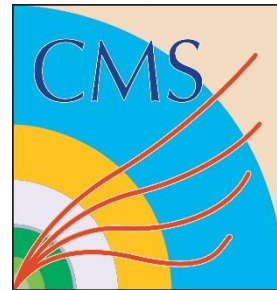


High Performance Computing In High Energy Physics

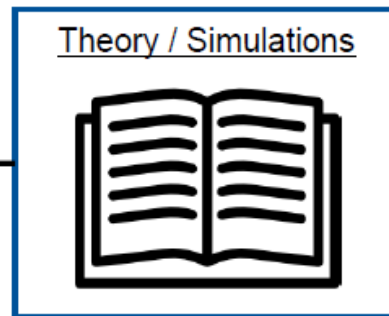
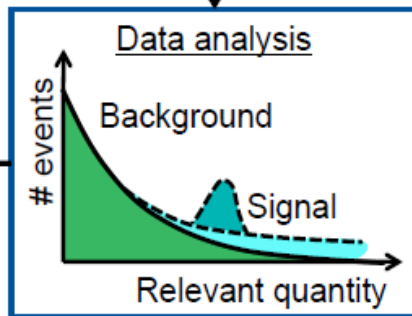
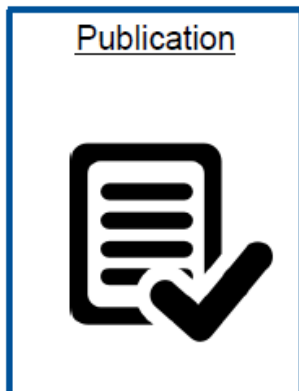
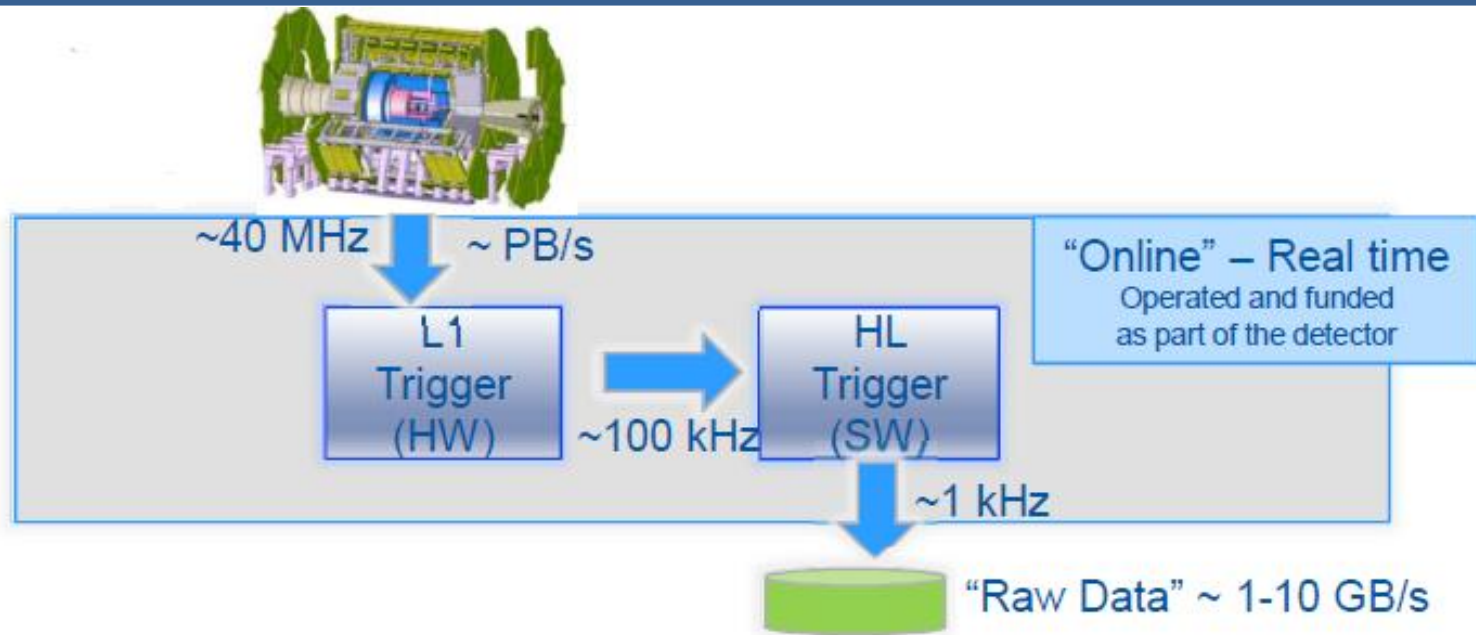
Lizardo Valencia Palomo



