# **LHCONE L3VPN status update**

DC 2024!

#### **Enzo Capone**

Head of Research Engagement and Support

LHCONE-OPN Meeting Catania, 10<sup>th</sup> April 2024



#### LHCONE around the world

















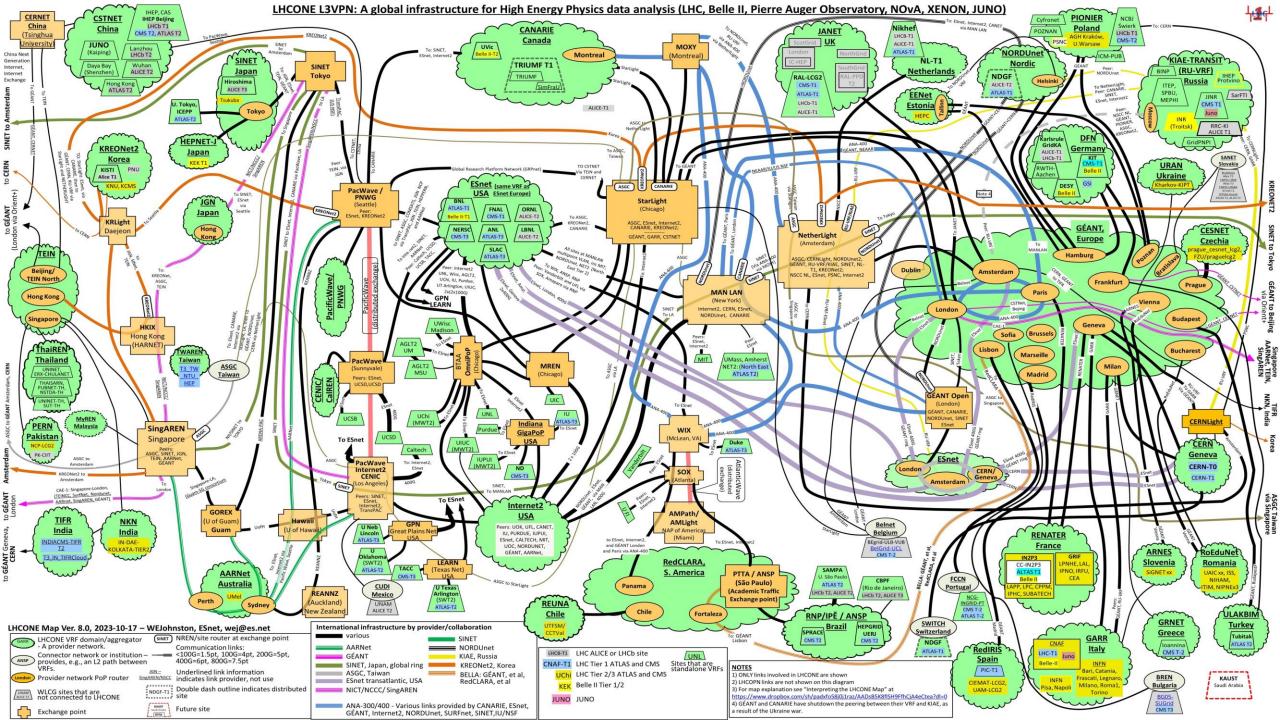


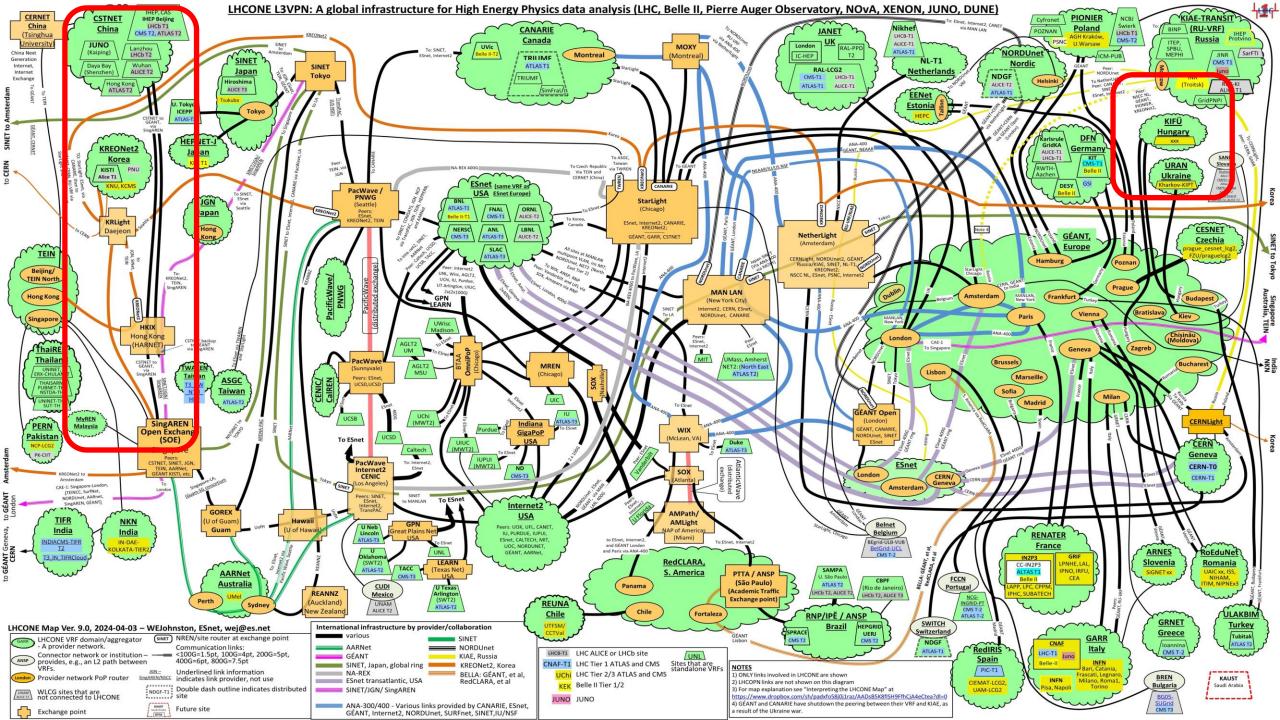






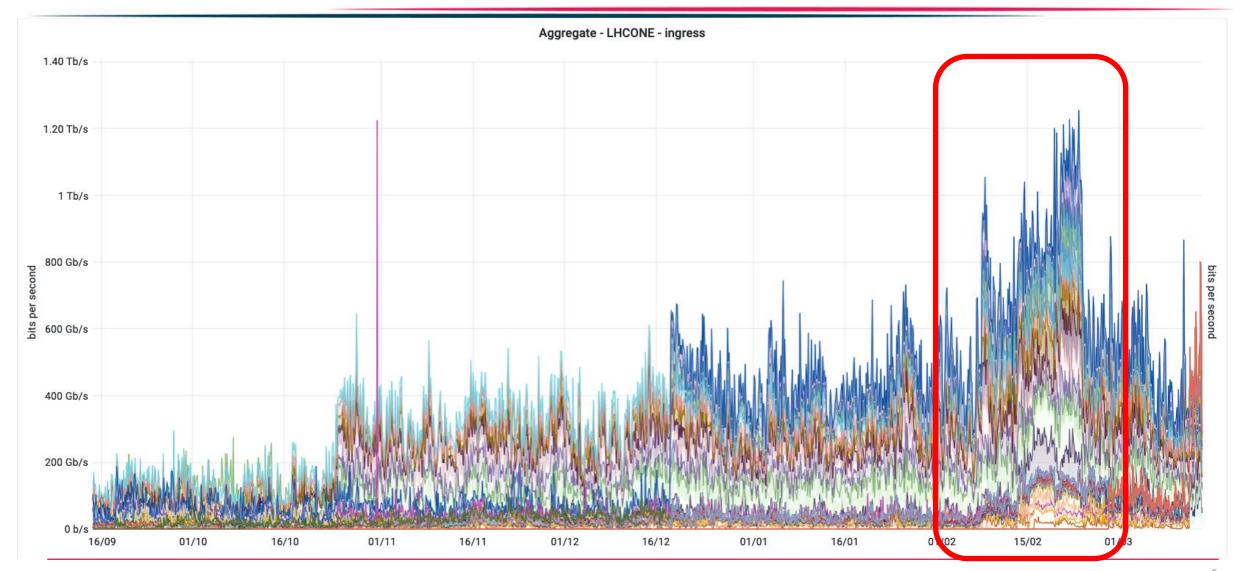






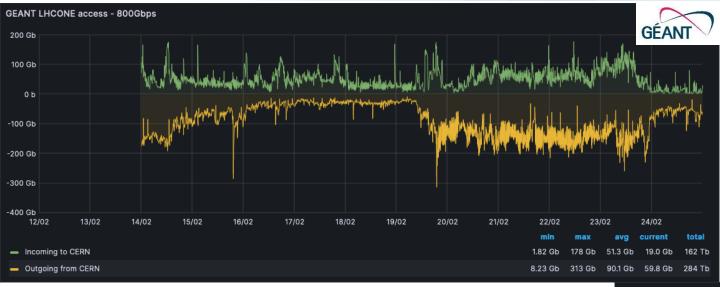
### **GÉANT** overall









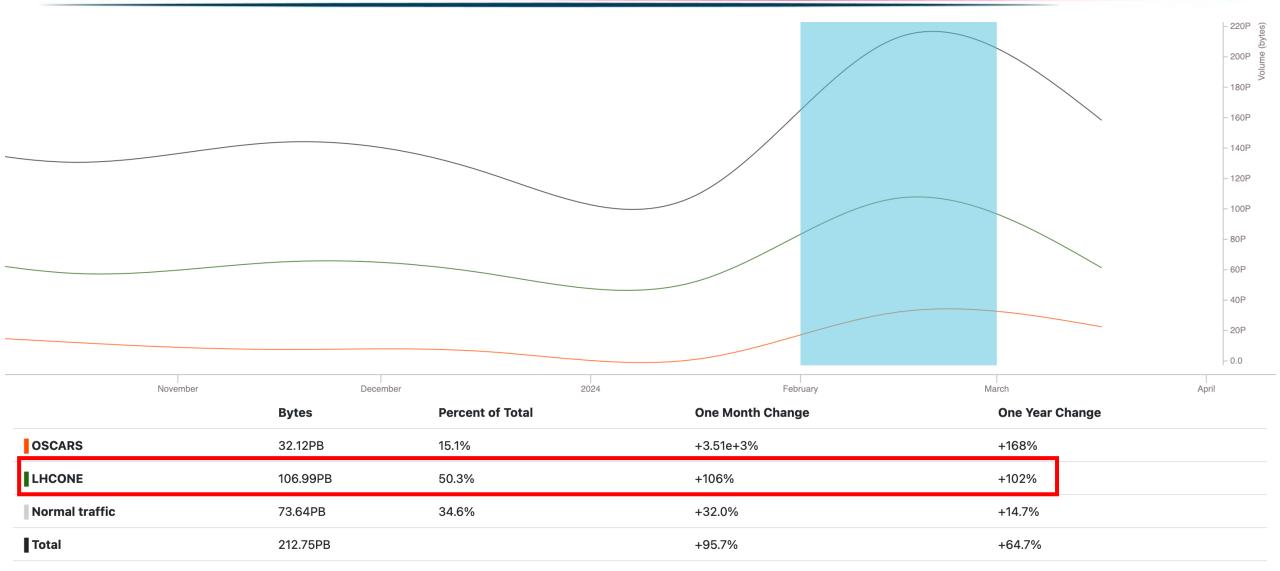






