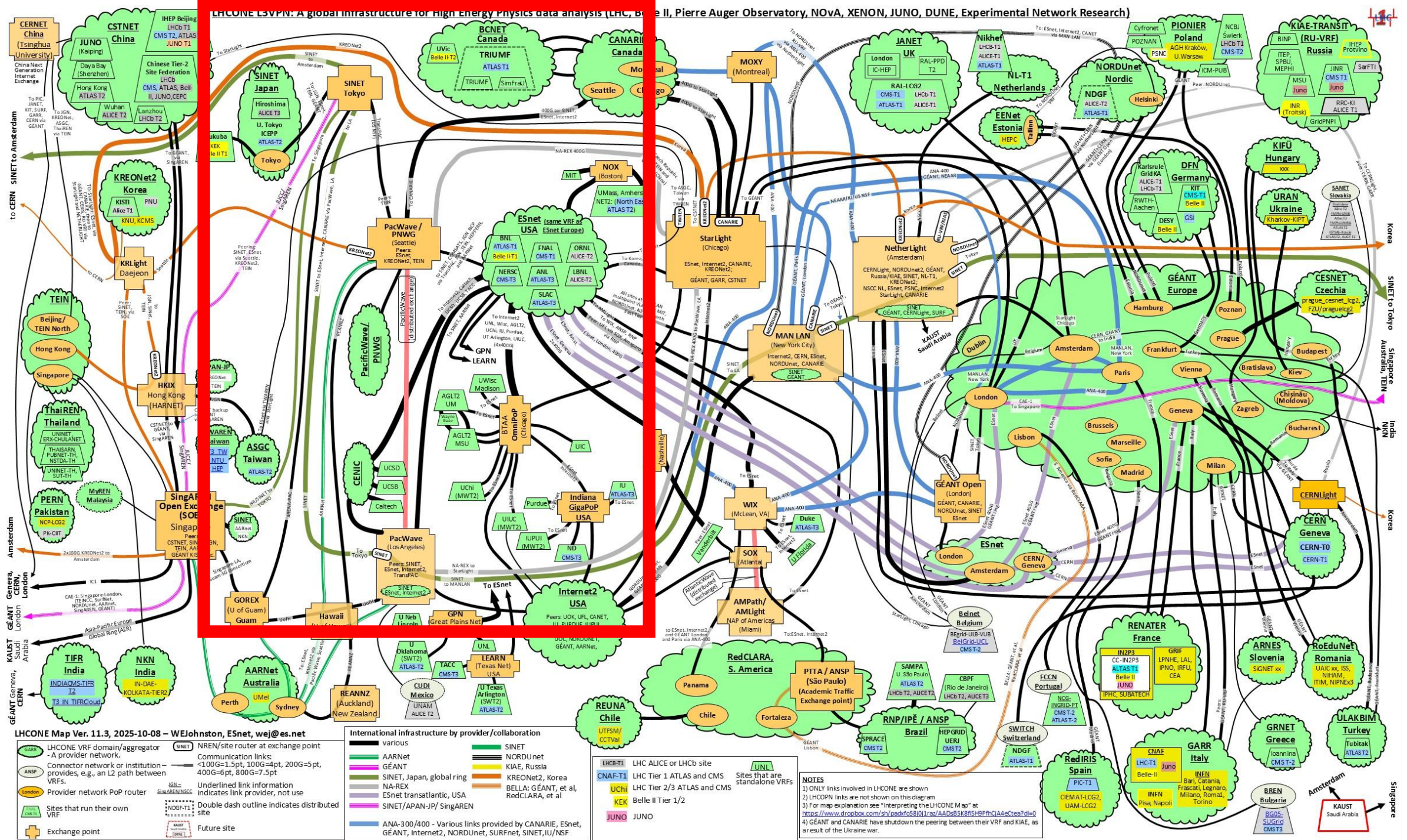
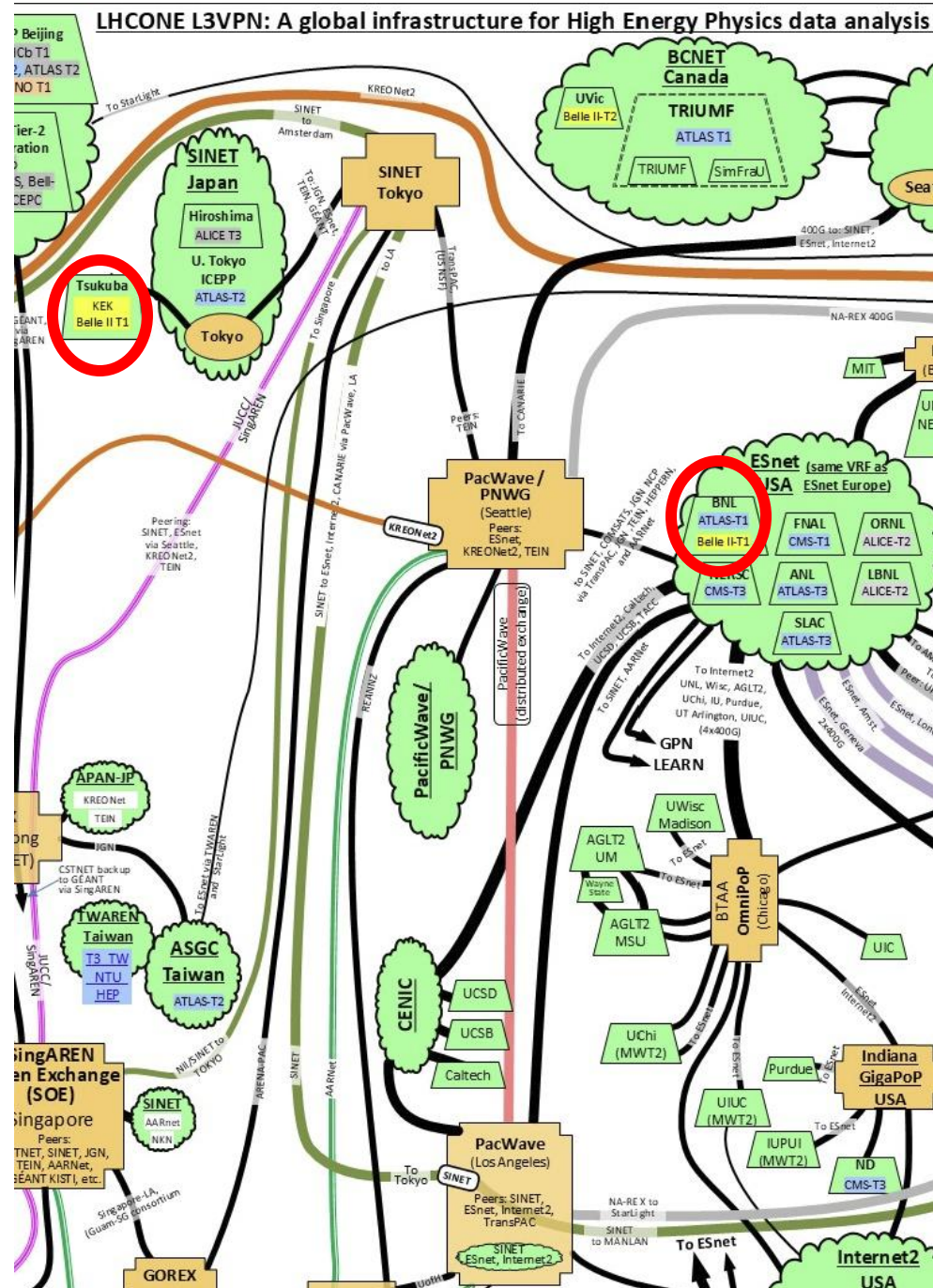
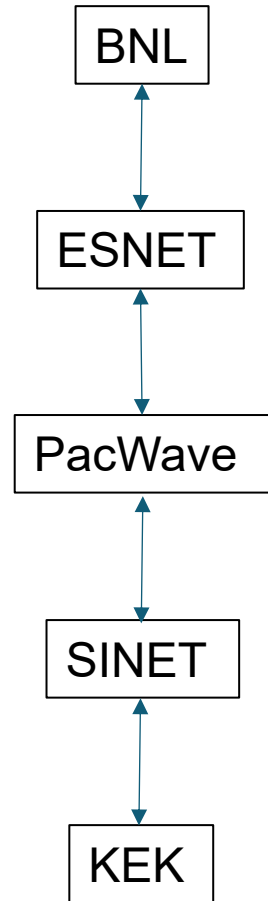


