

Ryan Mackenzie

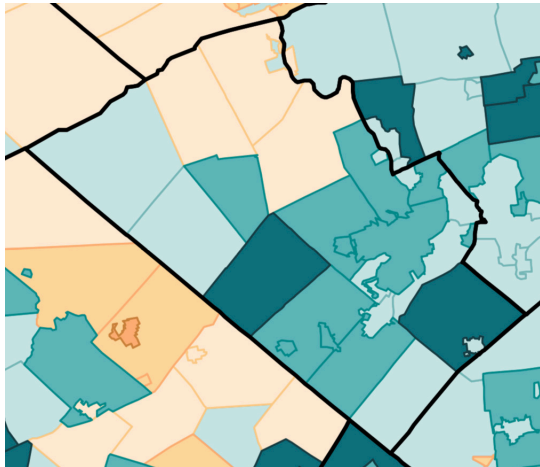
Presentation to the
Pennsylvania Legislative Reapportionment Commission

2021 Preliminary State House Map
Lehigh County Districts

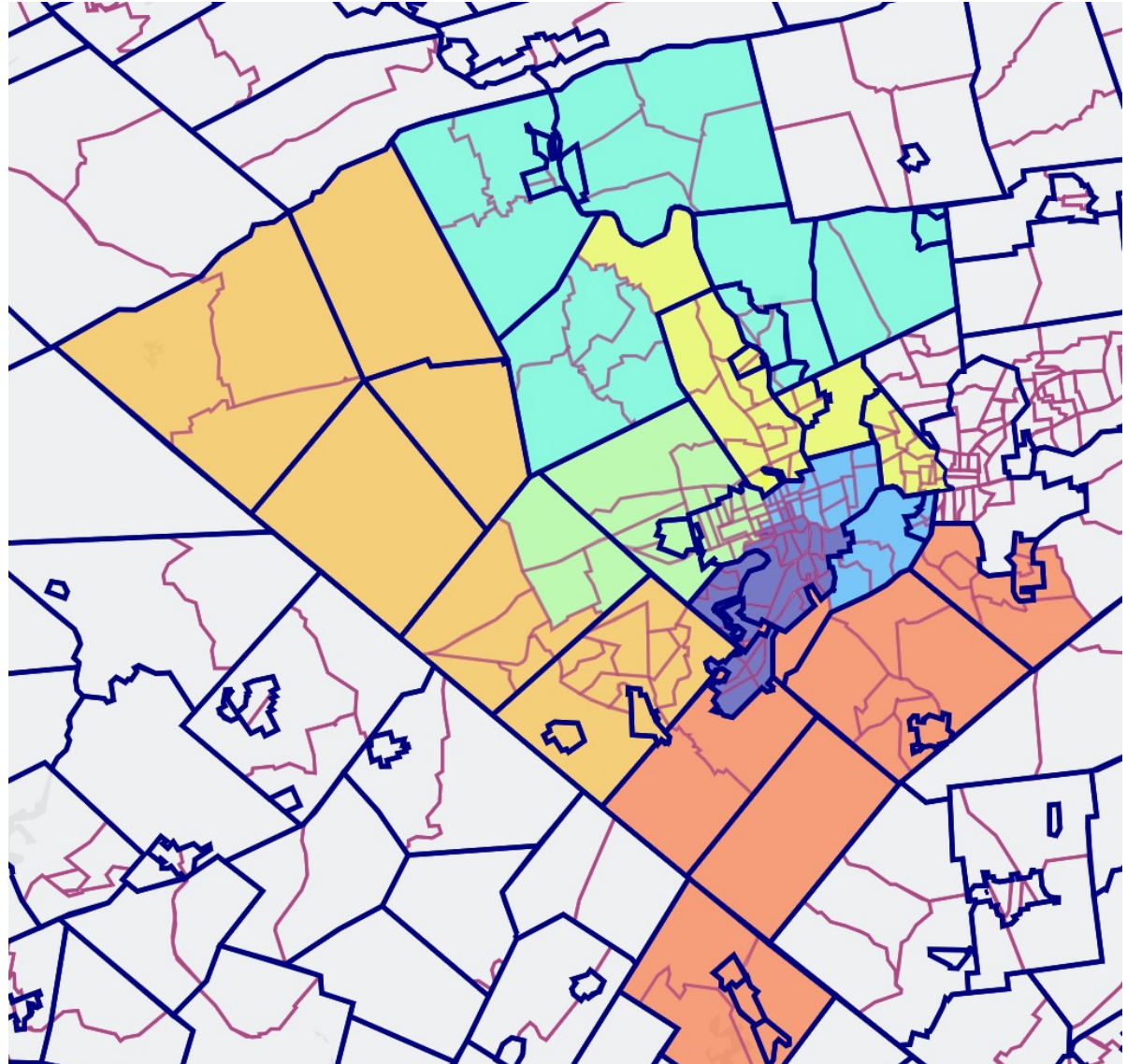
January 15, 2022

Lehigh County

- Lehigh County was one of the fastest growing counties between 2010 and 2020



Source: PennState Harrisburg, PA State Data Center

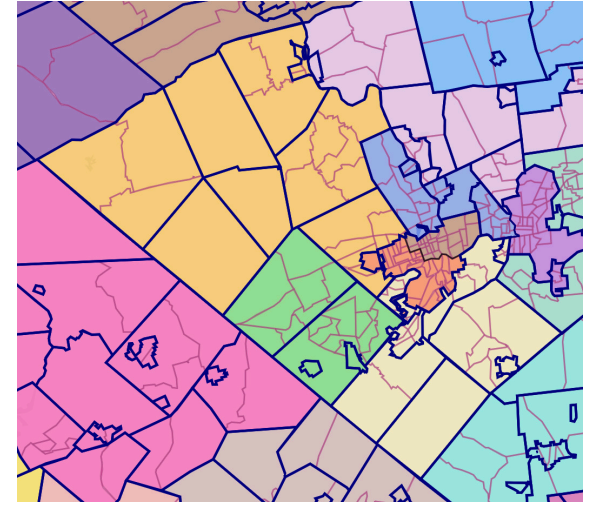


Lehigh County State House Districts

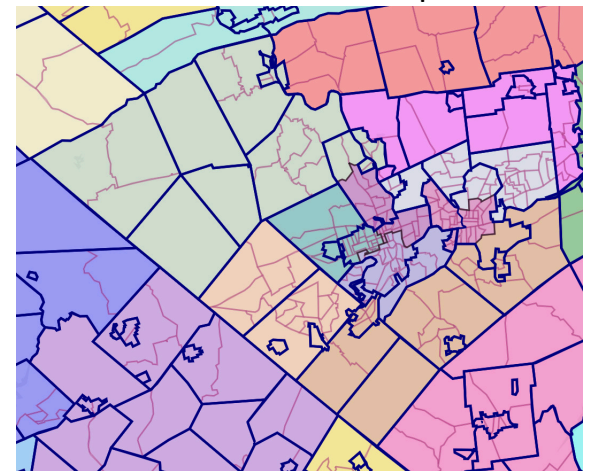
There have been many proposed maps that recognize distinct areas of Lehigh County:

- City of Allentown
- Northern Lehigh County
- Southern Lehigh County – often with a portion of Northampton County because of the Upper Saucon (Lehigh County) and Lower Saucon (Northampton County) connection
- Eastern Lehigh County – municipalities surrounding Allentown and along the eastern edge of the county
- Western Lehigh County – usually centered around Upper Macungie and Lower Macungie

