



U.S. DEPARTMENT
of ENERGY

Closeout



Thanks

- Thanks to everyone for joining, for the amazing presentations, and for all the work
- Thanks to our admin team and IT team!
- Thanks to Liza for helping with everything, from the logo, the stickers design, the program, to all the help with making sure everything worked these three days
- Thanks to Punit, Iza, Sofia and Rea for helping out
- Thanks for all the discussion

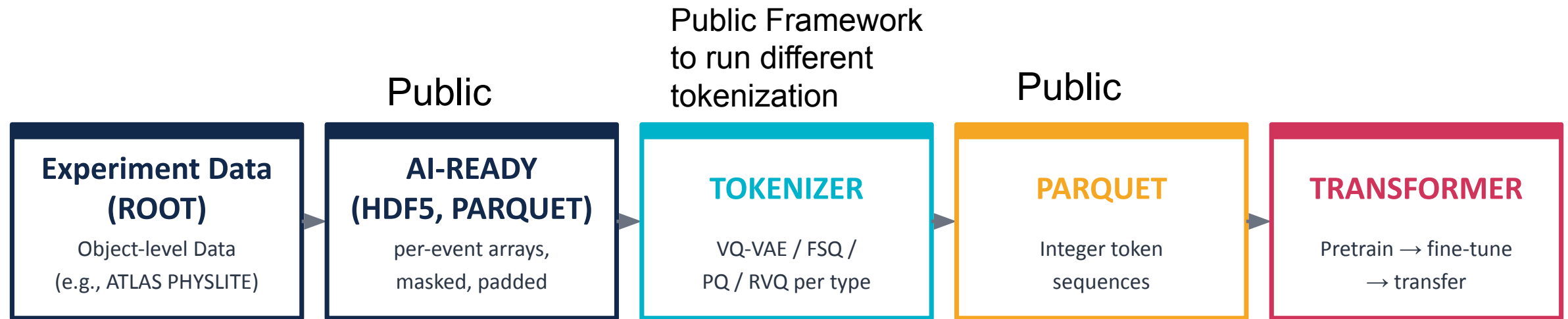
TREASURE:



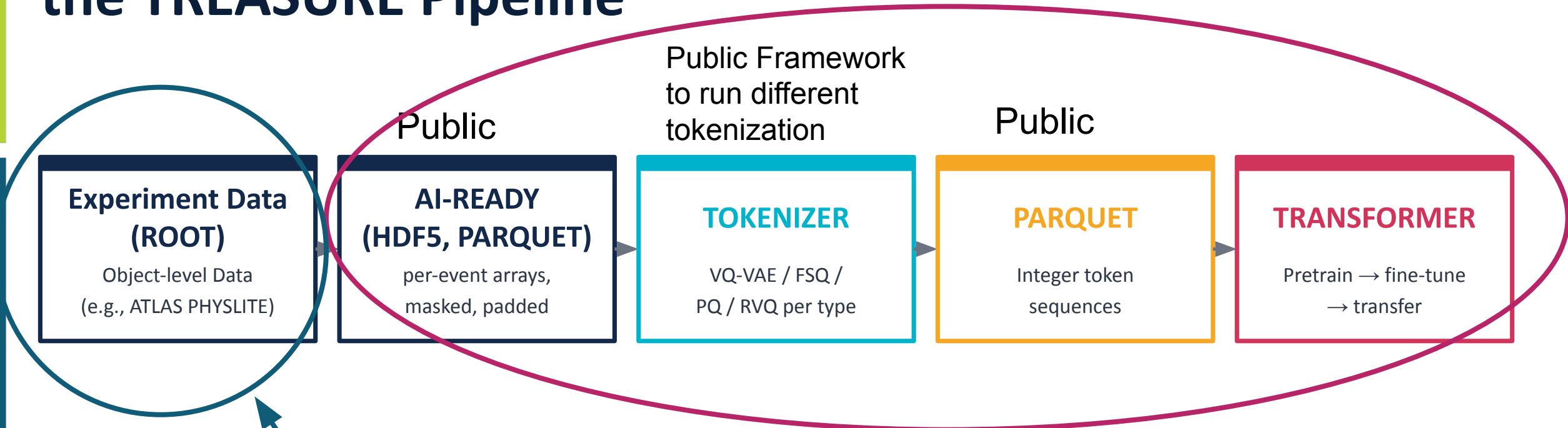


TREASURE

the TREASURE Pipeline



the TREASURE Pipeline



3 repositories

Exp_to_h5_converter Private
conversion from ATLAS/CMS root forma to h5
🔗 0 · ☆ 0 · 🔄 0 · 📄 0 · Updated 1 minute ago · ⚙️

heptokens Private
• Python · 🔗 0 · ☆ 0 · 🔄 0 · 📄 1 · Updated 2 days ago · ⚙️

PCDF Public
Particle Cloud Data Format related activities
• Python · 🔗 0 · ☆ 0 · 🔄 0 · 📄 0 · Updated last week · ⚙️

Next steps

- Tokenized jet-tag ATLAS/CMS simulated data and jets in open data (seems to be available in some form
 - Prototype model ==> Transformer-based jet-tagger that runs on either ATLAS/CMS simulated data
- New data format and request of new samples from ATLAS
- Event level tokenization for ATLAS/CMS open which includes high-level objects (jets, leptons, met)
 - Test on $H \rightarrow ZZ$, $H \rightarrow \text{photon photon}$, $h \rightarrow bb$
 - Plan a paper on this for the summer
- Tokenized FCC-ee simulated jet-data and studies
- Belle 2 work, maybe longer timescale
- Release prototype package that compares multiple tokenizers

Next steps

- Metadata! Metadata! Metadata!
 - Start from what is available in cern open data portal
 - Augument it with requested information from ModCon DBS group
- We are going to be limited very soon by storage and compute power
 - Need to make a request at NERSC very soon
- Get more people involved!
 - We are clearly not the only ones thinking about Open data, tokenization, Foundation Models, Ai in trigger
 - We saw some presentations during these days, Thanks to Jennifer, Antonio, Walter, Ho Fung
- **We are not going to do this individually, power is in collaboration!**

See you in the fall with a bigger and better workshop!

