







platform for exchange between developers, users, sites and people interested in storage technology

disk - tape - cloud - sync & share - devops

Welcome to the 6th EOS workshop



in the virtual world 7.-10.3. 2022



Andreas-Joachim Peters

CERN IT Storage Group

New IT Department Head since Sep. 21





Who is registered ...





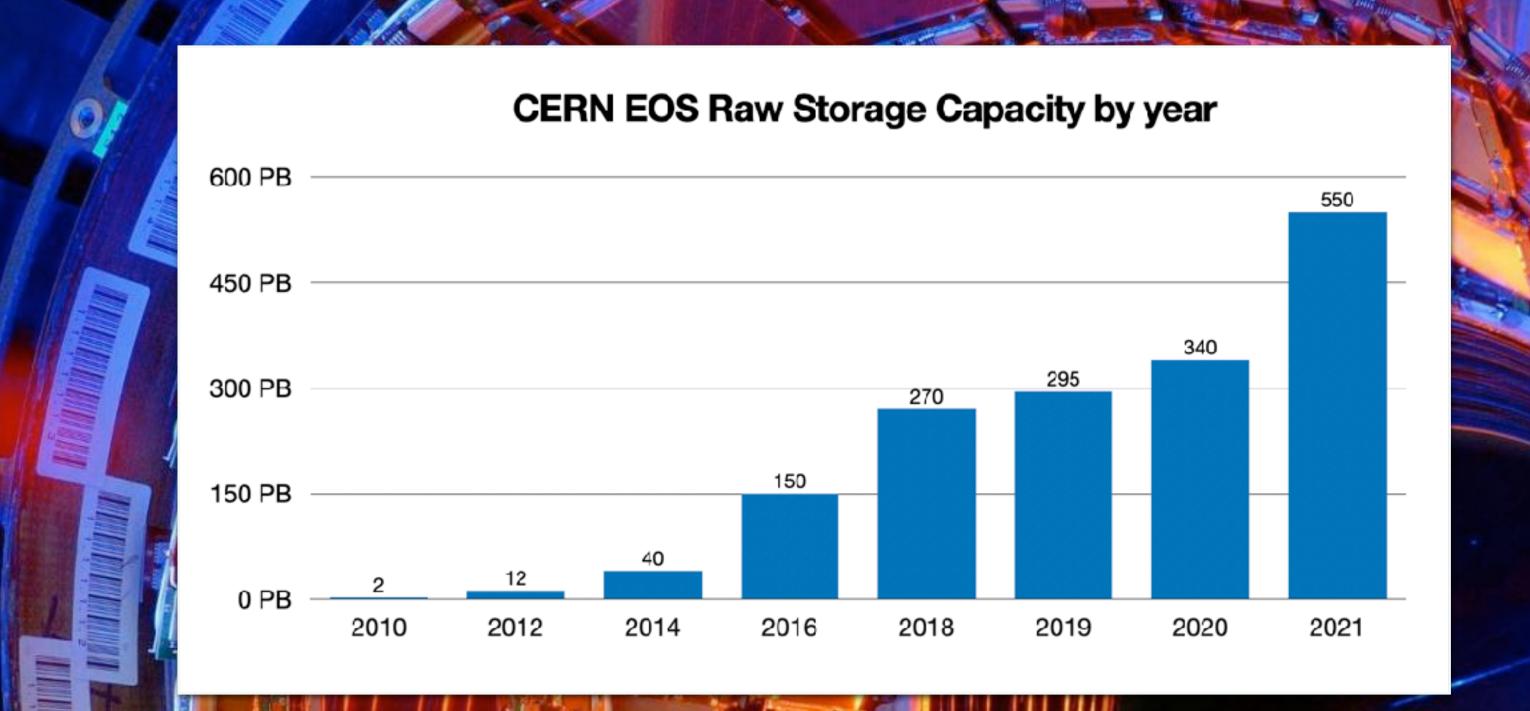




Scope of '22 workshop



- Where are we today with EOS for disks and tape storage, how does the EOS 5 version look like, what is the direction of the project?
- Where and how do people use it?
- What does EOS, XRootD, CTA and CERNBox offer to you?





