

*Vakho Tsulaia (LBNL)*

---

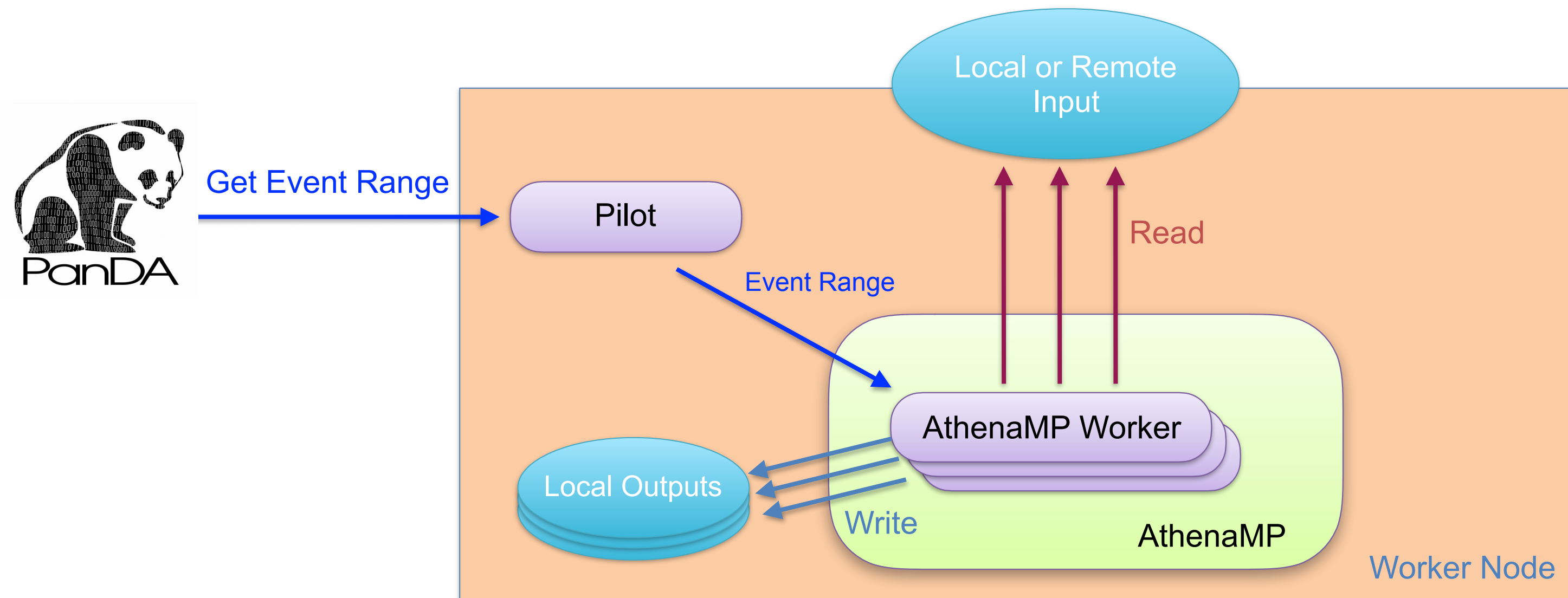
# Prototyping ESS

ATLAS S&C Workshop  
CERN  
March 15, 2017

---

# Event Service today

