

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

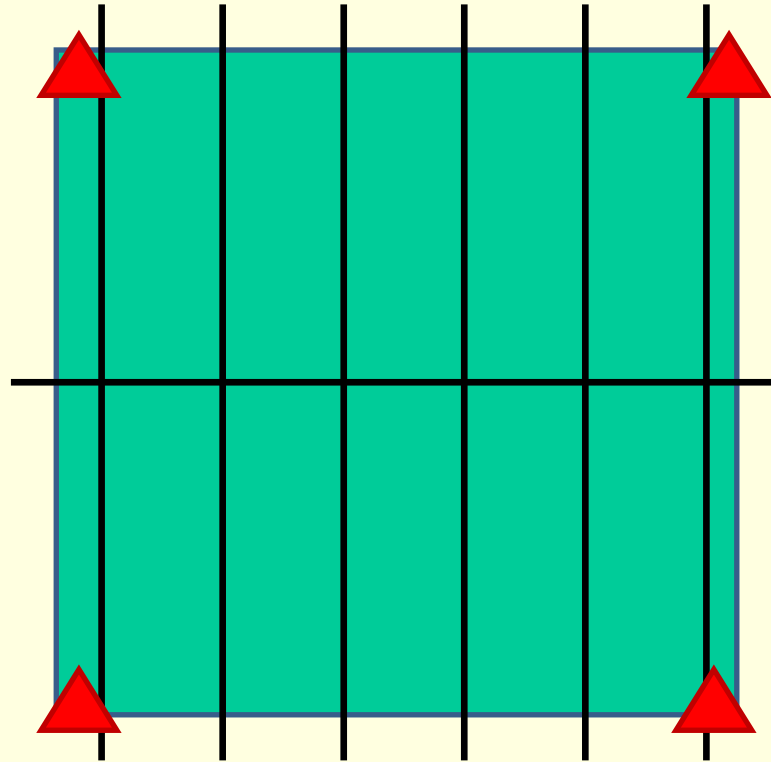
# Splitting large projects

