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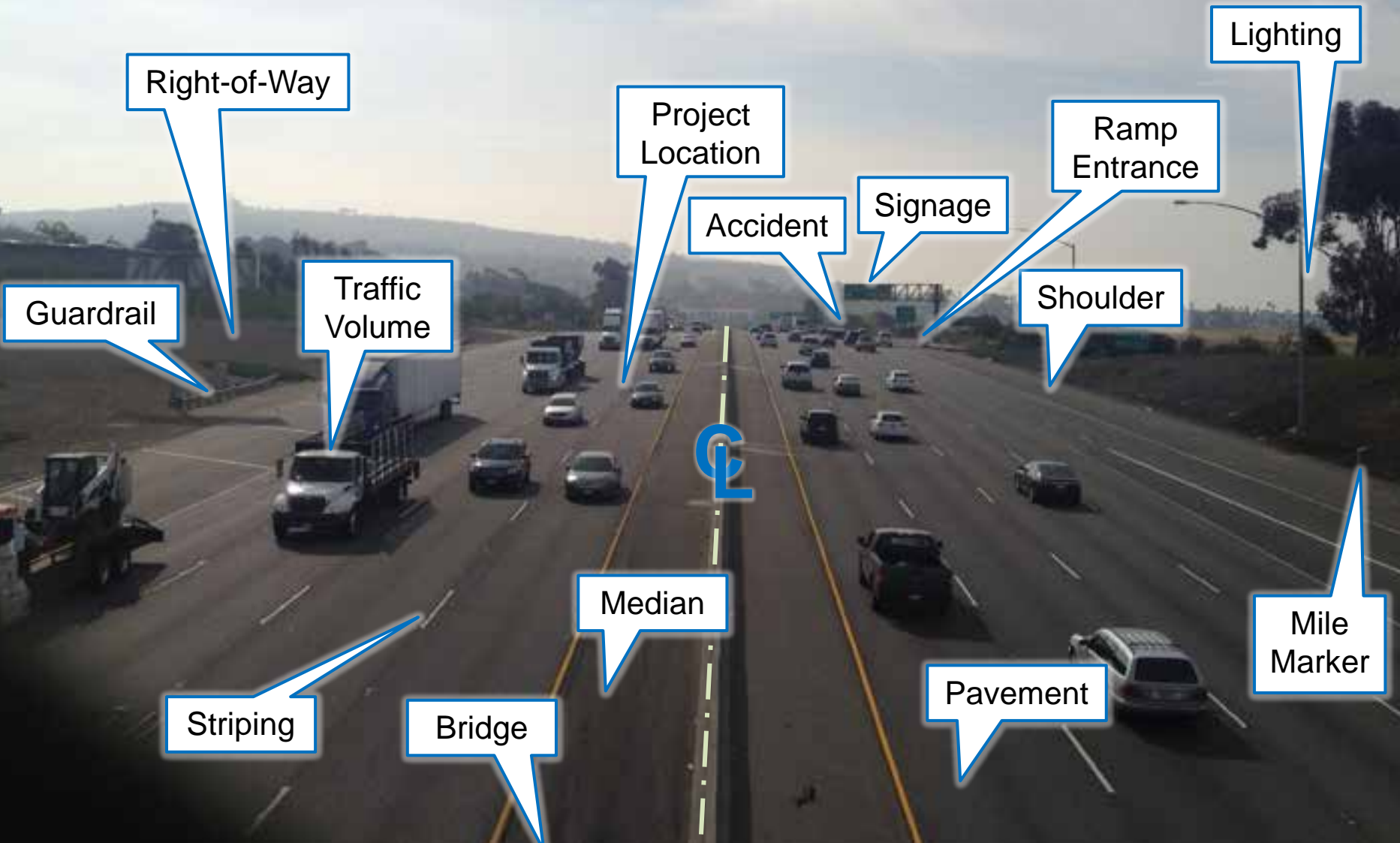
# **LRS Maintenance and Asset Management Systems**

