

The 2nd Asia Tier Center Forum

มหาวิทยาลัย
เทคโนโลยีสุรนารี

Wrap-up
L.Betev



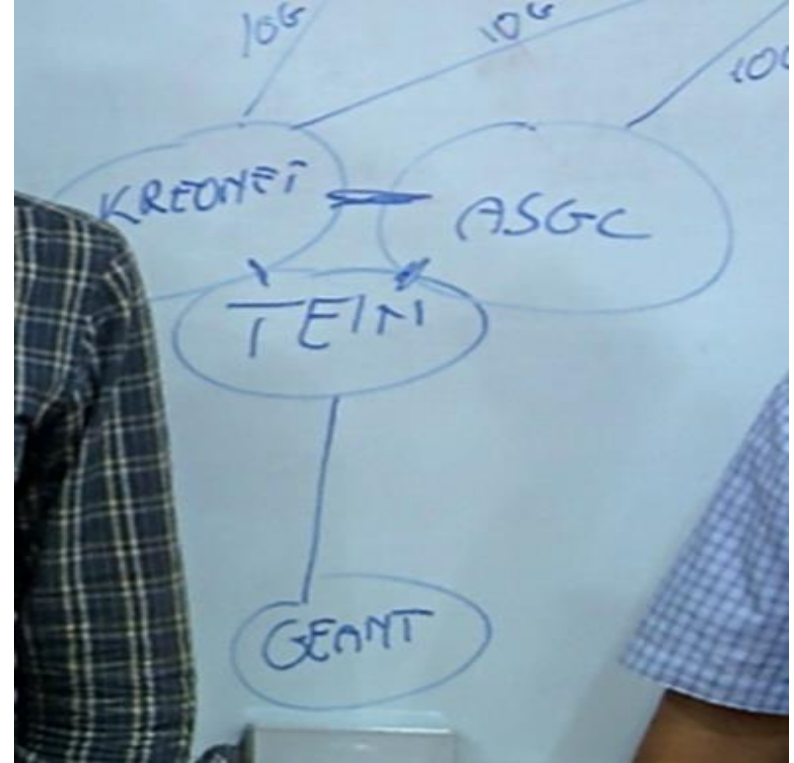
Status

- Asian sites are fast increasing their capacity
- Experiments programmes — current data taking + upgrade plans — foresee doubling up to 50x time more data

The two above combined together:

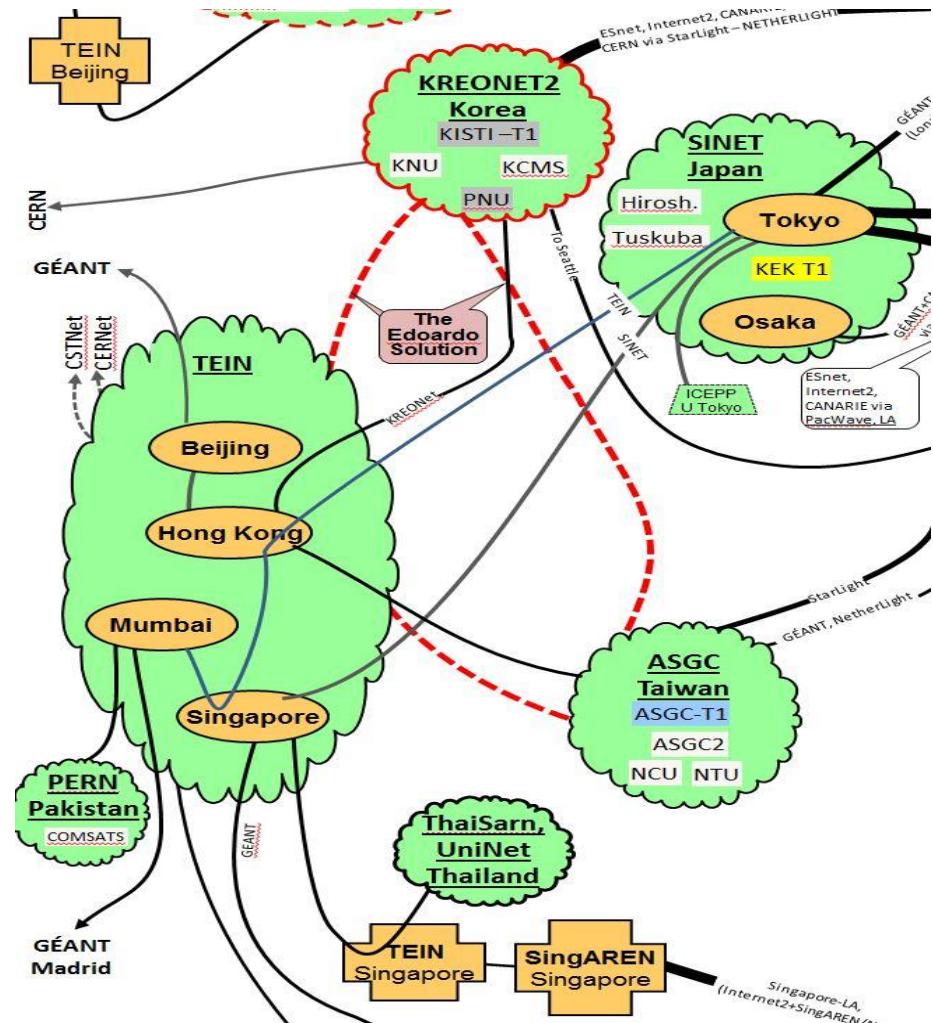
- Much higher use of network now and in the future
- Local (Aisan) connectivity is not yet optimal

