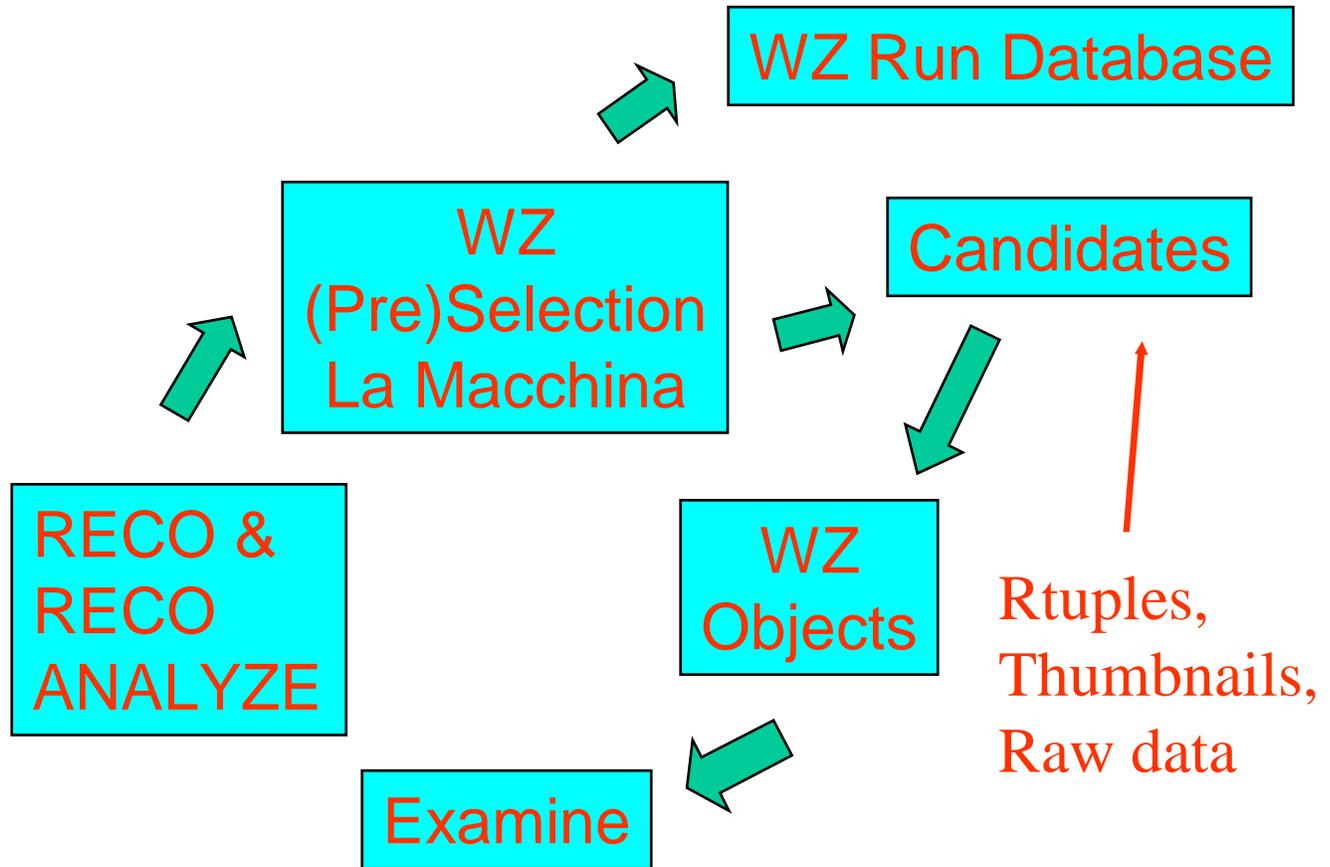


# How I use SAM

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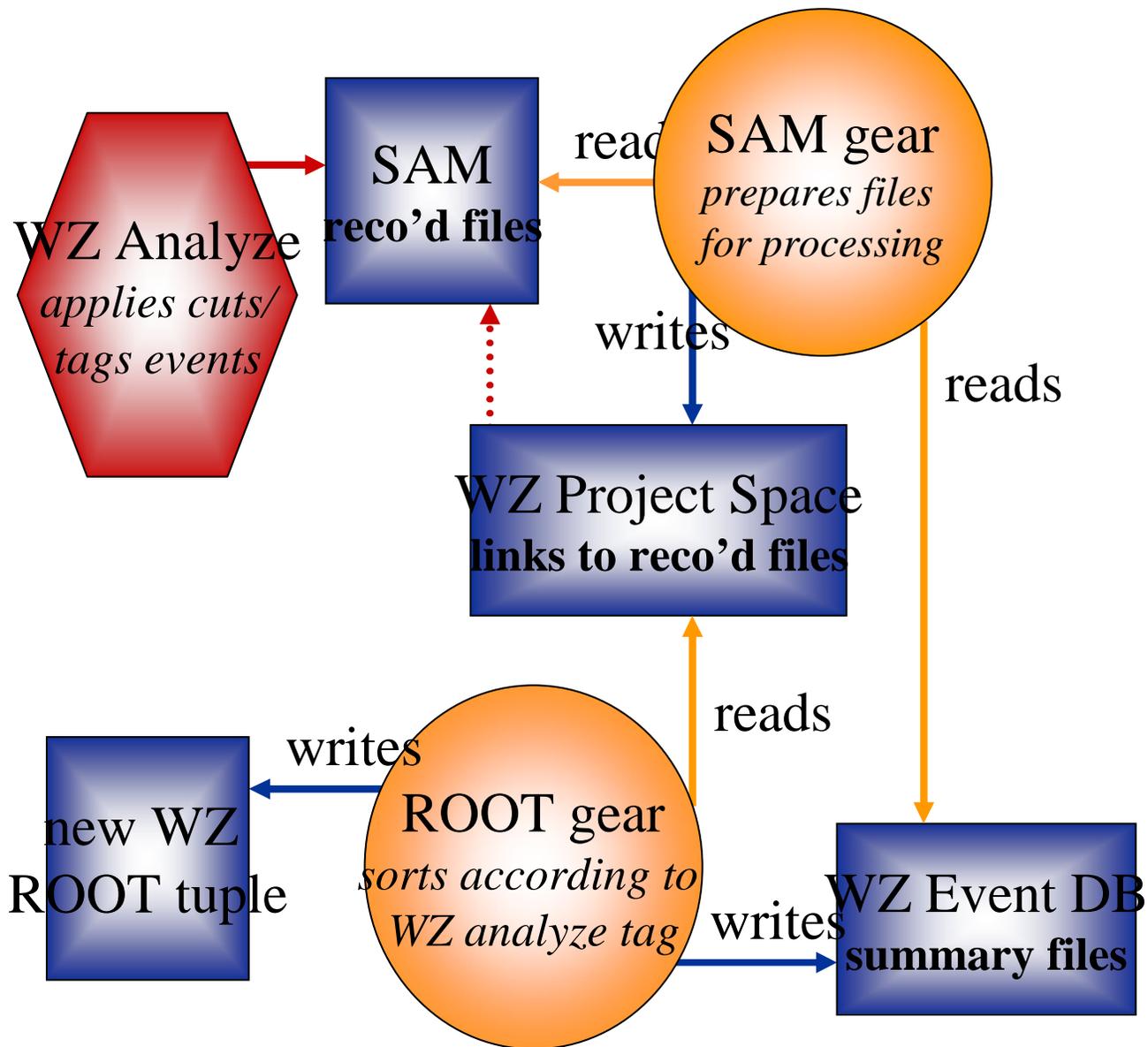
- \* SAM is a useful and powerful tool
  - I don't need to elaborate here.
  - Useful and powerful tools get used heavily and in ways which weren't originally intended.
- \* WZ Analysis Strategy uses SAM in several ways
- \* Some detail about my recent experiments with SAM
- \* Where this might go.

# Data Analysis Strategy



- \* Develop W & Z candidates using Root-tuples (thumbnails) created by La Macchina on lepton samples.
- \* Push this back into the Reconstruction. It's WZReco and WZAnalyze & into
- \* Examine for monitoring and Lum.

# La Macchina



- We analyze the roottuple and make lists Of W and Z Candidates (muon only at present).
- I turn the Pick\_Events Gear (not shown).

# Pick Events

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- \* We select the events with high  $p_T$  muon and significant MET
- \* Through April it's 60K events
- \* I pick **raw data** using Pick\_Events, 99 events at a time. 250kB/event?
- \* This week, I am achieving 4500 events a day.
- \* I don't have sufficient disk space to store all of those, so I put them back into SAM (thanks to Lee).
- \* Unsolved Problem: restoring root-tuples to SAM?

# Where this might go

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- \* The prescale on the single muon trigger has kept the sample smallish up to now.
- \* At  $2e32$  W's are produced at 1 hz.
- \* I suppose that 10x present rates are expectable
- \* We will want to turn some form of this Pick\_events "La Macchina" gear
  - I don't know what we will want to pick. Raw data? Thumbnails? Will there be DST's?
  - You can be sure it will be something.