Organisational Information



Urganisational Intornation

Workshop hosted in ZOOM and in the

IT Auditorium

Monday: 9am-12pm 3:45pm-6pm

Tuesday: 9am-12pm 4pm-6:30pm

Wednesday

: 9am-12pm 4pm-6pm

Thursday

: 9:am-11am







https://mattermost.web.cern.ch/it-dep/channels/eos-workshop-2022

ZOOM Code of Conduct

Raise Hand

CC

We Transcript

Reactions

- Please mute your microphone and disable video if you are not presenting
- Each speaker should leave the last 5 minutes of his timeslot available for questions
- If you want to ask a question after the presentation **raise your hand** and wait that the session convener invites you to talk you find the **raise hand** button under the *Reactions* menu after you have finished use **lower hand** under the *Reactions* menu
- You may also ask questions via the ZOOM chat or on the Mattermost channel
- Thursday morning ends with an open exchange sessions, which are foreseen for free discussions and communication if there was not enough time for asking or answering questions initially, you can bring it forward during these sessions
- Thursday afternoon you might arrange some interactive session with the CERN team





2009

Project History



2011

IPv4

∨ **0.2**

AMBER

EOSPUBLIC

EOSUSER

2015

2016

CERNBox

wopi

Office

2018



EOSCTAATLASPPS



2019

EOSALICEO2

2020

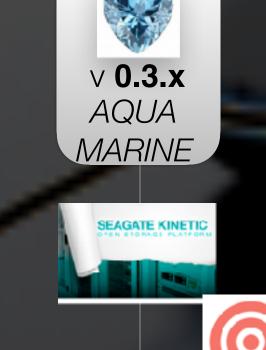
2021

EOS V5.

2022















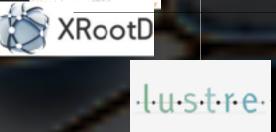














castor-xrootd

lustre-xrootd

EOSATLAS

2012

∨ **0.3**

BERYL

2013

2014



2017 IPv6

swan









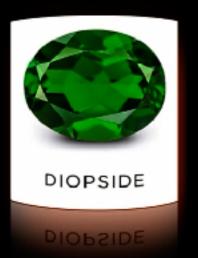




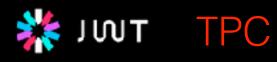




- EOS Releases
- 29 x Citirine
- 3 x Diopside
- C8 Stream



- Production
- HTTP(S) Protocol



- Erasure Coding @ TBit/s
- Completion & Consolidation
- FSCK integrity
- GRPC MEOSaaS







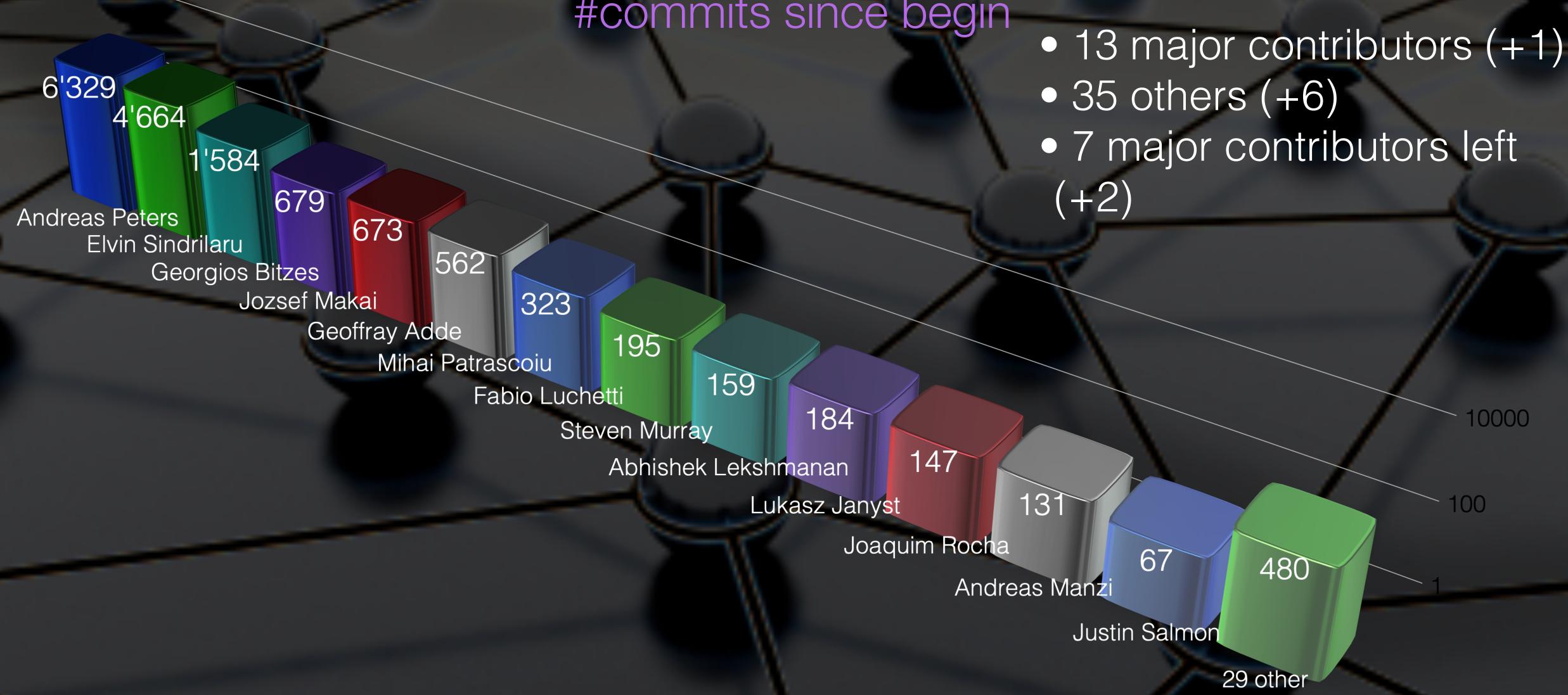
EOSALICEO2 EOS@CERNBOX Availability 99.9999%