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# Linear Referencing



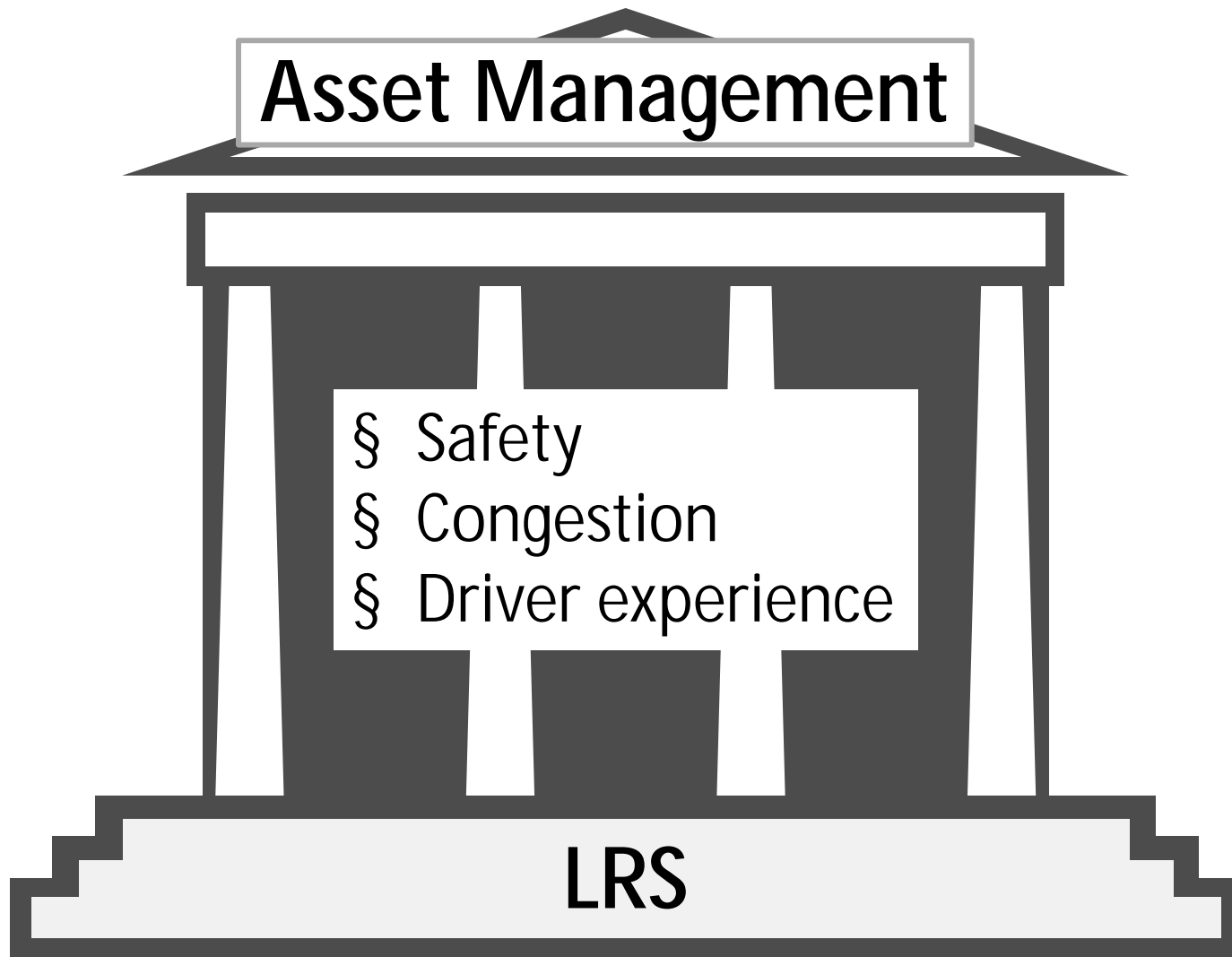
# Keeping the right perspective on LRS

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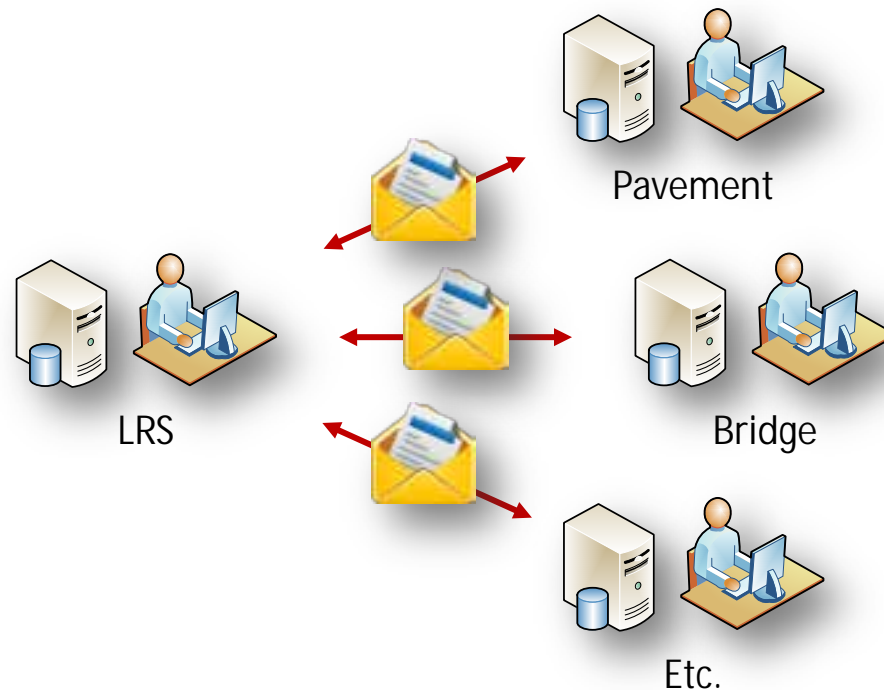
LRS

# Keeping the right perspective on LRS



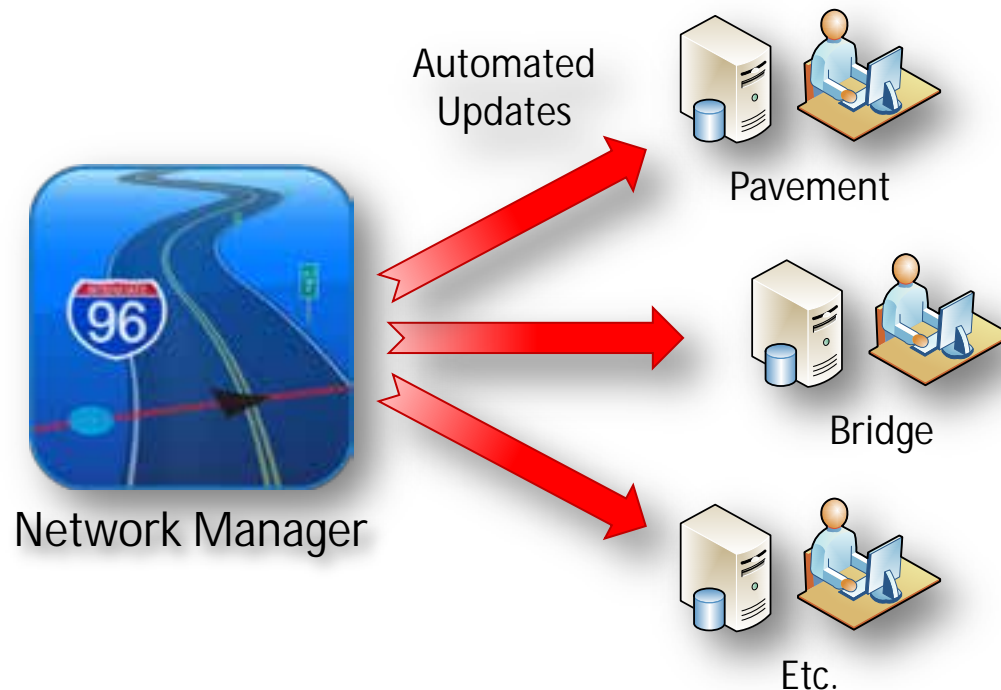
# Evolution of LRS & Event Location Maintenance

