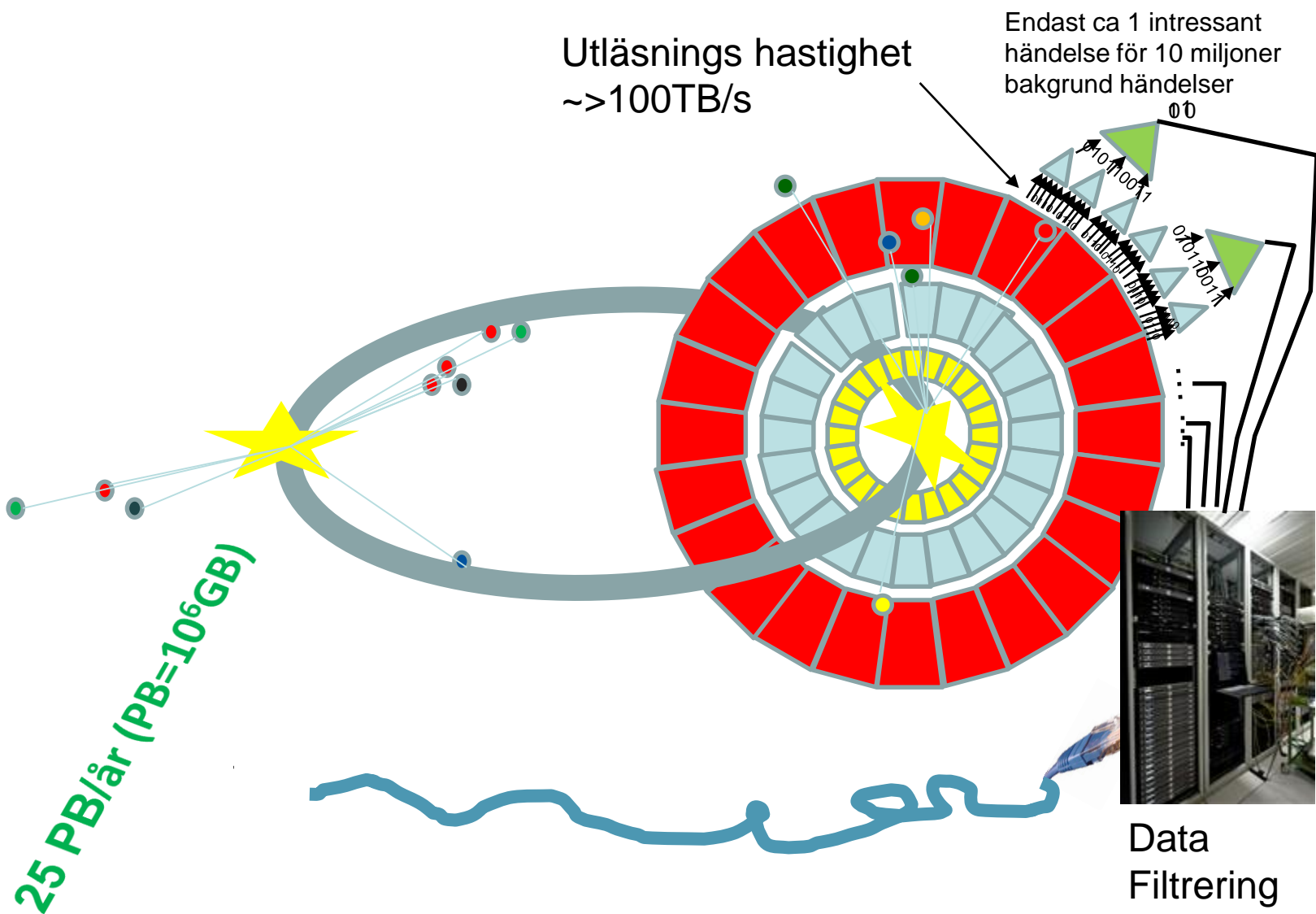