The breakthrough of the 1st Asian Tier Centre forum

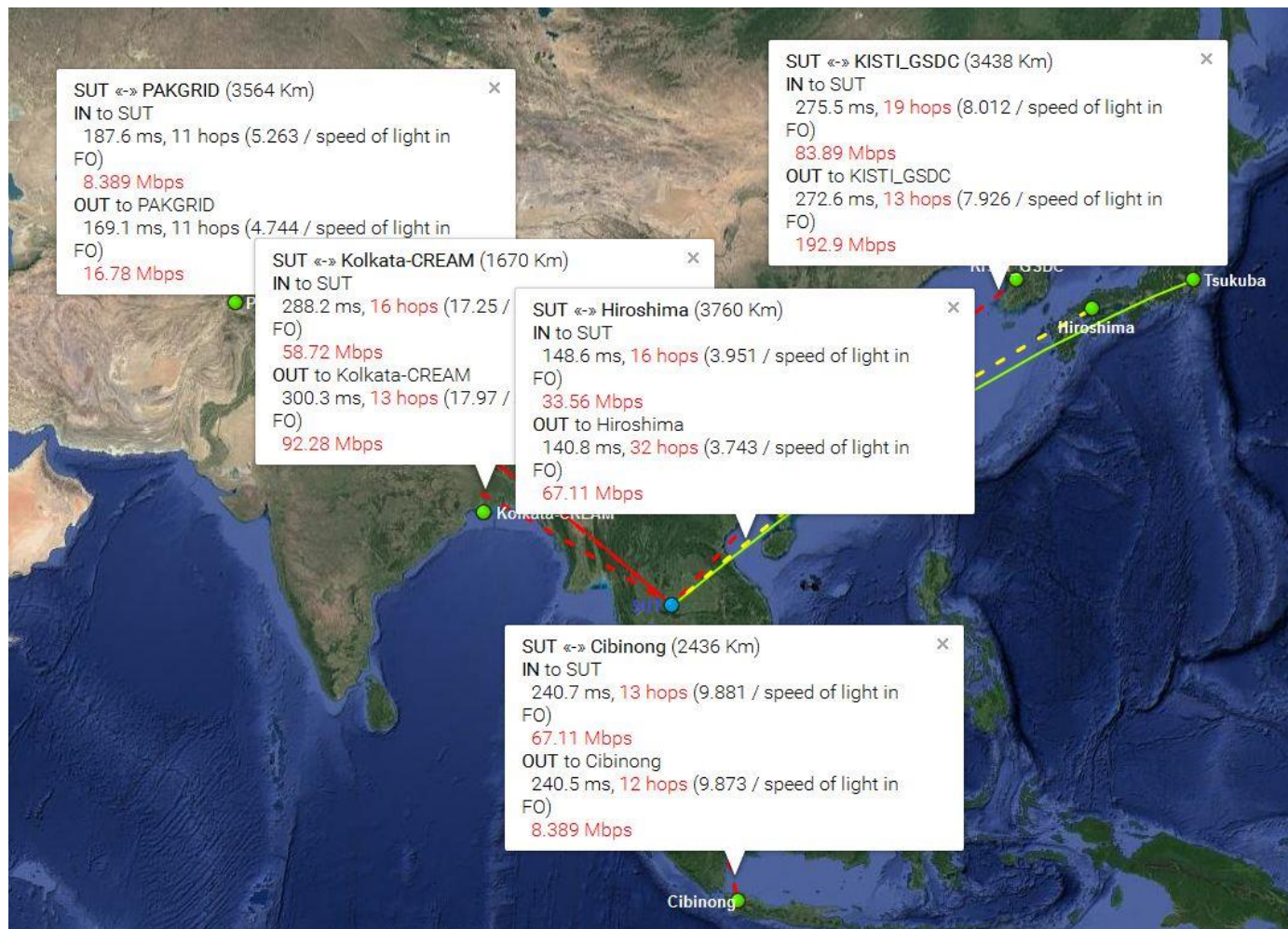


