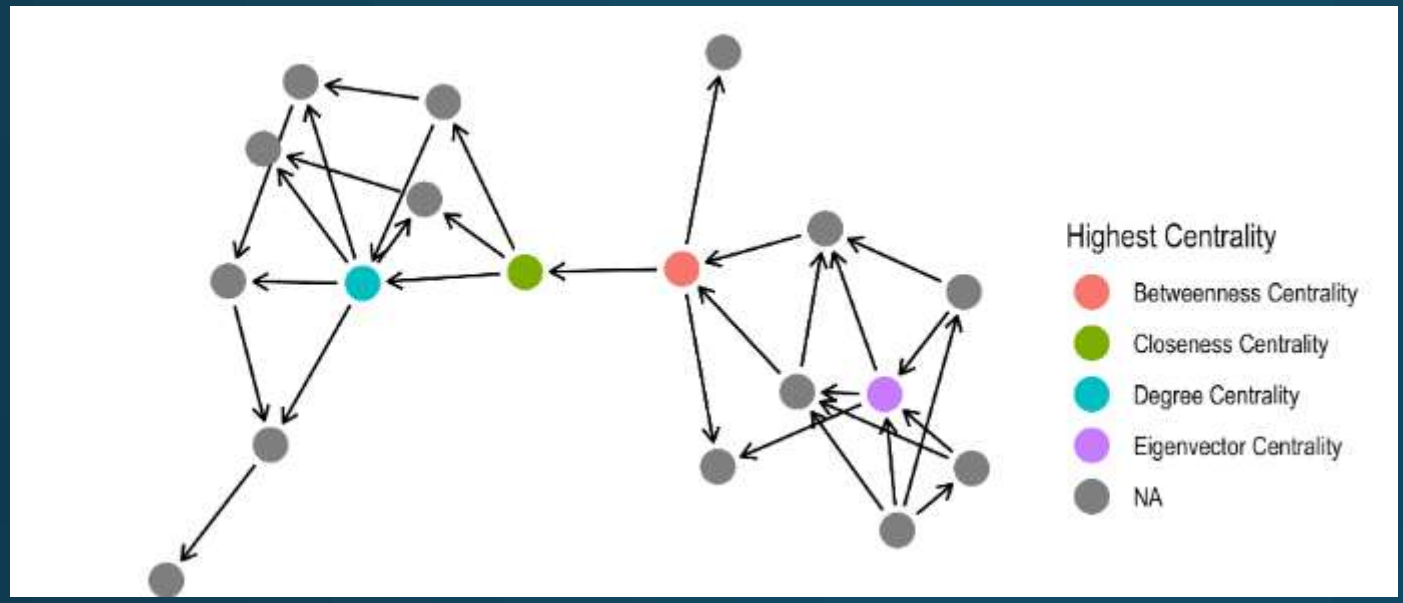

Net work analysis of cadaster parcels

KKL - 2023

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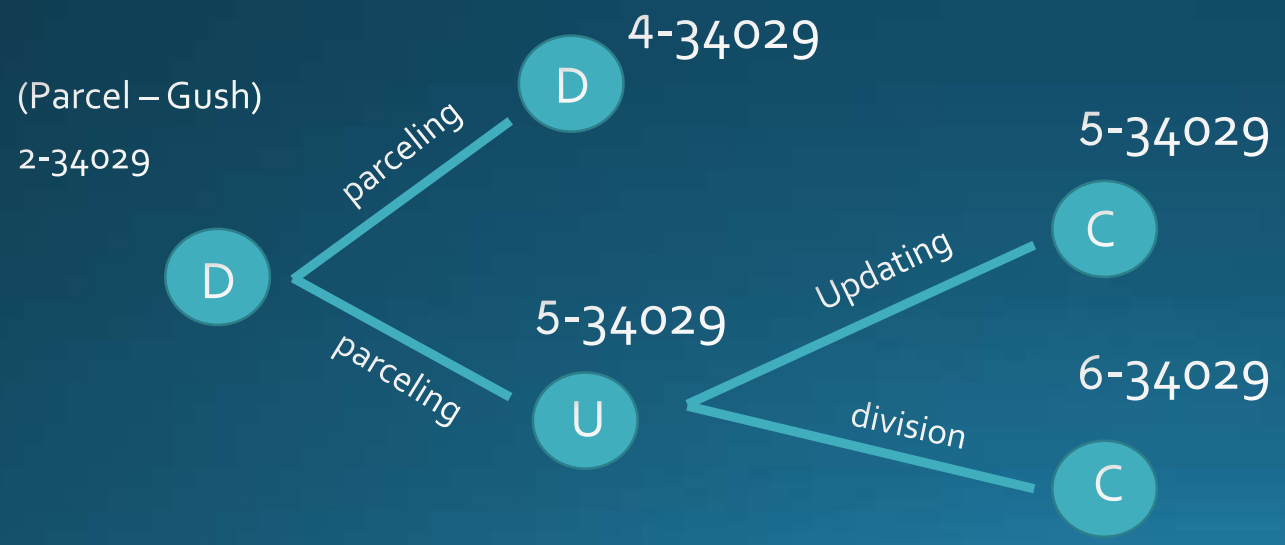
Introduction

