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)