

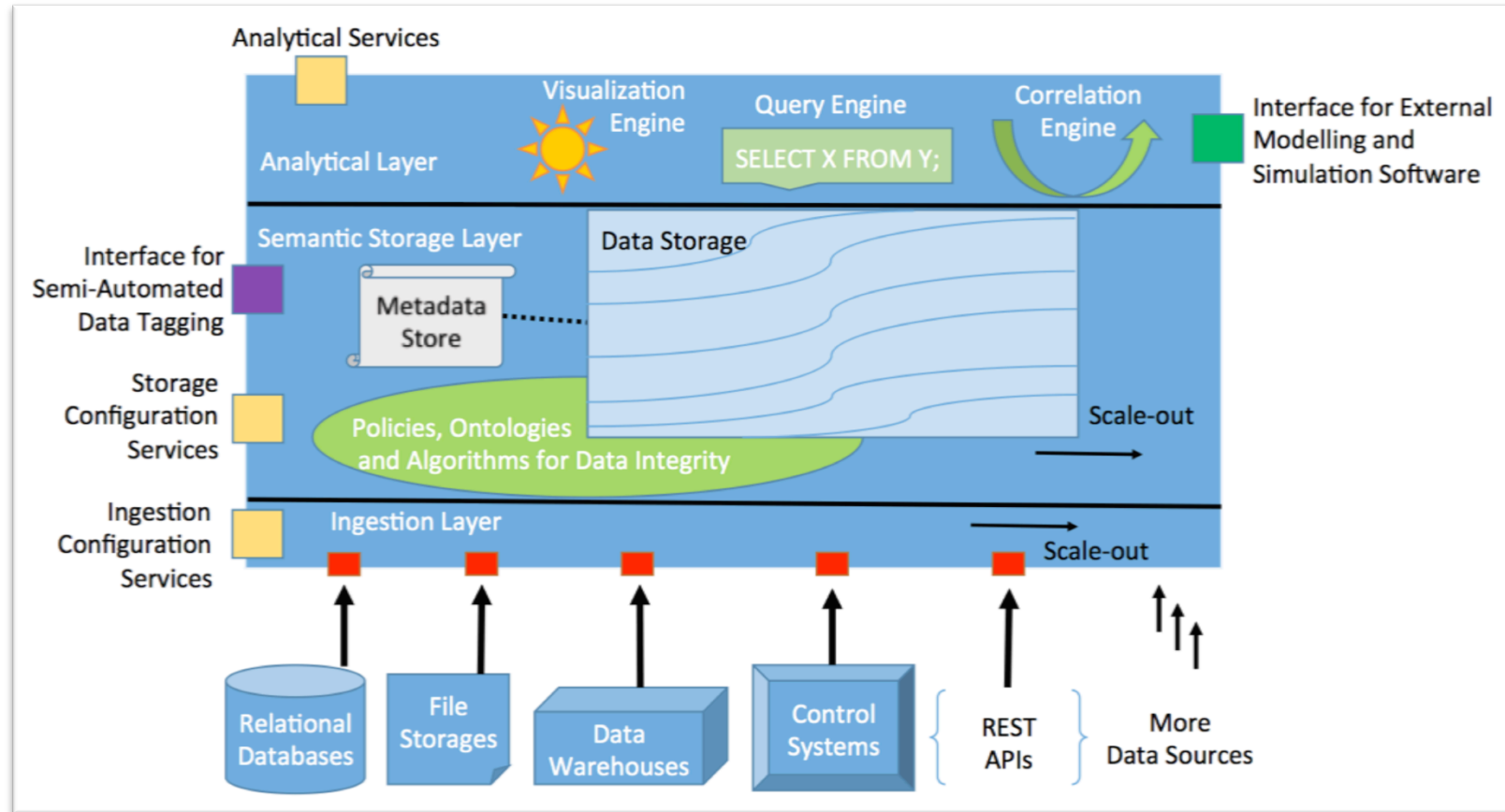
Big Data Analytics for Future Circular Collider Reliability and Availability Studies

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Highlights

- International FCC Reliability and Availability study examines LHC and its injectors in order to assess the potentials of industrial reliability engineering methods in the domain of particle accelerators
- Evaluate the feasibility and operability of large scale collider (100 km perimeter)
- Computer science challenges: data integration and diverging data quality
- Challenges approached by the Data Analytics Platform with Data Lake architecture
- Based on CERN IT Hadoop Service
- Evaluated by use-cases, e.g. SPS Beam Quality



Reliability and Availability Data Analytics Platform