- To get better understanding of cadaster data, we can approach it as a network, presenting parcels as nodes and the connection between them (D,C,U) as edges.



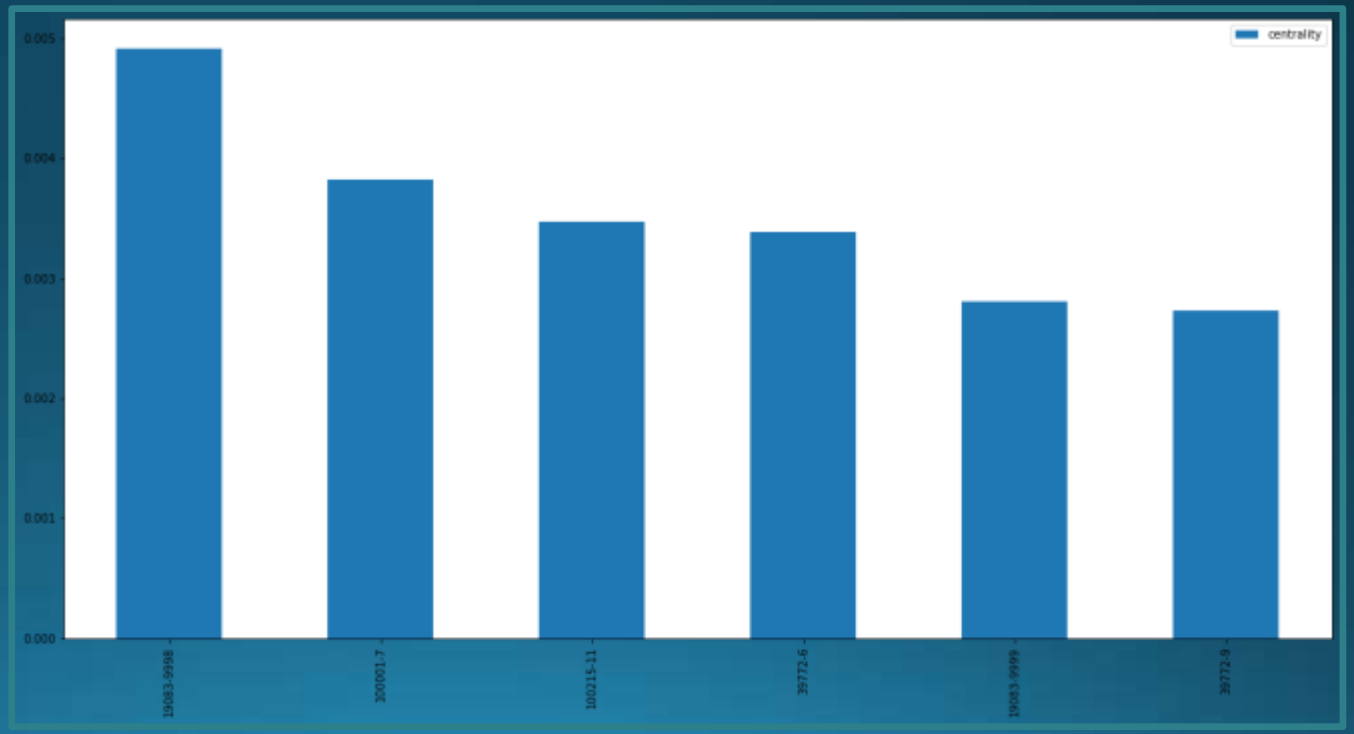
Network analysis tools

1) Understand data and connectivity
2) Trace parcel history and activity
3) Network visualization

