

Multy day – large projects

TerraMatch Training

GPS standard time

- Use GPS standard time to avoid conflict between flight session with identical GPS week time
- Use GPS standard time on both trajectories and laser data

Trajectories

- Thin trajectories – faster processing
- Group trajectories into flight sessions
- Put quality on trajectories

Reduced data for matching

- A reduced number of blocks from project for matching
- Only point classes necessary for matching in project

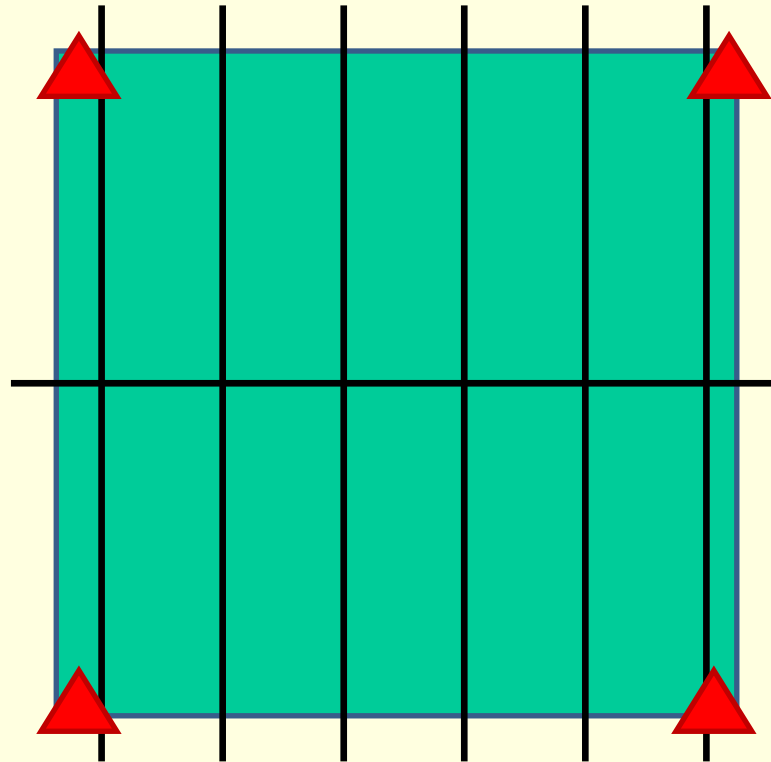
Splitting large projects

- Consider splitting project into sub-projects
- Make sure you have good configuration in each sub-project
- Make sure you have overlap between sub-projects

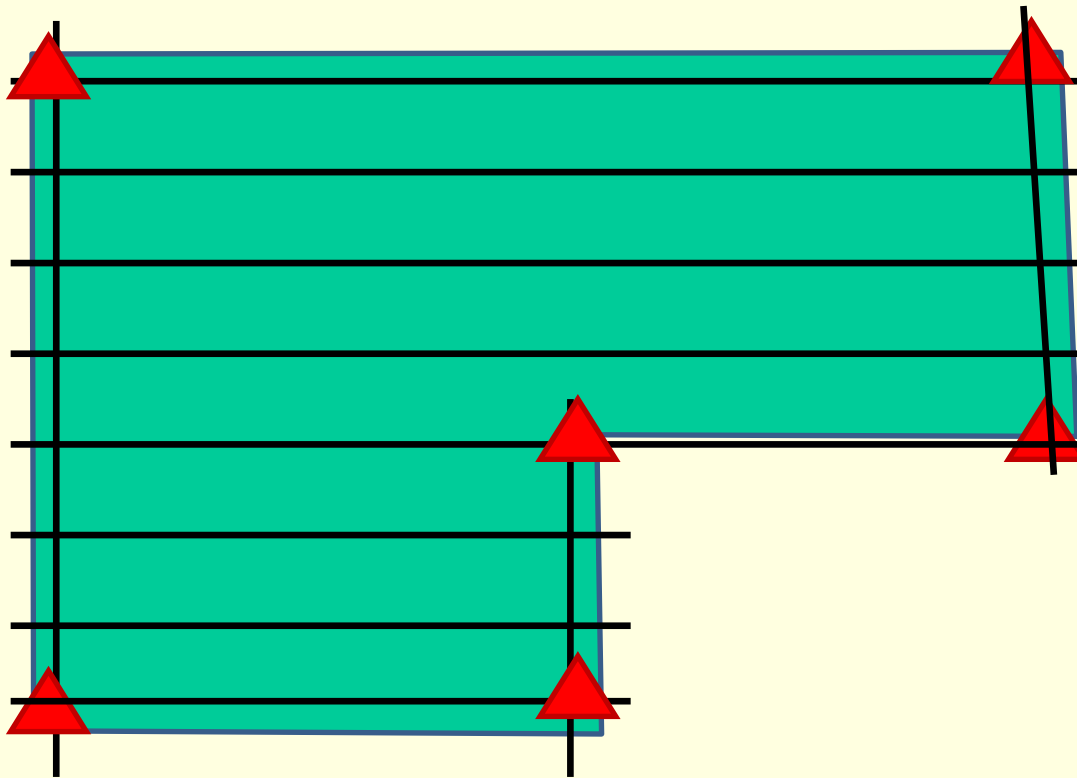
Good configuration

- Ground control surrounding the area
- All flightlines should have a crossing flightline in both ends
- Small areas – one crossing flightline
Medium areas – two crossing flightlines
Large areas – two or more crossing flightlines