Amanda Holt Map



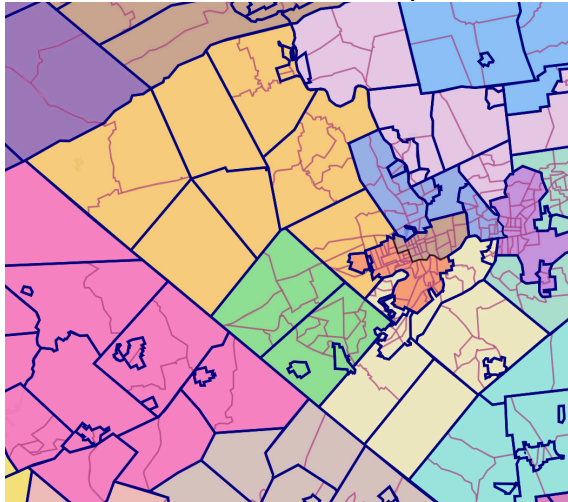
Fair Districts Map



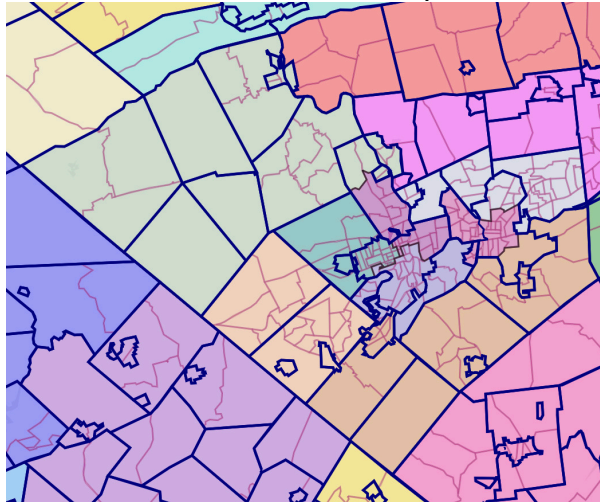
Lehigh County State House Districts

Comparison of Map Proposals – Holt, Fair Districts, and 2021 Preliminary Map

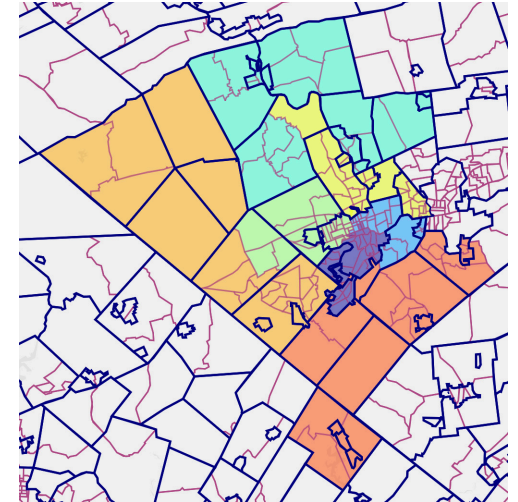
Amanda Holt Map



Fair Districts Map



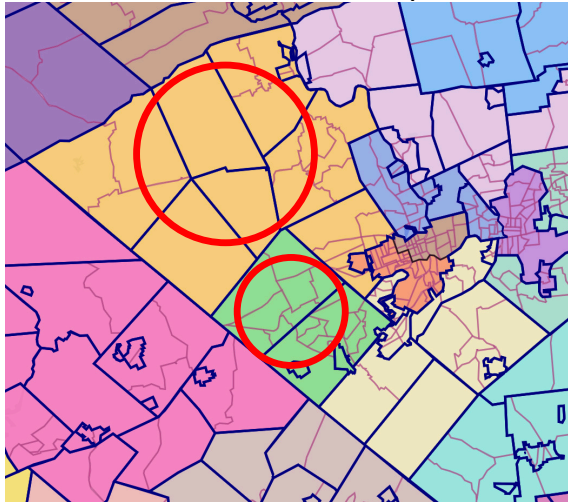
2021 Preliminary Map



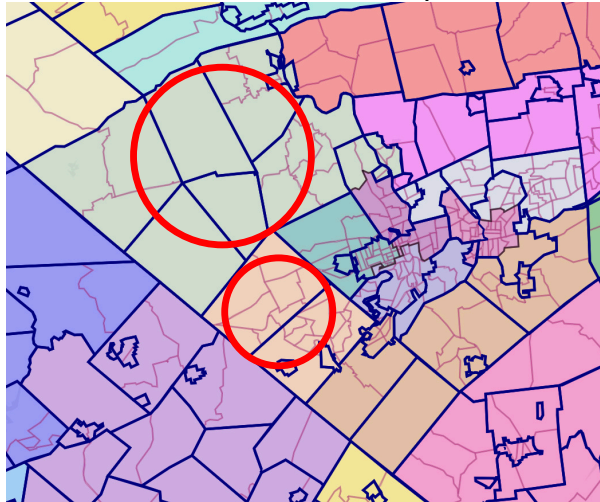
Lehigh County State House Districts

Comparison of Map Proposals – Common Themes (not in Preliminary Map)

