CERN

Implementation of the WLCG Space Accounting Data Flow

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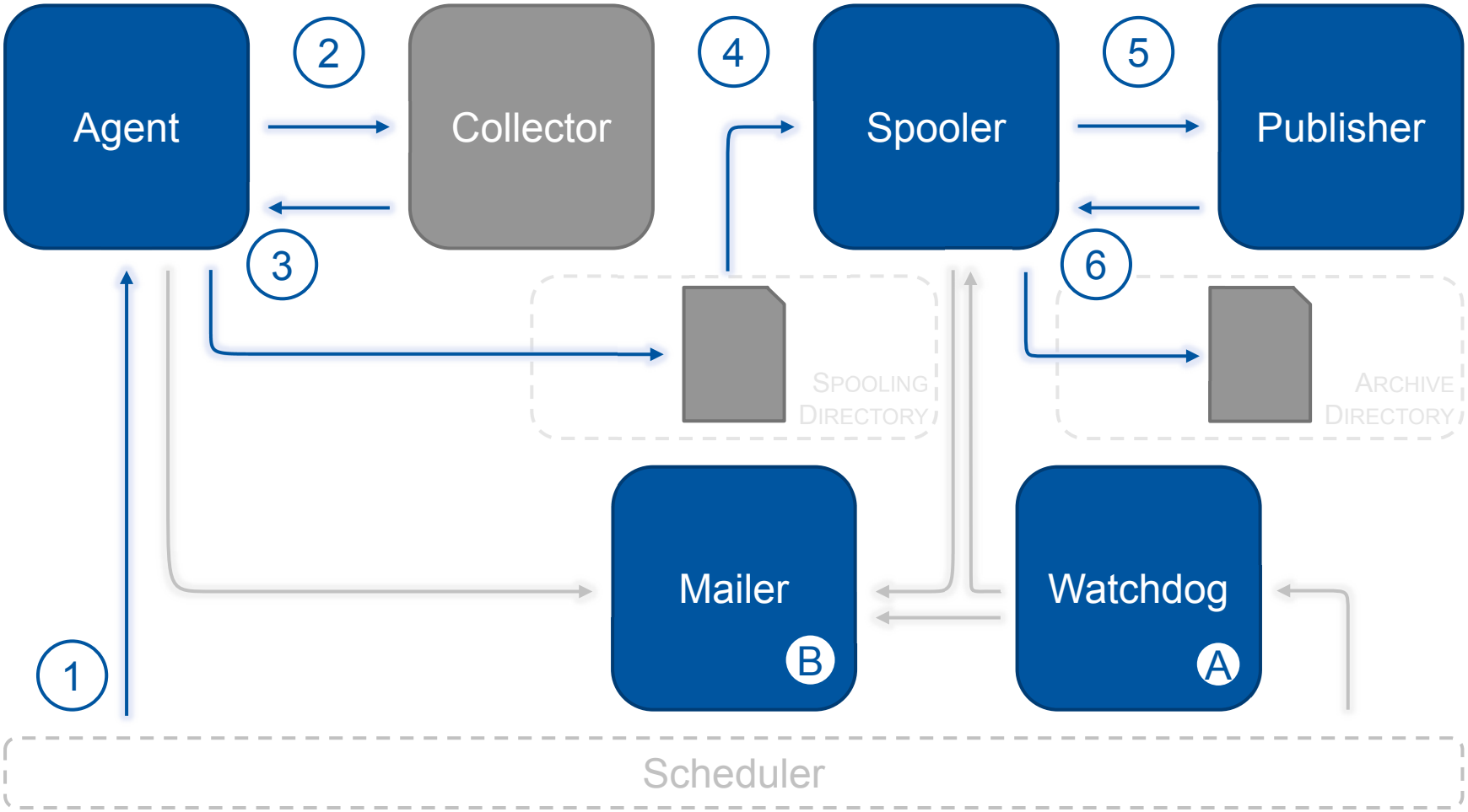
Introduction

- Work in progress
- Currently entering prototype phase
- Design is adaptable to interface implementation by storage providers
- Feedback is appreciated