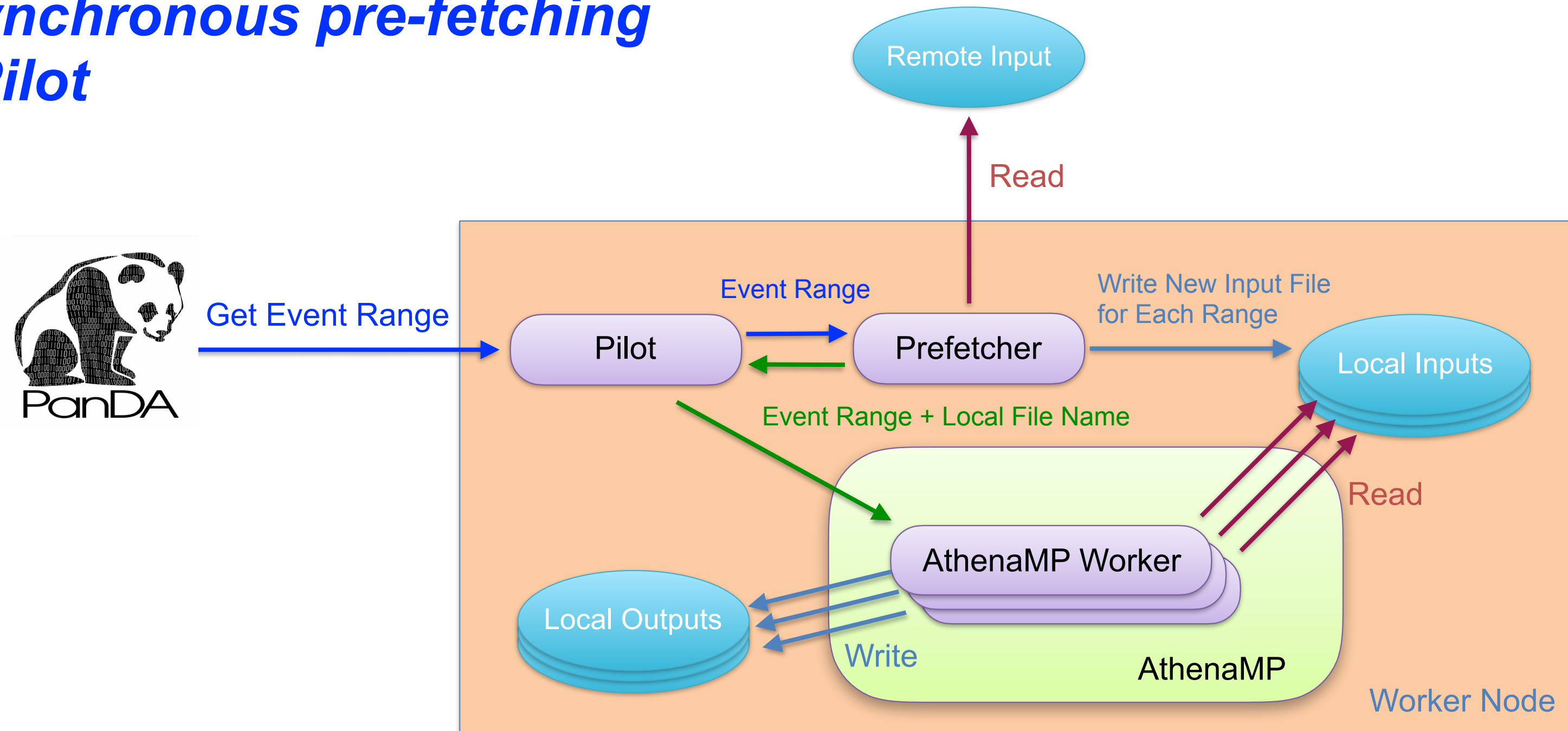
## Event Service



- ❖ Each AthenaMP worker independently reads input file(s)
- ❖ Input file(s) can be either local or remote

