

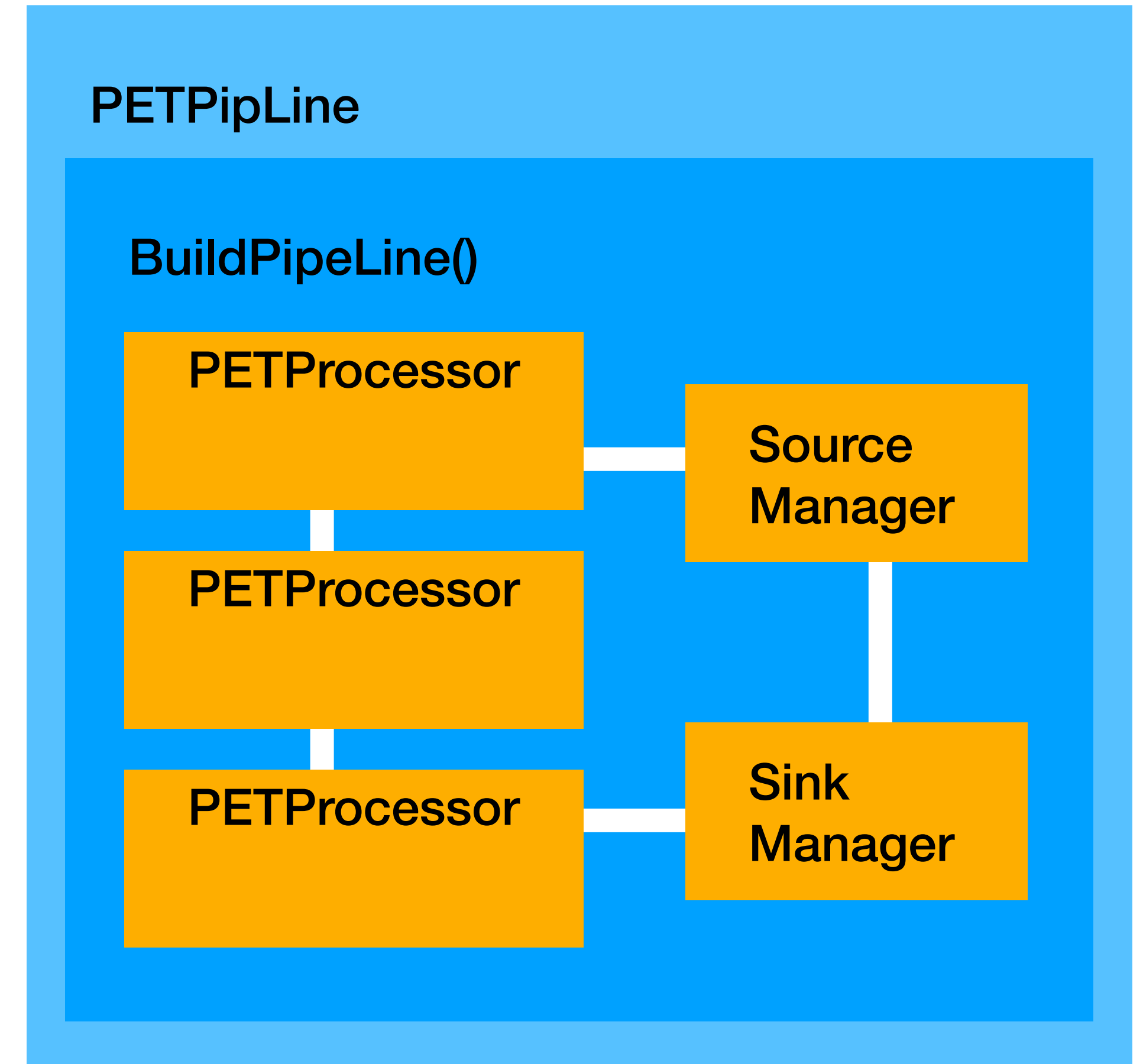
Weekly Report 06

Practical Information Course

03.07.2023

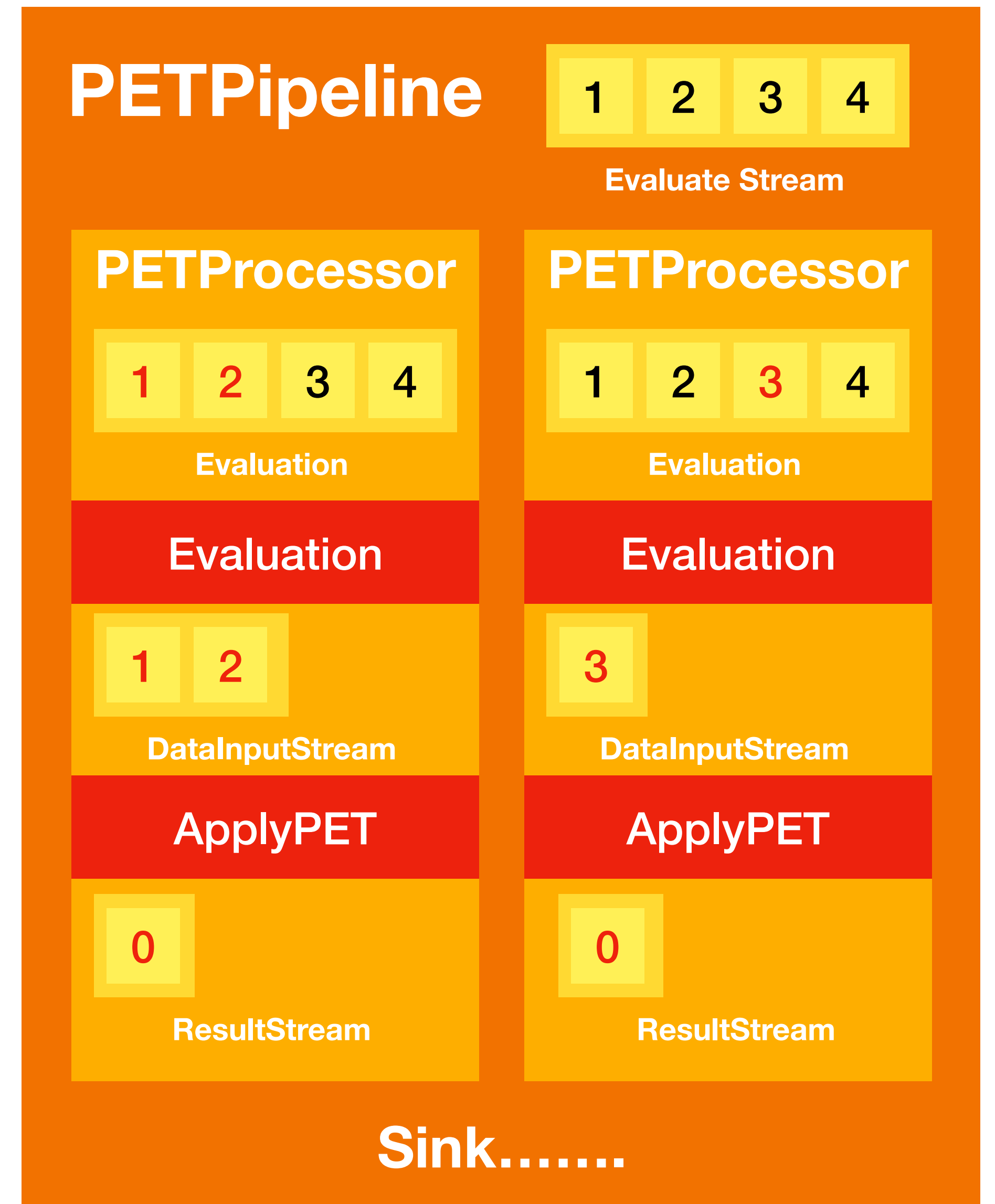
Dynamic Data Source Concept

- Totally dynamic is infeasible, as the Stream can't manipulate itself in the flow.
- Bypass: New middleware. Separate the evaluation stream and the actual data stream. Delete unnecessary information during process.
- Restriction:
 - Image is currently not supported.
 - More effort needed for system generalisation



