

# CRISP WP18

## Agenda

Introduction (KW)

Benchmarking of storage systems – Frank Schluenzen (DESY)

10Gpbs Network Tests with UDP – Janusz Szuba (European XFEL)

Data protection model – Jean-François Perrin

Discussion on data protection requirements

# Milestones

- Milestone MS3 achieved  
Requirements for high-speed data recording system
- Ongoing work on MS8  
Requirements for data protection  
Milestone delayed

# Identified synergies

- **Using 10GE network for high throughput data transfers**
  - Optimal network design and hardware experience
  - Experience in using various protocols like UDP or TCP (data bandwidths, error handling, analysis of packets losses)
- **Online data processing models including**
  - Data aggregation from multiple sources
  - Parallel data processing (concurrent access to memory)
  - Quality monitoring
  - Data rejection
  - Data compression
  - Data formatting
  - Fast data analysis
- **Writing data to storage**
  - Local buffers for safety and efficiency
  - Separation between online and offline environment
  - Testing cluster file systems
  - Concurrent access to filesystem
- **Data archiving**
  - Archiving strategies
  - Consistency checks