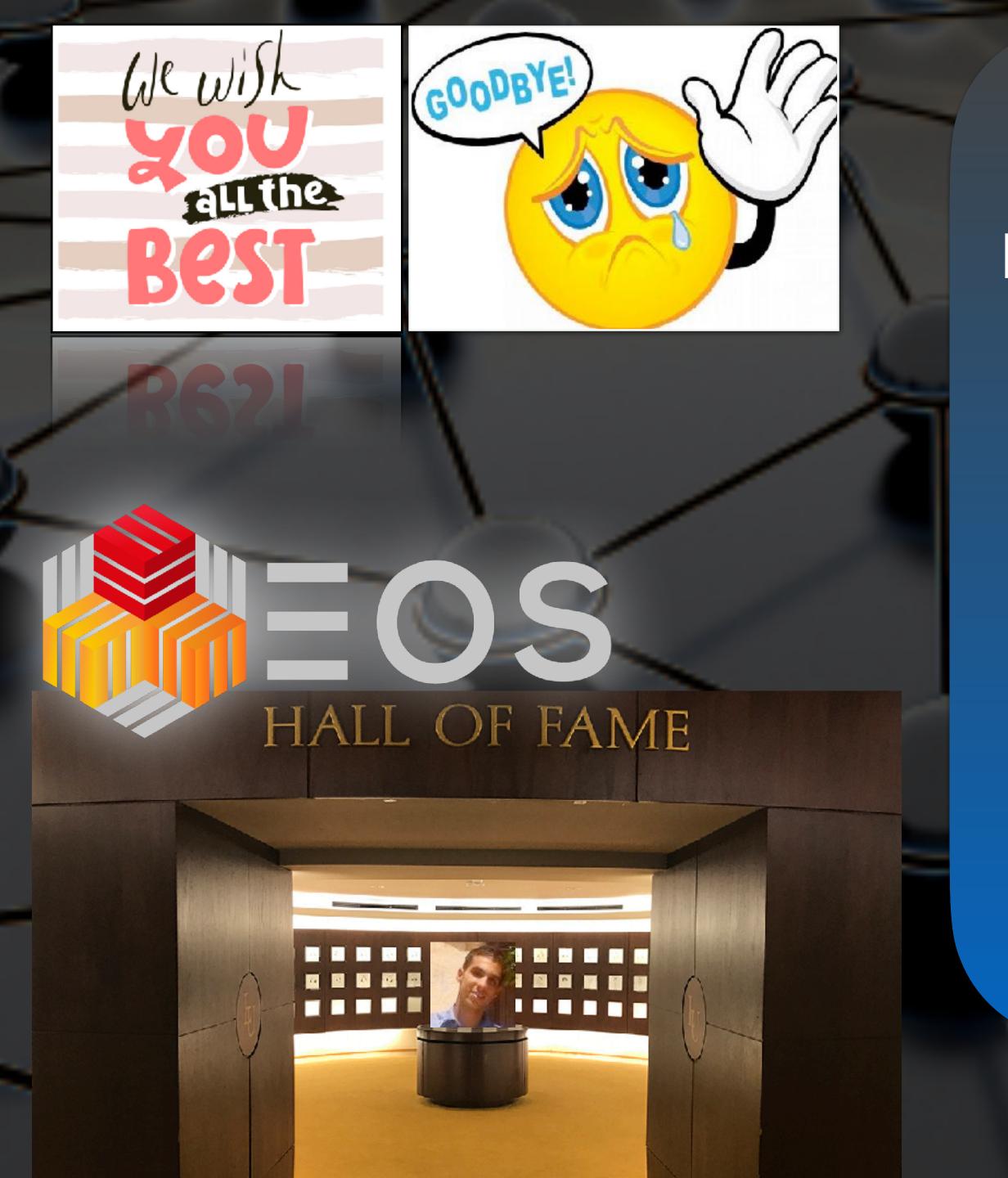


Contributors to EOS

#commits since begin



vivid pool of developers

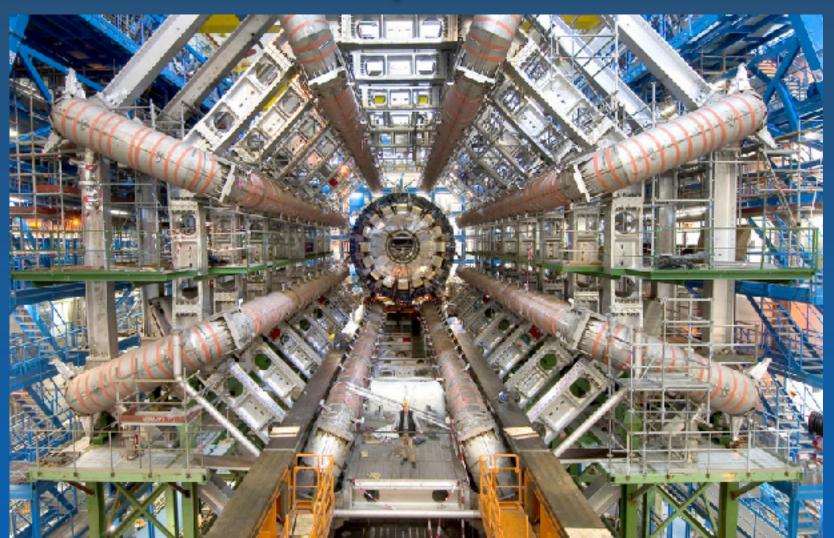


In recognition of the great work done by our team member who left end of 2021

Fabio Luchetti

Fellow & Mr. Cl/Kubernetes





@ATLAS