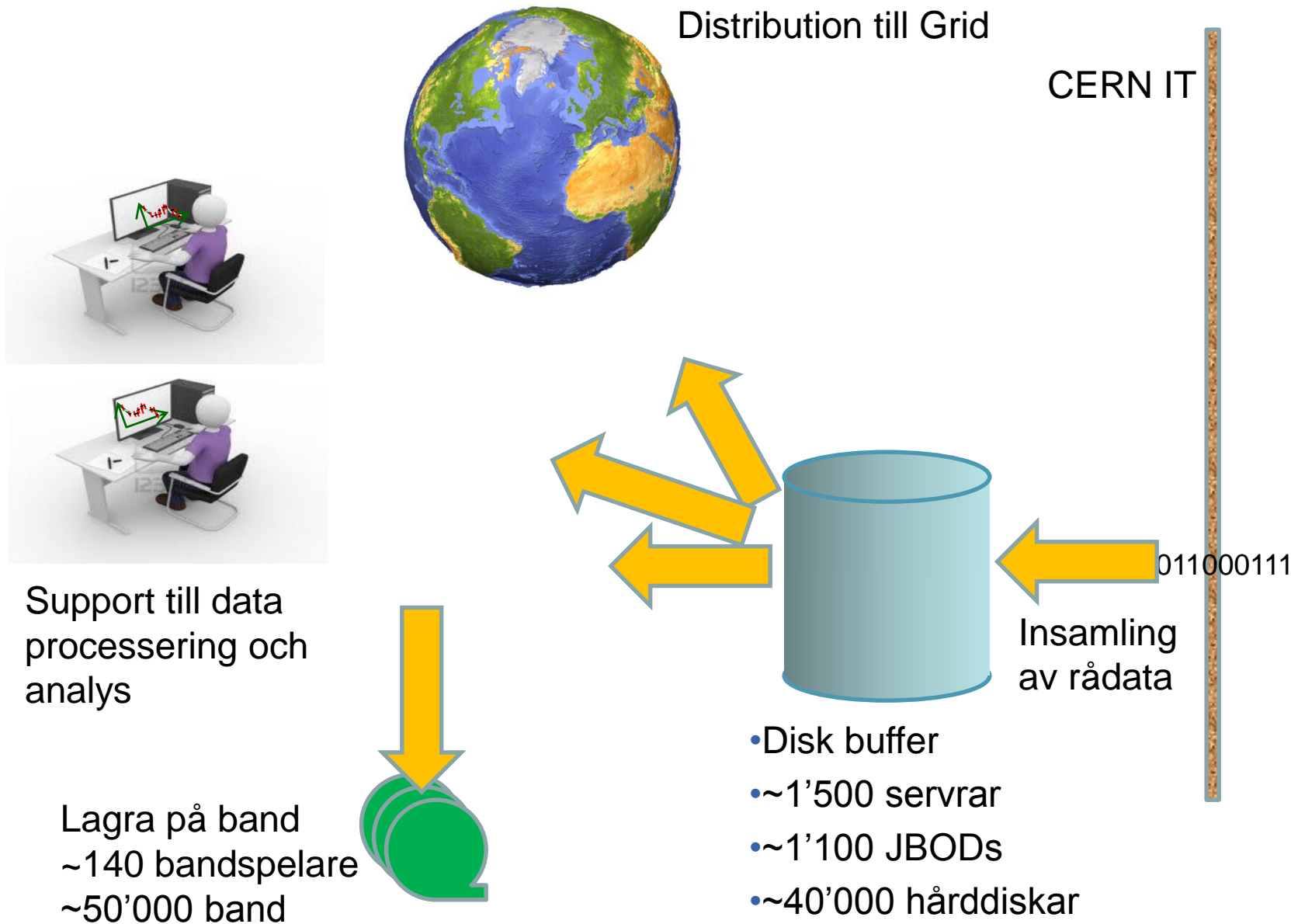