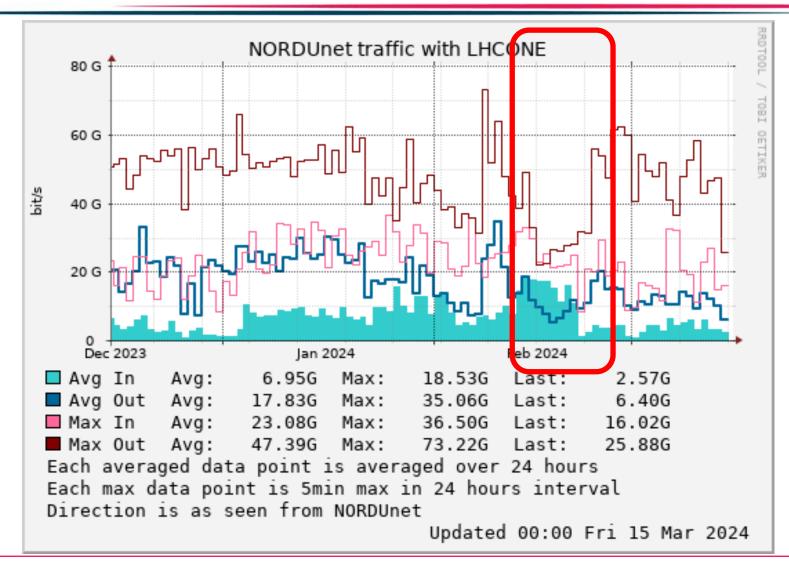






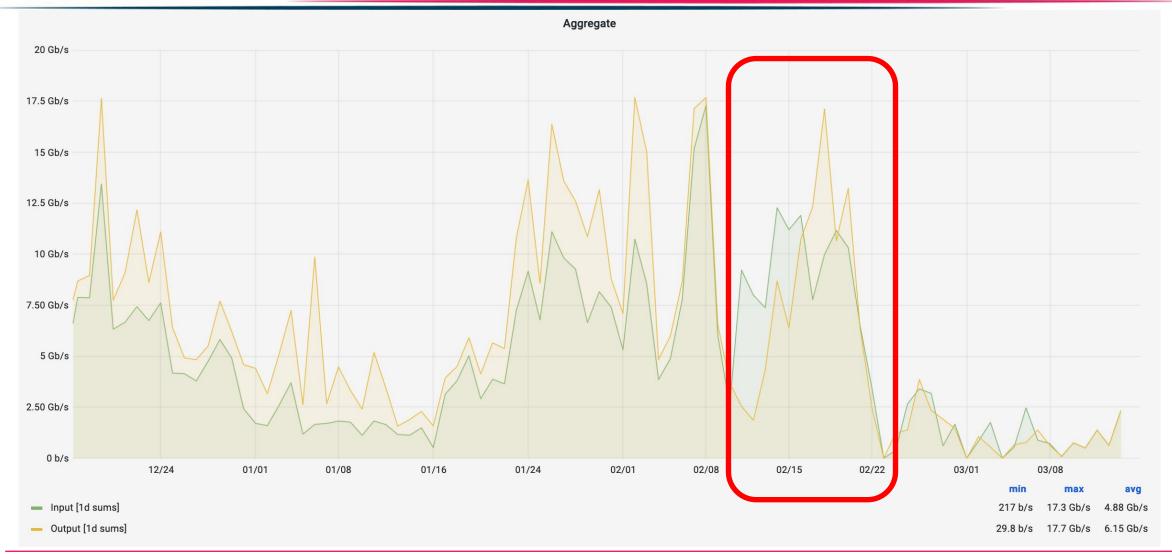
#### **NORDUNet**





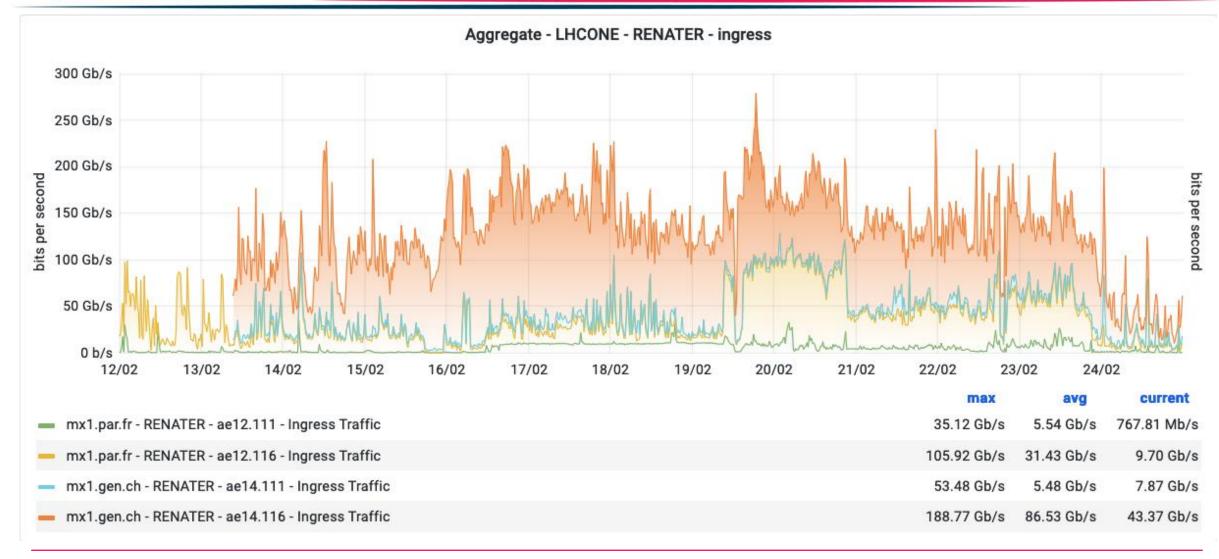






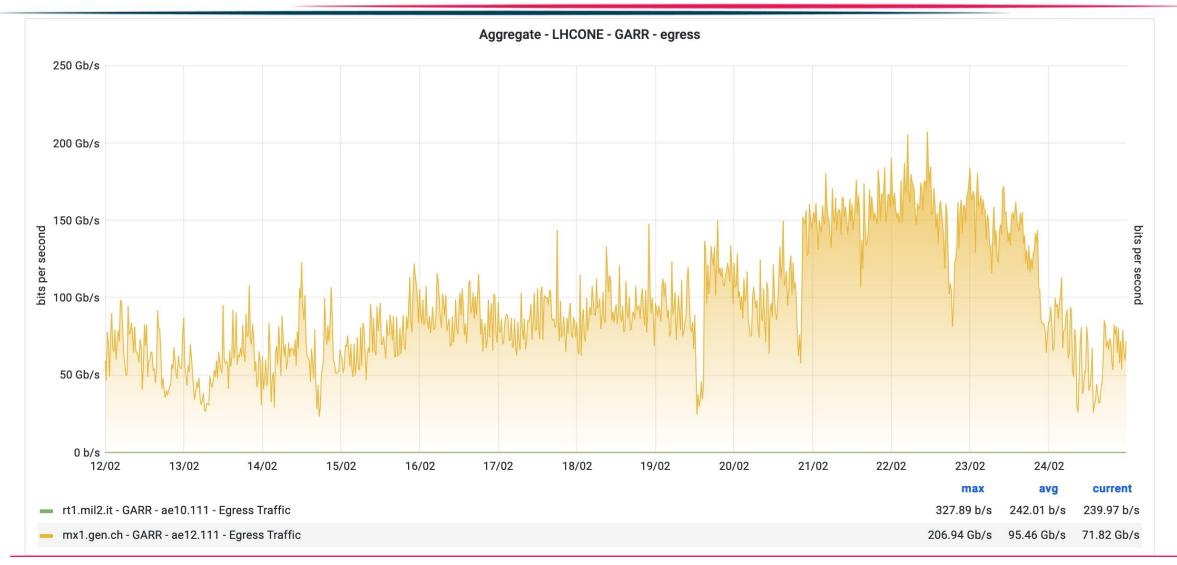






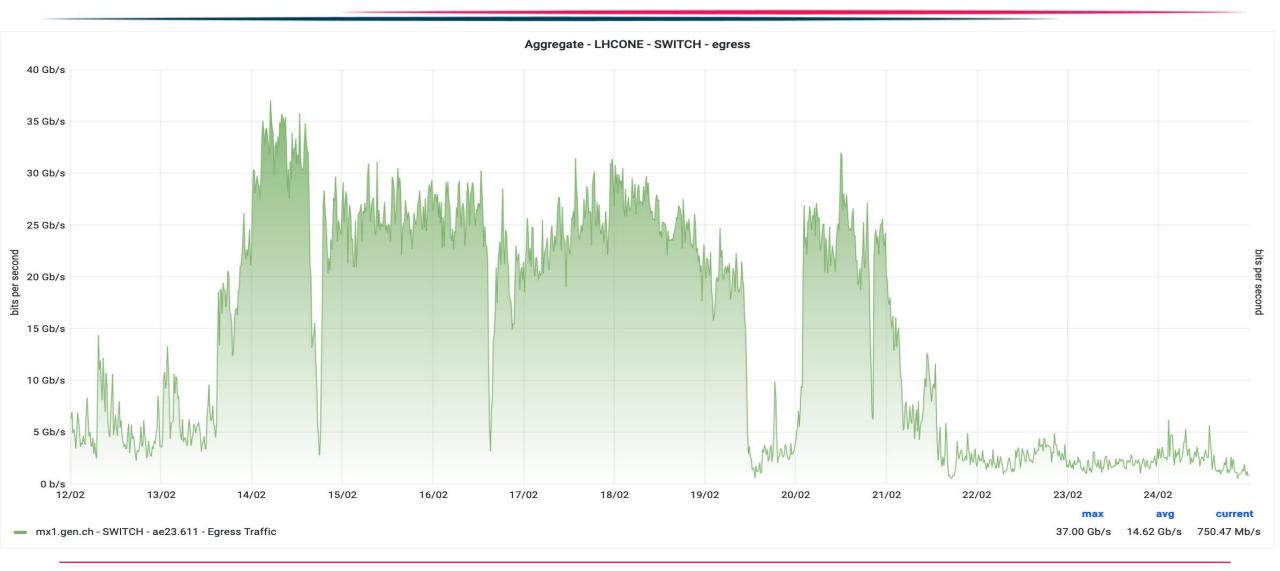






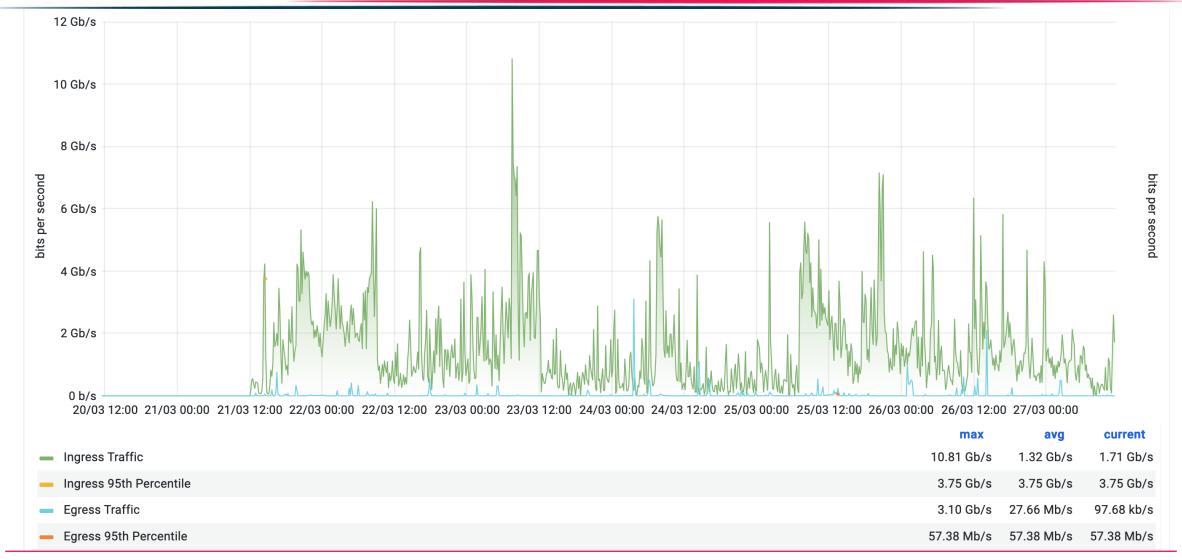
## **New joiners** SWITCH





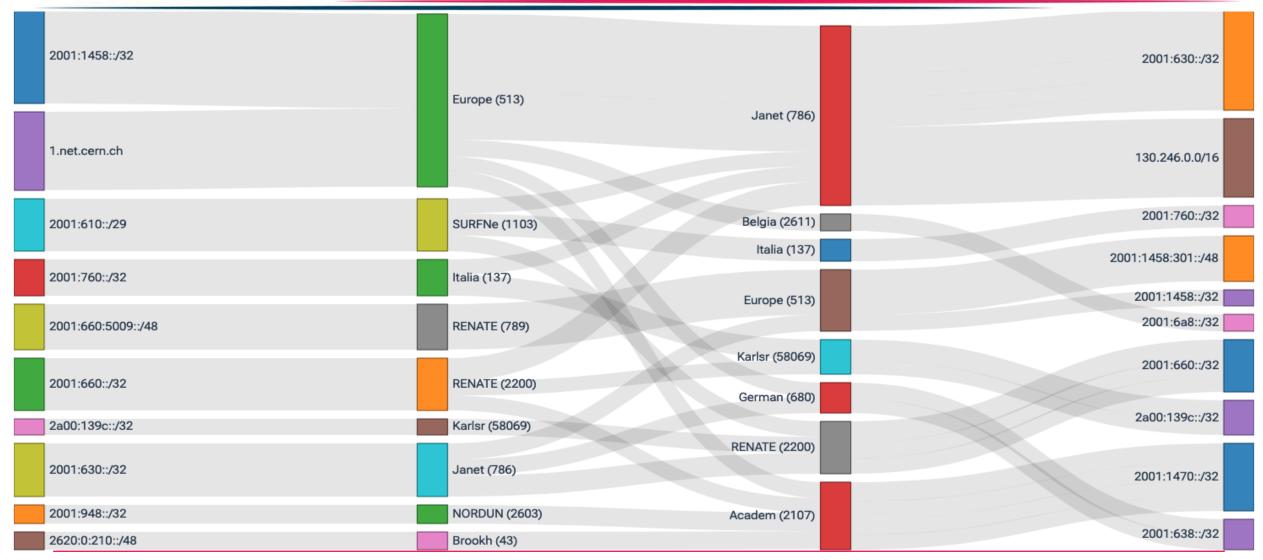






#### DC24 traffic flows





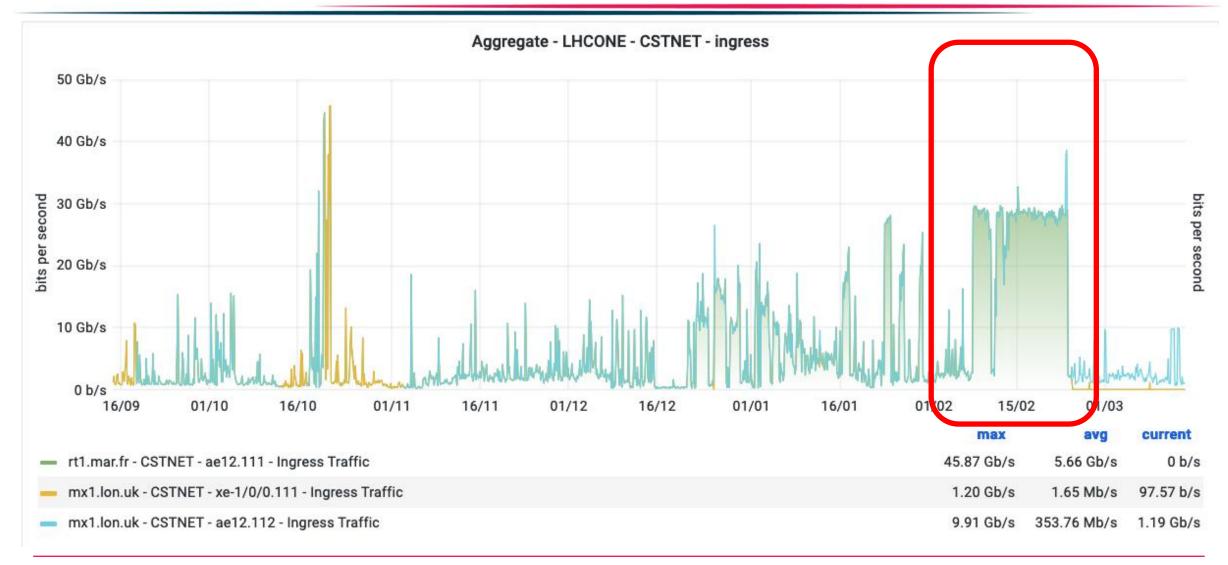