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

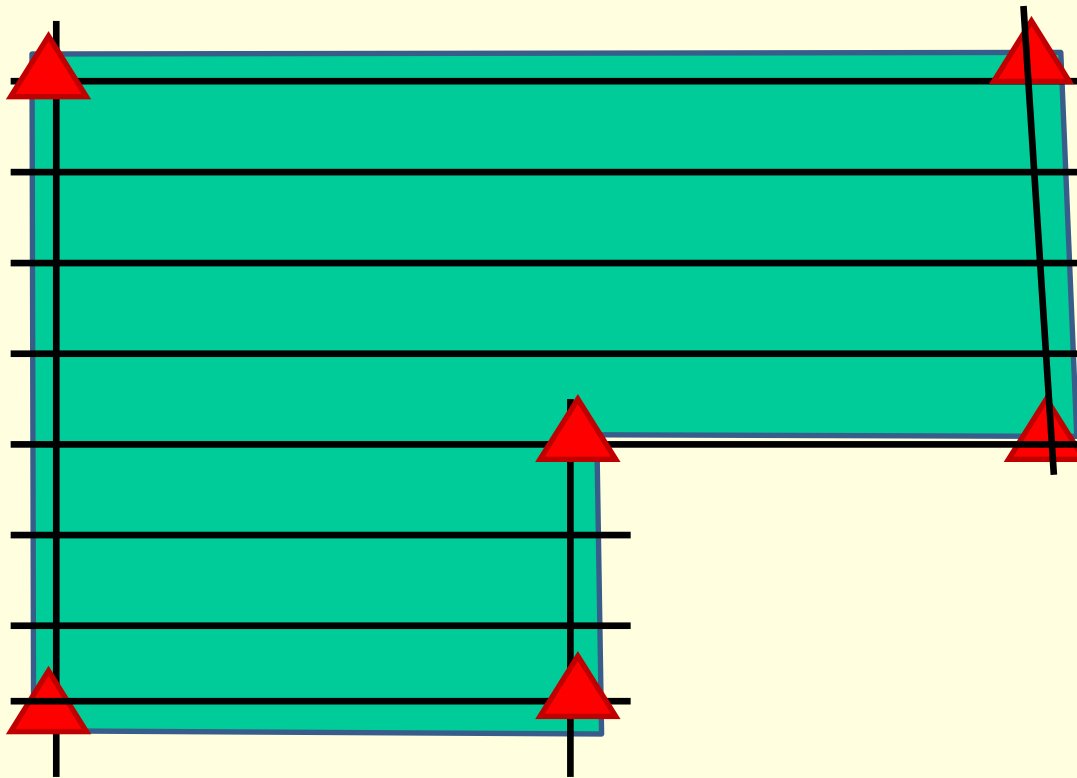
# Good configuration

- 