Dynamic Data Source Implementation

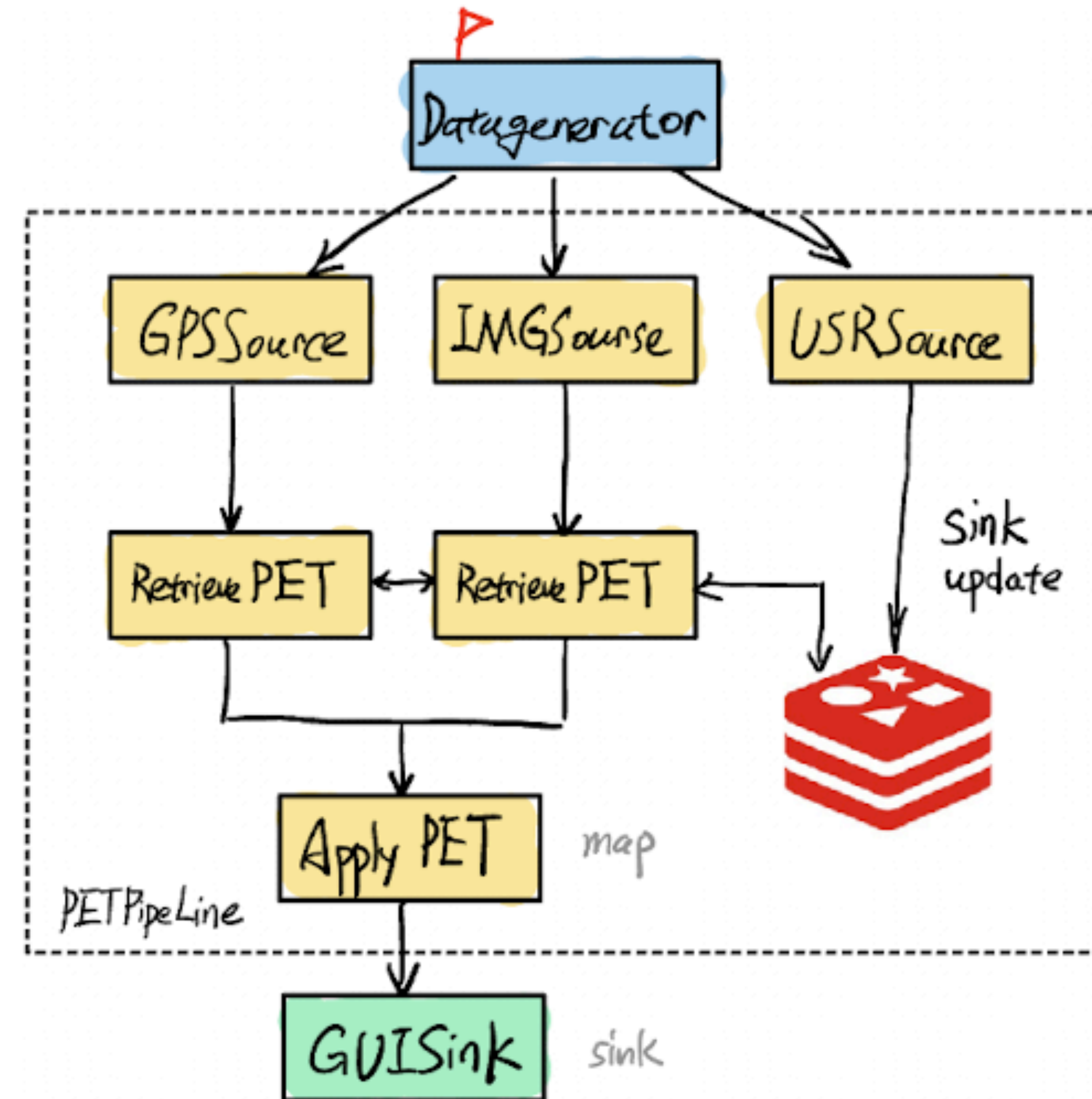
- The only implementation needed is the Evaluation function:
 - Input: None
 - Output: `Tuple2<PolicyID, OriginalData>`
- The rest is automatically implemented



