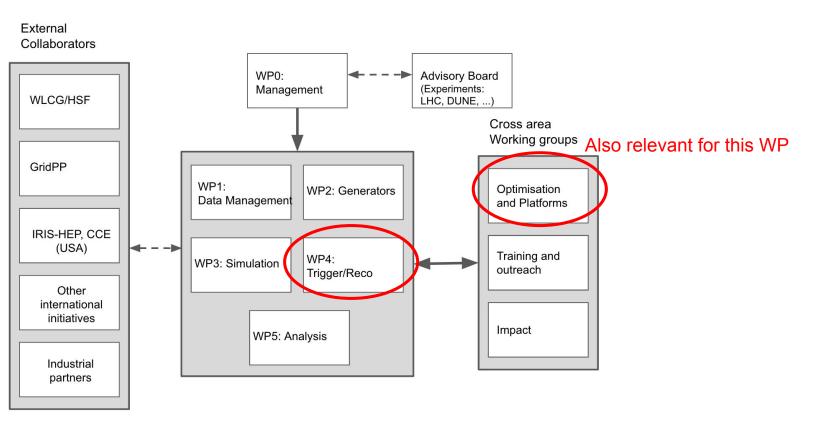
PPRP Proposal HEP Software UK (Trigger/Reco WP4)

18 June 2020

Davide Costanzo



Organisation



Davide Costanzo ECHEP meeting 15-May-2020

Current thinking of the work on WP4

- This needs to be cross-experiment
 - In the sense that prototypes and ideas developed can be ported
- WP4.1 to develop tracking code on FPGA
 - Interest for HL-LHC to be used in Triggers (both L1 and HLT)
 - Prototype development **beyond** what is already funded
 - Could be implemented in offline code on a longer time scale?
 - Kalman filter and Hough transform development, where there is already expertise
- WP4.2 Optimisation and portability
 - Scheduling of GPU work .
 - Could the experience of Allen (LHCb) be used more broadly?
 - How do we turn this into a package of work?
 - Optimisation of code.
 - Generic code optimisation person shared across WPs?
 - Key for any new code developed for CPU and accelerators.

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