Now known as 'The Edoardo Solution'

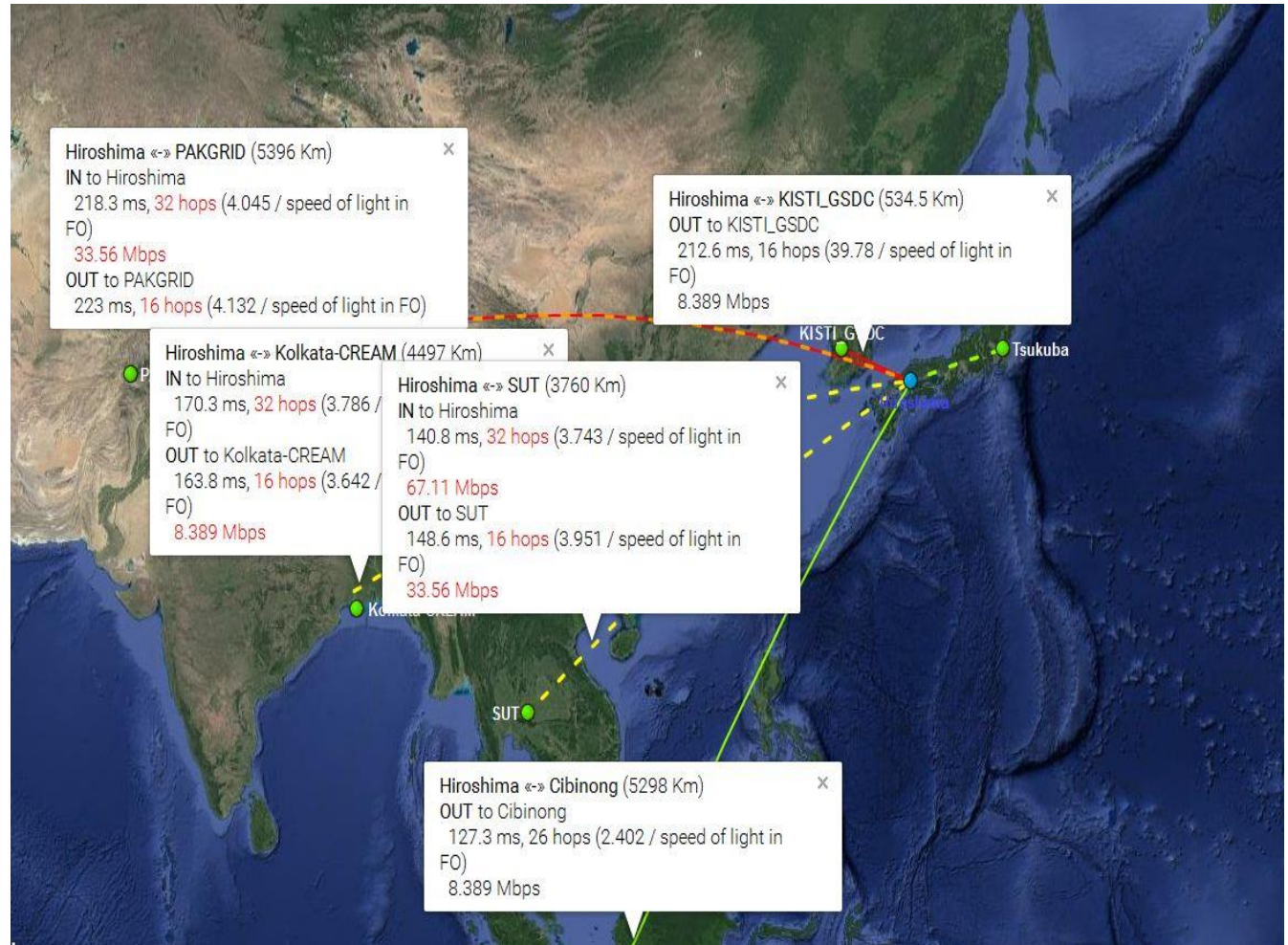
Source: LHCONE_v.3.4,
William Johnston, ESNET



