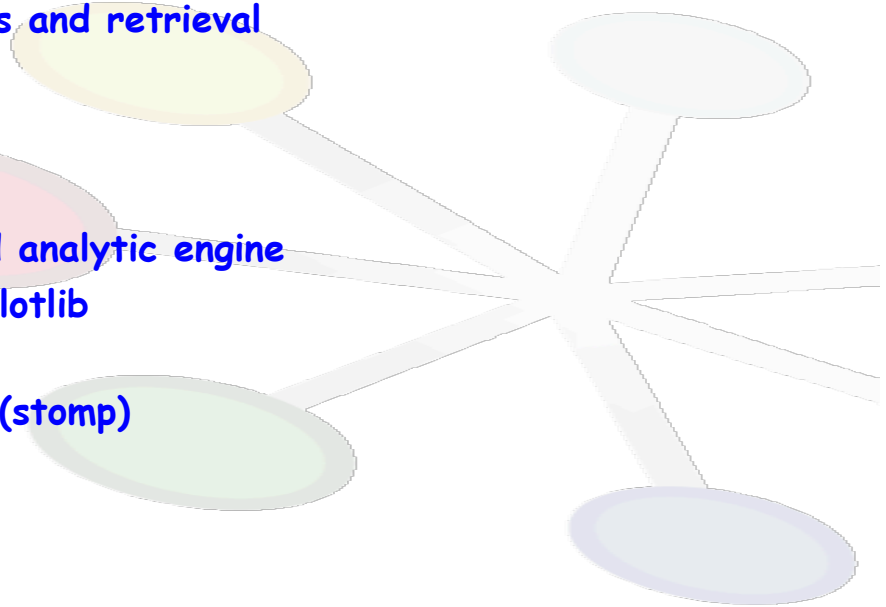
- Based on DIRAC framework and designed for:
  - Real time monitoring (WMS jobs, DIRAC components, etc.)
  - Managing semi-structured data (in our case JSON)
  - Efficient data storage, data analysis and retrieval
  - Provide good quality reports

- Use the following technologies:
  - Elasticsearch distributed search and analytic engine
  - DIRAC Graph library based on Matplotlib
  - DIRAC web framework
  - Messaging queue system as failover (stomp)



Plot creation within DIRAC framework

- Dedicated Plotter for each Monitoring type
- ReportGenerator based on DIRAC Graph library used to create the plots using the appropriate Plotter
- Plots are created on the service side using two level caching mechanisms:
  - DataCache: data used to create the plots kept in memory
  - FileSystem: plots stored in the file system
- The DIRAC web framework provided all functionalities used to visualize the plots (see CHEP2015 paper):
  - Does not require to learn external tools
  - Very simple selectors
  - Use of existing tools
  - Customization
  - Good quality plots
  - Authentication and authorization
  - Plot sharing/export mechanism