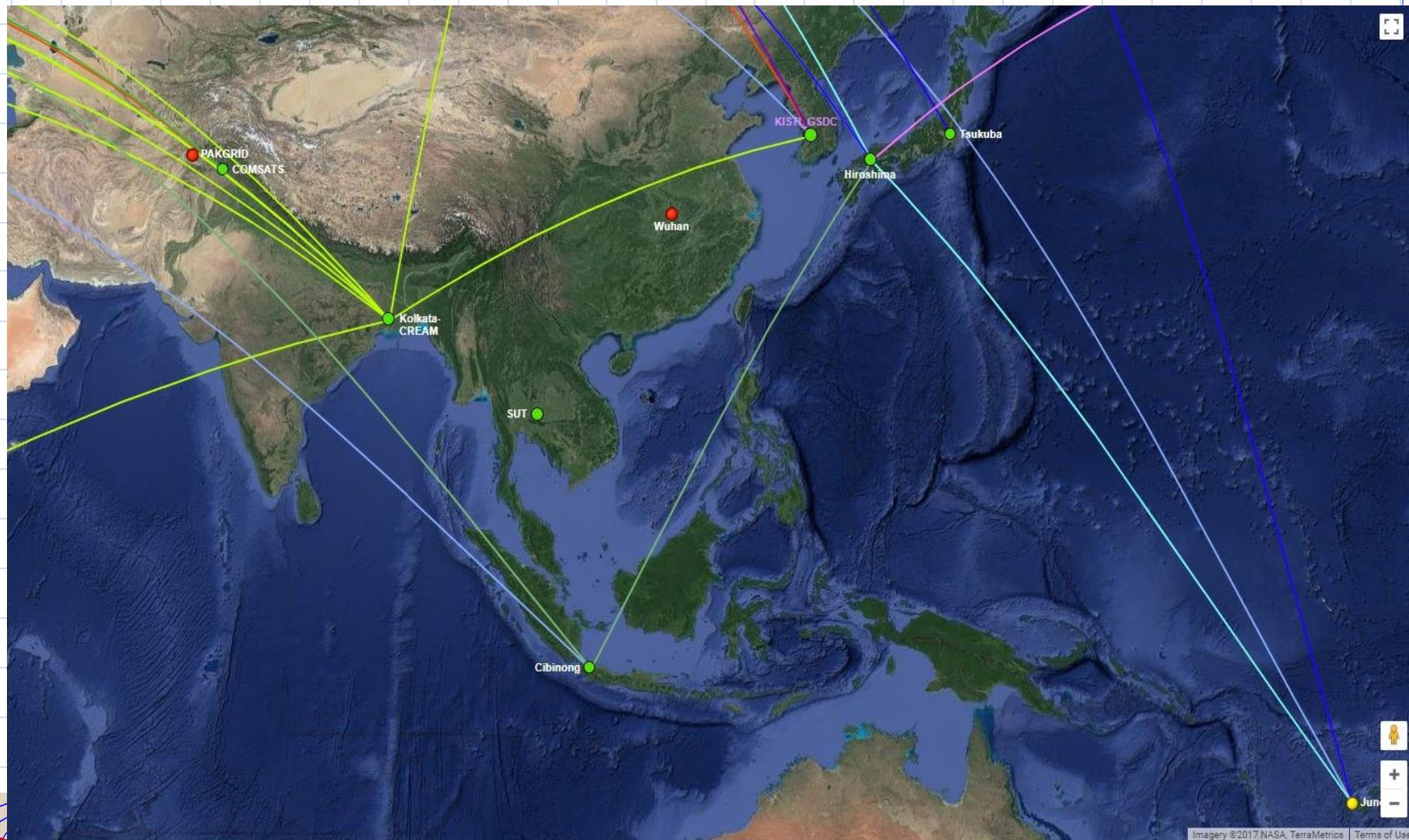


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Connectivity between Asian Tiers



Improved due to ATCF efforts





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KOLKATA Tier-2@Alice Grid

ATCF Meetings



Forum No.	Place	Link
Asia Tier Center Forum	Korea Institute of Science and Technology Information, Daejeon	https://indico.cern.ch/event/395656/
The 2nd Asia Tier Center Forum	Suranaree University of Technology, Thailand	https://indico.cern.ch/event/558754/
The 3rd Asia Tier Center Forum	KISTI, South Korea	https://indico.cern.ch/event/638971/
The 4th Asia Tier Center Forum	SUT, Bangkok, Thailand	https://indico.cern.ch/event/738796/
5th Asian Tier Center Forum and 1st Asian HTCondor workshop 2019	TIFR, Mumbai	https://indico.cern.ch/event/817781/
ATCF6	Krabi, Thailand	https://indico.cern.ch/event/1181467/
The 7th Asian Tier Center Forum (ATCF7)	Jeju, Republic of Korea	https://indico.cern.ch/event/1300560/