The Large Hadron Collider



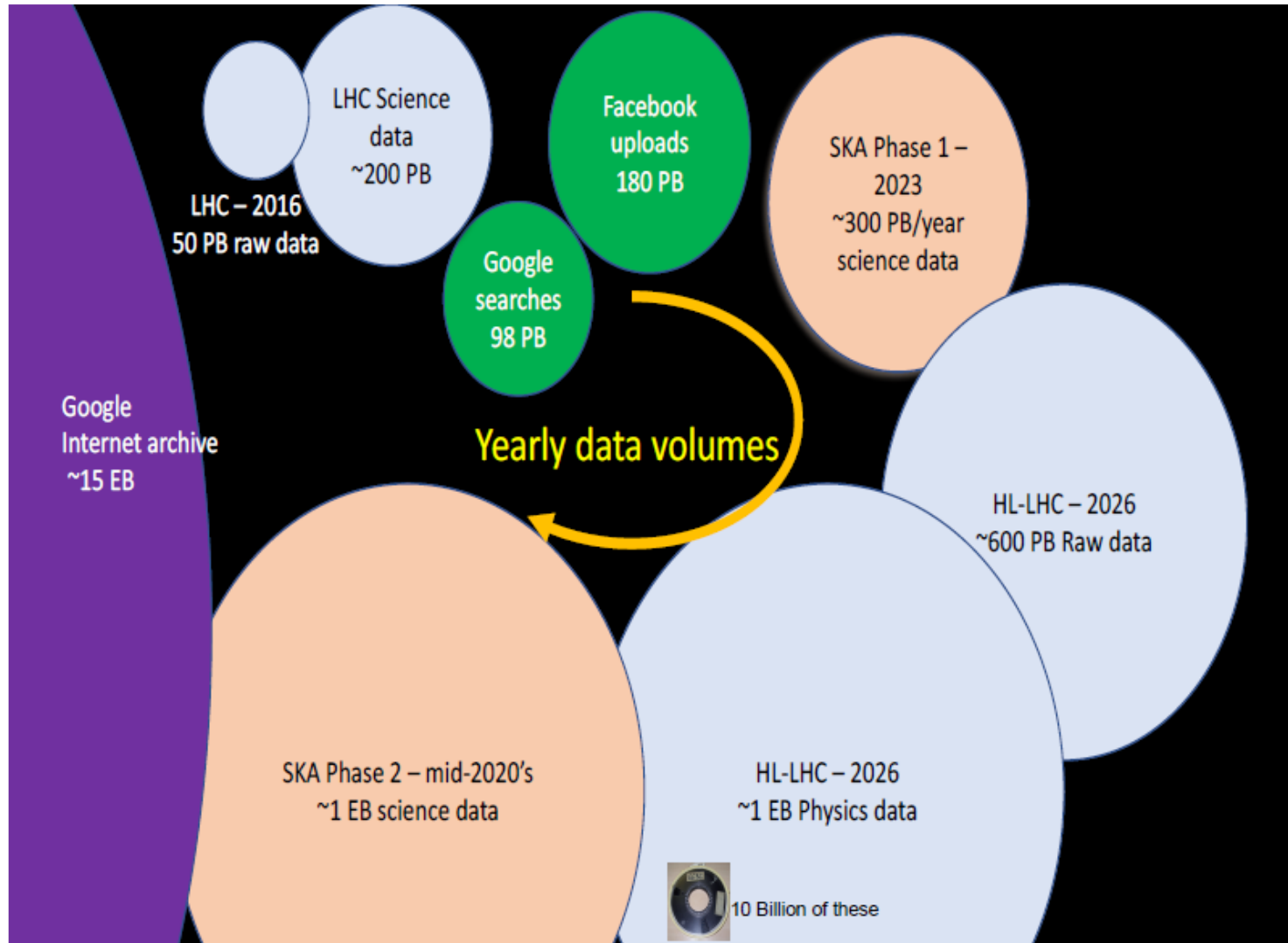
LHC data