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

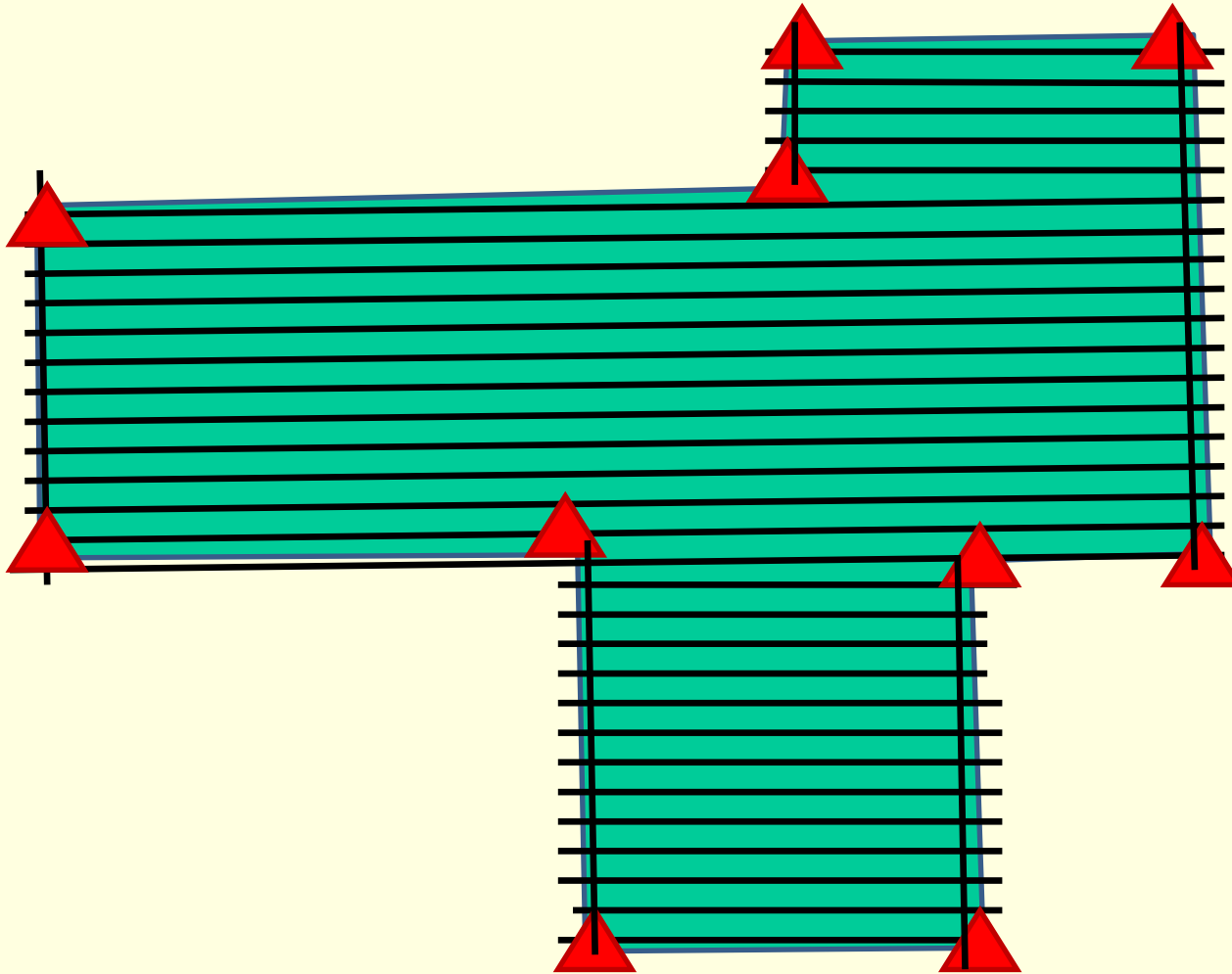


# Example 2 – medium area

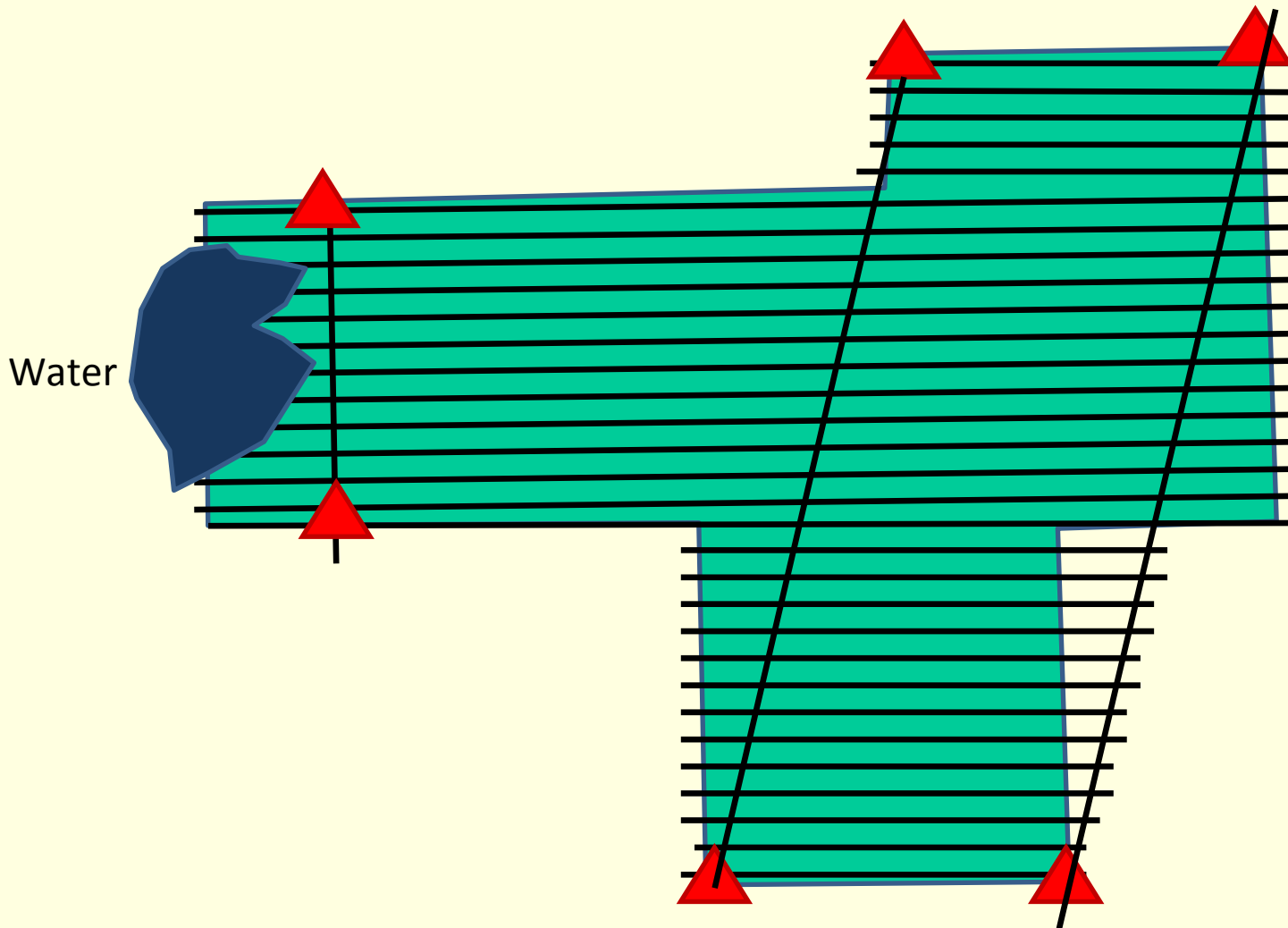




