

Geographic Tagging Tool

Documentation

October 7th, 2019





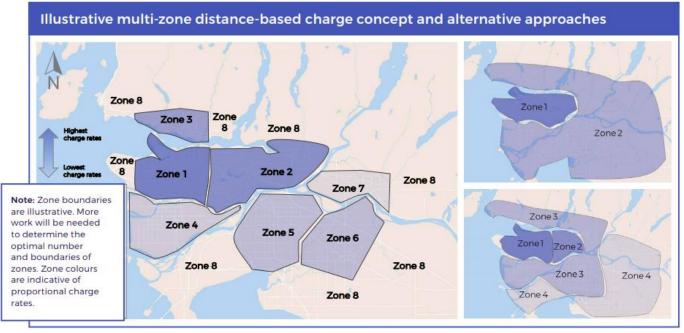
Purpose

 Add a link attribute with value for network links based on a shapefile. Can be used to define areas for a variety of purposes



Example

- Mobility Pricing Independent Commission requested modelling work to evaluate the impact of multi-zone distance-based charges.
- The zone number is assigned the link attribute to reflect different charge rates.
- The link attribute needs to be updated for every network edits; this is a lot of work.
- A GIS-based tool was developed to perform the zone id look-ups from polygon shapefile.

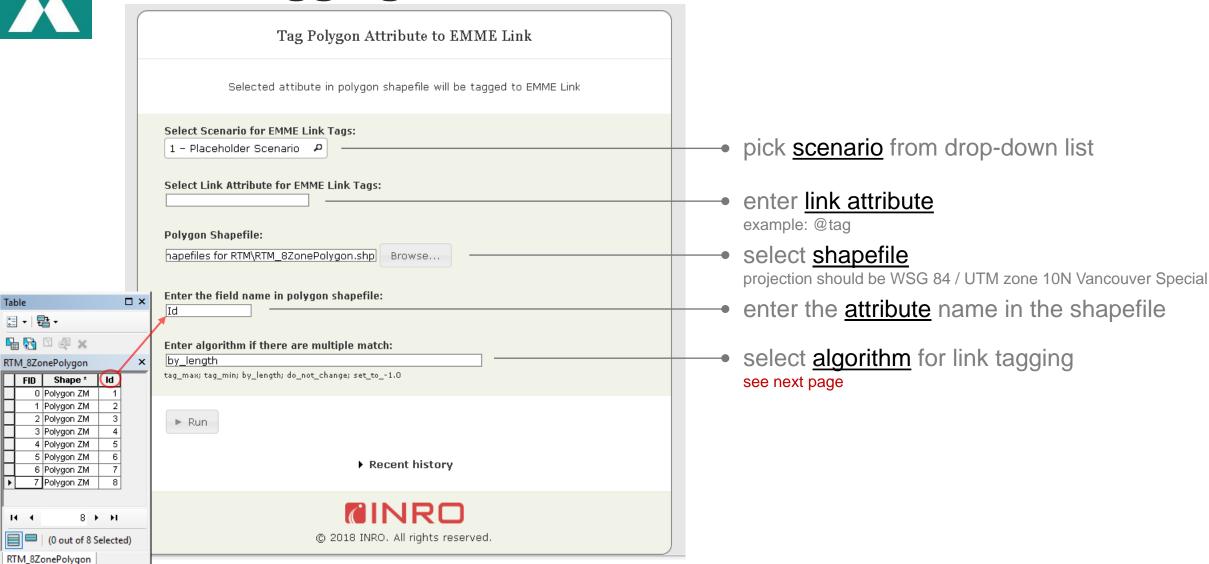


MPIC: Metro Vancouver Mobility Pricing Study Report, Page 41



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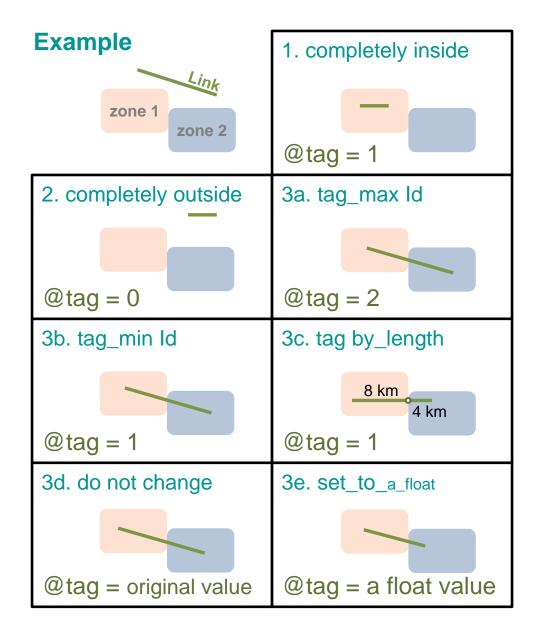
Link Tagging Tool





Algorithms

- If EMME link is completely within a polygon object, polygon shapefile "Id" is set to selected extra attribute "@tag"
- If EMME link is completely outside all polygon objects, default value 0 is recorded
- If EMME link is partially within one or more polygons, pick an algorithm:
 - tag max: tag the maximum value from all matches
 - tag_min: tag the minimum value from all matches
 - by_length: tag the polygon attribute with longest section of EMME Link in it
 - do_not_change: do not change the extra attribute value
 - e. set to -1.0: set the extra attribute value to -1.0, this could be any float value





Sample Outputs