- Current Method in many DOTs
  - Integration by memo
  - Each group makes its own Event changes



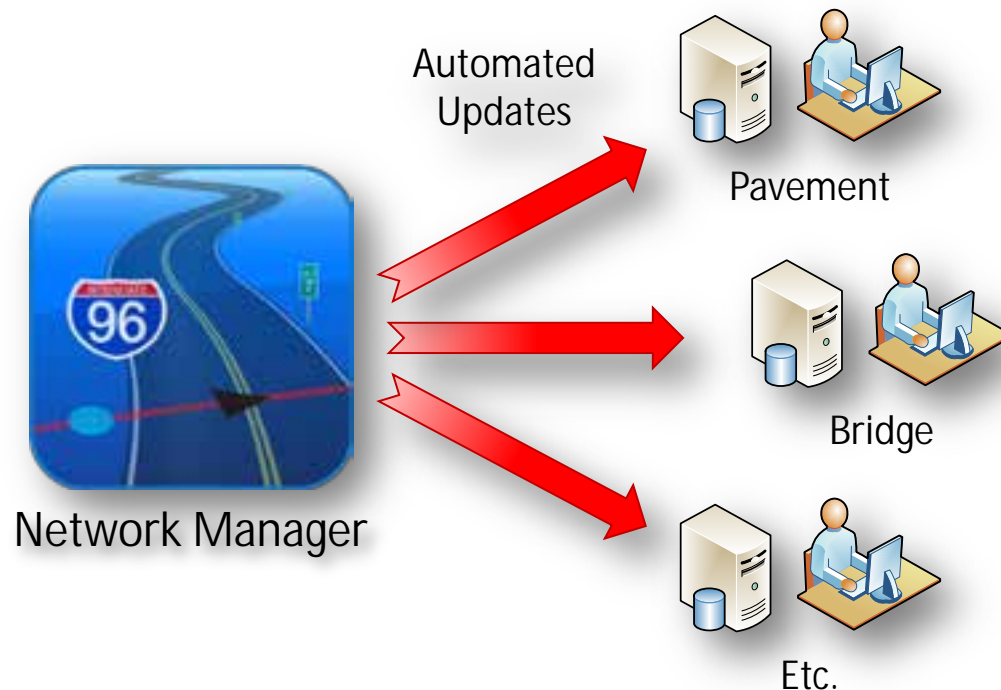
# Evolution of LRS & Event Location Maintenance