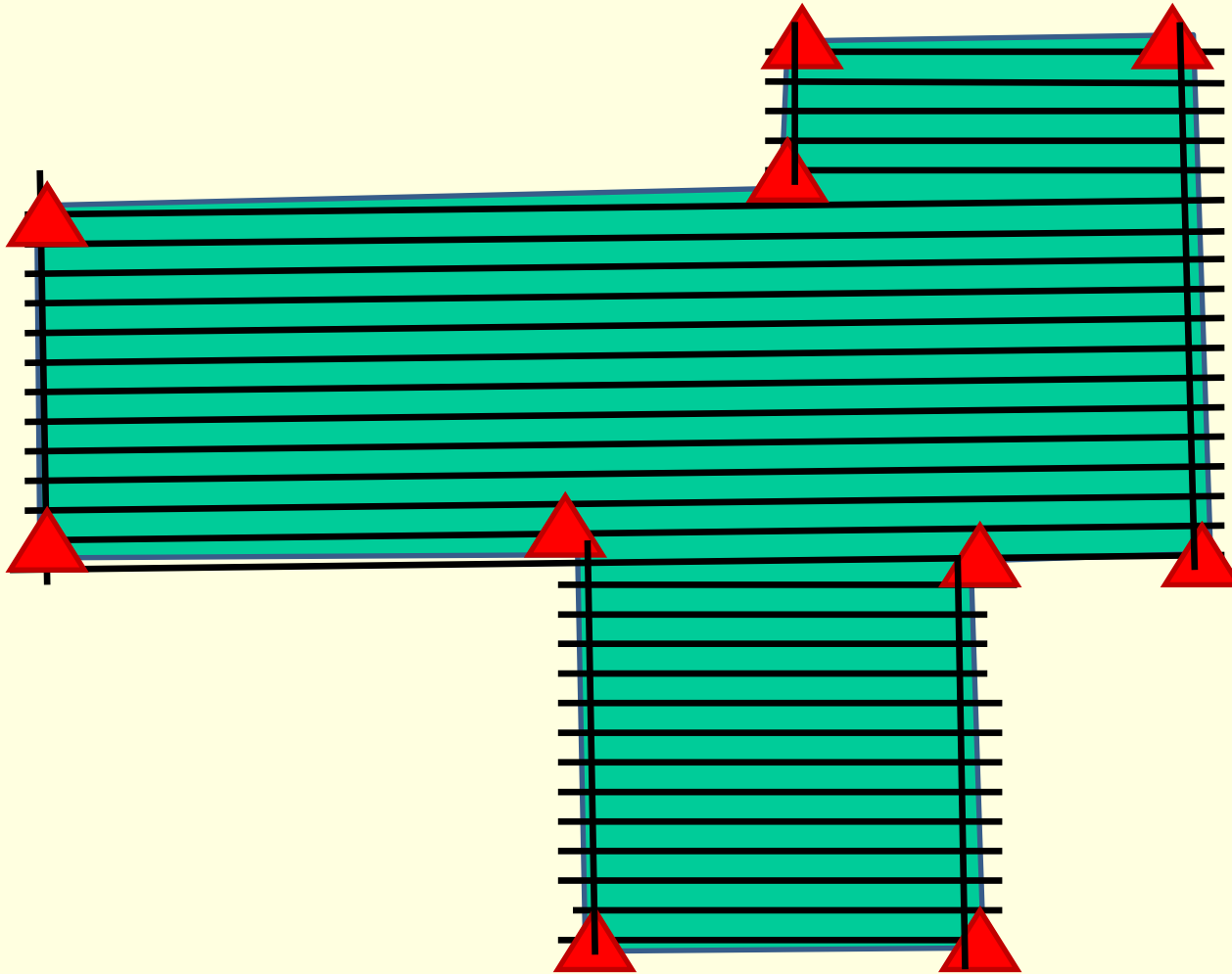
Example 1 – small area



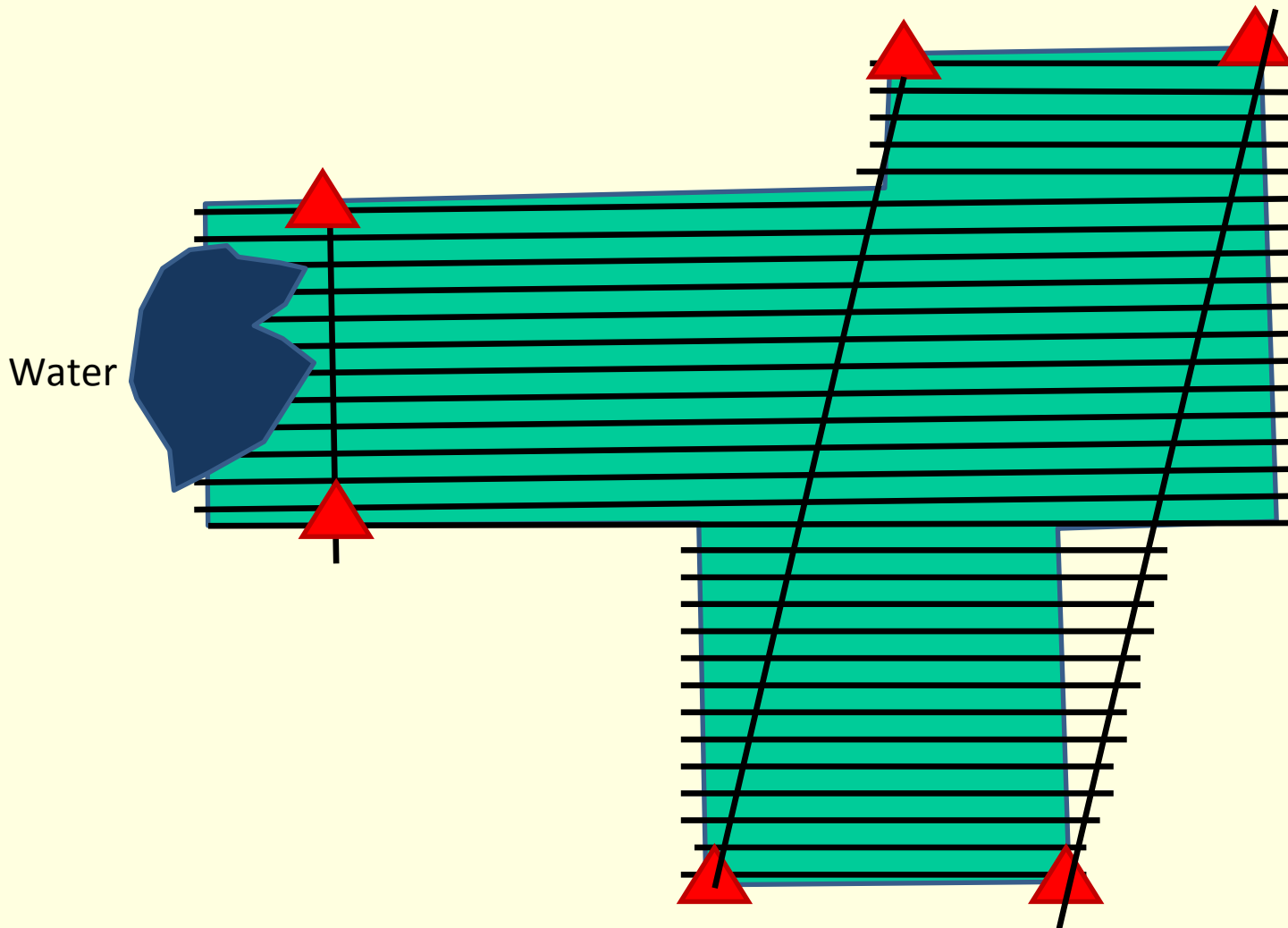
Example 2 – medium area



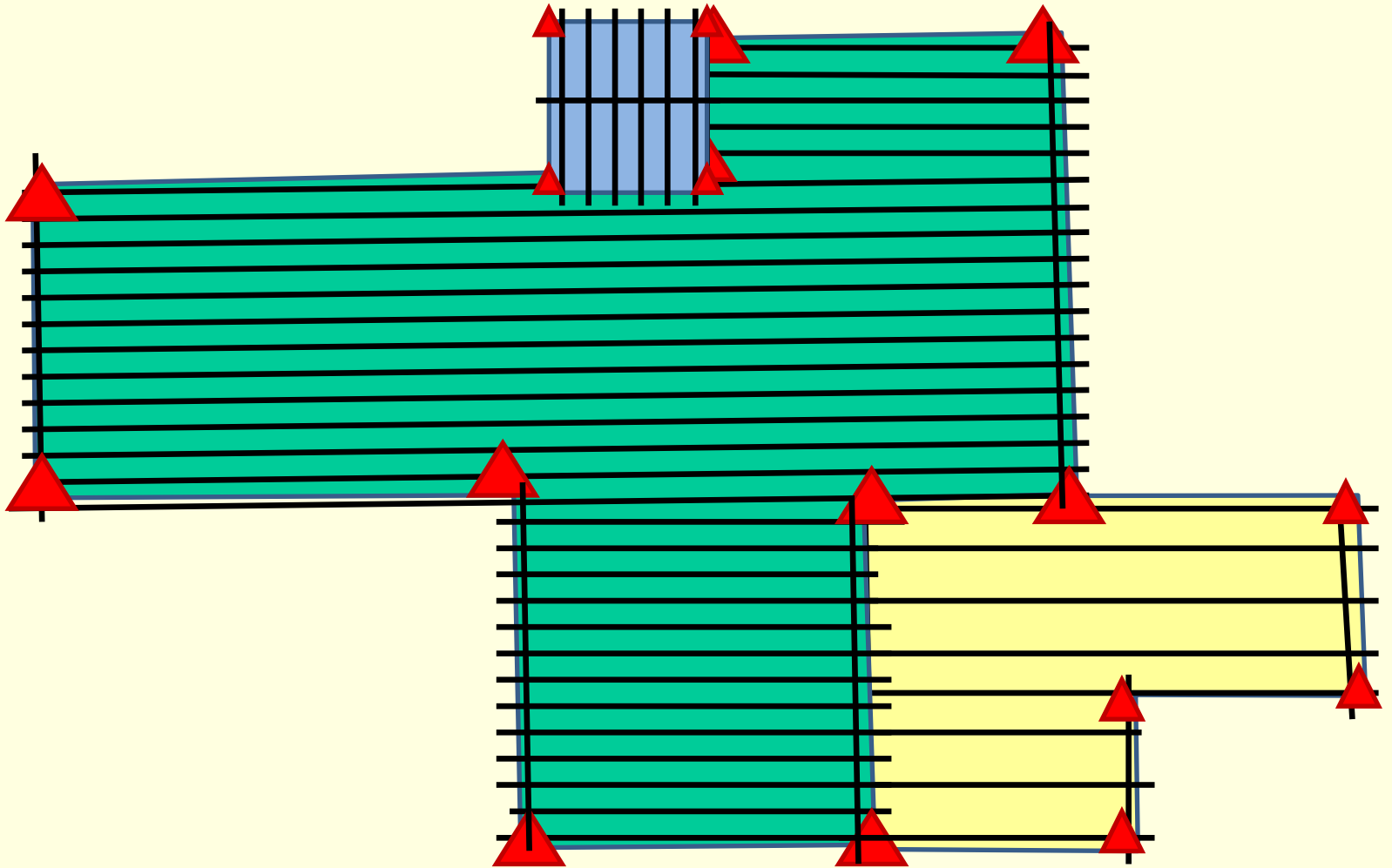
Example 3 – large area