## **DC24 top-talkers**



Source Route Prefix/LEN	Source AS Number	Site	Destination AS Number	Destination Route Prefix/LEN	Average Gbits/s
128.142.0.0/16 (1.net.cern.ch)	European Laboratory for Particle Physics (CERN)	513 ▼ GEN	Janet (JISC) AS786 ▼	130.246.0.0/16 ( - )	127.48
2001:1458::/32 (-)	European Laboratory for Particle Physics (CERN)	513 ▼ GEN	Janet (JISC) AS786 ▼	2001:630::/32(-)	77.39
2001:660:5009::/48 (-)	RENATER (IN2P3) AS789 ▼	GEN	European Laboratory for Particle Physics (CERN)	S513 ▼ 2001:1458:301::/48 (-)	74.01
2001:610::/29 (-)	SURFNet (Netherlands University & Research Network)	03 ▼ AMS	Italian Academic & Research Network (GARR)	S137 ▼ 2001:760::/32(-)	36.04
2001:760::/32 (-)	Italian Academic & Research Network (GARR)	37 ▼ GEN	Karlsruhe Institute of Technology (KIT GriDKa)	8069 ▼ 2a00:139c::/32(-)	33.69
2001:948::/32 ( - )	NORDUNet AS2603 ▼	AMS	Academic & Research Network of Slovenia (ARNES)	2107 • 2001:1470::/32(-)	31.32
2620:0:210::/48 (-)	Brookhaven National Laboratory	343 ▼ GEN	Academic & Research Network of Slovenia (ARNES)	2107 • 2001:1470::/32(-)	29.08
2001:660::/32 (-)	RENATER AS2200 ▼	GEN	Janet (JISC) AS786 ▼	2001:630::/32(-)	28.41
2001:1458::/32 (-)	European Laboratory for Particle Physics (CERN)	513 ▼ GEN	Belgian National Research Network (BELNET)	2611 ▼ 2001:6a8::/32(-)	27.79
2a00:139c::/32(-)	Karlsruhe Institute of Technology (KIT GriDKa)	069 ▼ FRA	RENATER AS2200 ▼	2001:660::/32(-)	26.01
2001:1458::/32 (-)	European Laboratory for Particle Physics (CERN)	513 ▼ GEN	Academic & Research Network of Slovenia (ARNES)	2107 • 2001:1470::/32(-)	25.75
2001:610::/29 (-)	SURFNet (Netherlands University & Research Network)  AS11	03 ▼ AMS	RENATER AS2200 ▼	2001:660::/32(-)	25.39