- Single-source LRS
  - Automated updates to the entire organization

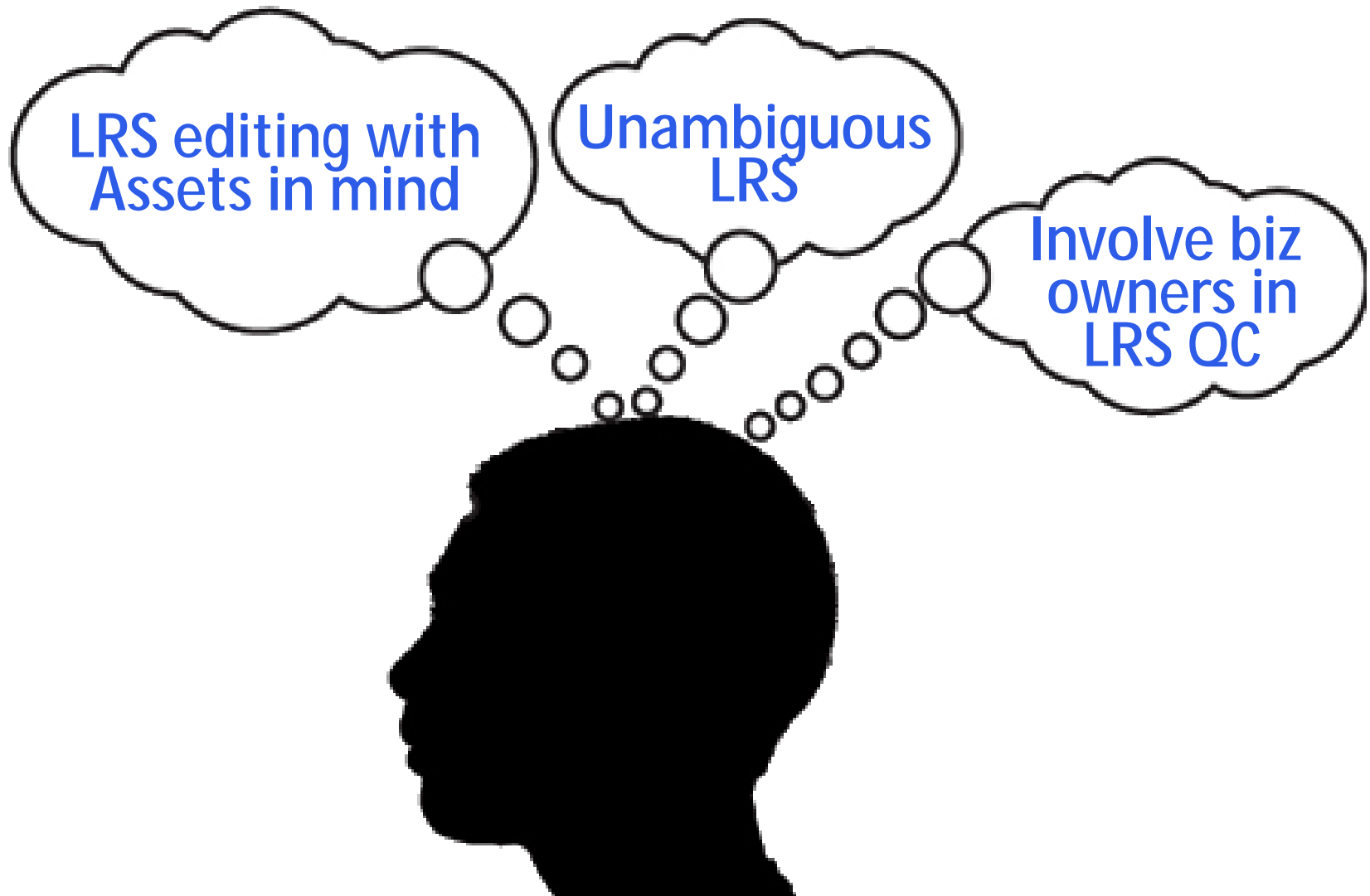


# Single- source LRS

- Great force multiplier!
  - 1 LRS edit generates many Asset edits
- Double-edged sword
  - 1 LRS error can generate many Asset errors



