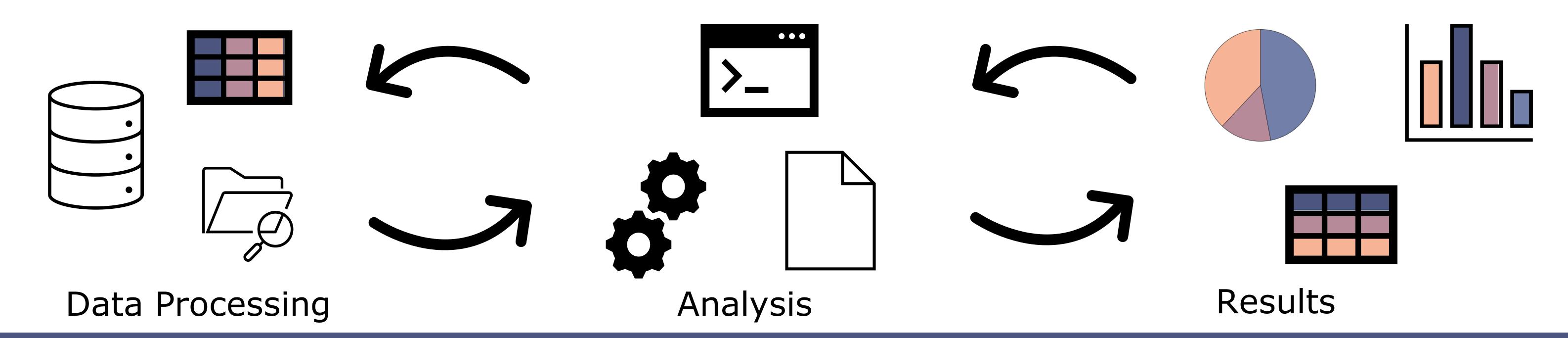


Experimental Workflow Tracking using Provenance

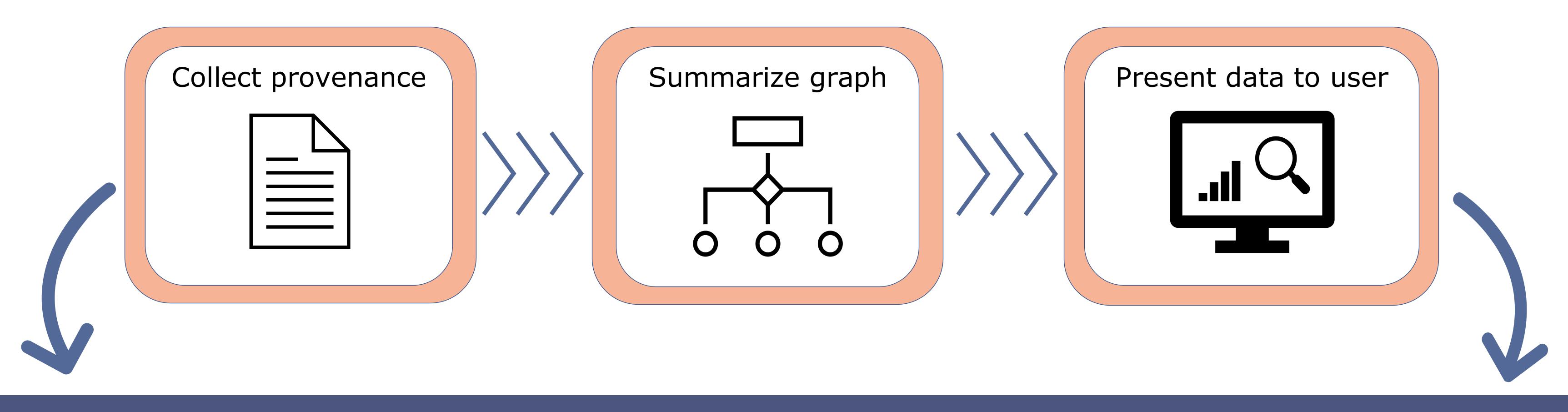
Nichole Boufford, Thomas Pasquier *University of British Columbia, Canada*



Problem: Computational experiments are challenging to track and understand because the process is exploratory and involves many tools.