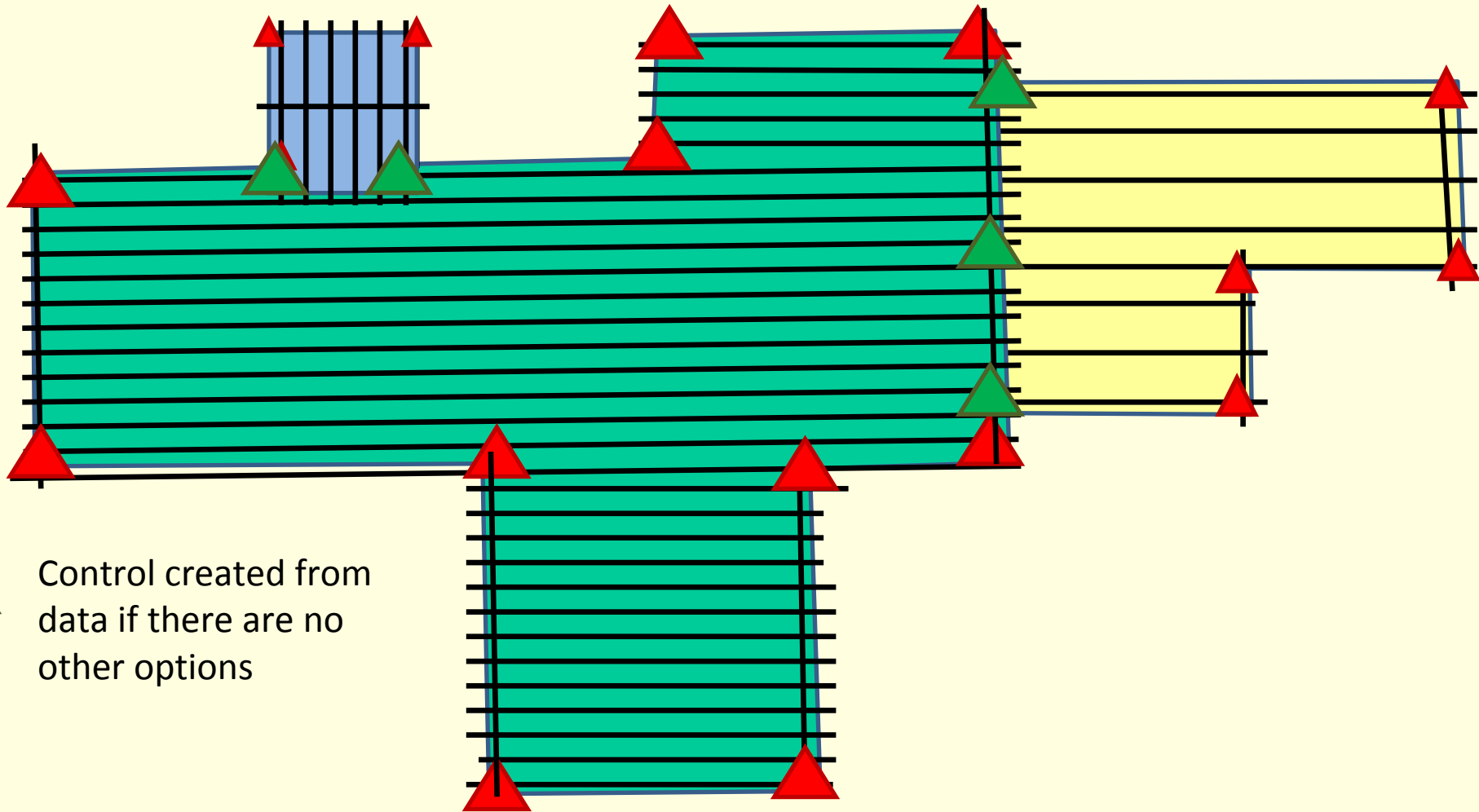
Example 4 – large area



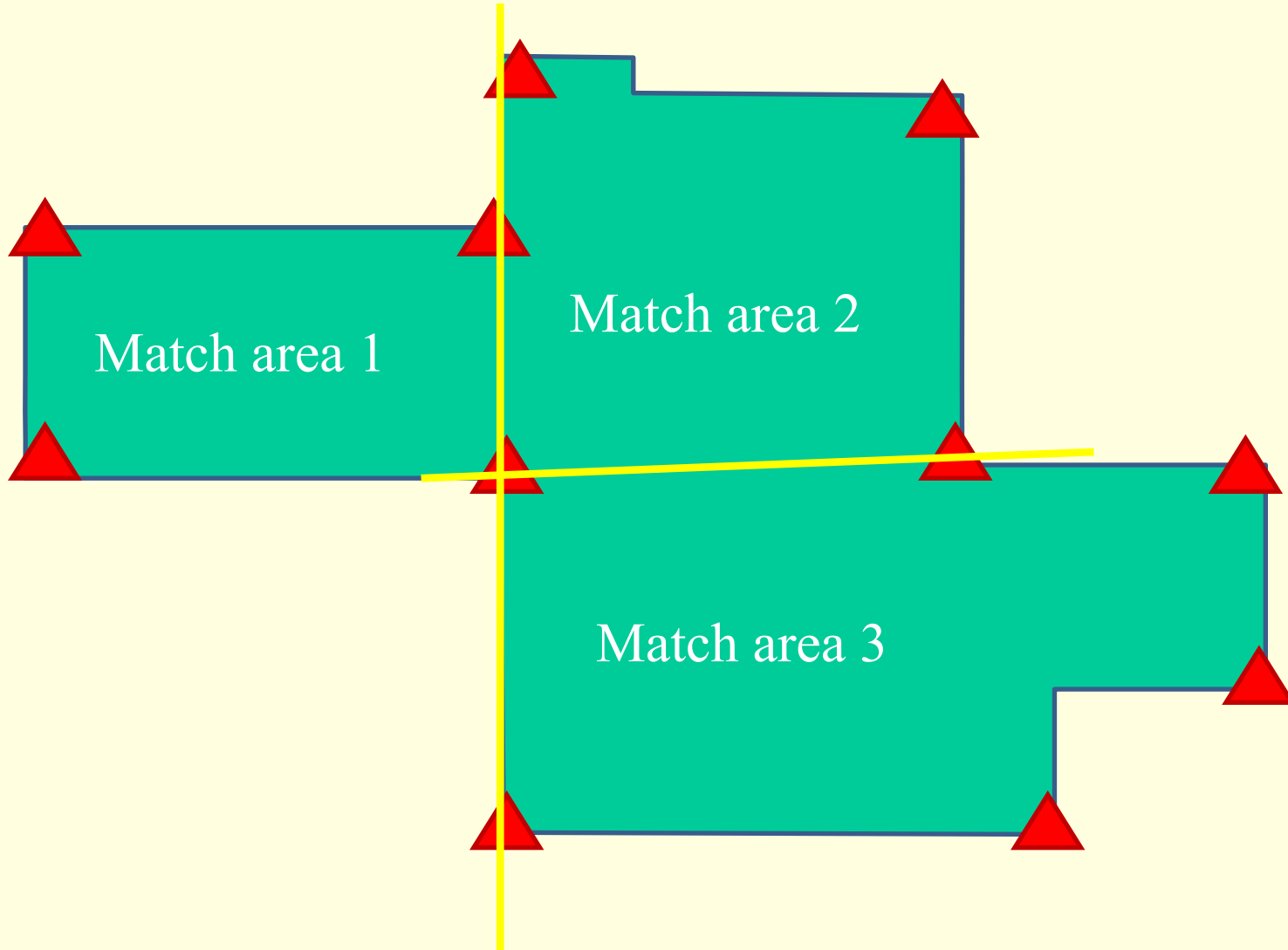
Combining to a larger area



Adding to an area

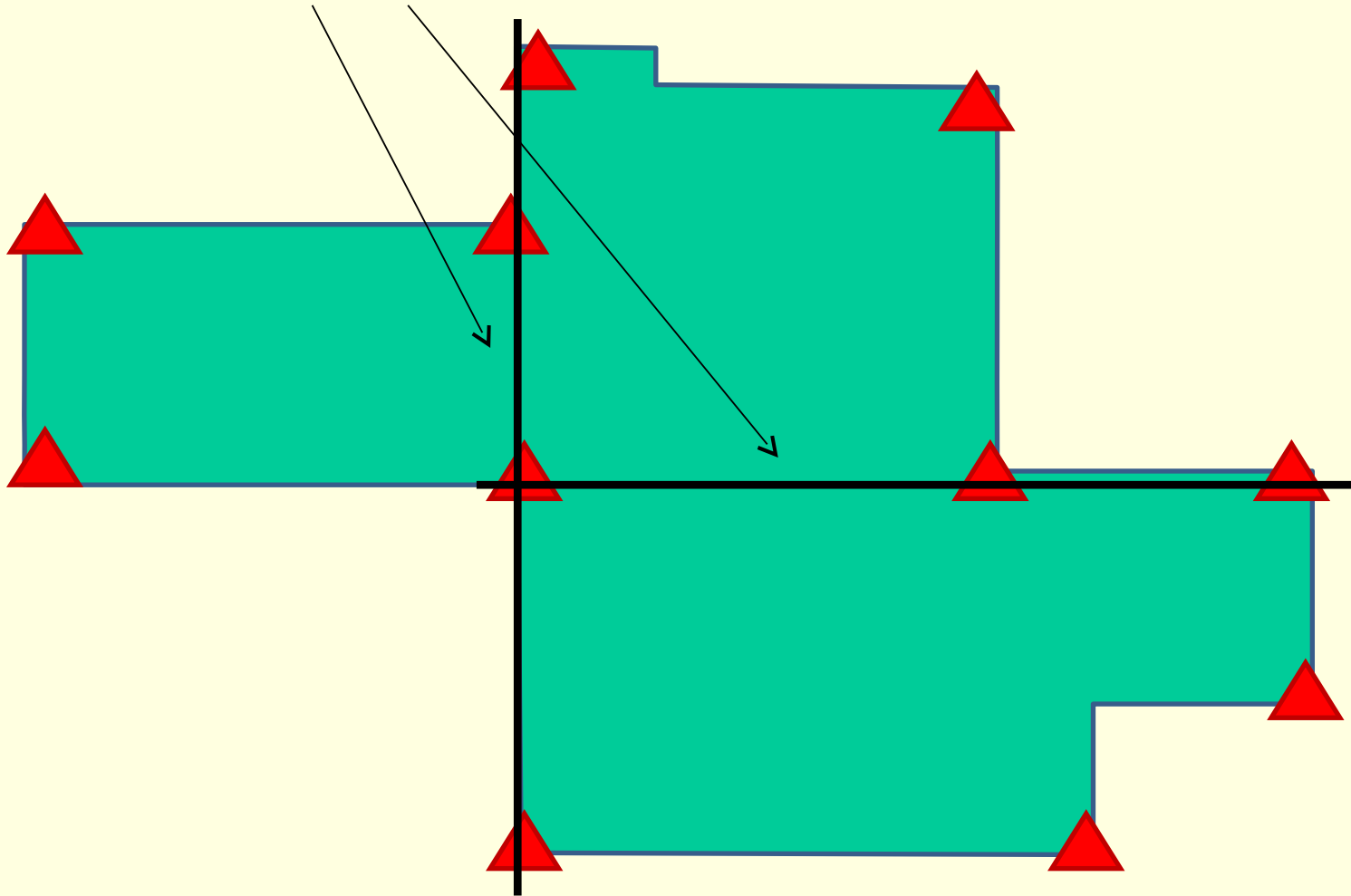


Splitting