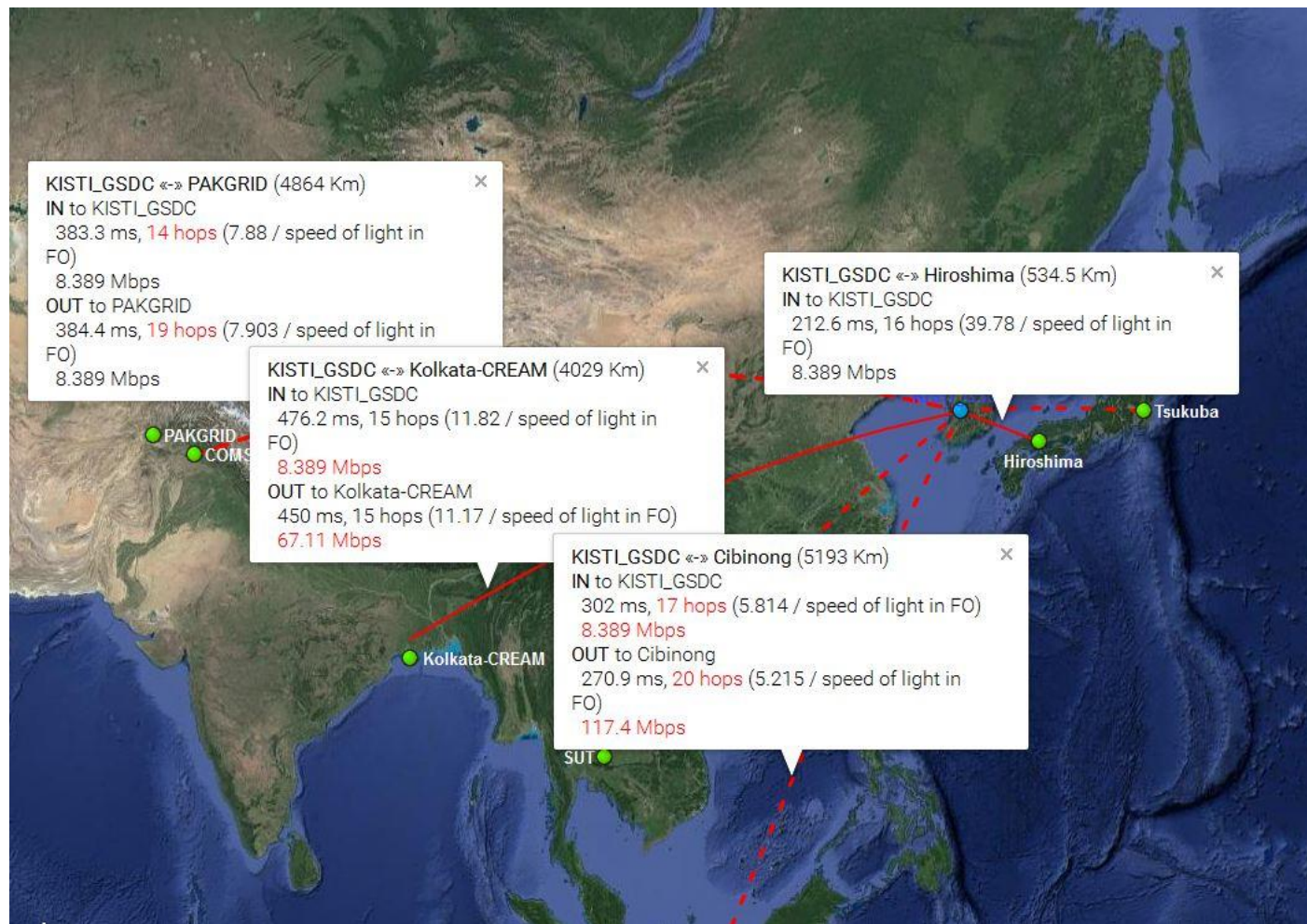
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