Technology python 3.7.11

Understand data and connectivity

1) Number of nodes:461042
2) Number of edges: 826800
3) Average degree: 3.5867



Trace parcel history

INPUT:
parcel

Network

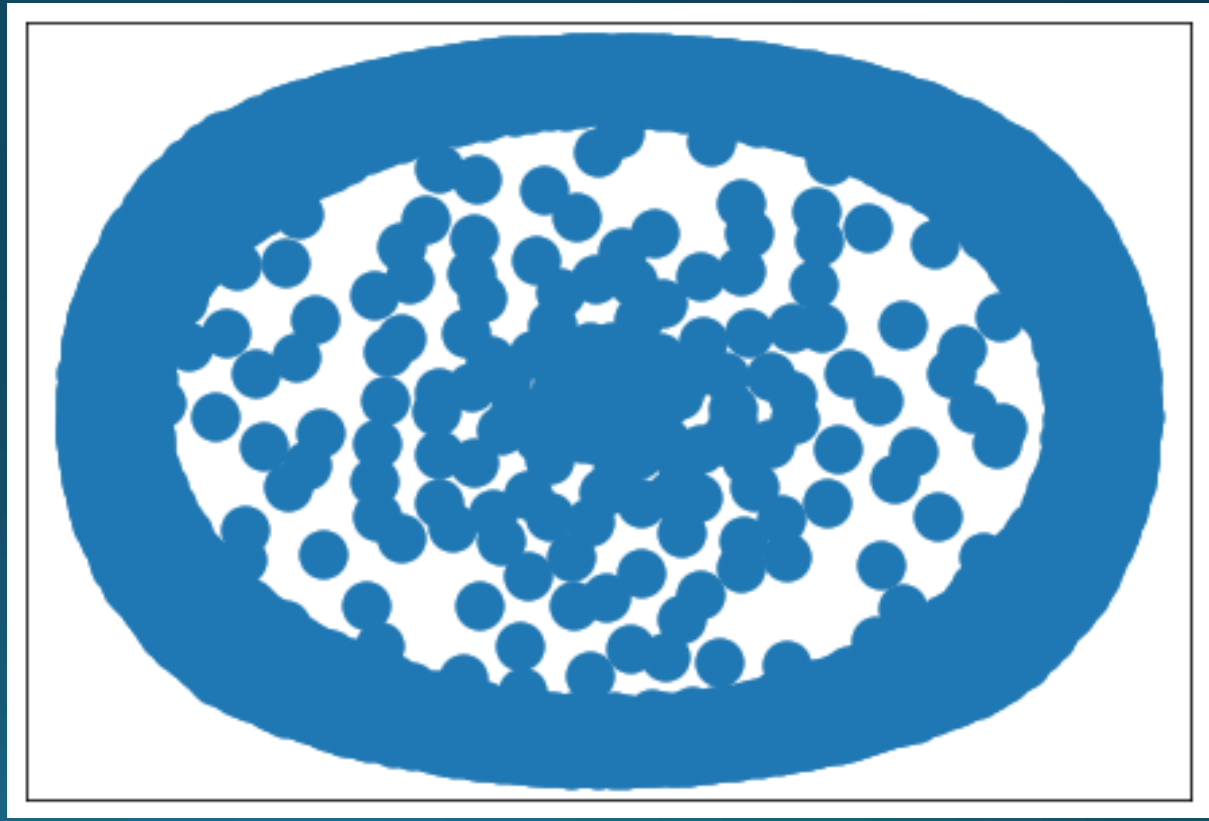
Out put:
Parcels history

1-34029	D
2-34029	D
4-34023	D
5-34023	U
5-34023	C

Visualization

