CERN as external Partner

by Markus Elsing

- Task Area II :
  - ➡ Data-Lakes, Distributed Data, Caching

Introduction
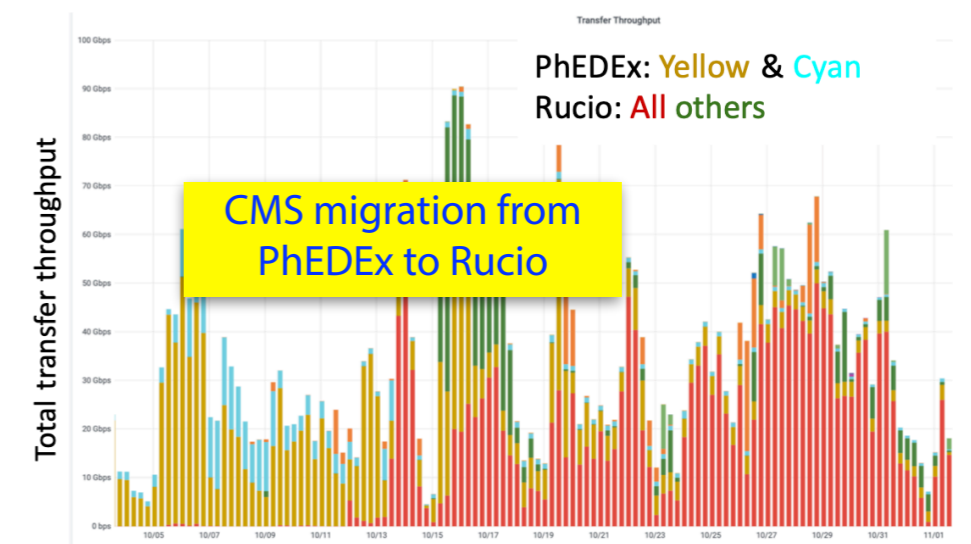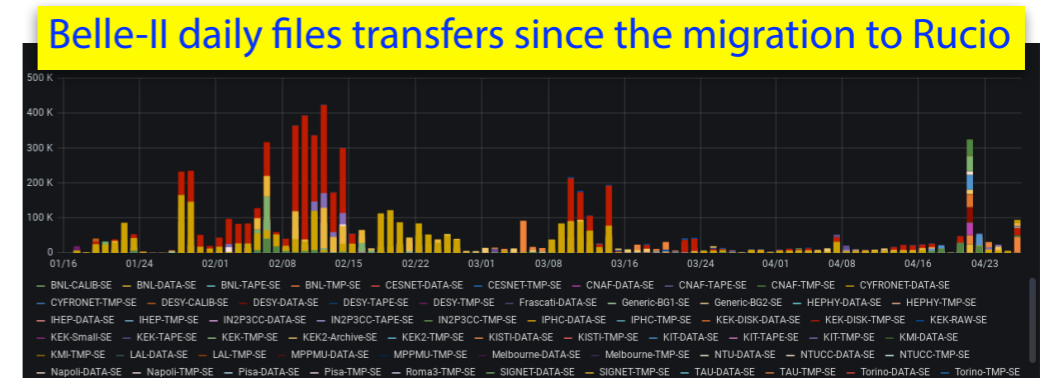
- **Group is driving HEP Data Management since years**
  - ➡ Rucio open source project, DDM system originally for ATLAS
  - ➡ now-a-days used also by CMS, Belle-II, and community list is growing...

ATLAS managed data exceeding 0.5 EB

Worldwide

Sunday, May 9, 2021
Bytes: 525 185 930 191 111 700

Belle-II daily files transfers since the migration to Rucio

  - ➡ developments to tackle DDM future challenges within initiatives like ESCAPE and WLCG-DOMA
  - ➡ external partner in PUNCH4NDFI and FIDIUM

PhEDEx: Yellow & Cyan
Rucio: All others

CMS migration from PhEDEx to Rucio

Total transfer throughput

Synergies and Common Developments

- **FIDIUM Task Area II**
  - ➡ many possible synergies with ESCAPE and WLCG-DOMA
  - ➡ developments on services, networks, caching technologies and integration in data lake architectures

- **as external partner:**
  - ➡ participate in TA-II developments and prototyping
  - ➡ FIDIUM as partner in open source projects like RUCIO and in the context of initiatives like ESACPE or DOMA

- **advertisement:**
  - ➡ yearly RUCIO Community Workshops

ESCAPE Data Lake