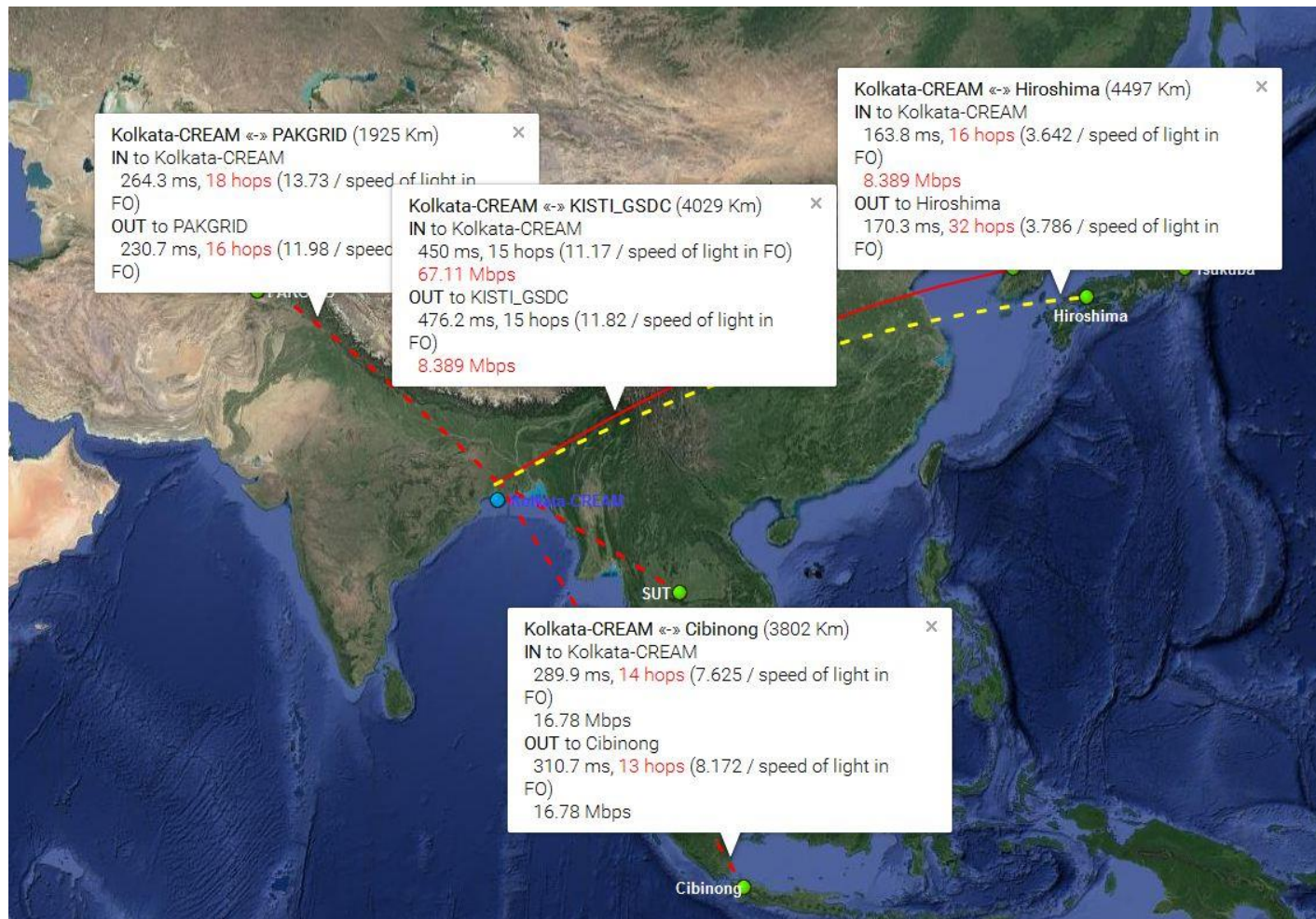
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