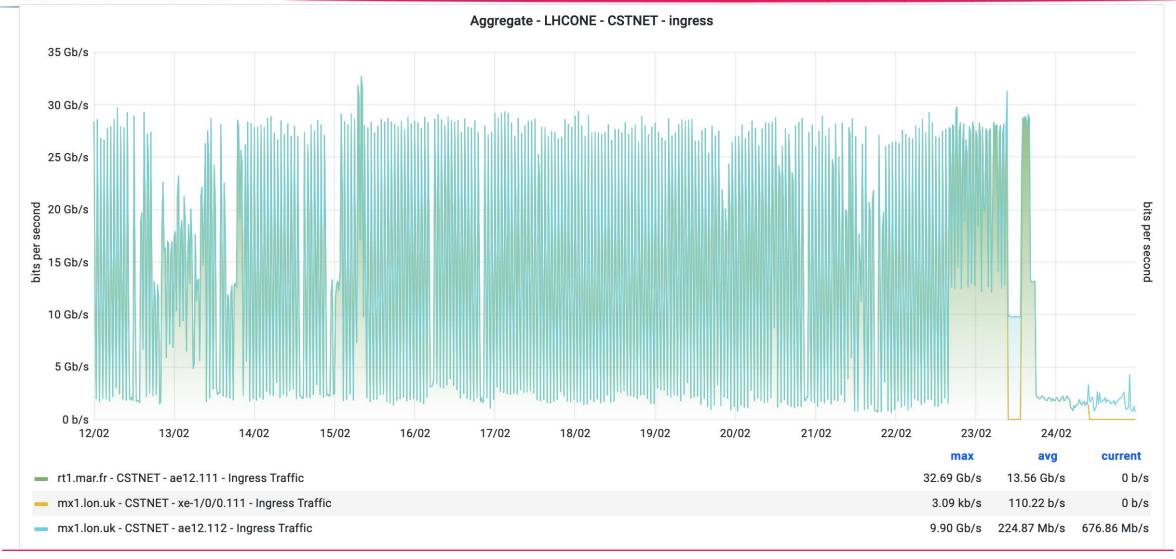






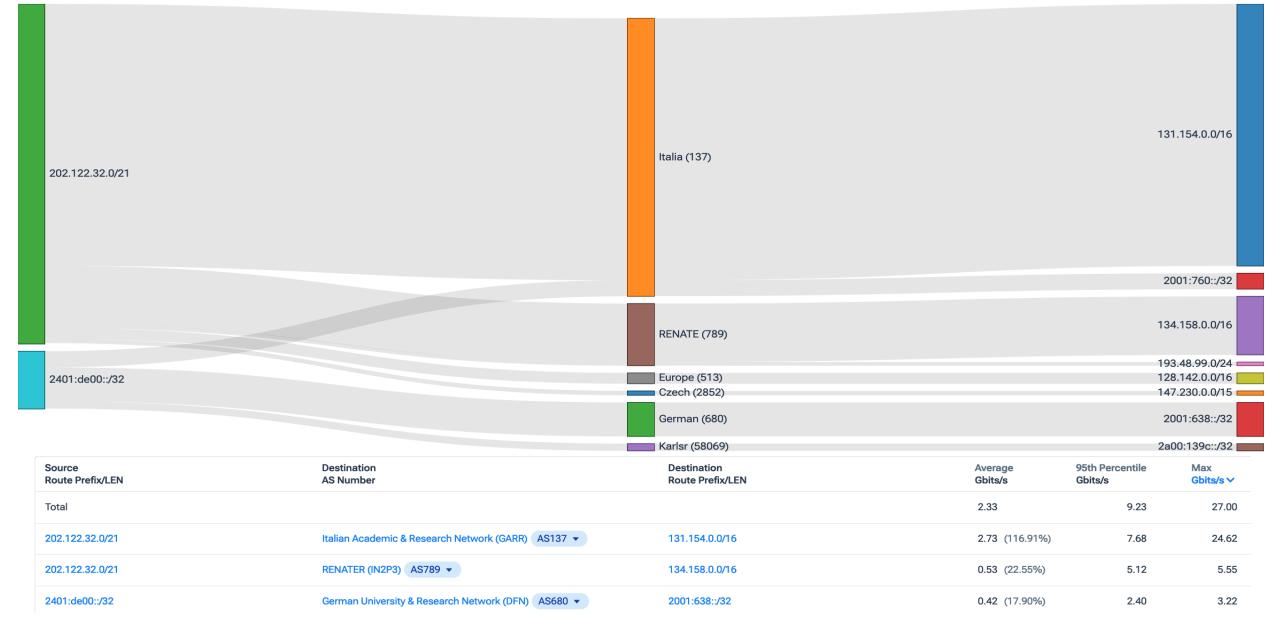








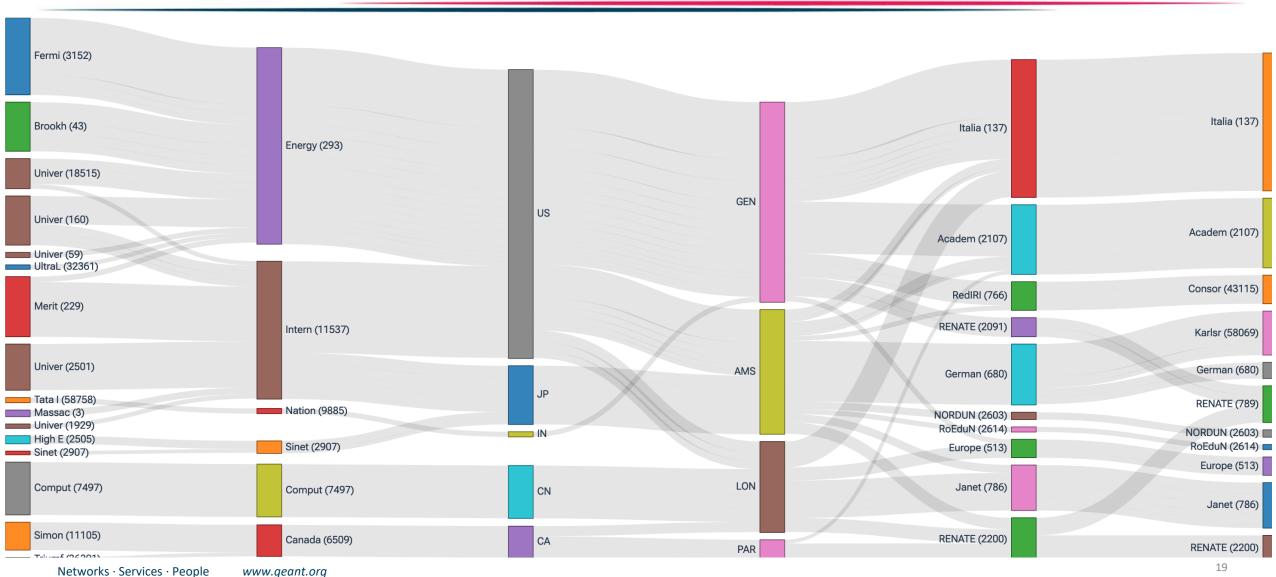




## On demand analysis – Global to GÉANT

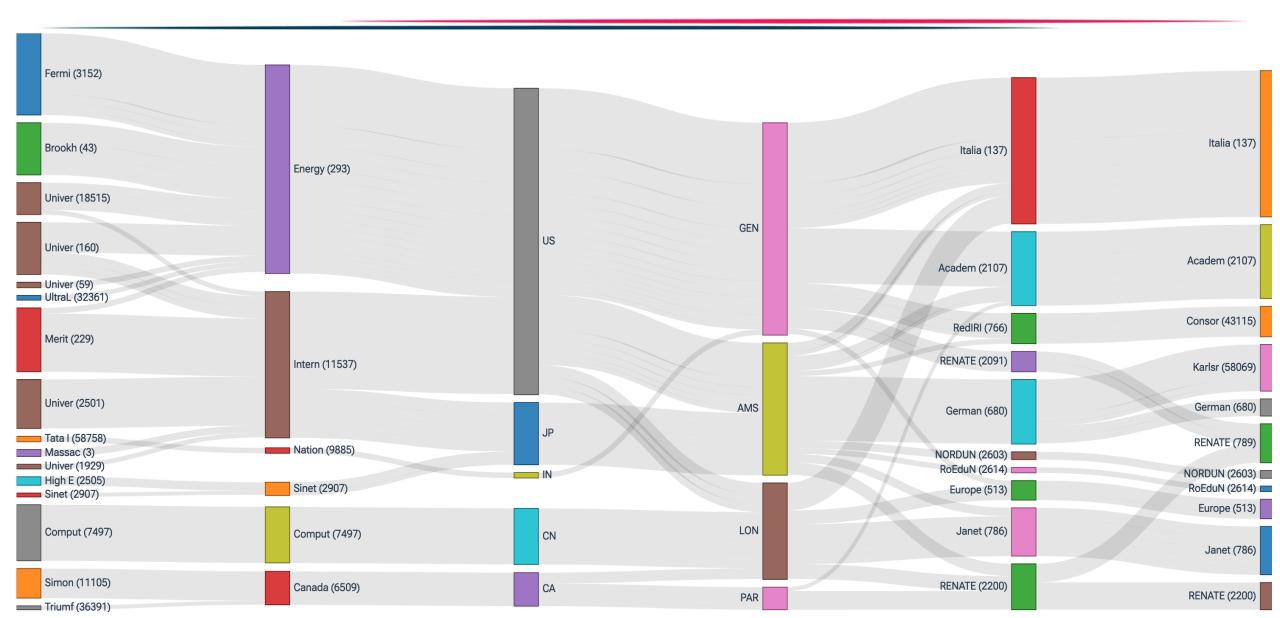
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## On demand analysis – GÉANT to Global





#### **NRENs** news



- New LHCONE joiners (now in operation):
  - SWITCH (University of Bern-LHEP)
  - FCCN (NCG-INGRID-PT)
- GARR access upgraded to 2 x 300G (MIL, MAR)
- RENATER access upgraded to 400G in GVA, 300G in PAR (about to become 400G)

# Thank you!

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Thank you

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