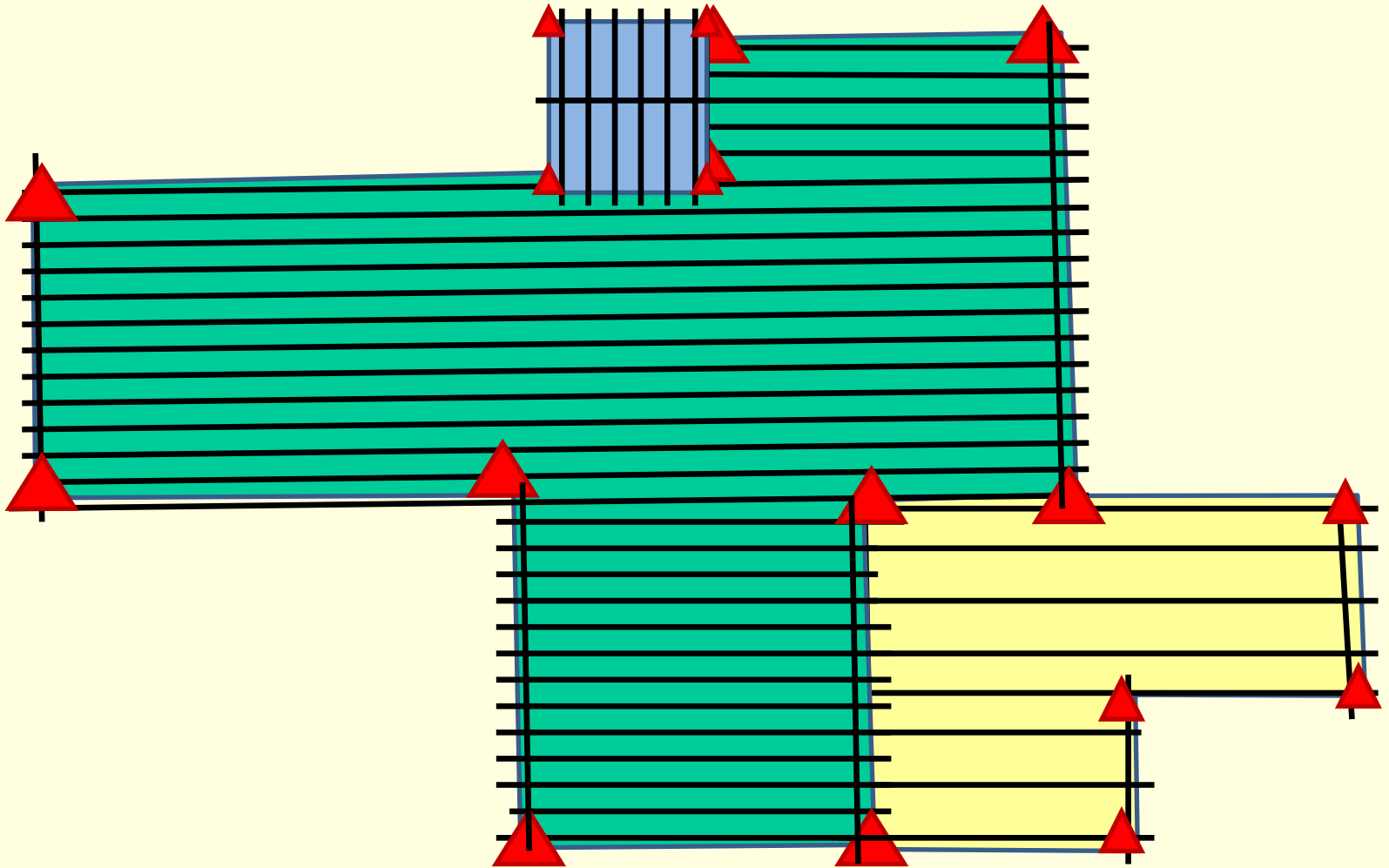
# Example 3 – large area



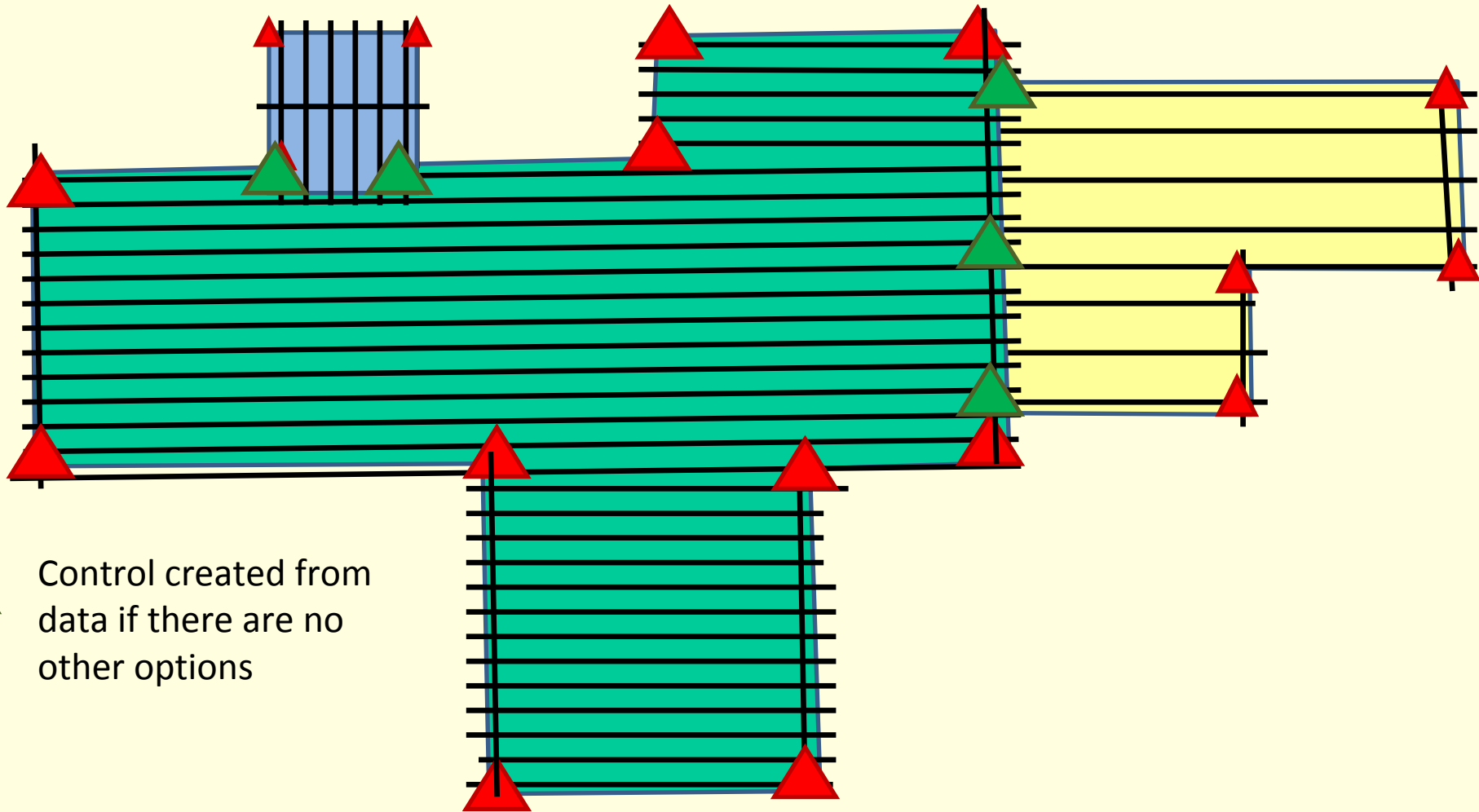