This is how the parcels look like,

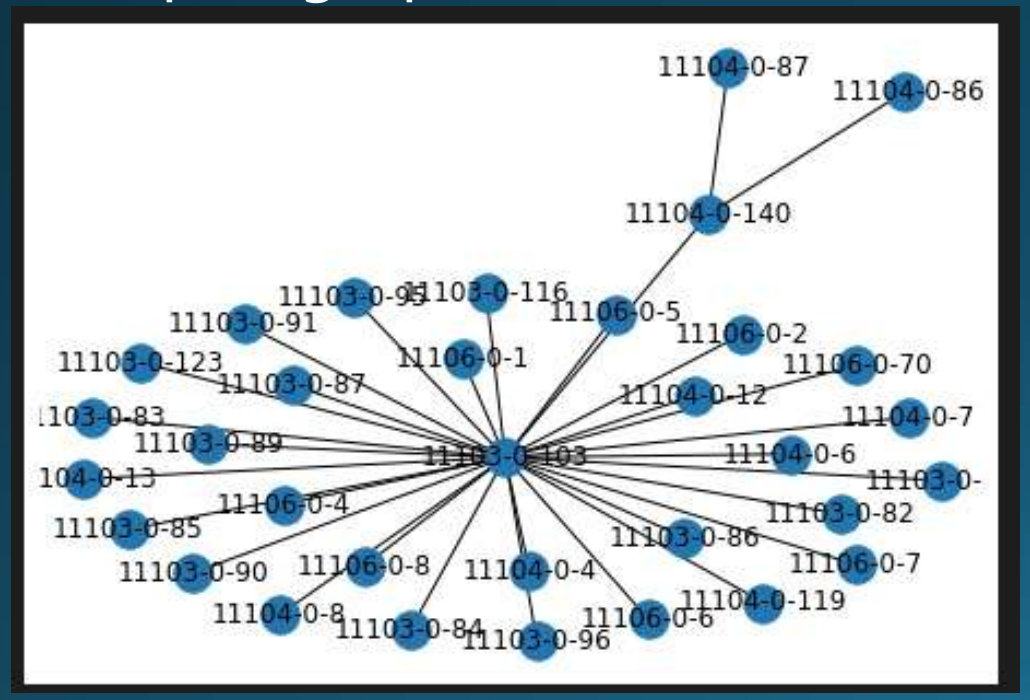
A centralized parcel (node) meaning more changes have been made on the parcel.



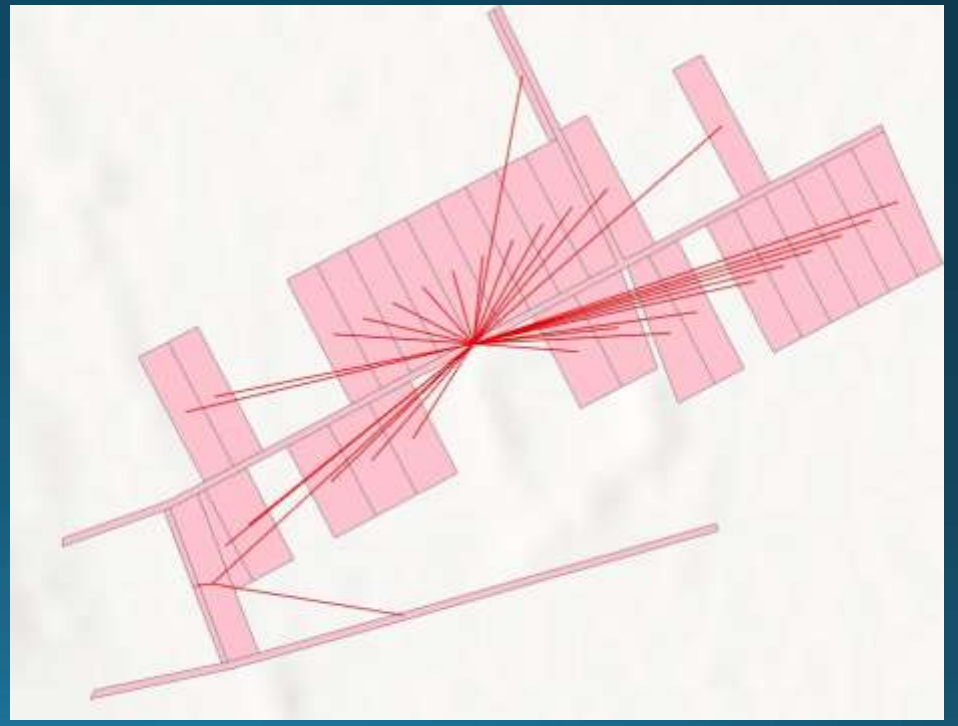
Result – find parcel history

1) Input: parcel-gush
2) All parcels (deleted and current)

Out put: graph



Out put: geometry



FINISH