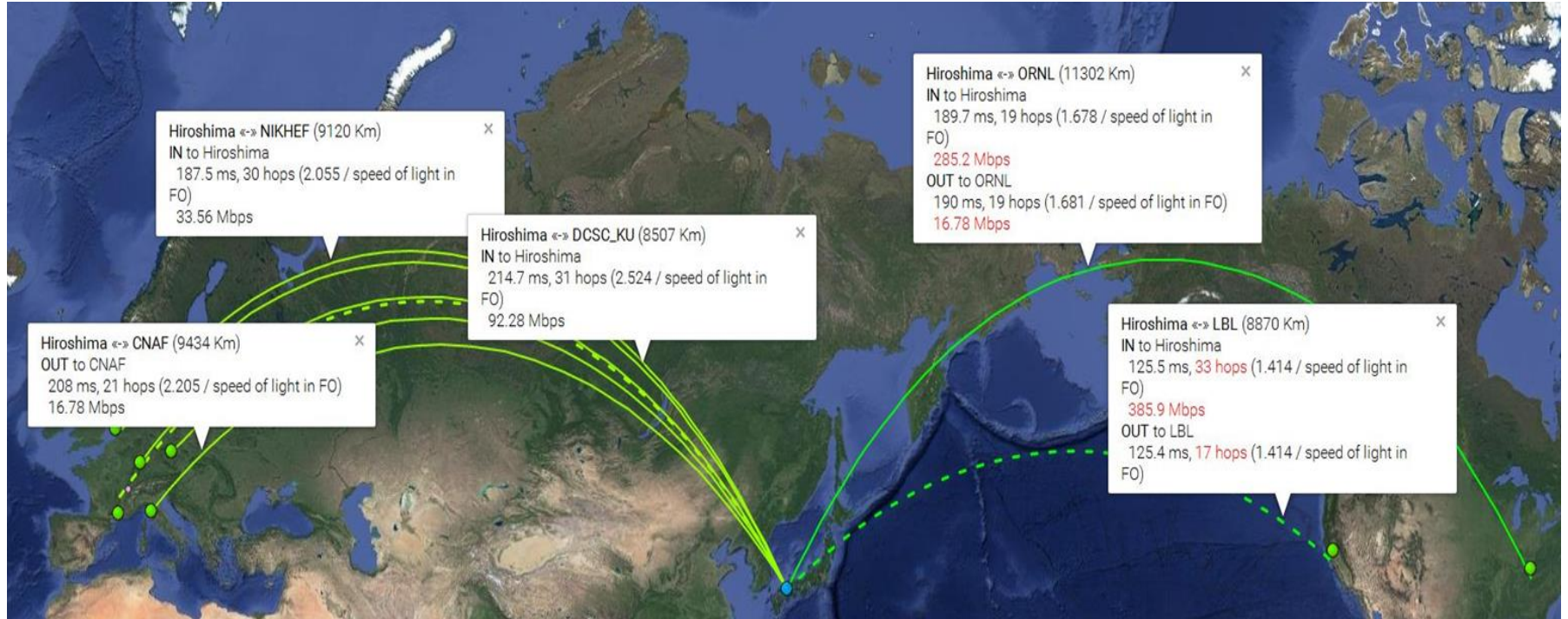
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