

AIDA-2020 WP5: Data acquisition tools for beam tests

After AIDA-2020 ?

David Cussans, 28/April/20



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 654168.

- Described at <https://aida2020.web.cern.ch/activities/wp5-data-acquisition-system-beam-tests>
- Four tasks:
 - 5.2 Interface, synchronisation and control of multiple-detector systems (TLU)
 - 5.3 Development of central DAQ software and run control
 - 5.4 Development of data quality and slow control monitoring
 - 5.5 Event model for combined DAQ



D5.1	Interface definition	M15	05/09/2016
D5.2	Trigger Logic Unit ready	M30	15/12/2017
D5.3	Data acquisition software	M30	06/12/2017
D5.4	Data acquisition hardware	M30	22/12/2017
D5.5	Online event data model	M30	30/11/2017
D5.6	Common DAQ system used in combined beam tests	M57	31/01/2020



MS25	Definition of detector interface standards with common DAQ	M15	15/08/2016
MS43	Trigger logic unit (TLU) design ready	M21	06/02/2017
MS46	EUDAQ interfaces to other DAQs available	M24	23/06/2017
MS47	Online event data model available	M24	09/06/2017
MS62	Development of run control ready	M27	31/07/2017
MS66	TLU hardware, firmware and software ready for tests beams	M30	30/11/2017
MS67	Data quality monitoring tools ready	M30	06/11/2017
MS68	Slow control system ready	M30	18/12/2017
MS80	Common DAQ system ready for combined test beams	M36	19/04/2018



- Deliverables delivered
- Milestones passed

- Congratulations to all involved.
 - Alas, Champagne / other sparkling wine / *etc.* virtual



- **INFRAINNOV-04-2020: Innovation pilots**
 - 22.5 M€:
 - 10 M€ EC contribution
 - 12.5 M€ Matching funds
- **Currently scheduled to start Q1/2021**
 - If funded.



- Gap between end of AIDA-2020 and (possible) start of AIDAInnova
- Retain maximum usefulness of tools developed
 - Produce more TLUs
 - Reduce need to “fork” EUDAQ
 - Or at least maintain some compatibility between forks