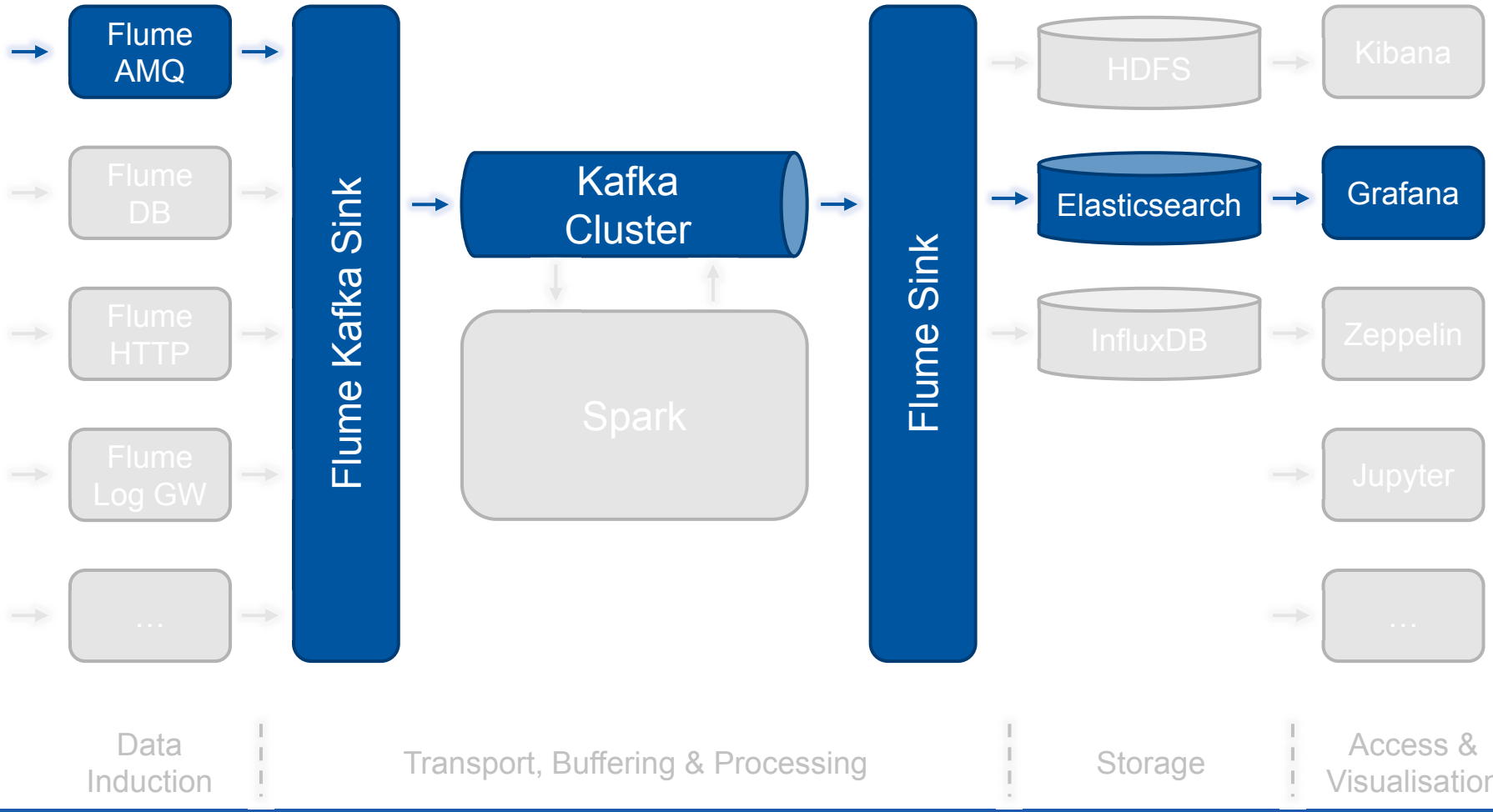
Project Architecture



Data Structure

```
[
  {
    timestamp_collect: "2017-03-31T13:15:48+02:00",

    site_wlcg: "CERN-PROD",
    storage_area: "DATADISK",

    vo: "ATLAS",
    tier: "Tier-0",
    country: "Switzerland",
    federation: "CH-CERN",
    type: "Disk",
    implementation: "EOS",

    used: 6075847615821066,
    free: 1074153284178934,

    total: 7150000000000000,
    pledge_federation: 25000000000000,
  },
  {
    …
  },
]
```

Monitoring Architecture



User Interface

Time Range

Granularity

Group By

VO

Tier

Country

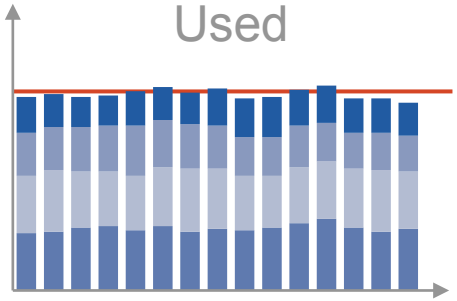
Federation

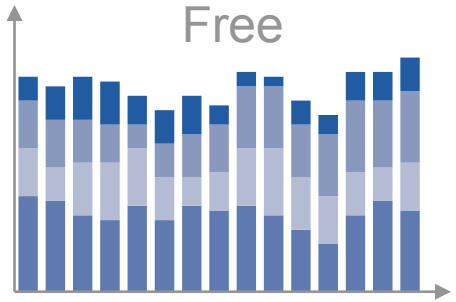
Site

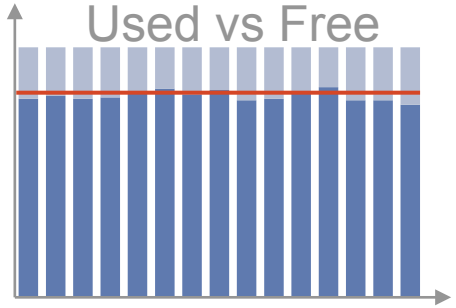
Storage Area

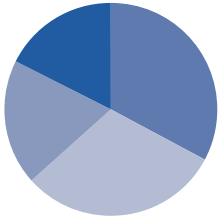
Type

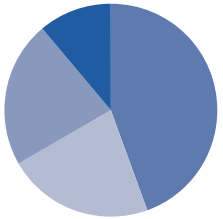
Implementation

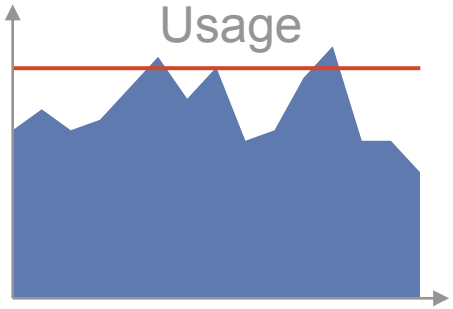












Plan

- Implement placeholder Collector (using data from ATLAS) and Publisher
- Create dashboard on Grafana
- Implement rest of the modules
- Package and deploy
- Replace Collector
- Perform data validation

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