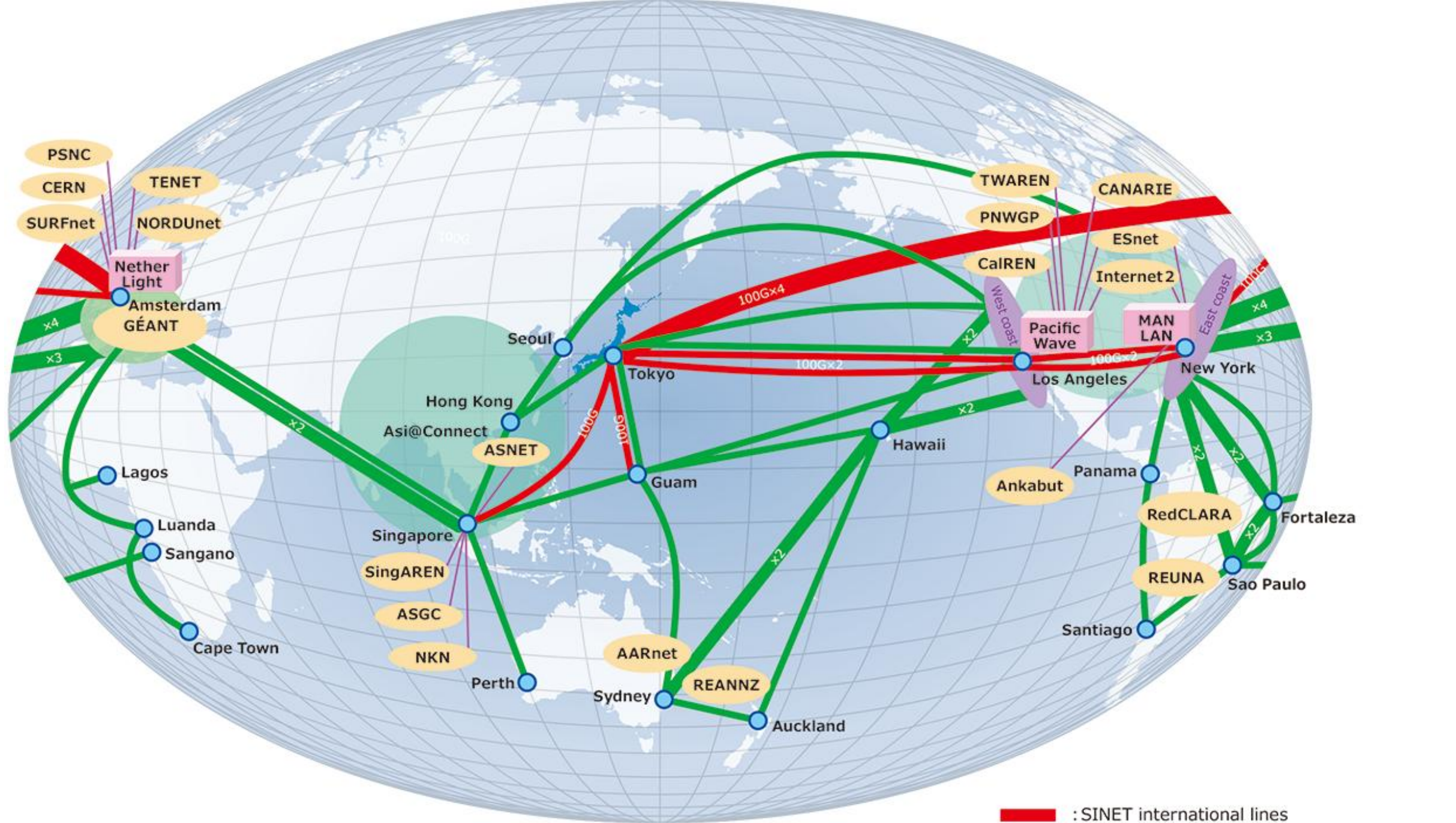
Belle II connectivity between BNL and KEK

