

Draft 3

The Sand box Starts

An Optimization Instance is created

Source Data is read in,
(Options for [Base Year, Base Cond., Wastewater Data, Cost Profile] are read)

Options for Geo Scale — Geo Area are read

A "Metadata GUI" opens \Rightarrow $\left\{ \begin{array}{l} \text{Base Year} \\ \text{Base Condition} \\ \text{Wastewater Data} \\ \text{Cost Profile} \\ \text{Geo Scale} \\ \text{Geo Area} \end{array} \right\} \rightarrow \left(\begin{array}{l} \text{saved for} \\ \text{passing,} \\ \text{unmodified} \\ \text{to CAST} \end{array} \right)$

choice for geography is used to produce a geo table
of LRsegs included in this Instance
(w/accompanying: county, state Abbrev., In/Out cws,
Major/minor/state Basin, River)

Query what Agencies are present in the Instance Geography

A "Free Parameter / Non-equality constrained coordinates / Decision Variable Activator" GUI opens \Rightarrow

$\left\{ \begin{array}{l} \text{Agency} \\ \text{Sector (from all in Source Data)} \\ \text{or} \\ \text{Load Src Group (from all in Source Data)} \end{array} \right\}$