# ESS v1

## Asynchronous pre-fetching in Pilot

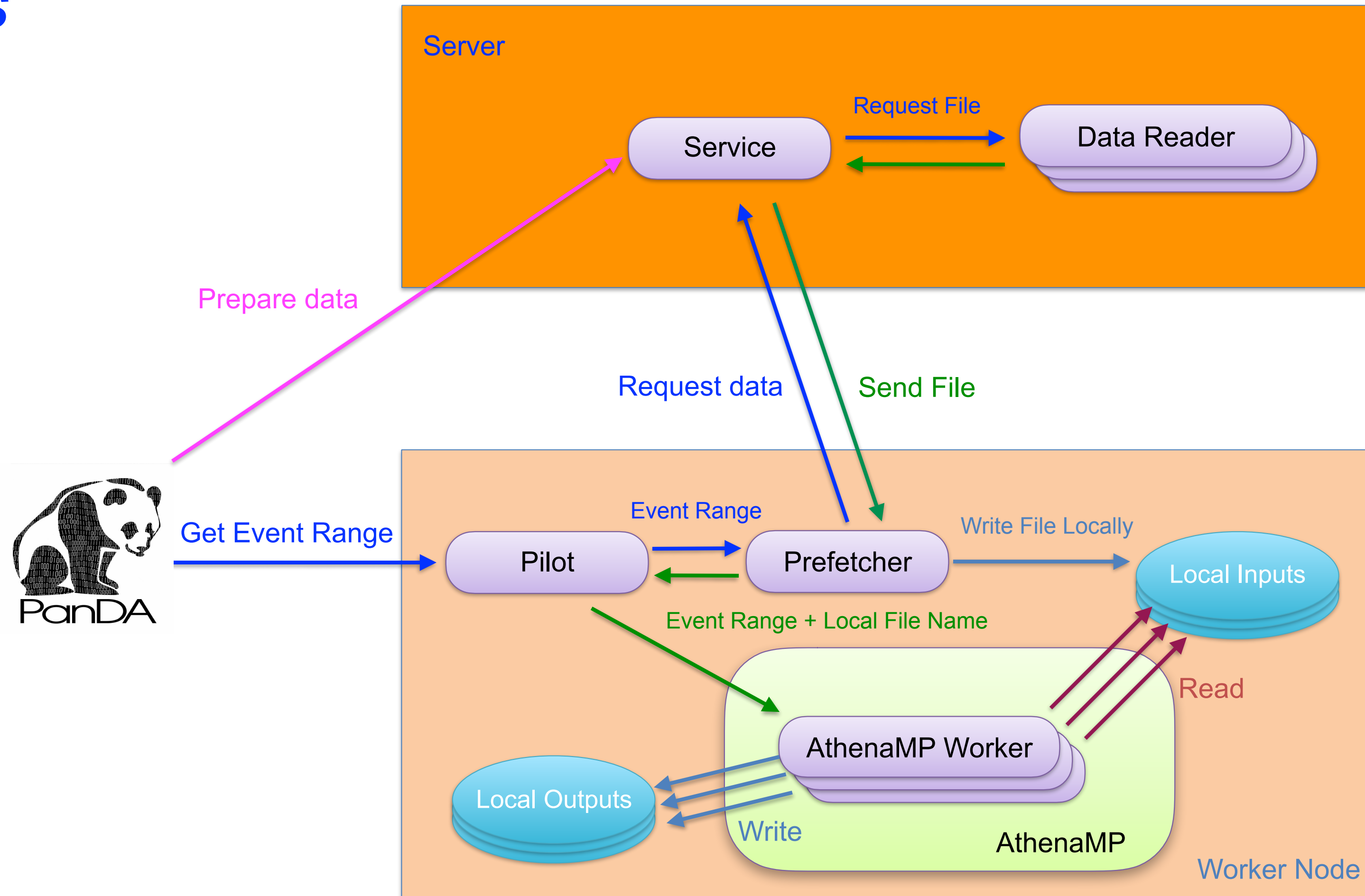


- ❖ The Prefetcher has been implemented as a special configuration of `EVNTMerge_tf.py` which makes new EVNT file for each requested Event Range
- ❖ No changes were required in AthenaMP wrt the conventional Event Service configuration

- ❖ Very limited testing so far (interactive jobs)
- ❖ Integration into Pilot is underway

# ESS v2 (ideas for discussion)

ESS



- ❖ The server should be agnostic as to where the event data requests come from
- ❖ The data can be marshaled on the server side
- ❖ The data can be prepared before pilot issues a request
- ❖ When pilot makes a request, it translates just to transferring a file