# Example 4 – large area



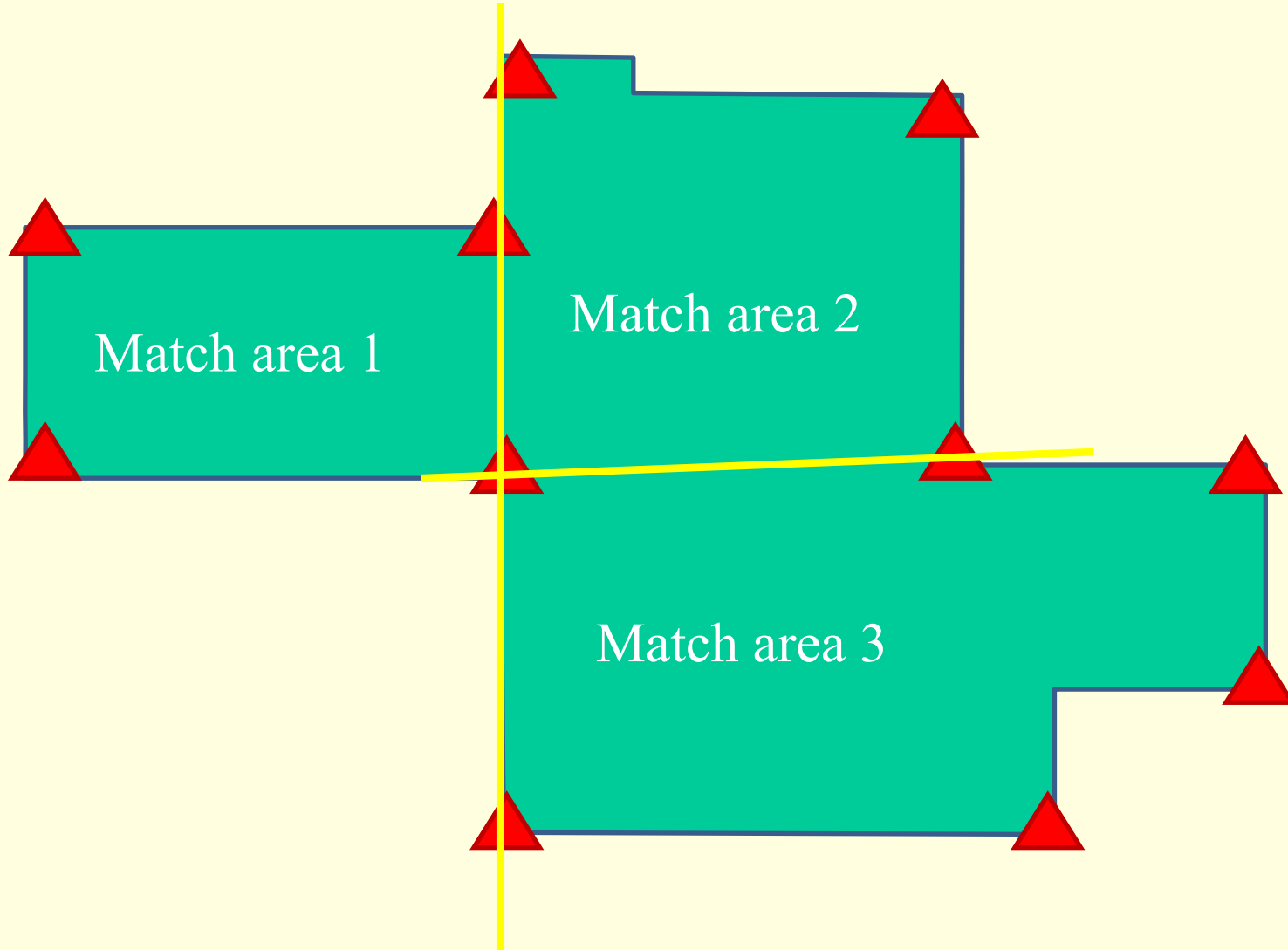
# Combining to a larger area



# Adding to an area