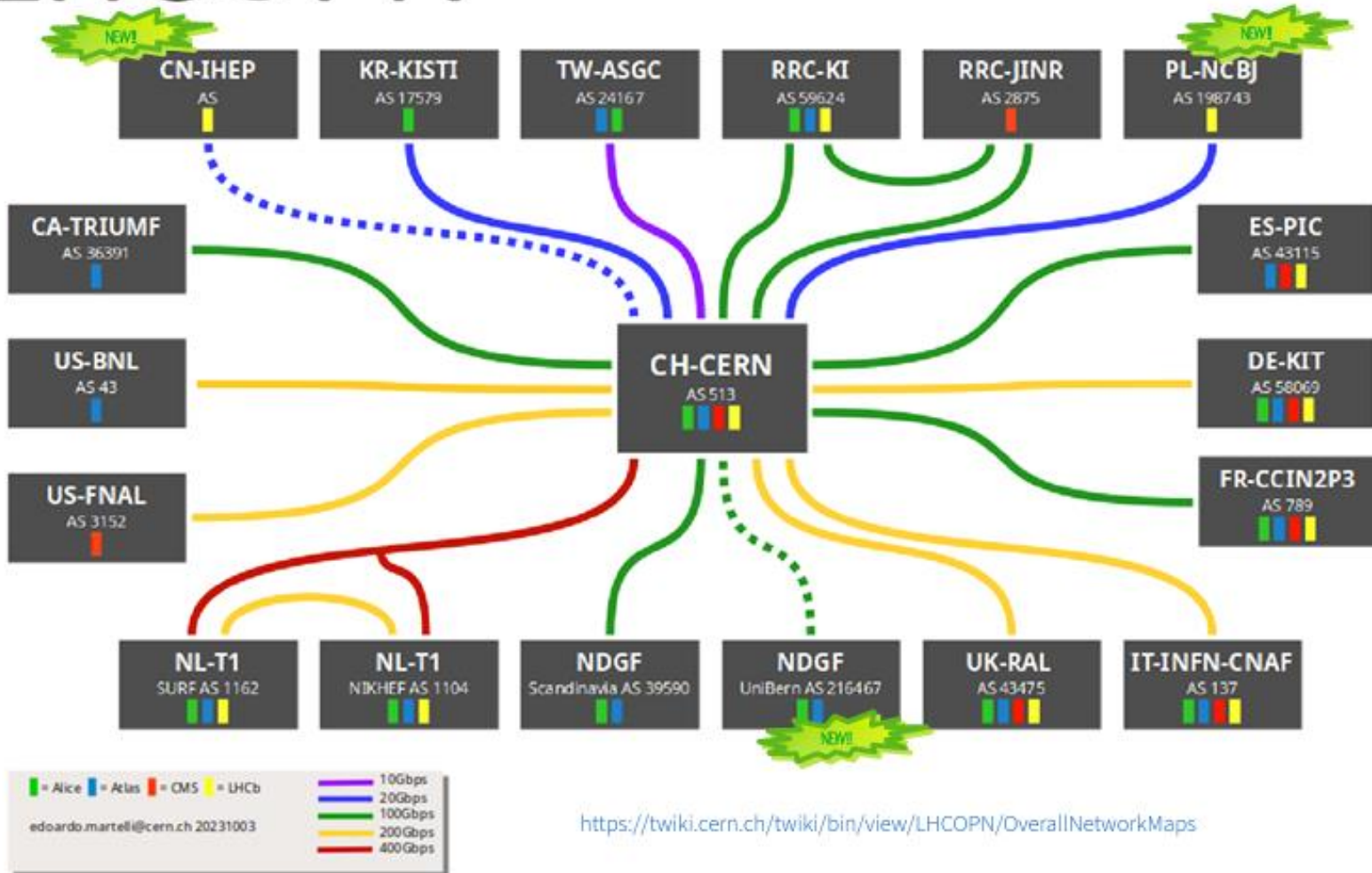


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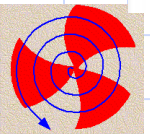
LHCOPN: Private network connecting Tier0 and Tier1s

LHCOPN



<https://twiki.cern.ch/twiki/bin/view/LHCOPN/OverallNetworkMaps>

Taken from Edoardo Martelli ATCF7 presentation.