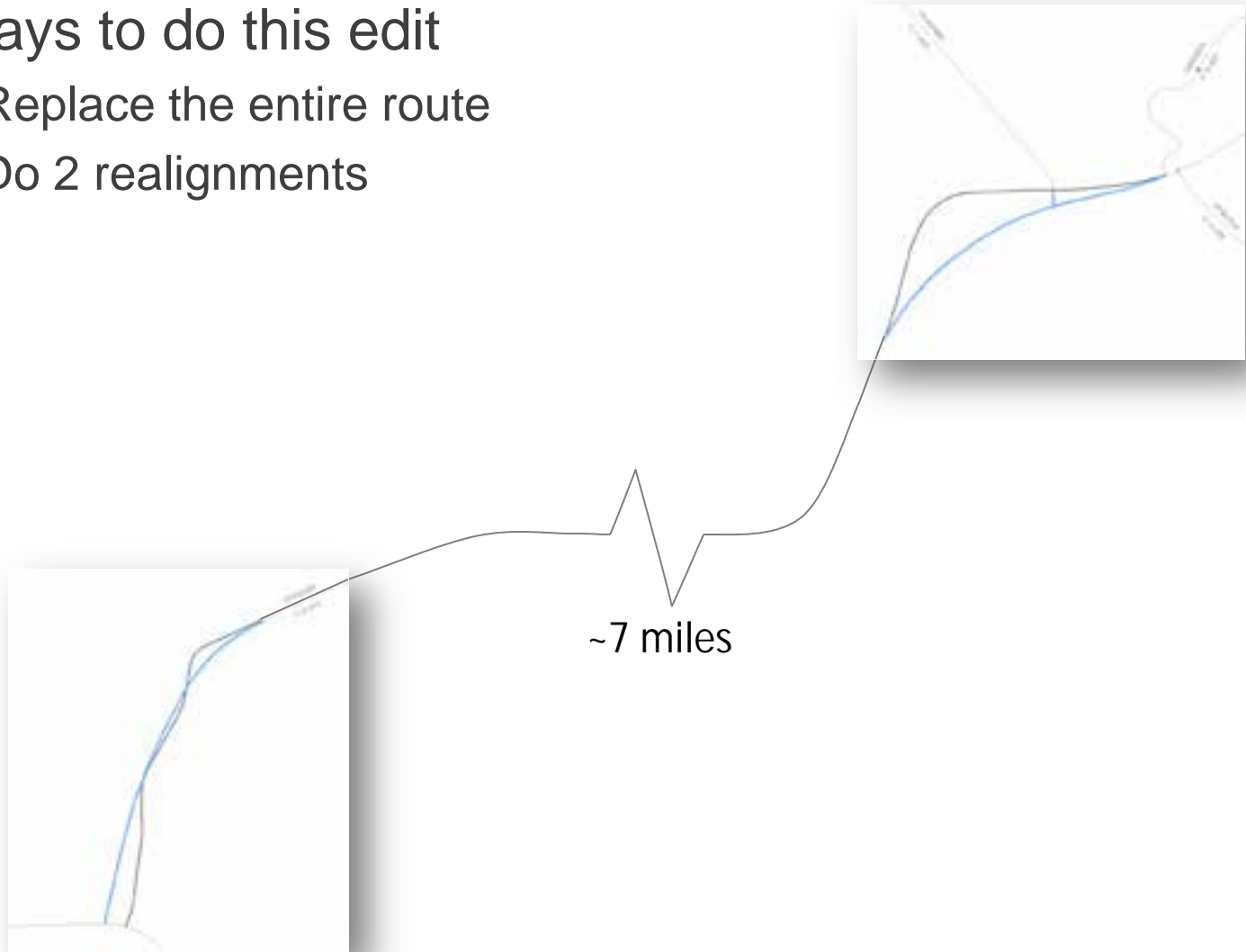
# 3 Thoughts on LRS Maintenance





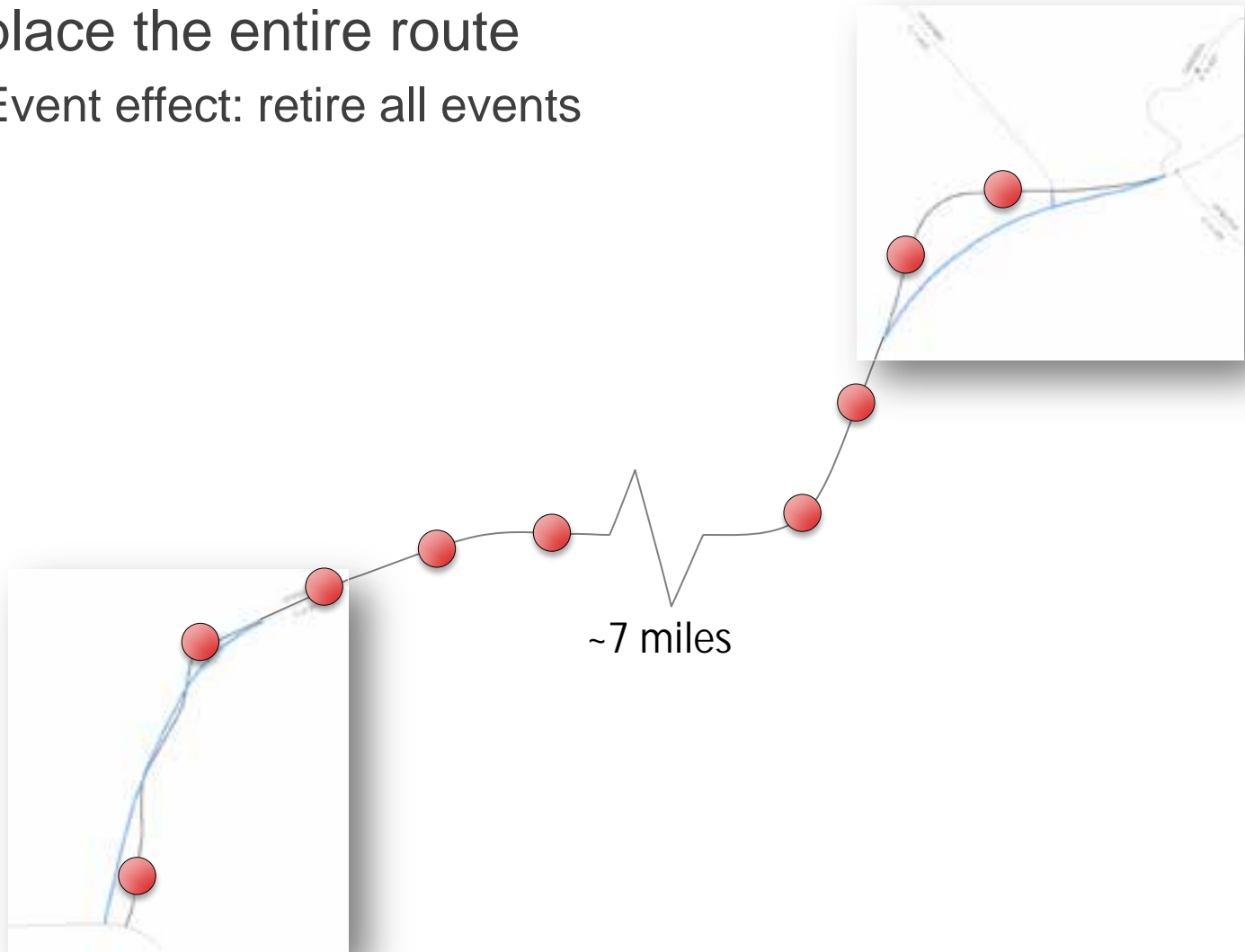
# LRS Editing with Assets in Mind

- 2 ways to do this edit
