

Data Science Driving Discovery

ESnet

Inder Monga

Director, ESnet

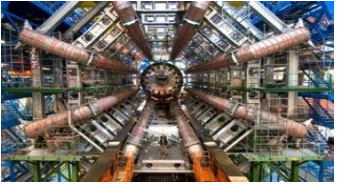
Division Director, Scientific Networking

Lawrence Berkeley National Lab



Rapid increase in data rates and number of data sources

large experimental facilities ...



- Complexity of scientific discovery increasing
- Data volumes are increasing > Moore's Law
- Fewer large facilities, but global scientific population

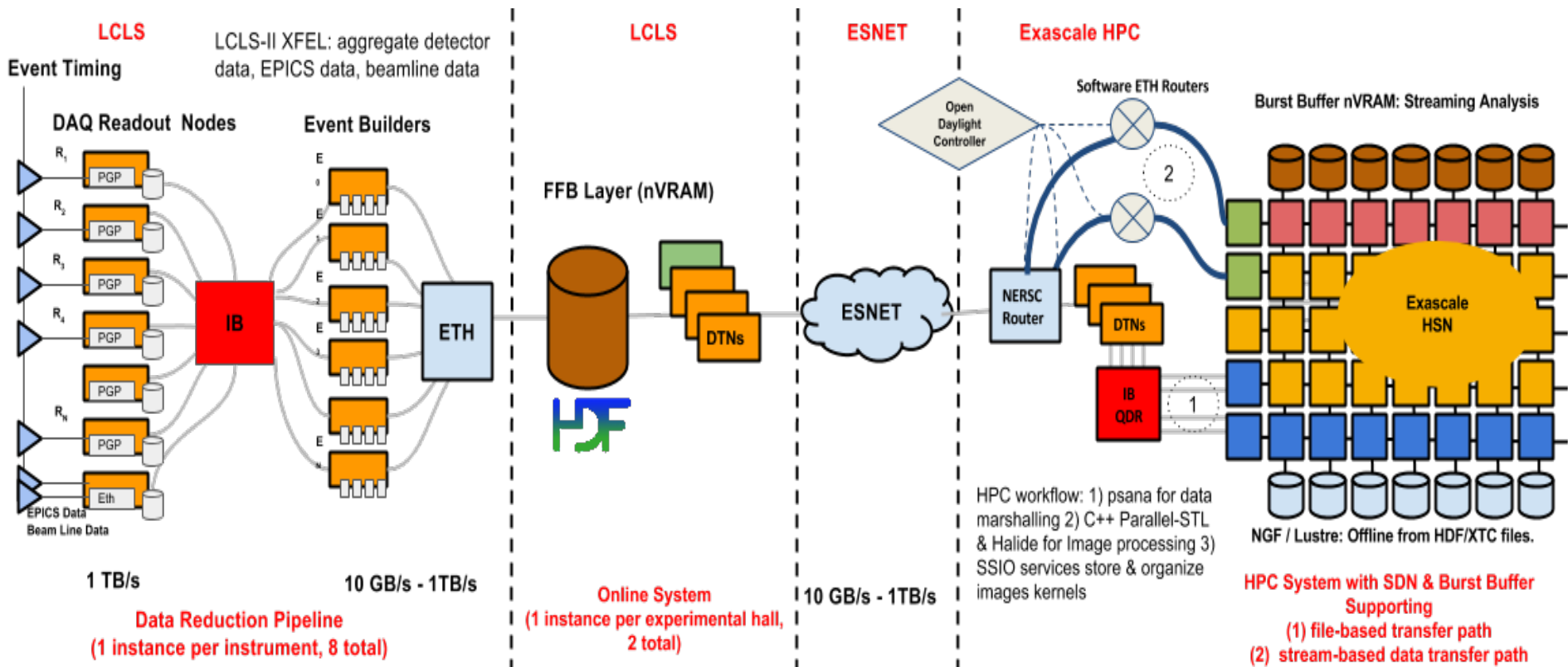
Automated coupling of **compute and storage with networks** critical to increasing science productivity

..and smaller, new data sources.



LCLS to NERSC – ECP ExaFEL project

Providing atomic scale vision to researchers at beamline in < 10min



Superfacility: Integrated network of experimental and computational facilities and expertise