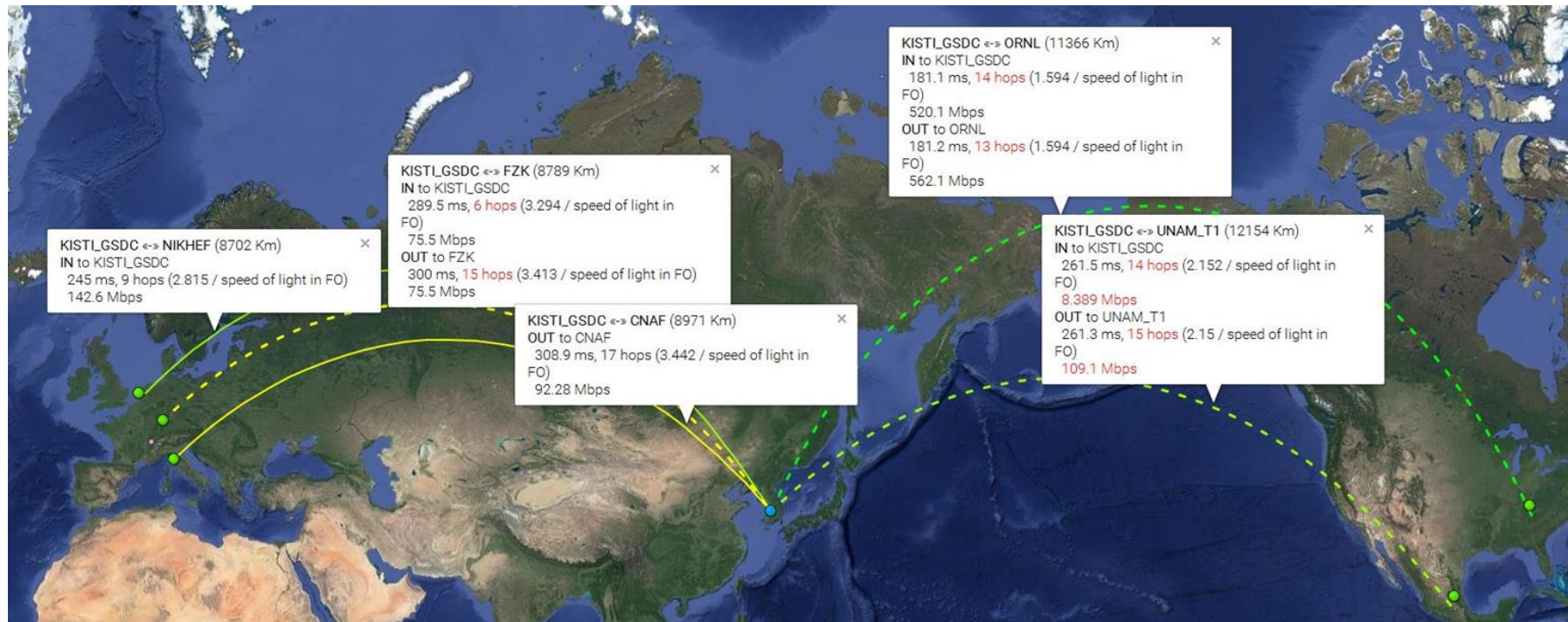
Status Kolkata