EOS Core Development Team

Andreas J. Peters

project leader & core developer

Elvin Alin Sindrilaru

core developer & operations

Cedric Caffy

core developer & operations

Abhishek Lekshmanan

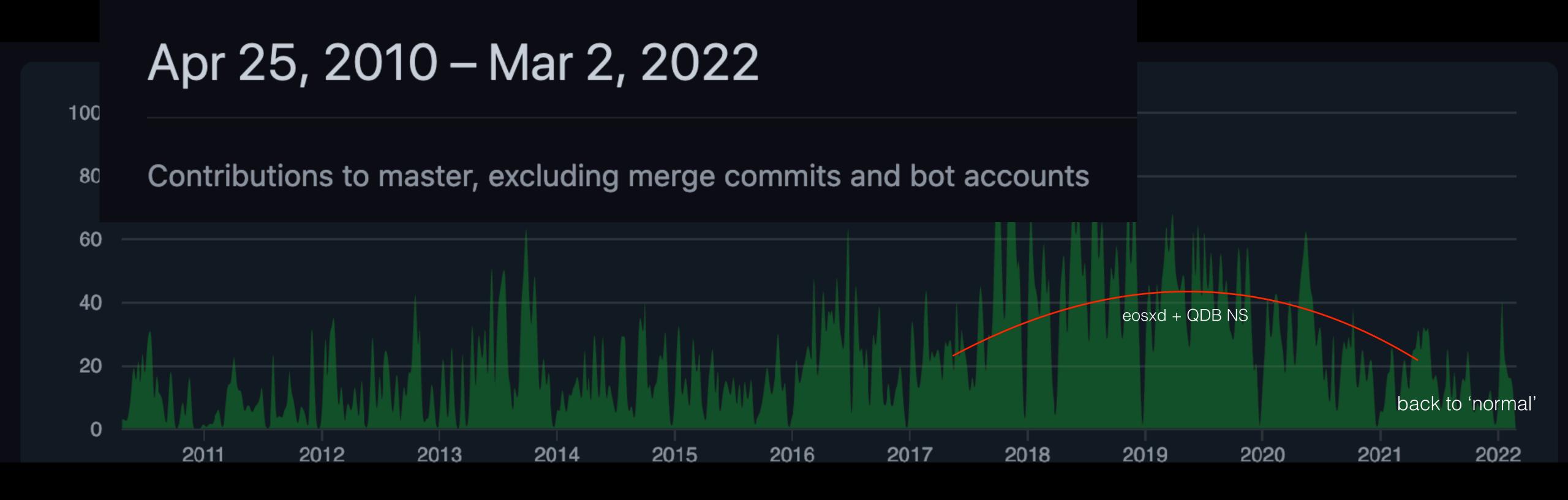
core developer & operations

Jaroslav Guenther