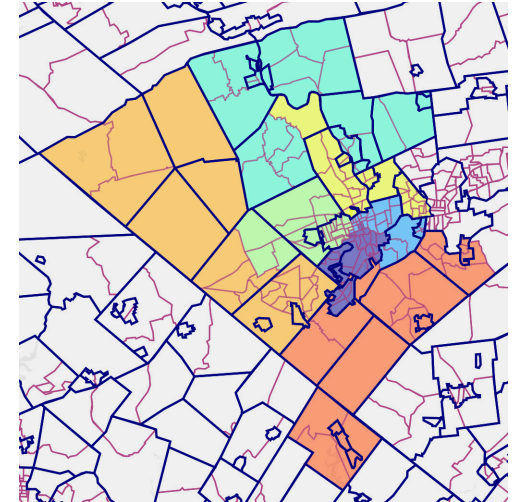
Amanda Holt Map



Fair Districts Map



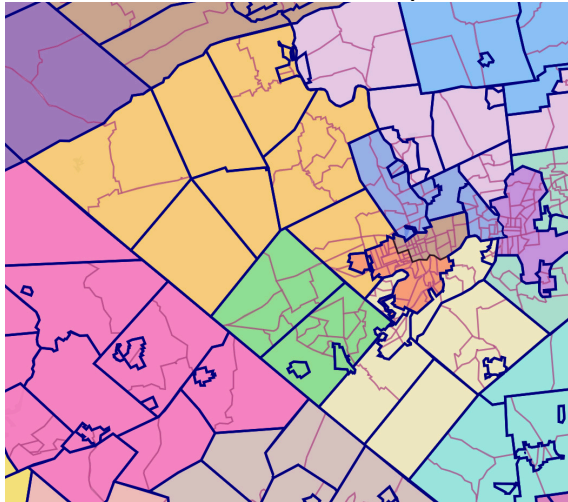
2021 Preliminary Map



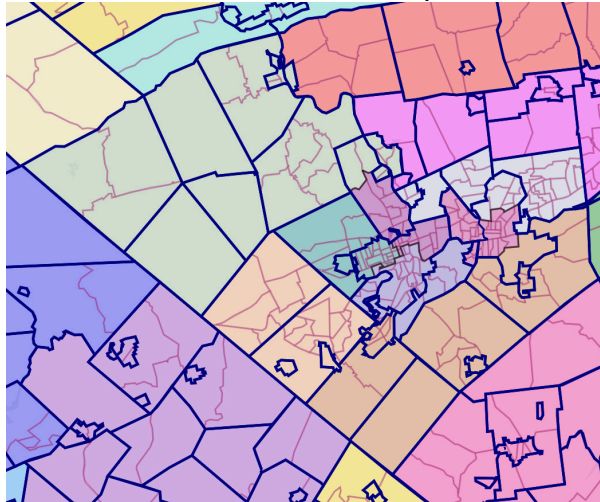
Lehigh County State House Districts

Comparison of Map Proposals – Excessive, Unusual Splits & Merged District in the Preliminary Map