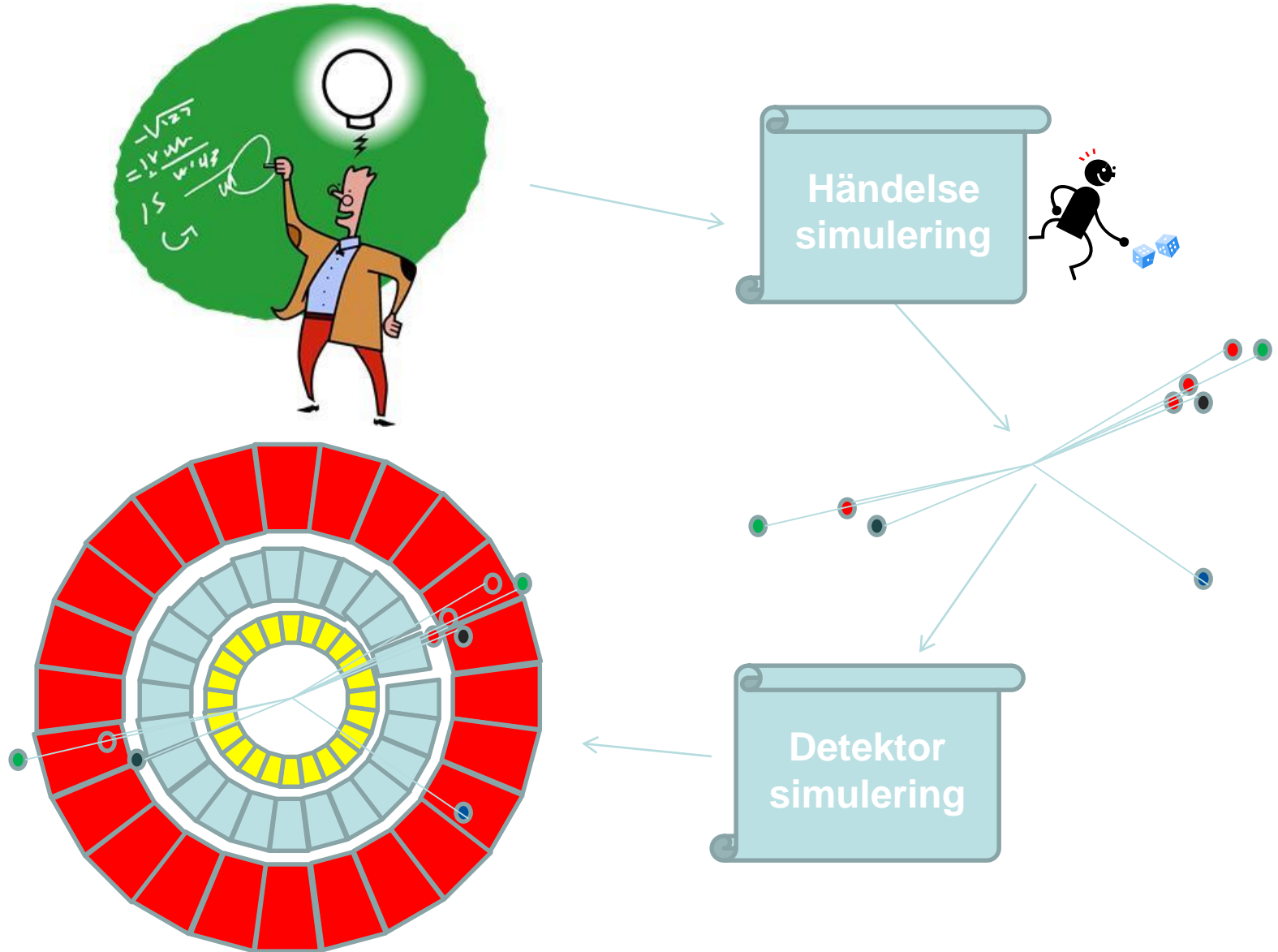
CERNs datorcenter

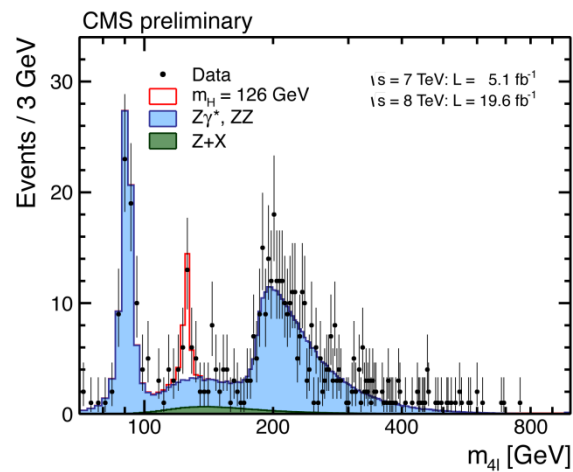
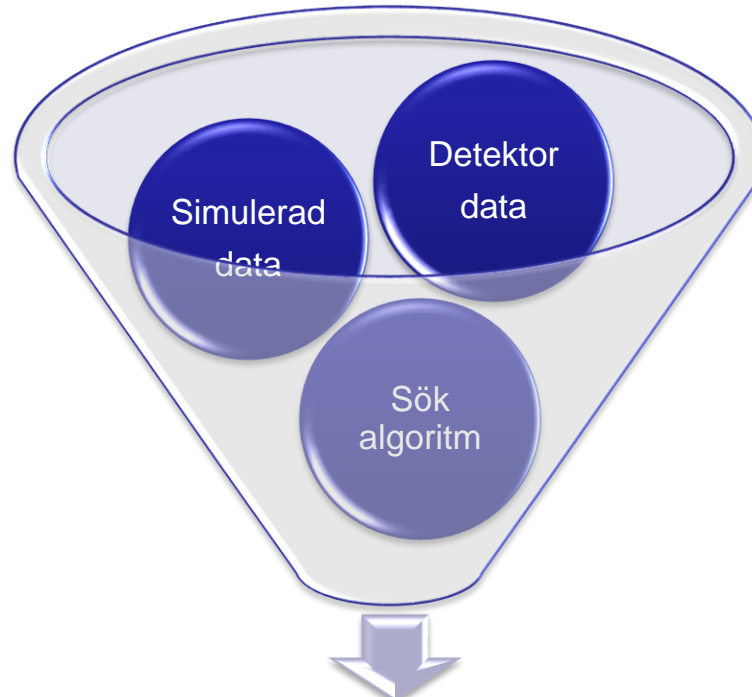
Från partiklar till bitar





Monte-Carlo Simulering





Datacentralen i siffror

Overview: Data Centre

a day ago to a few seconds ago

MEYRIN DATA CENTRE

	last_value
Number of Cores in Meyrin	117,567
Number of Drives in Meyrin	70,338
Number of Memory Modules in Meyrin	78,789
Number of 10G NIC in Meyrin	5,126
Number of 1G NIC in Meyrin	21,677
Number of Processors in Meyrin	21,071
Number of Servers in Meyrin	11,367
Total Disk Space in Meyrin (TB)	122,437
Total Memory Capacity in Meyrin (TB)	465