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LHCONE L3VPN service



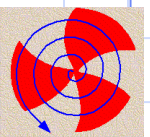
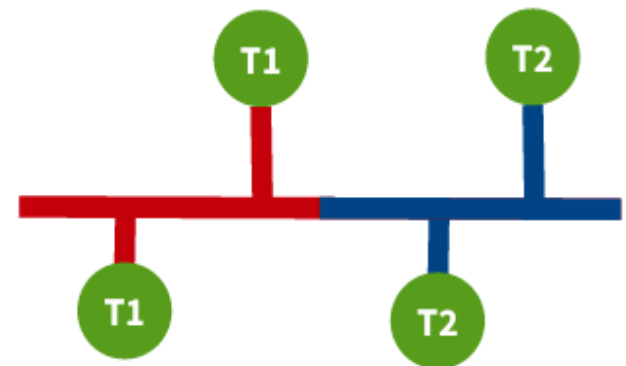
Private network connecting Tier1s and Tier2s

Secure:

- Dedicated to LHC data transfers
- Only declared IP prefixes can exchange traffic
- Can connect directly to Science-DMZ, bypass perimeter firewalls

Advanced routing:

- Multi domain L3 VPN
- BGP communities for traffic engineering



Taken from Edoardo Martelli ATCF7 presentation.



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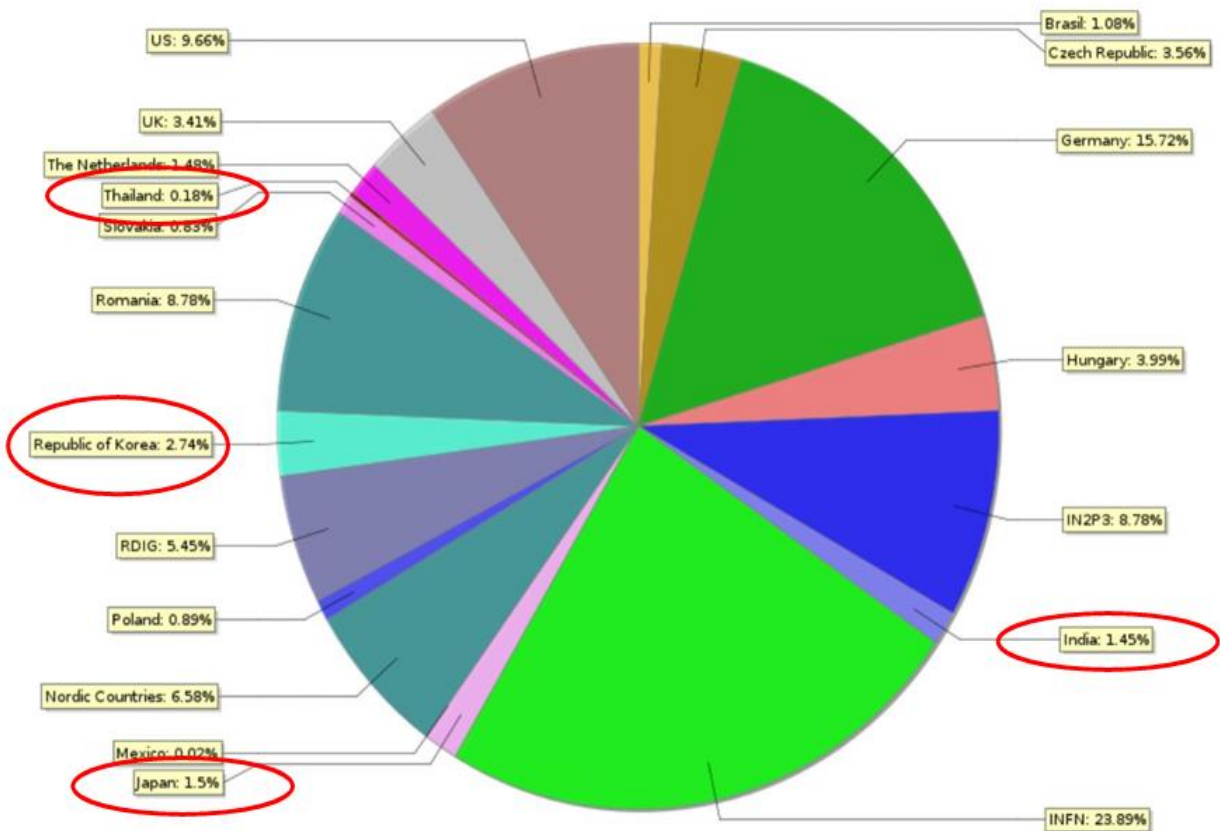