- Belle II is a part of LHCONE
- BNL is connected to LHCONE at 800 Gbps
 - In addition, BNL is also connected to LHCOPN at 800 Gbps (2x400Gbps) (used for between T1s in ATLAS)
- KEK is connected to LHCON at 100 Gbps



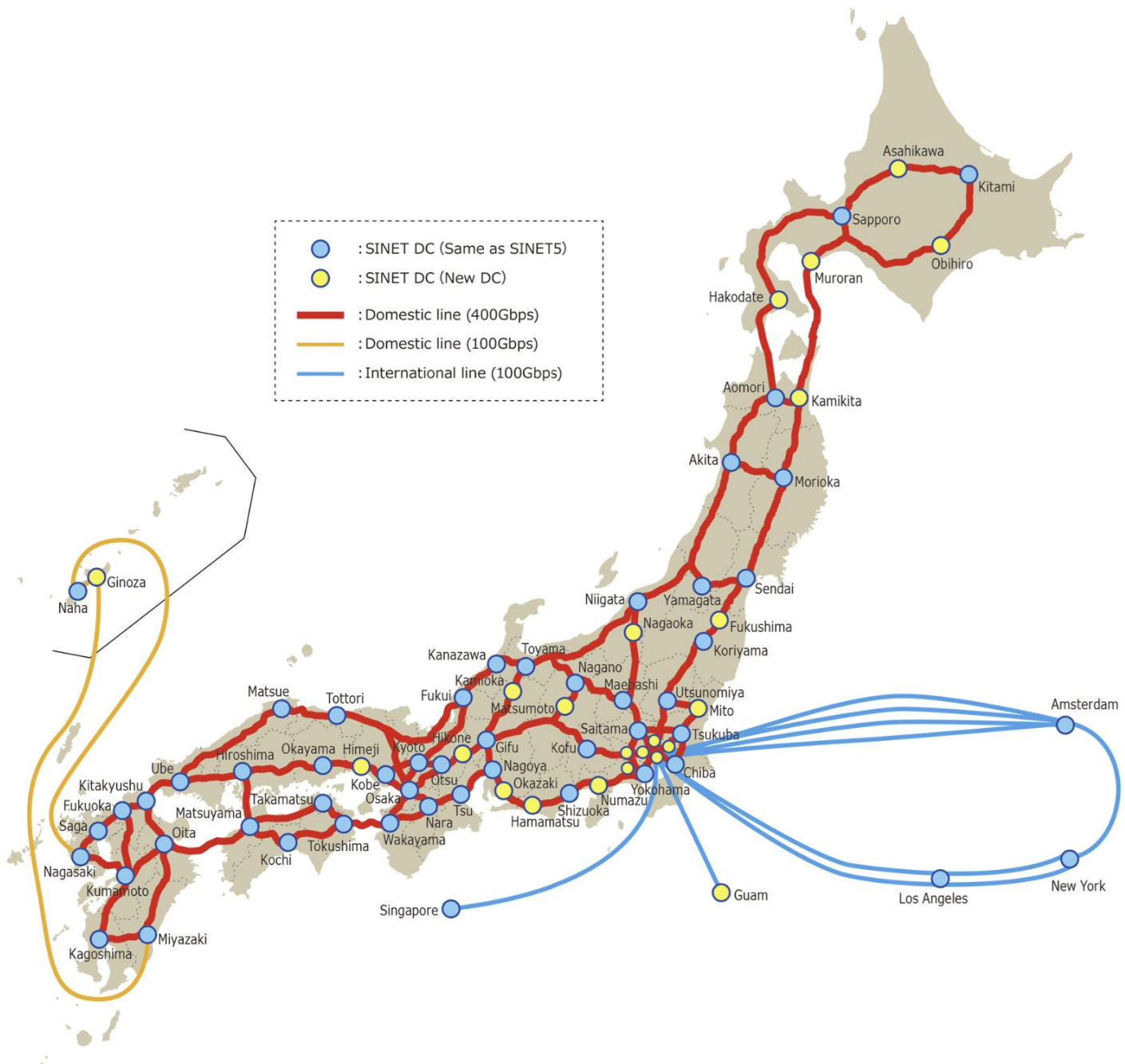
LHCONE L3VPN: A global infrastructure for High Energy Physics data analysis (





— : SINET international lines

※Figure includes 100Gbps lines only for each country.



Data Management by RUCIO in Belle II

- Data is managed by RUCIO
 - Catalogs data sets and their constituent files
 - Catalogs data locations
 - Catalogs data metadata
 - Request the data transfers between storage elements to FTS
 - Typical storage elements are dCache, XRootD and Storm, etc...
 - Sites are responsible for maintaining own storage elements of requested capacity with required bandwidth to LHCONE network.
- FTS initiate data transfers and monitors them.
 - FTS supports WebDAV and XRootD as data transfer protocols.
- For Belle II, BNL runs RUCIO and main FTS while KEK runs another FTS for RAW data export.