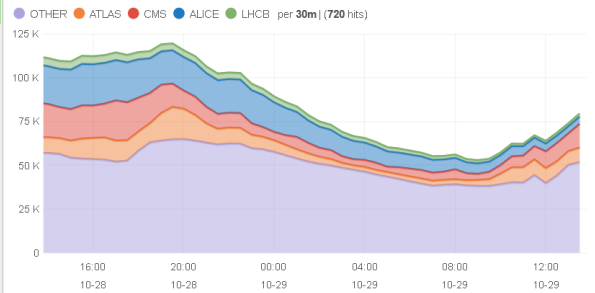
WIGNER DATA CENTRE

	last_value
Number of Cores in Wigner	43,360
Number of Drives in Wigner	23,184
Number of Memory Modules in Wigner	21,654
Number of 10G NIC in Wigner	1,399
Number of 1G NIC in Wigner	5,071
Number of Processors in Wigner	5,422
Number of Servers in Wigner	2,714
Total Disk Space in Wigner (TB)	71,745
Total Memory Capacity in Wigner (TB)	172

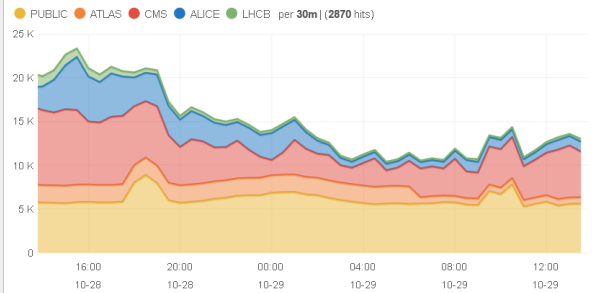
NETWORK AND STORAGE

	last_value
Tape Drives	104
Tape Cartridges	26,525
Data Volume on Tape (TB)	120,888
Free Space on Tape (TB)	44,283
Routers (GPN)	136
Routers (TN)	29
Routers (Others)	97
Star Points	649
Switches	3,571