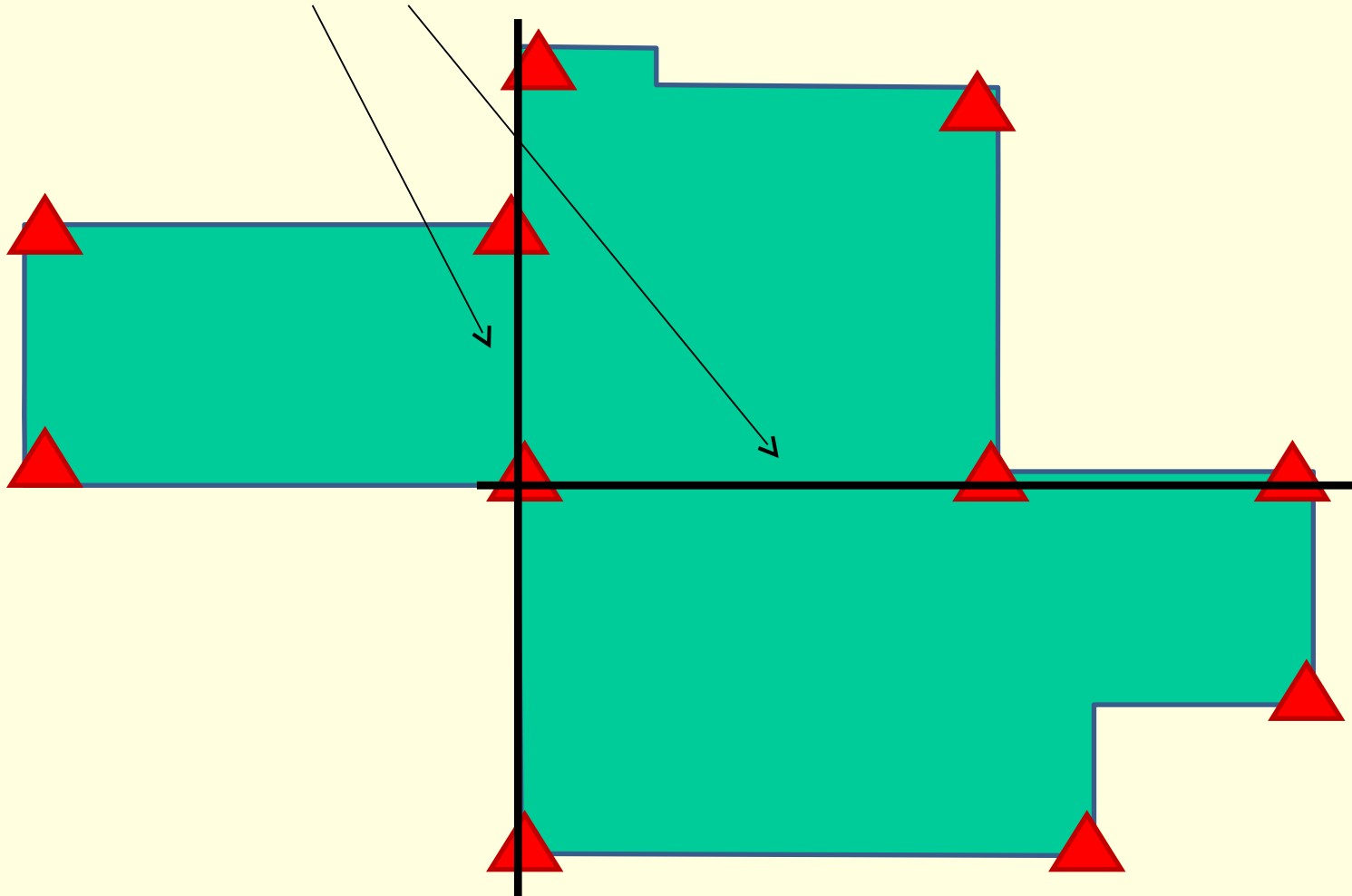


# Splitting



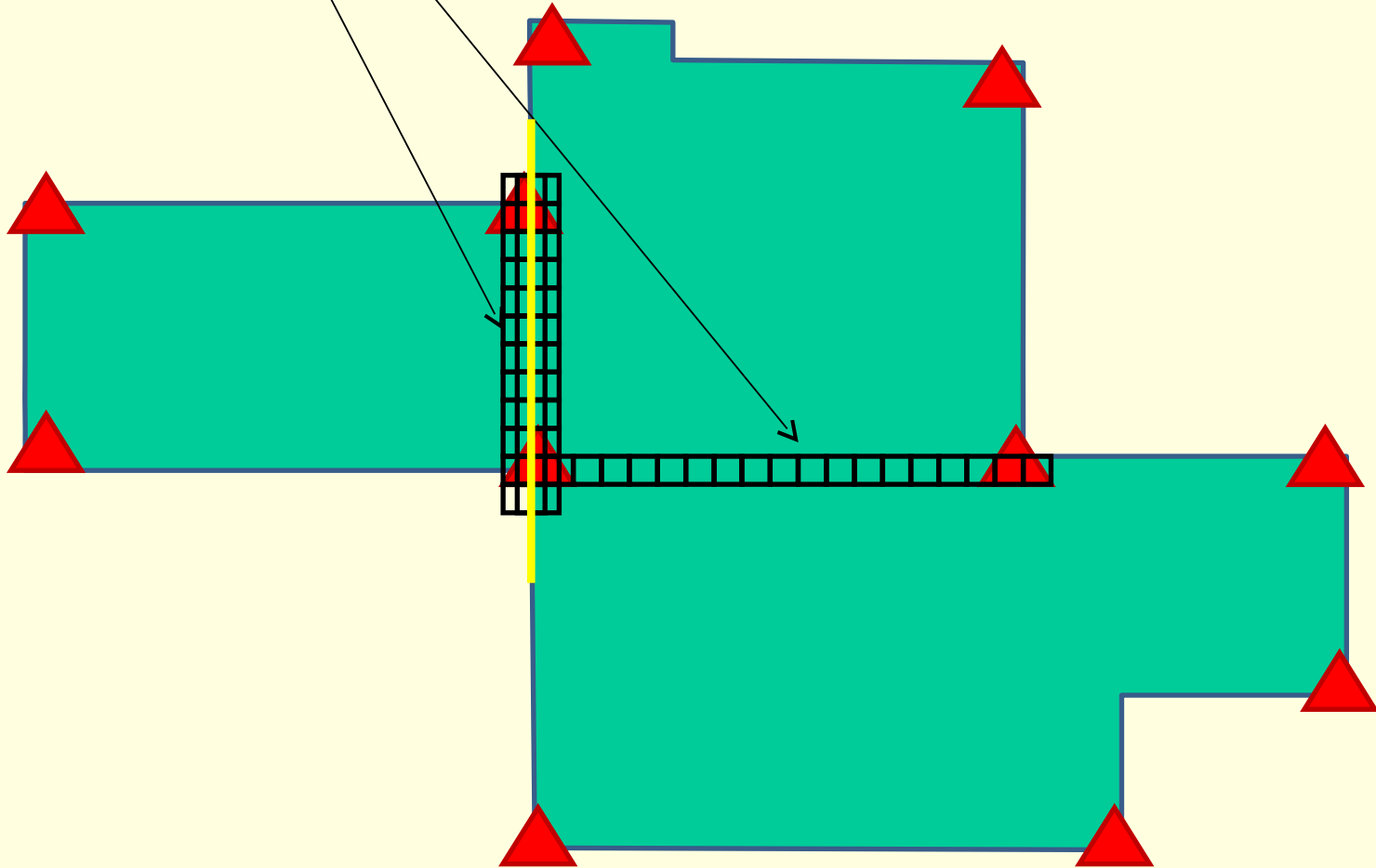
# Create overlap when splitting

Include the same