  - Replace the entire route
  - Do 2 realignments



# LRS Editing with Assets in Mind

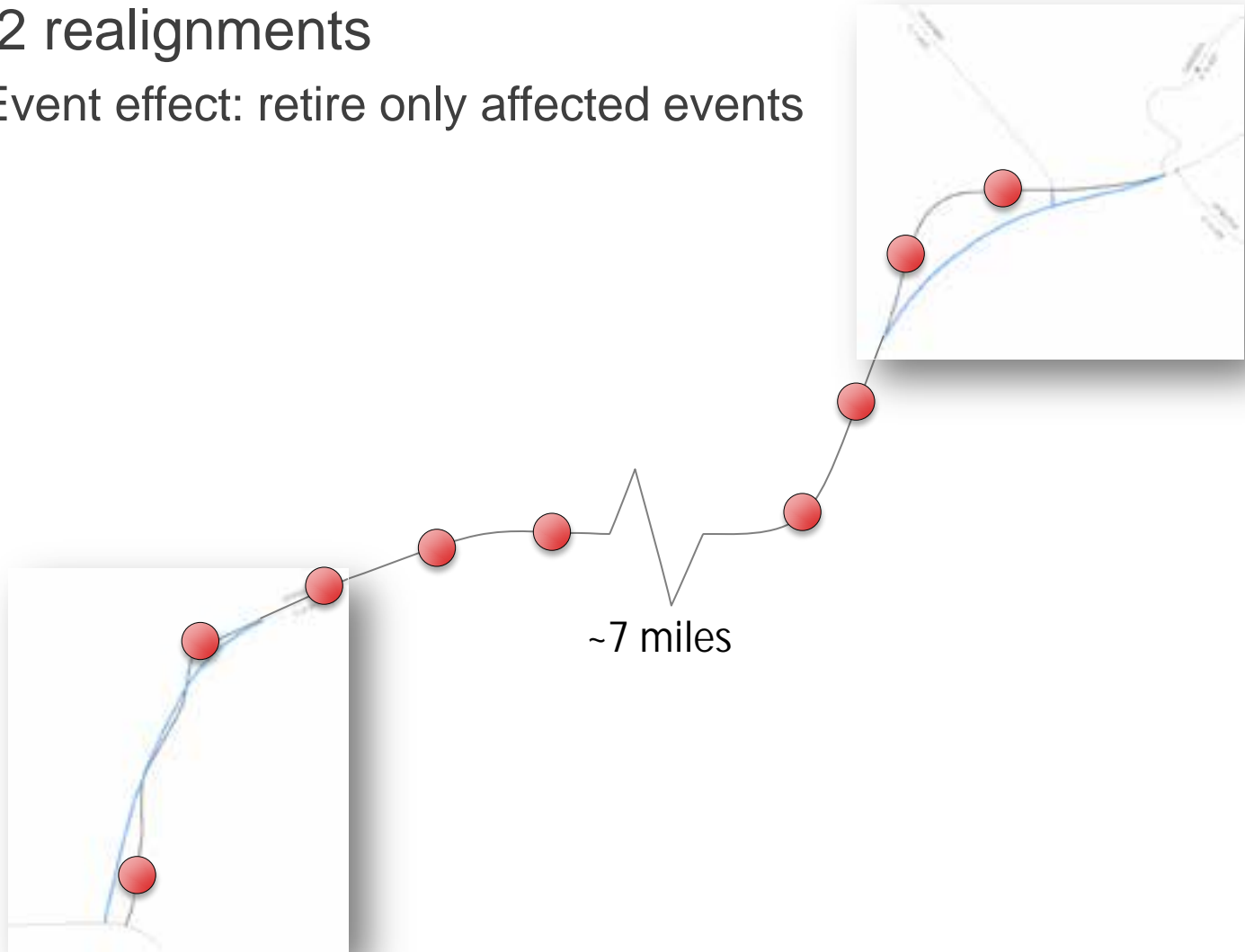
- 1) Replace the entire route
  - Event effect: retire all events