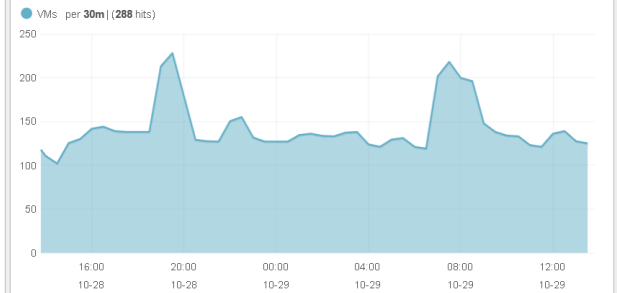
BATCH JOBS



EOS ACTIVE DATA TRANSFERS

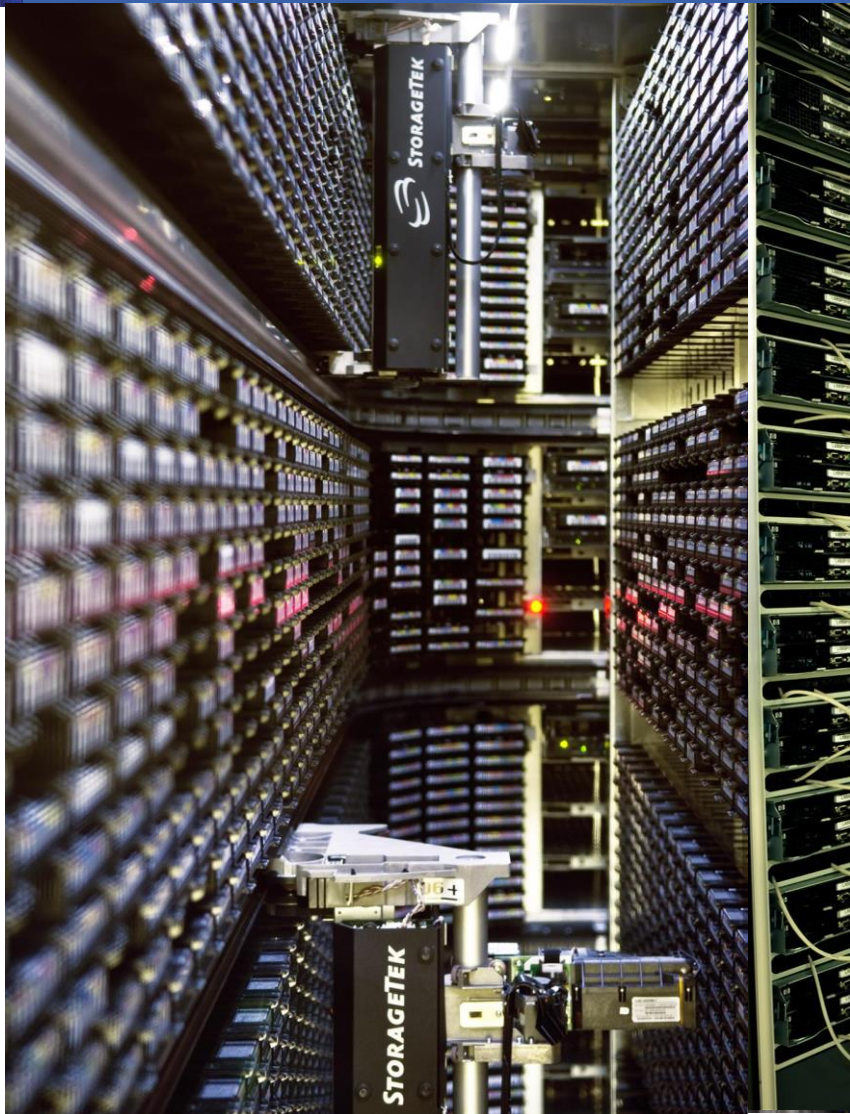


VM CREATED



ADD A ROW

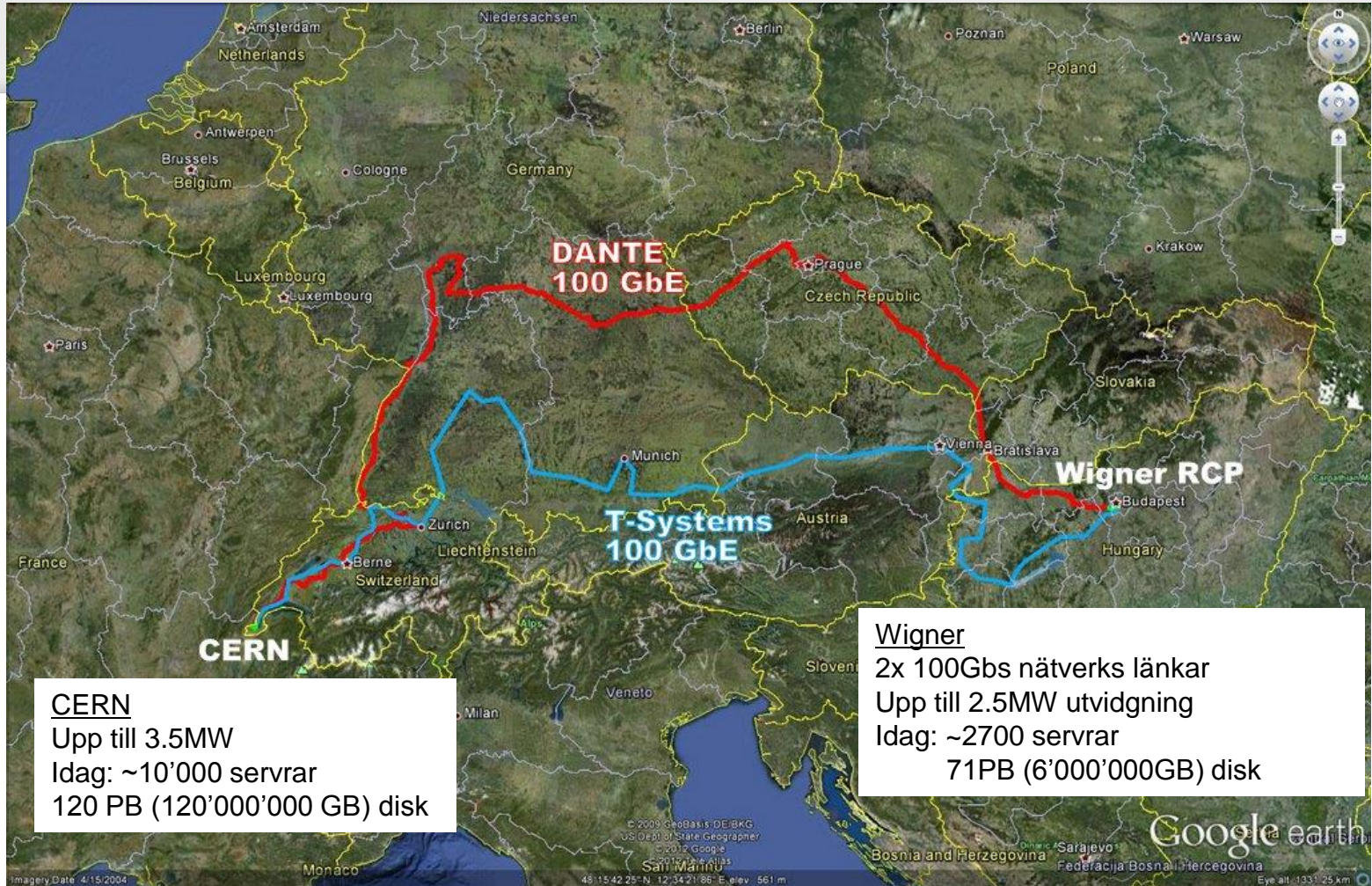
CERN data center



Utvidgning till Ungern

CERN Accelerating science

Sign in Directory



CERN
Upp till 3.5MW
Idag: ~10'000 servrar
120 PB (120'000'000 GB) disk

Wigner
2x 100Gbs nätverks länkar
Upp till 2.5MW utvidgning
Idag: ~2700 servrar
71PB (6'000'000GB) disk

The CERN Tier-0 data centre extension in Budapest adds up to 2.5 MW capacity to the 3.5 MW IT load of the Geneva data centre, which has already reached its capacity limit. The contract with Wigner started in January 2013 and can carry on for up to seven years. The

LHCf
MoEDAL
TOTEM

Wigner data center



- Wigner kontraktet går ut 2019
- Nytt co-loc
- ... eller kanskje “publikt moln”?
 - Vi har privat moln i produktion sedan 2013
 - ~5'000 datorer med 15'000 virtual serverar