flightline in both areas

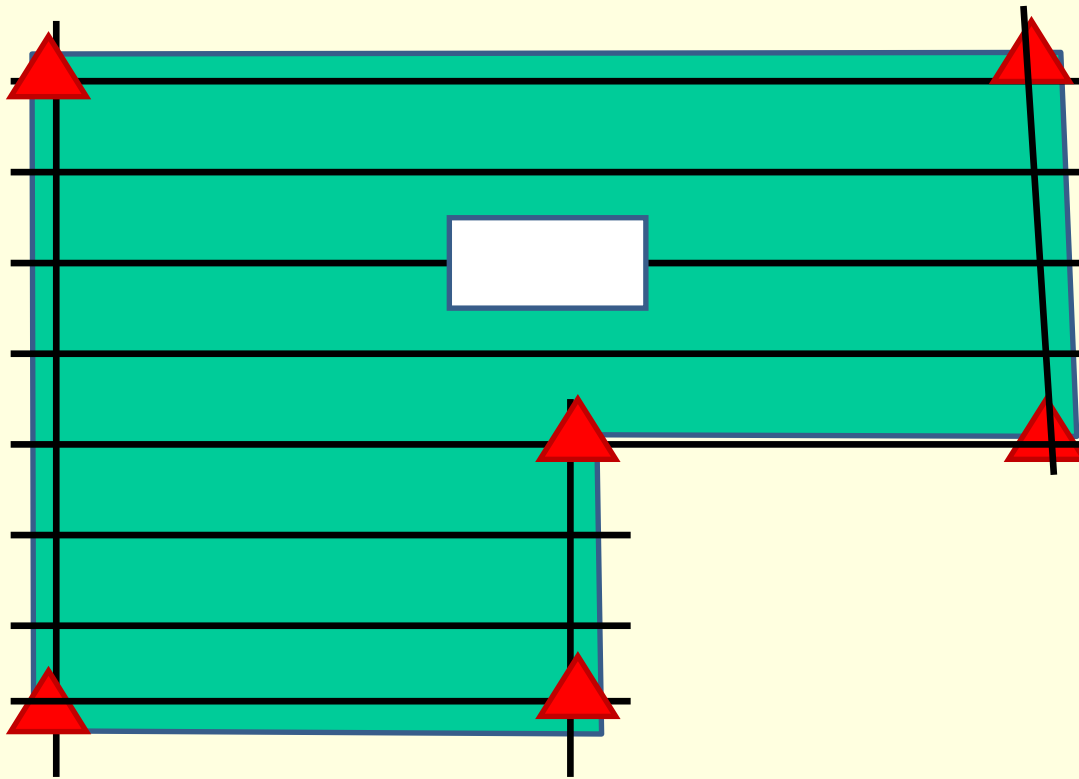


# Create overlap when splitting

Include the same blocks (and data) in both areas