Asian Centres Contribution in ALICE Computing

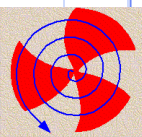
Regional contribution

Total contribution of Asian centres - 6%

Proportional growth with respect to the rest of the Grid



Taken from Latchezar Betev, ALICE



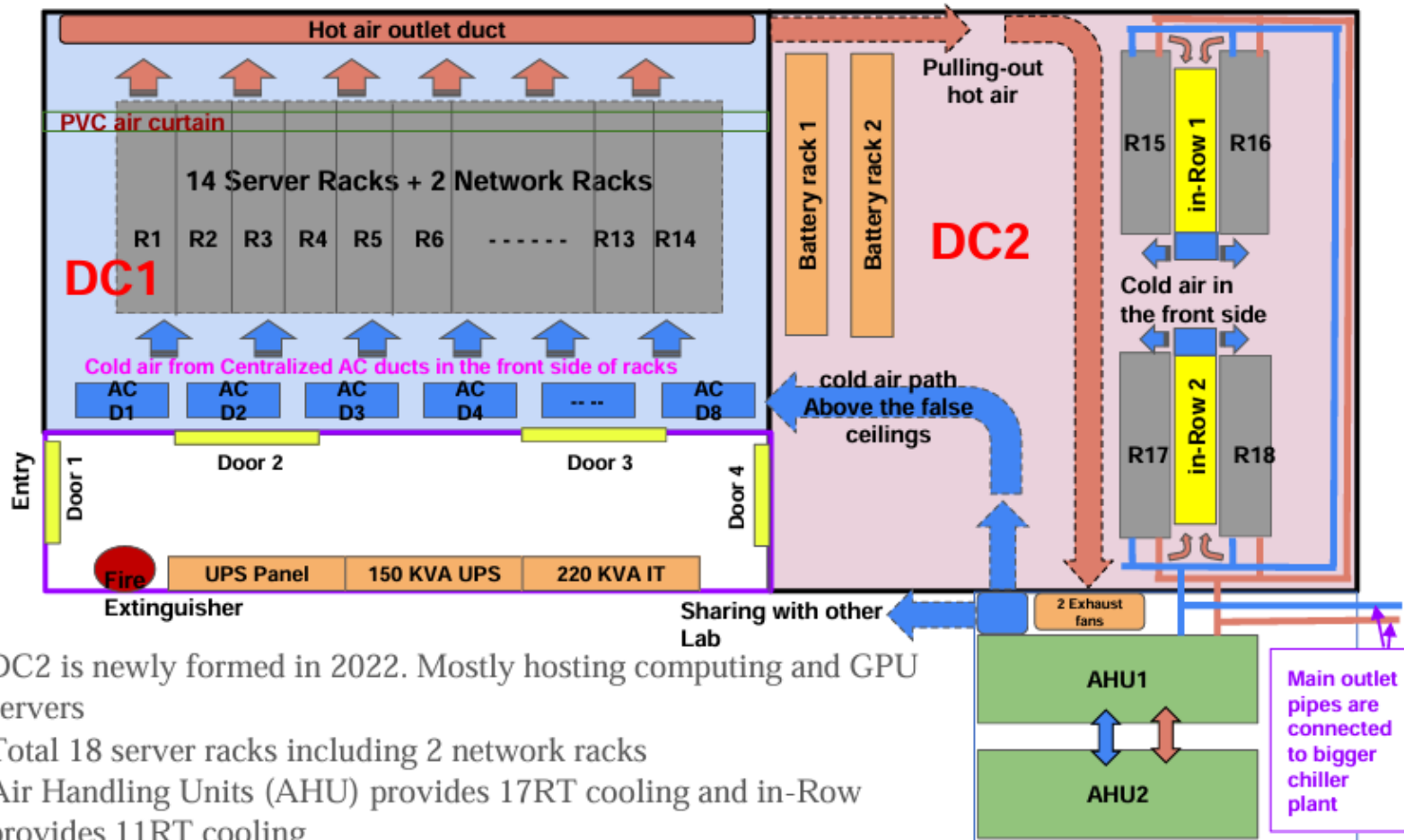


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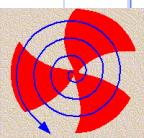
TIFR TIER-2 updated by P. K. Patel

DC Layout



- DC2 is newly formed in 2022. Mostly hosting computing and GPU servers
- Total 18 server racks including 2 network racks
- Air Handling Units (AHU) provides 17RT cooling and in-Row provides 11RT cooling

Main outlet pipes are connected to bigger chiller plant





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Thank You