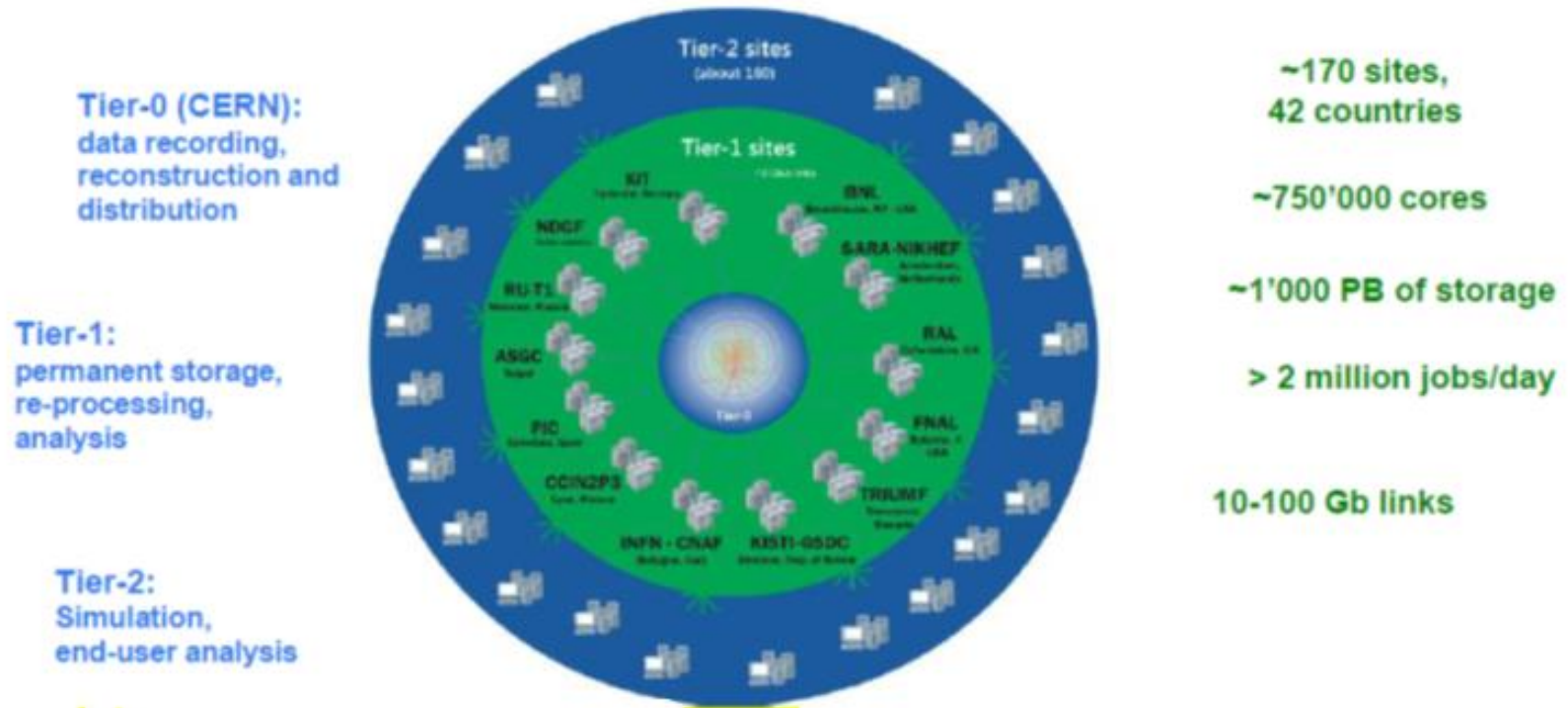
Raw data: sensor hit, energy deposit, time, etc.