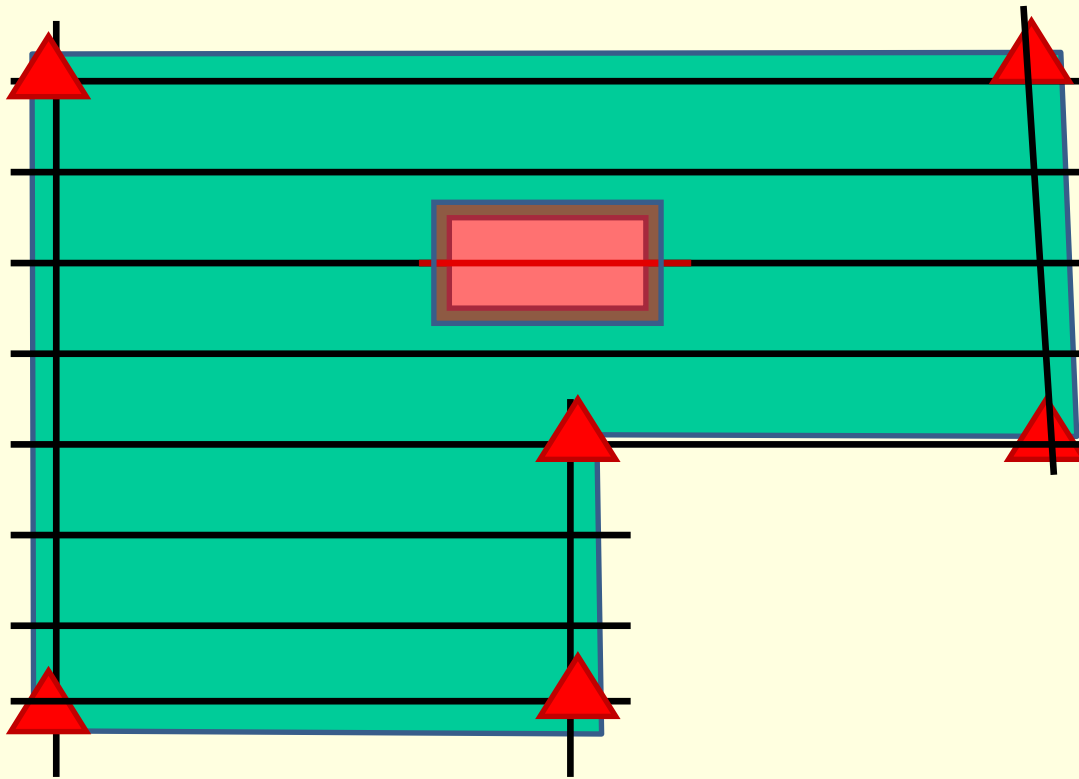


# Fill gaps





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)