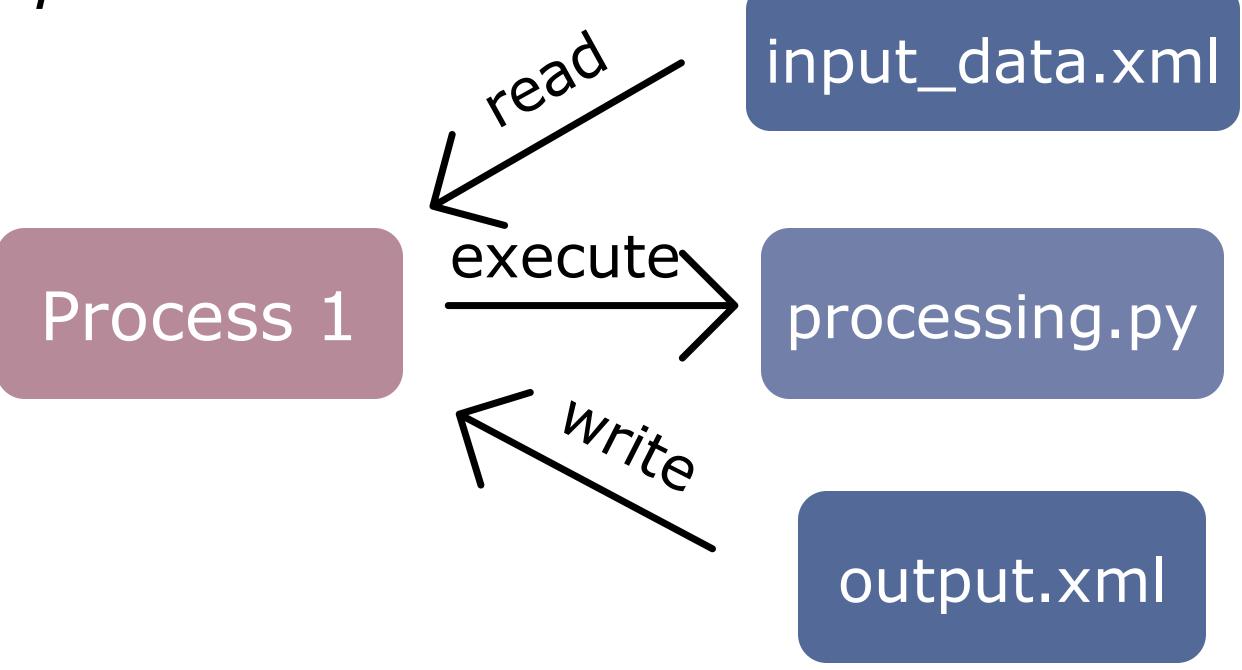
Idea: Automatically track experiment steps across a system and present the workflow to the user in a way that is easy to understand.



