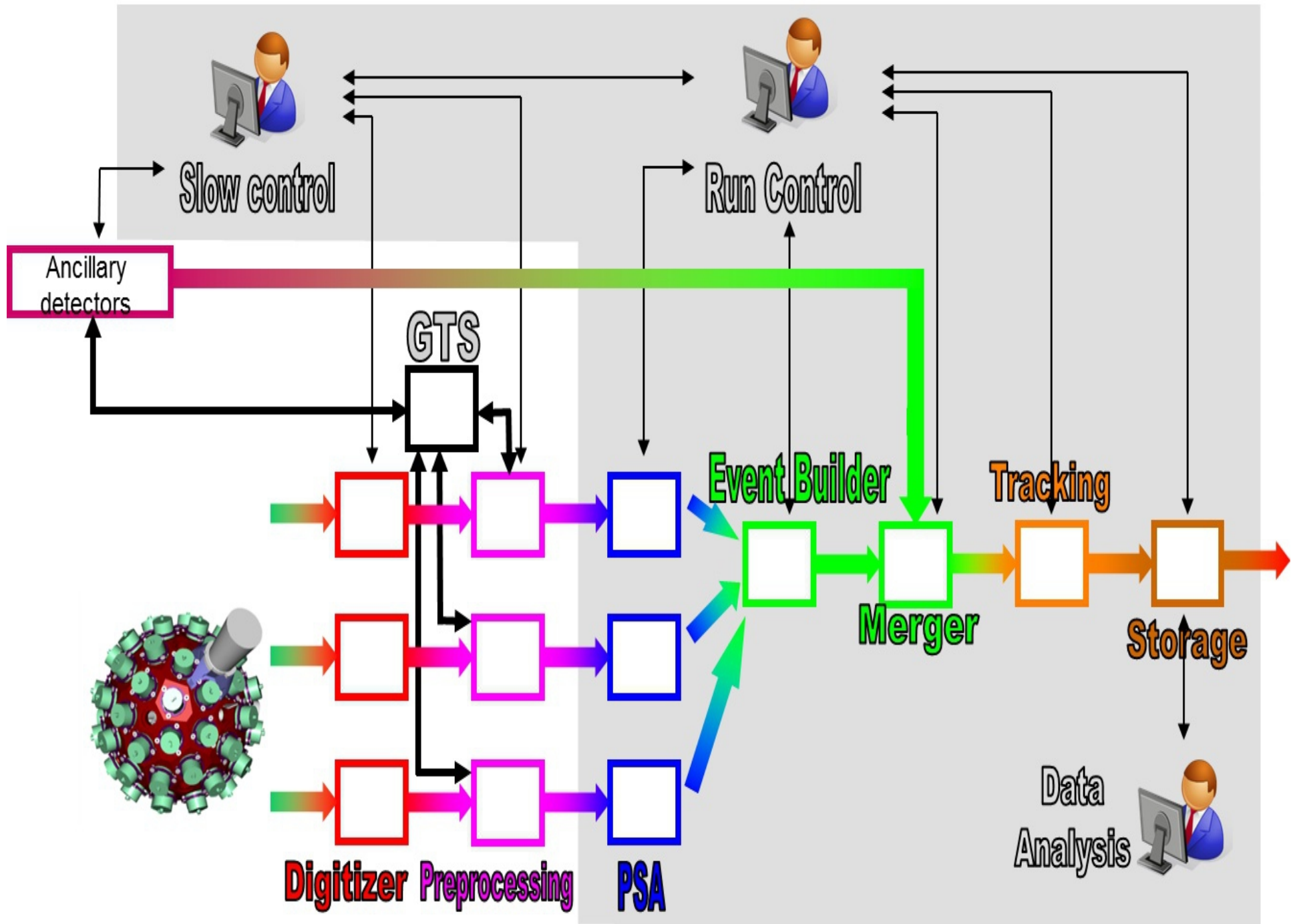


Data Flow Future upgrades : Software Trigger Processor



DAQ

Upgrade/New Monitoring Software to be added in the system

More informations into the data flow during the runs : Crystal failure, LN2 filling, ...

