

# Turnkey 1.2: PODIO

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# Goals for this task

Improved version of PODIO with additional I/O systems such as HDF5 and SIO implemented in addition to ROOT in a coherent way. Develop EDM4hep as a basis for the Turnkey Software Stack based on PODIO.

- PODIO already used by FCC studies
  - Not battle-proven in large Monte Carlo Campaigns yet
- PODIO chosen as implementation for EDM4hep (event data model of turnkey stack)
  - Make sure PODIO has optimal performance: memory and I/O
  - Make use of different I/O formats coherent and easy to use
- Also work on implementing EDM4hep in this task
  - Not originally in EOI

# Person Power and Institutes

- Continue the successful collaboration of DESY and CERN on this project
- DESY will be lead institute
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- both have groups working on HEP software
  - Finding experienced people should be straight forward
  
- Effort: 36 ppm
- funding : 12 ppm = ~80 kEUR