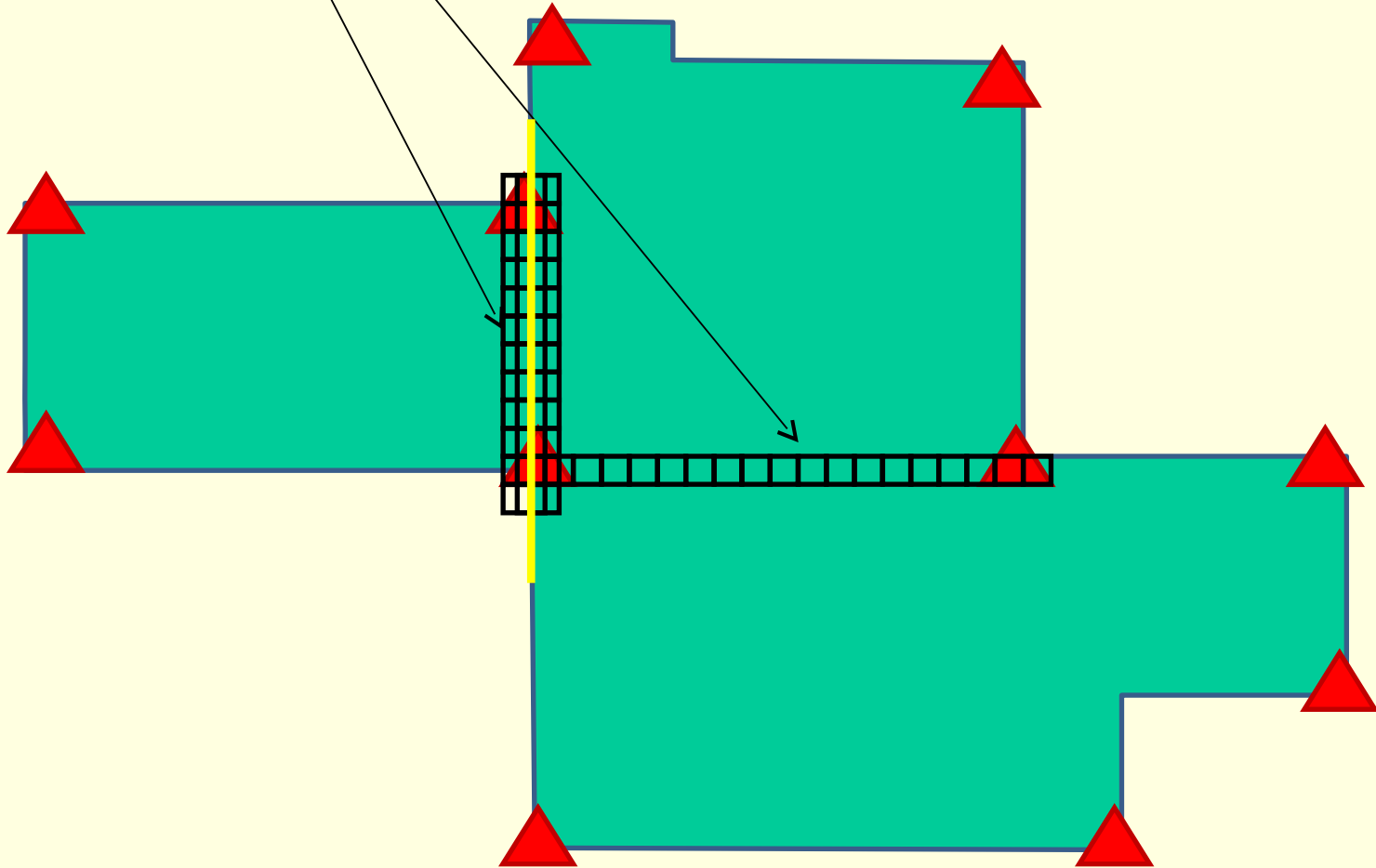
Create overlap when splitting

Include the same flightline in both areas

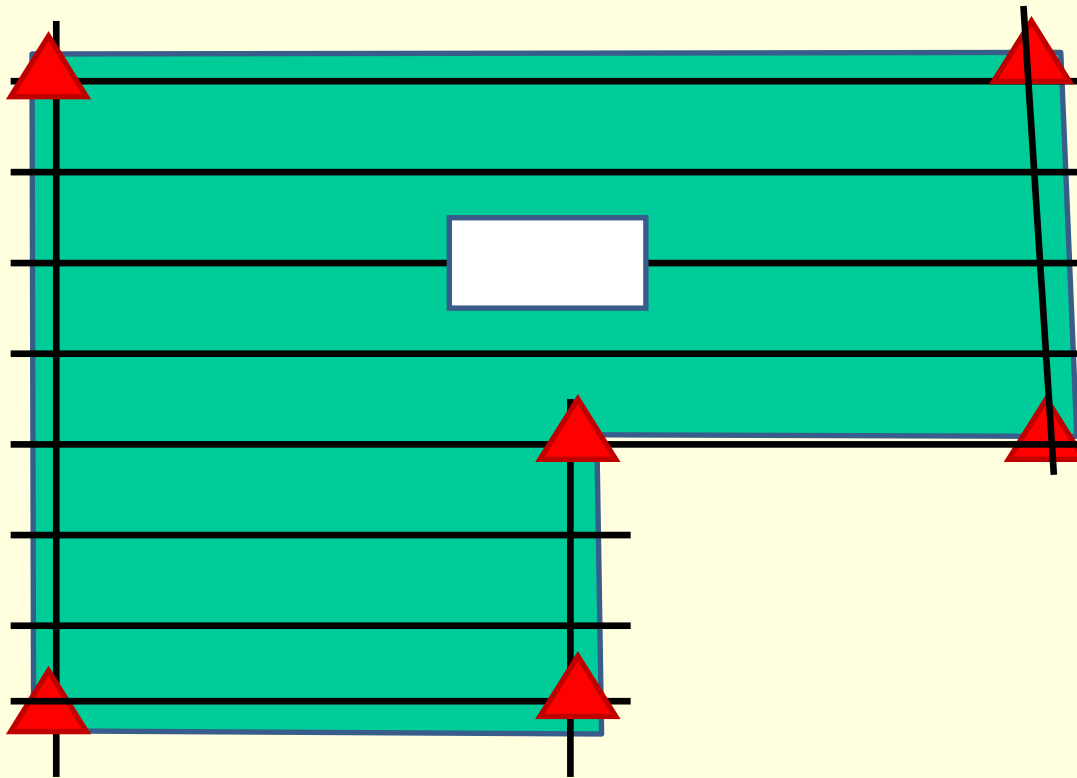


Create overlap when splitting

