

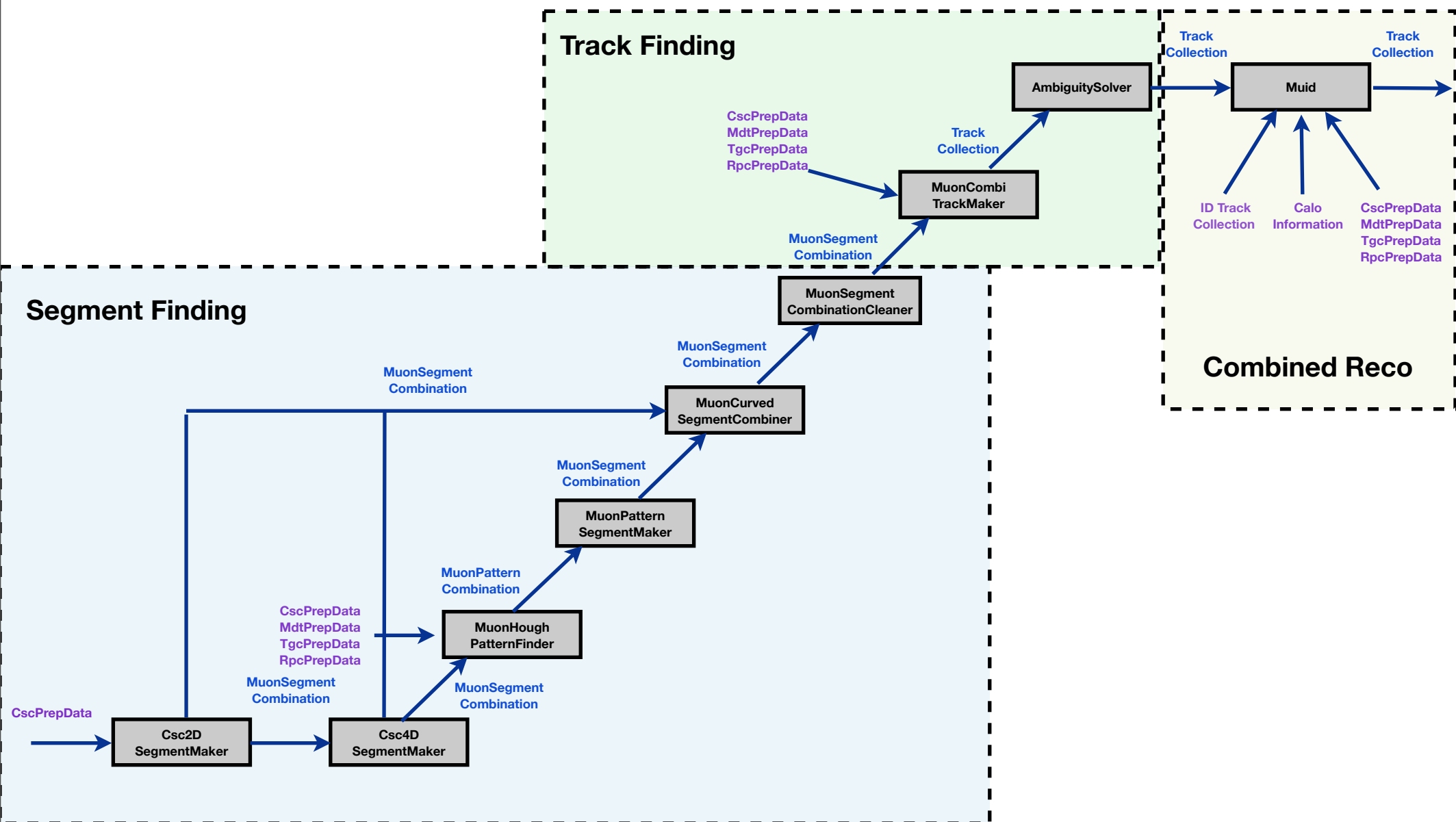


Migration of Moore to AlgTools

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Moore data flow





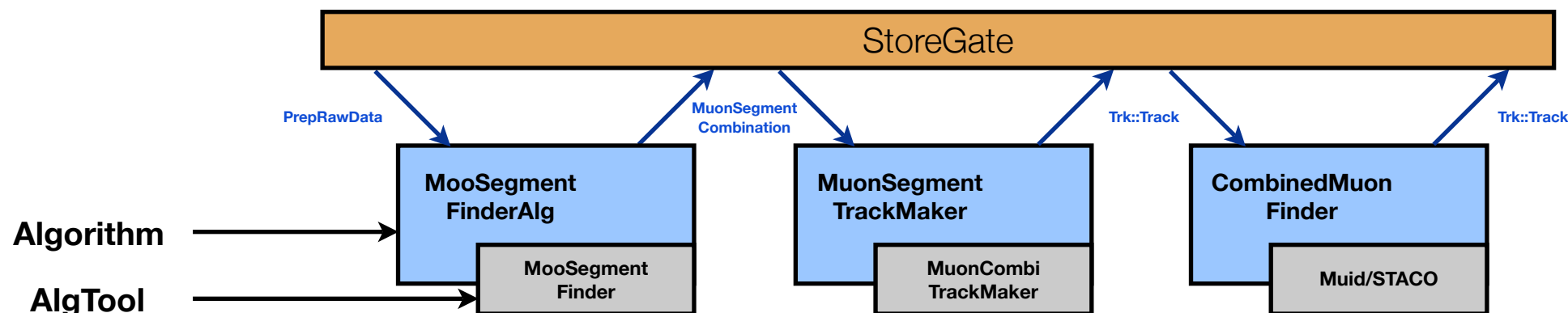
Evaluating the design

- Old Moore design Algorithm based
- Problems old design
 - Algorithms cannot be used in the event filter
 - TrigMoore duplicated part of the Moore code
 - potential source of bugs
 - trigger not always in sink with offline version
- Solution: move algorithmic code into AlgTools
 - Algorithms purely access and pass around data
 - scheme already successfully used by the Inner Detector

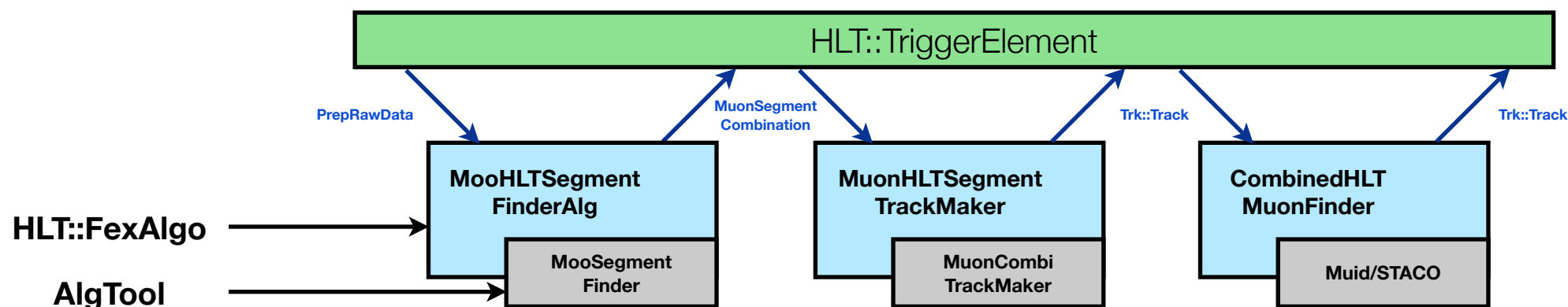


Proposal new design

Offline



Online





Status of migration

- Prototypes for Segment and Track finding available for testing
 - MooSegmentFinder (*AlgTool*) + MooSegmentFinderAlg (*Algorithm*)
 - MuonCombiTrackMaker (*AlgTool*) + MuonSegmentTrackMaker (*Algorithm*)
- Code can be found under *~neldik/public/MooreAlgTools.tgz*
 - thanks to Ed and Woochun for they help!
 - not all code in CVS yet
 - final version expected by the end of this week



Open questions

- StoreGate access to 'PrepRaw'Data from Tools ok for trigger?
 - use-case for direct SG access from tools
 - segment recovery needs to access data for a give chamber/region crossed by a track
 - used by both track finder and Muid
 - calorimeter data from Muid
 - if not ok, need new technical solution to propagate seeding to sub tools.
 - possible solution: provide data access tool
 - `const MdtPrepDataCollection* getData( const Identifier& id ) const`
 - all data access via tool(s)
- How do we keep track of associations between objects during the reconstruction
 - Association tools?