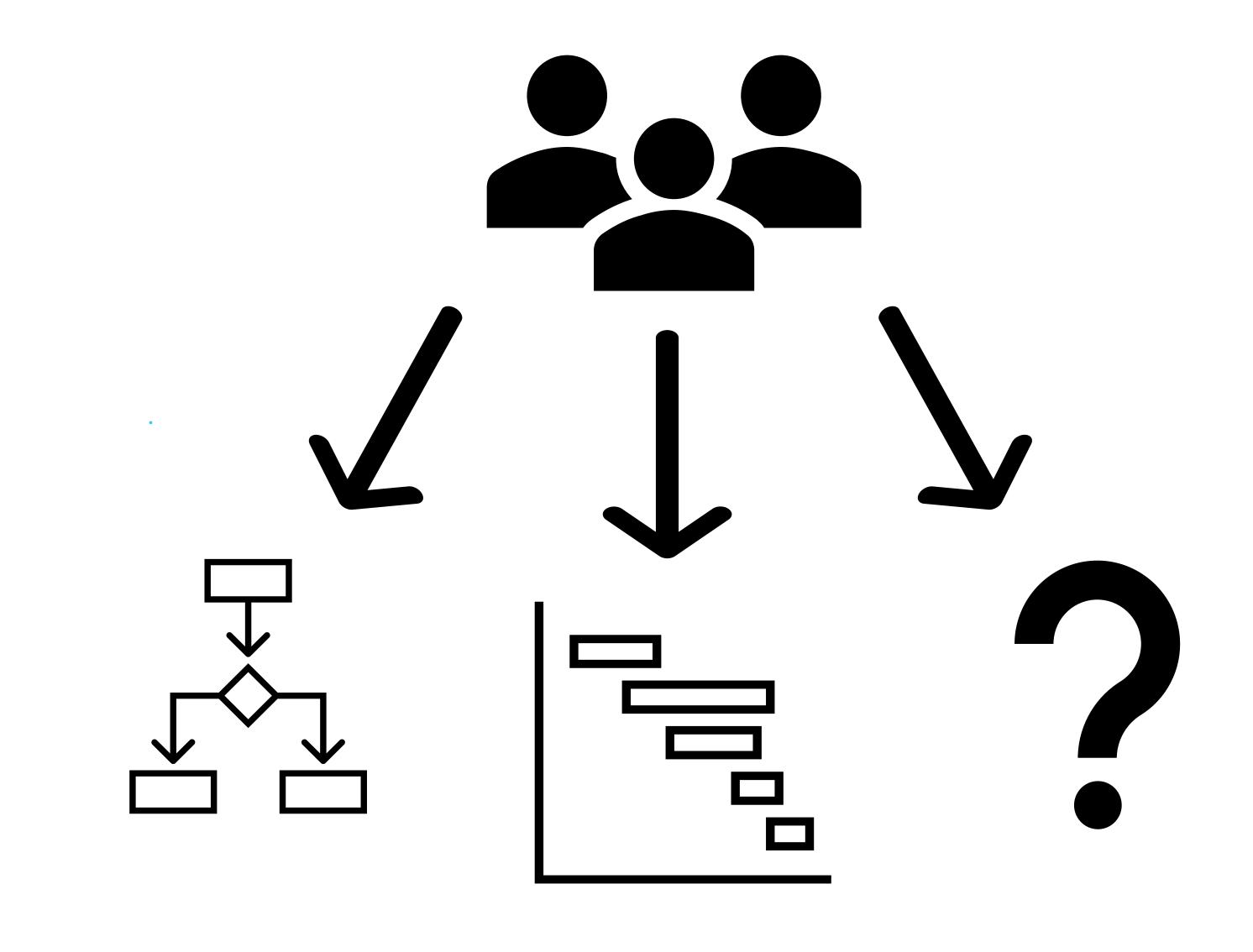
Approach: We use eBPF to develop a system provenance collection tool

eBPF allows extension of the kernel, enabling simple system object tracking and provenance graph creation



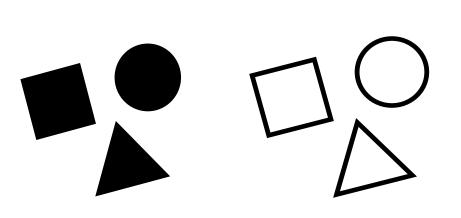


Future Work: We will perform a user study to motivate our user interface design

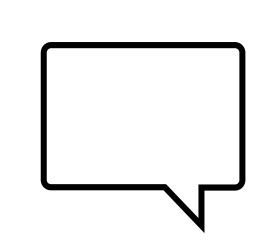


Expected Outcomes

Computational experiments will be more:



Reproducible



Explainable