Evaluation

Variation2

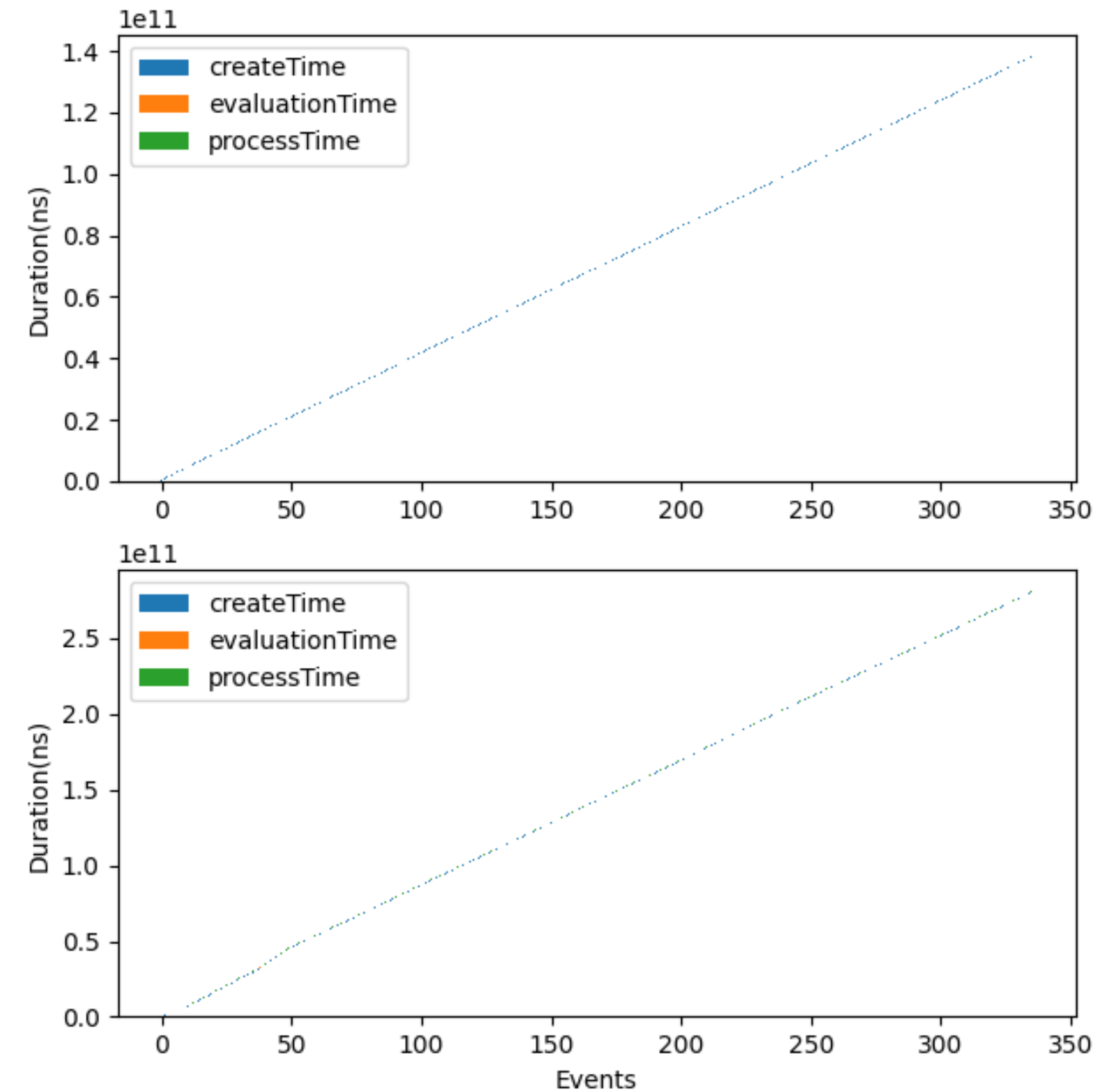
- Script: Original script as previous
- Time recorder:
 - POJO is created
 - PET complete evaluation
 - PET complete reload
- Data added to the sink



Evaluation

Result

- Variation2 is slower
 - Assumption: global Redis access consume more time than expected. Synchronised communication.
- Bottle neck in camera stream as usual, switching of PET take longer because python script.



Evaluation

Result