starting with developments + operations

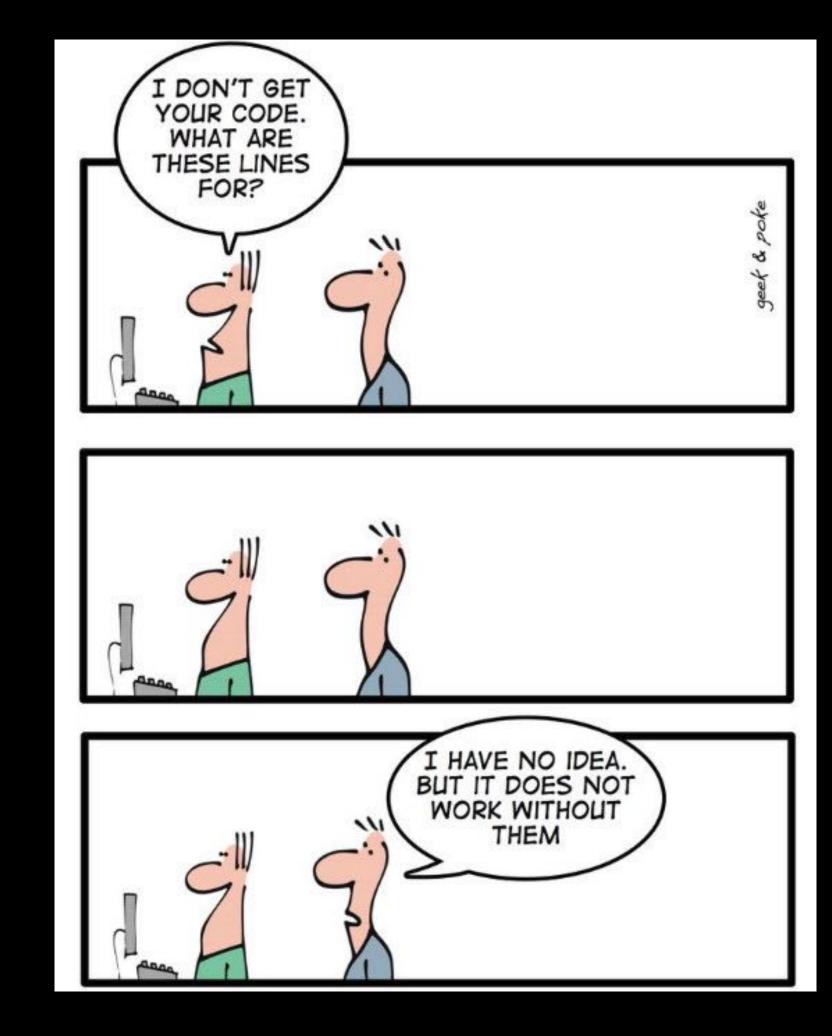
Eos Development Activity 2021

- 2018-20 were years with very high development activity due to the architectural changes coming with QuarkDB and eosxd FUSE implementation
- 2021 activity got back to 'normal'