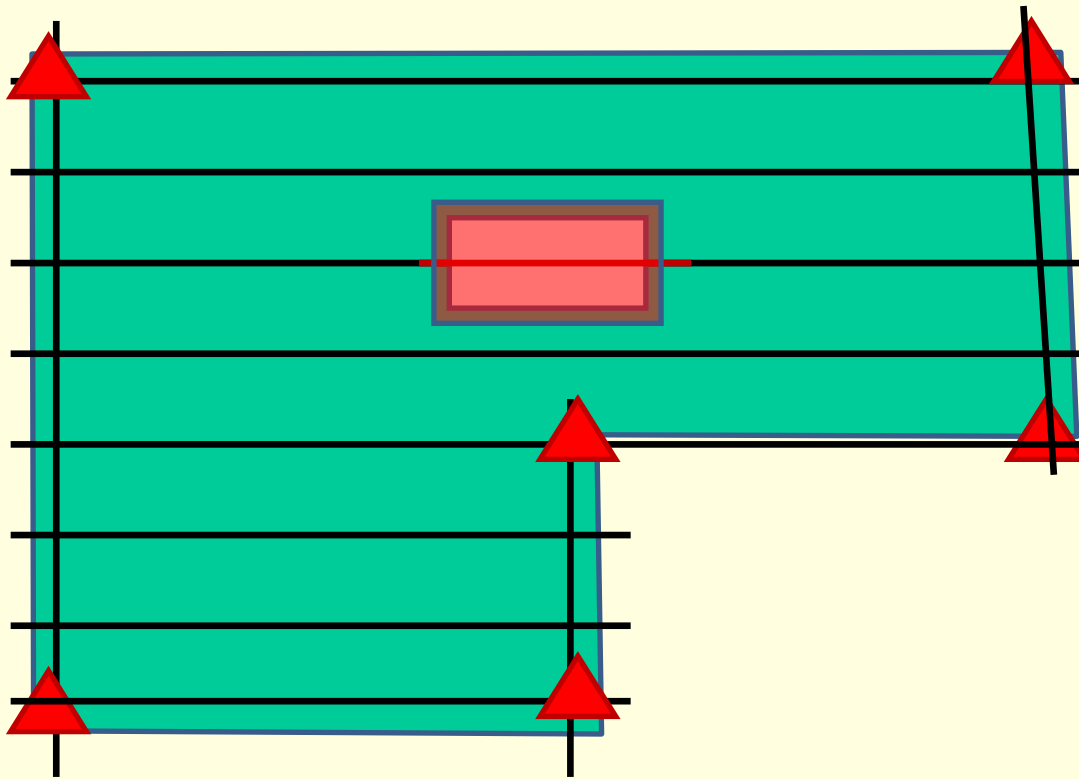
Include the same blocks (and data) in both areas



Fill gaps



Gap is flown afterward



Gap Alt 1 - Fit new data to old data

- Put trajectory quality 'Bad' on new data
- Use 'Find Match' and choose to correct only 'Bad' flightlines
- (Hopefully this will be available for Tie Line Matchin soon => faster processing)

Gap Alt 2 – Adjust all data in one step

- Add new trajectory to project
 - standard GPS time
- Add new data to project
 - standard GPS time
- Go through procedure as usual

GPS positioning

- Good quality in GPS positioning makes matching easy
- Bad quality in GPS positioning causes unexpected drift, large offsets and sudden changes which are difficult to find, model and correct for
- Bad quality GPS creates a need for more ground control point (typically Mobile Mapping)