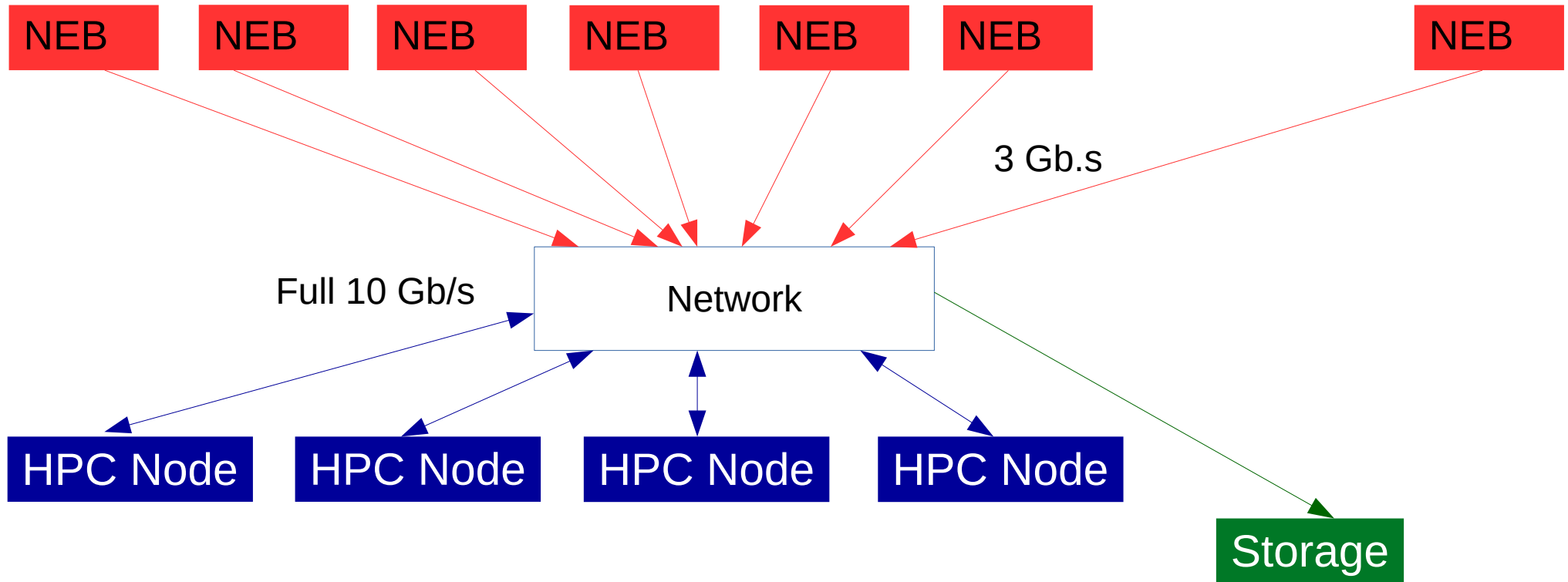
Online processing with new couplings : new architecture/new technologies

Readout load balancing

different PSA algorithms can be used depending on the event complexity

New trigger software

Software trigger Processor design in the framework of the New Electronics Boards (NEC)



New Electronics : Based on Ethernet >>>> No point to point Electronic Boards anymore