What about the others



What about the others



The long way around

Traffic between Asian countries must be routed within Asia (avoid transit to another continent or around the world)



Source: LHCONE update,
Edorado Martelli, CERN

What is there

- Extensive know-how
- Sophisticated tools
- Experts ready to do the job and to consult
- Experiences and recipes from highly integrated, high-throughput networks (Europe, USA)
- **Generally well-developed Asian national networks with multi Gb internal bandwidth**
- Progress is being made through hard work of LHCONE experts and regional networks

Possible solutions

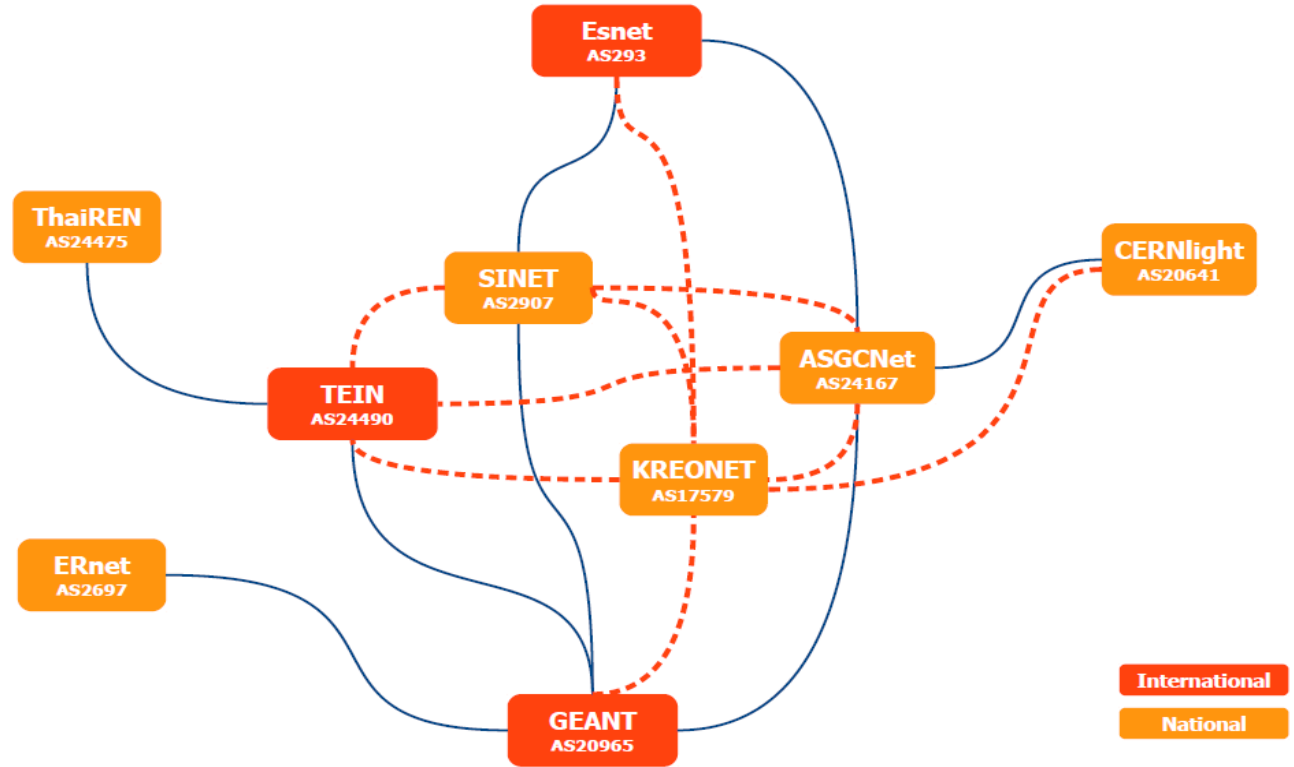
Low delay:

- Asian countries mesh networks together
- Asian countries get interconnected by common regional backbone

Full reachability:

- full mesh
- small VRFs get full transit from major operators

What is needed (The Edoardo+ solution)



Source: LHCONE update,
Edorado Martelli, CERN

Next step

- Asia-centric network meeting — extension of the ASIA-TIER workshop — **NREN experts + sites**
- Critical mass of representatives from both is essential

Thank you

- Chinorat Kobdaj for the perfect local organisation and hospitality!
 - * and to the local support team
- Saung-Un Ahn for the programme preparation
- All presenters for the involving presentations
- It will be difficult to leave...