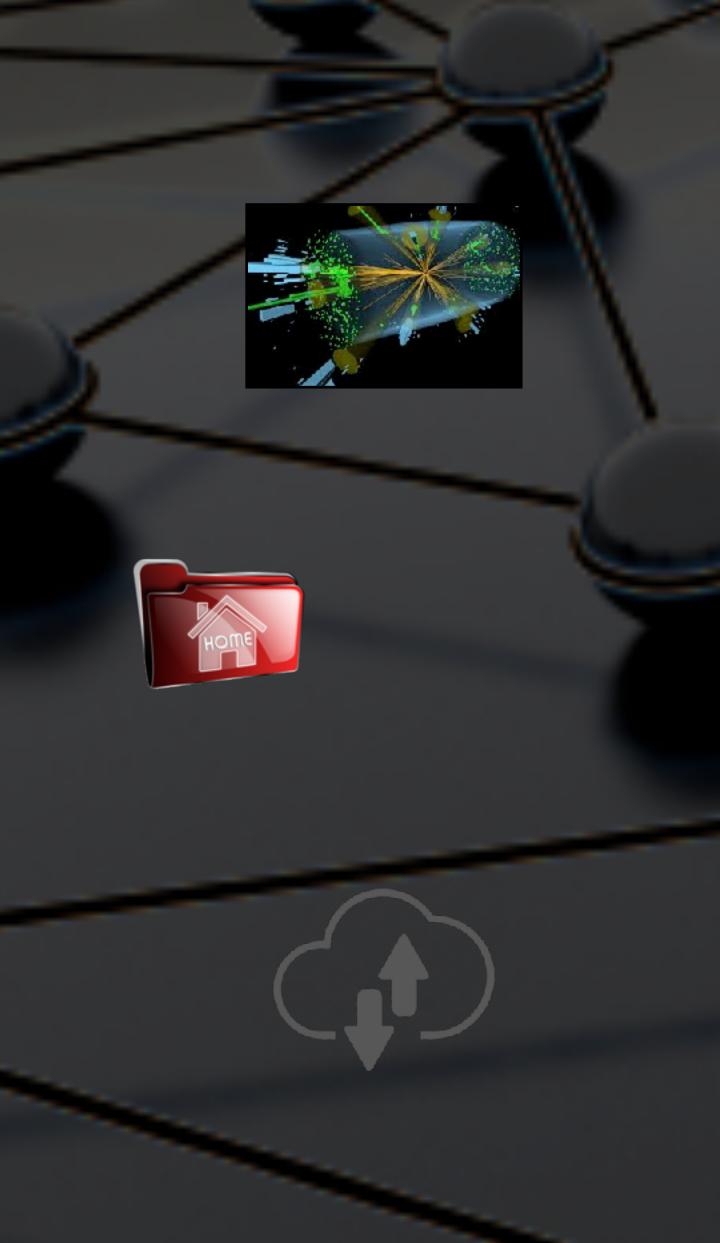
Development Activity last year

Wednesday, 14 April, 2021 20:35:06



EOS Development 2021-2022





EOS in 2022

- Disk & Cloud Storage
 - Run 3 Tier-0 Platform
 - Data Analysis
 - · **CERNBox** Home & Project Spaces
 - collaborations: cloudstore AARNet, Joint Research Centre JRC, Comtrade, XRootD
 - WLCG: Tier 2 & Universities
 - Online Systems (O2)
- Tape Storage
 - Cern Tape Archive new community
 - · Cern Tape Archive new community





https://eos.cern.ch



GIT Repository https://gitlab.cern.ch/dss/eos



Community Forum https://eos-community.web.cern.ch/ email: eos-community@cern.ch



http://eos-docs.web.cern.ch/eos-docs/ Documentation

Support email: eos-support@cern.ch