Reconstructed data: momentum, origin, particle ID, etc.

LHC data



Worldwide LHC computing grid



WLCG: international collaboration to distribute and analyse LHC data.

Integrates computer centres worldwide that provide computing and storage resources into a single infrastructure accessible by all LHC physicists.

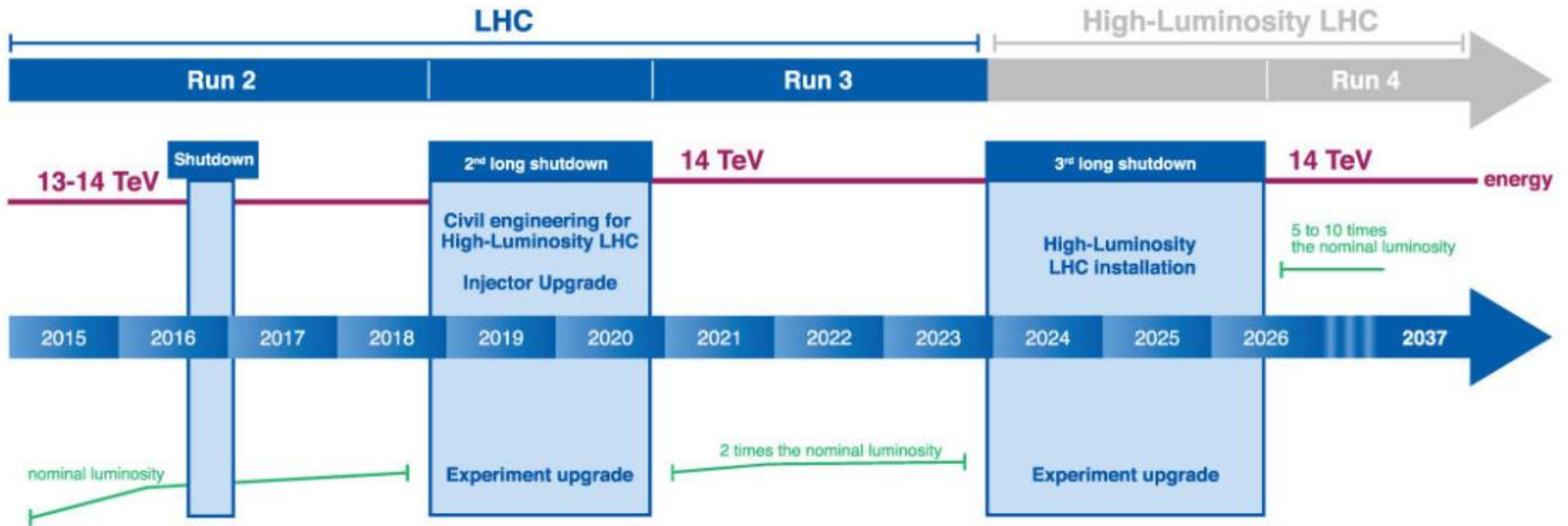
Worldwide LHC computing grid



Worldwide LHC computing grid



High Luminosity LHC



High Luminosity LHC