# LRS Editing with Assets in Mind

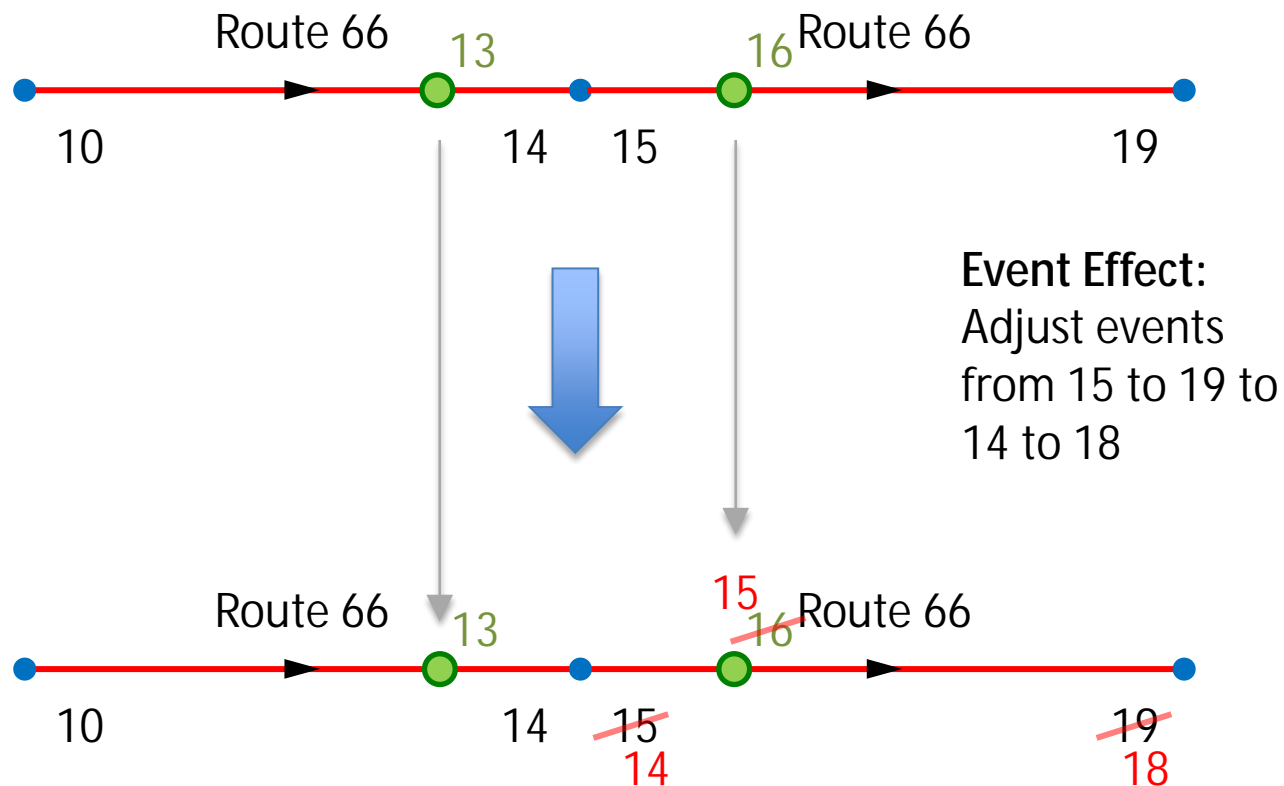
## 2) Do 2 realignments

- Event effect: retire only affected events



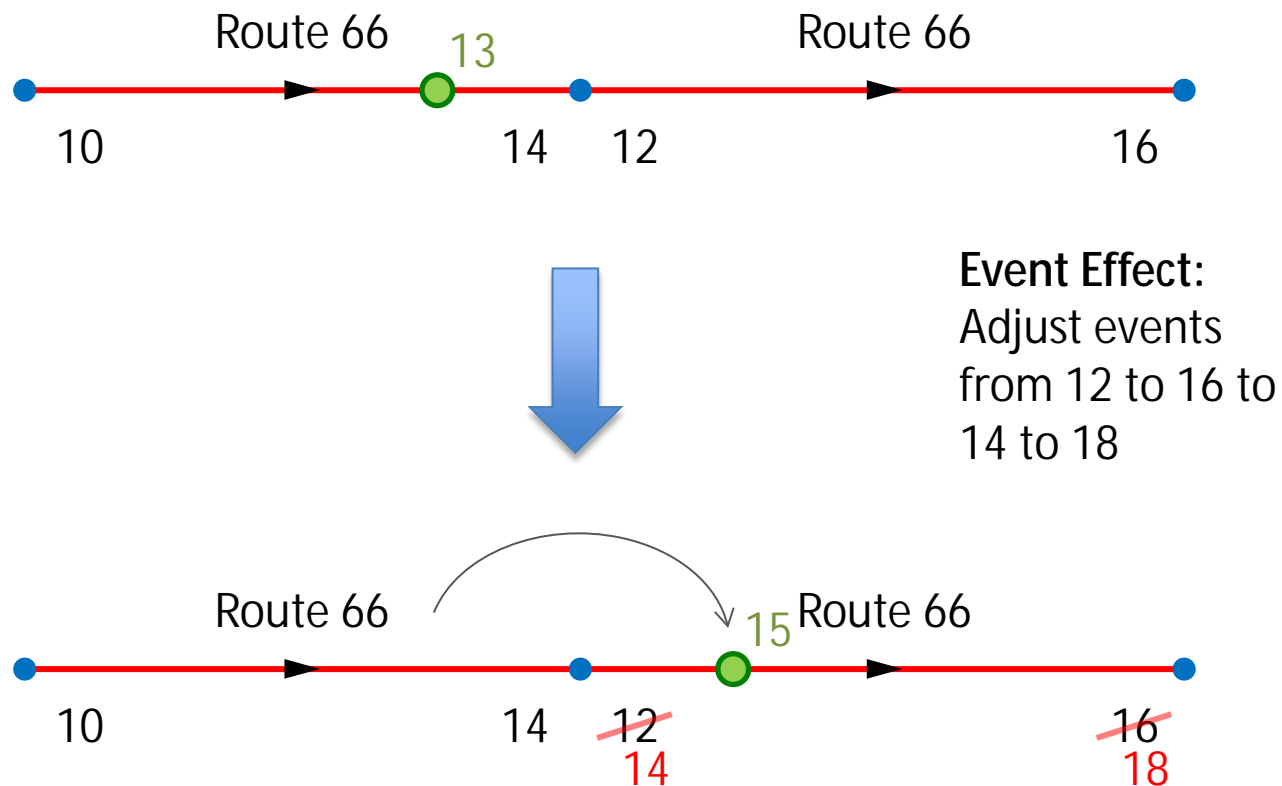
# Importance of an Unambiguous LRS

- Correcting non-ambiguous locations is OK



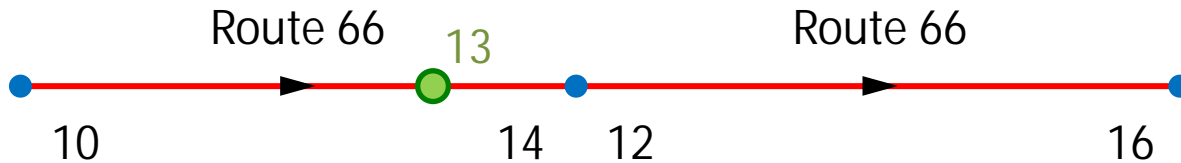
# Importance of an Unambiguous LRS

- Correcting ambiguous locations can corrupt event data



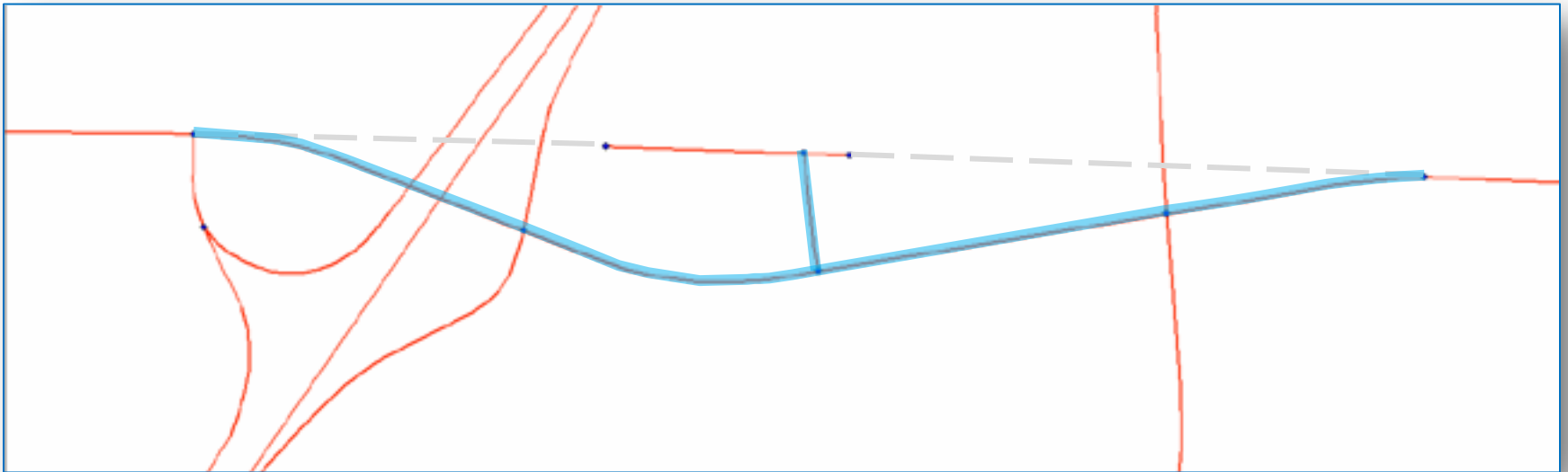
# Importance of an Unambiguous LRS

- One approach:
  - Real-time QC, ambiguous edits are not allowed

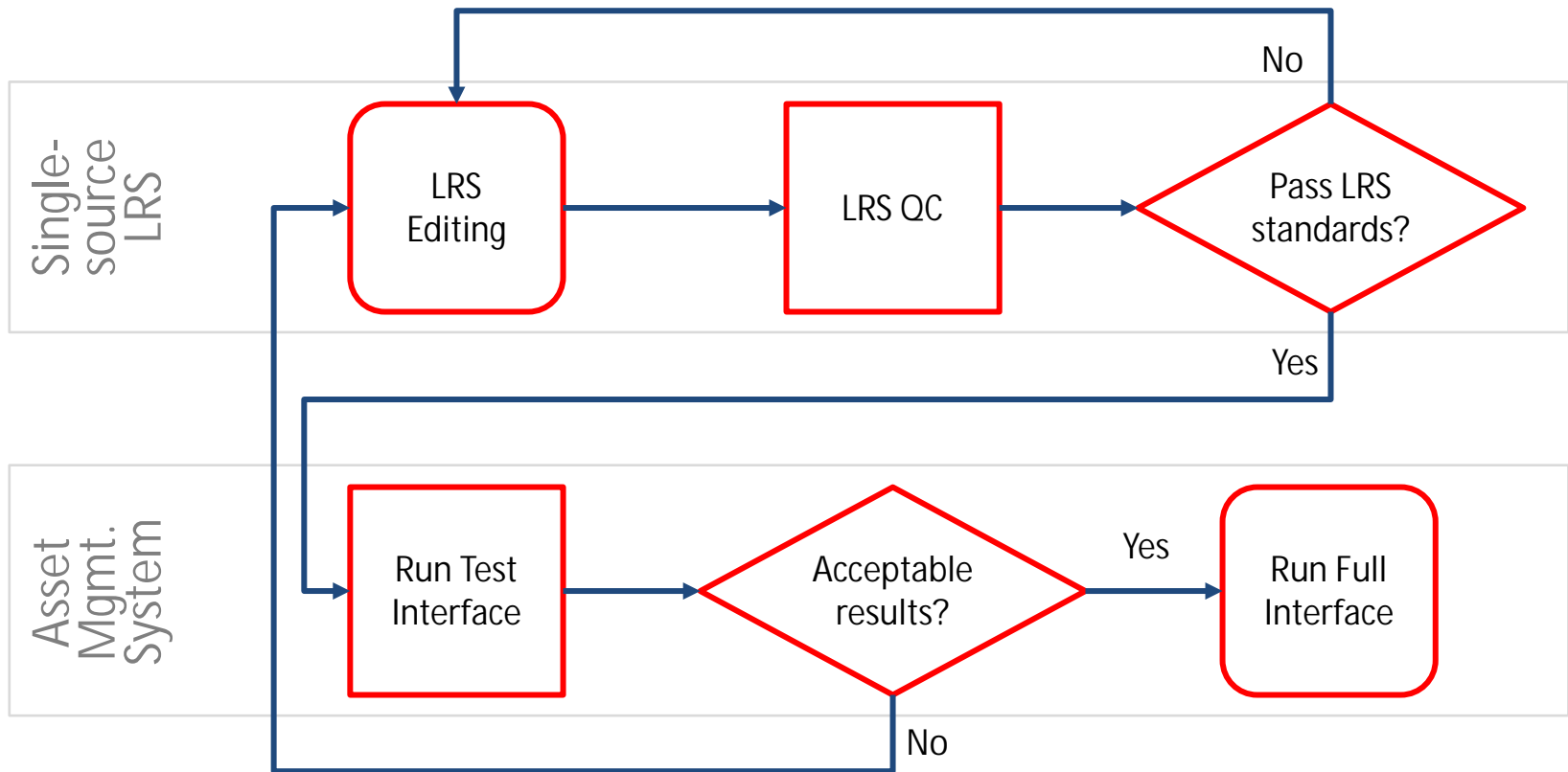


# Involve Business Owners in LRS QC

- Test Mode Option
  - Allows business units to preview results
  - Can review reports of Event locations before & proposed
  - Allows LRS to be reworked if necessary
  - Standard operating procedure in Idaho



# Involve Business Owners in LRS QC





# Summary

- LRS is in service of Asset Management
- Single-source LRS is a double-edged sword
- Edit the LRS with your Assets in mind
- Disallow ambiguous LRS because event locations can be corrupted
- Involve Business owners in LRS QC



# Questions & Answers

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# Thank You.



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