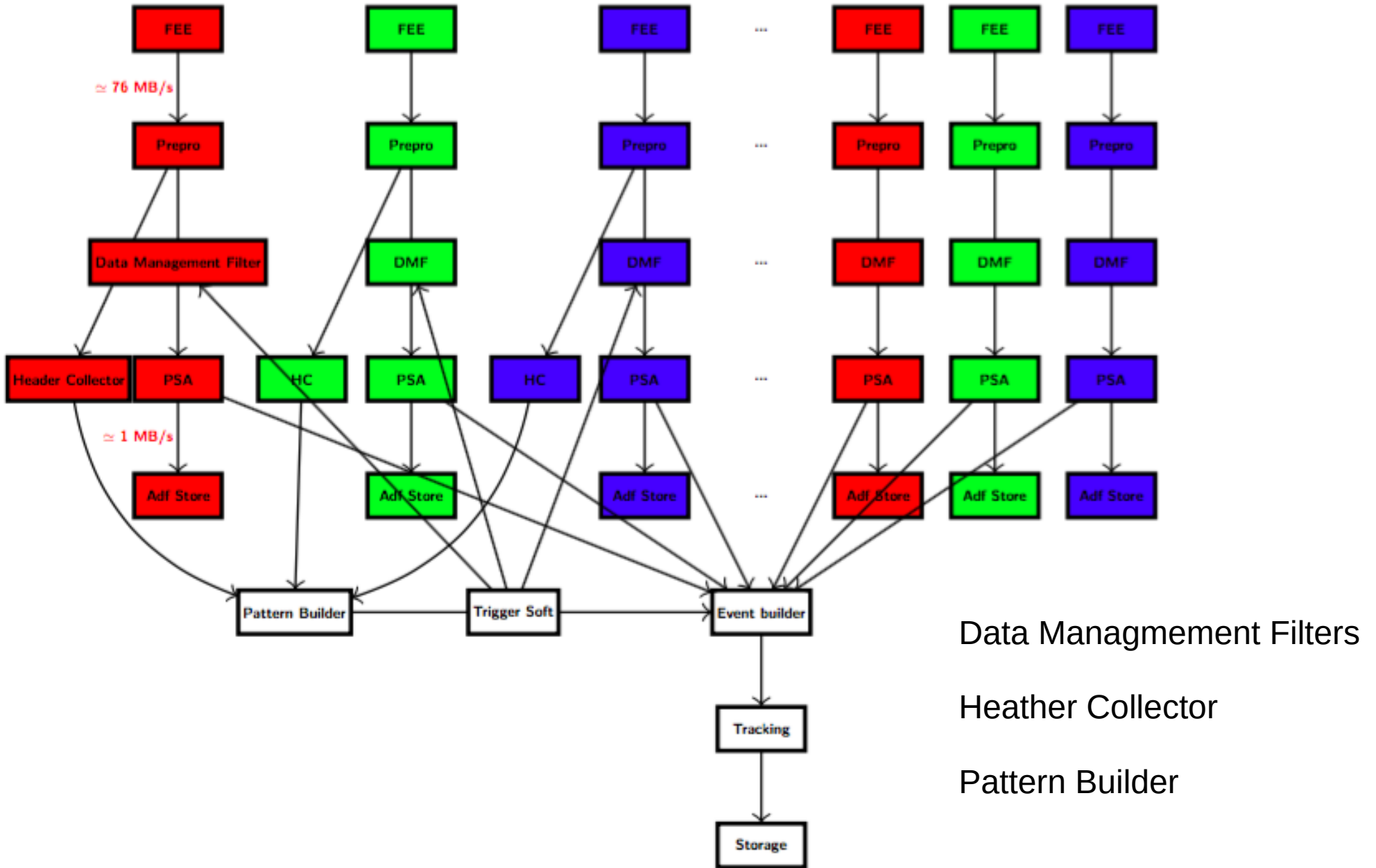
CPU can be distributed over High Performance Computer farms (HPC) :

Not necessary 1 node/crystal with the load balancing and new technologies

DCOD (PMH-CTL-NARVAL): Easy to upgrade from 1π to 4π

AGATA Evolution : Trigger software Processor under test

Running Narval 2. under DCOD 1. >> PSA performance 10 kHz



Main message :

The Trigger Software Processor ready since last year

A detailed presentation was given by Xavier Grave at the lats Agata-week

Now : Need to be tested at GANIL

October 2018