Ideas for Work Packages

❖ Excellent joint discussion with RDC4 yesterday. Clearly some work packages involving both RDCs

❖ BRN PRD 21 related
  ▪ Intelligent data reduction and processing (with RDC4)
    o Real-time / low-latency data reduction and feature extraction
    o Fast artificial intelligence and neuromorphic computing on real-time hardware
  ▪ Link technology (with RDC4)
    o High-bandwidth, rad-hard, low-power optical link (>50Gbps)
    o Wireless readout

❖ BRN PRD 22 related
  ▪ Intergrading modern computing architecture and emerging technologies
  ▪ Self-running DAQ system

❖ BRN PRD 23 related
  ▪ Timing distribution with picosecond synchronization (1ps over 1 km) (with RDC4)