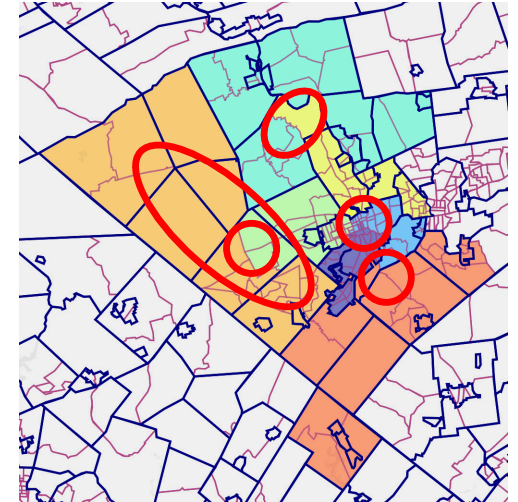
Amanda Holt Map



Fair Districts Map



2021 Preliminary Map



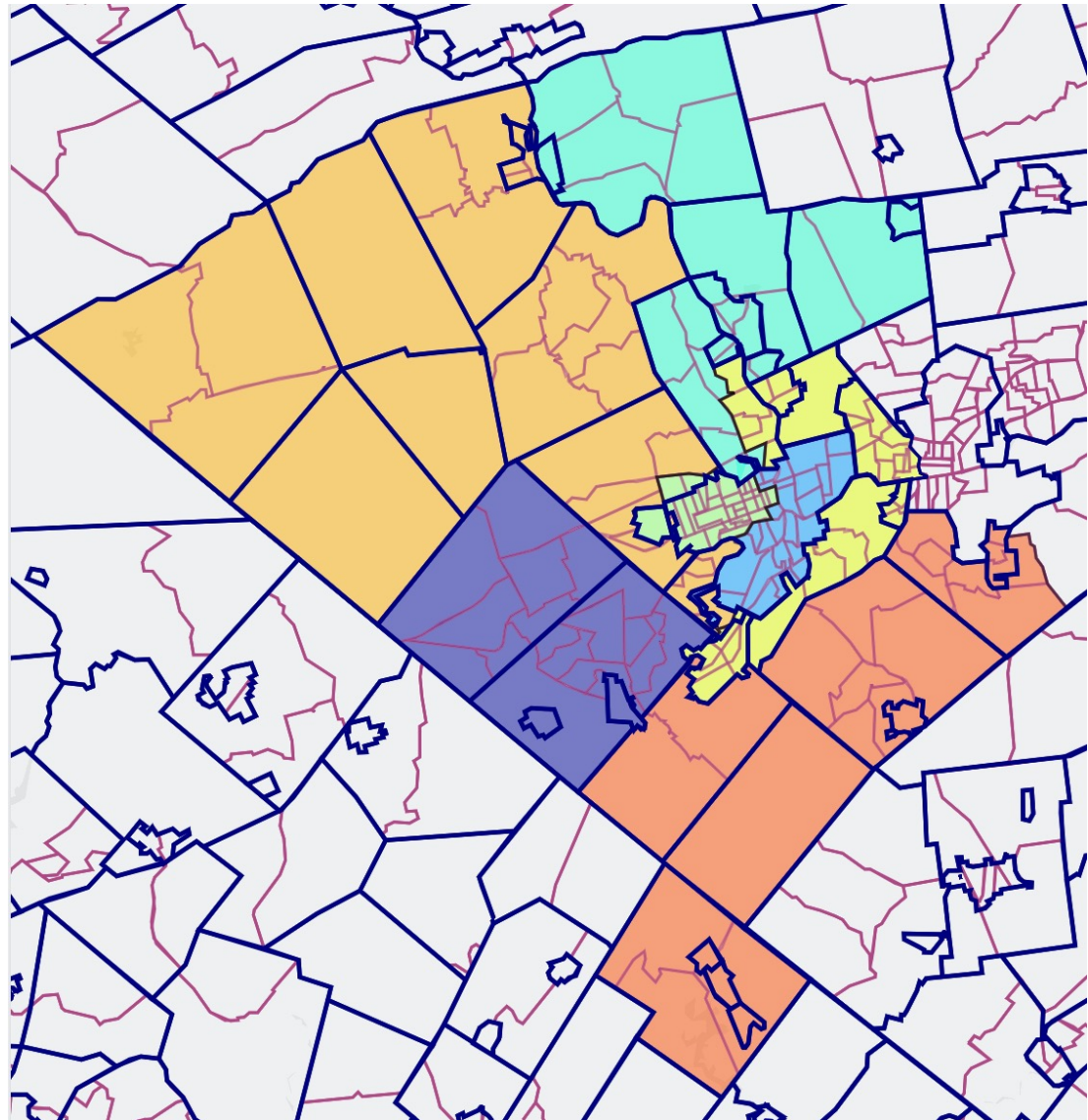
Lehigh County Possible Adjusted Map

Criteria

- Stay within the framework that has been laid out in the 2021 Preliminary Map for Lehigh County districts.
 - By using the same footprint/outline as Lehigh County Districts from the 2021 Preliminary Map, it will not create ripple effects elsewhere on the statewide map.
- Compact; contiguous; and reduce divisions of municipalities, wards, and school districts where possible.
- Do not dilute voters' voices based on race.
- Take into account interests of the Commission, and public comments received to date.

Result

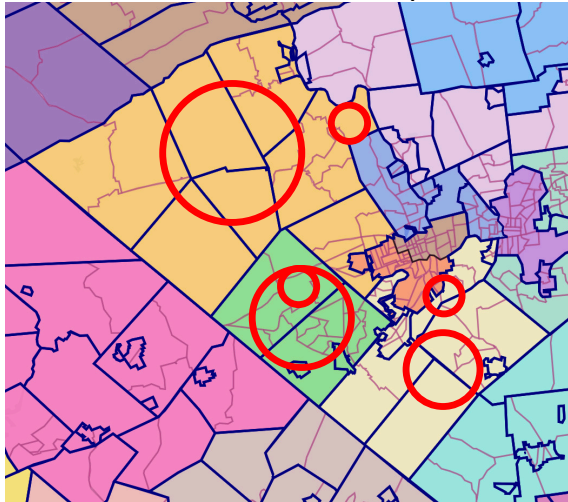
- Improvements from 2021 Preliminary Map include: less splits, reduced deviation, eliminated dilution of Minority Representation in Allentown, and eliminated the merging of districts in the growing suburbs.
- Maintained compactness and political breakdown from 2021 Preliminary Map.



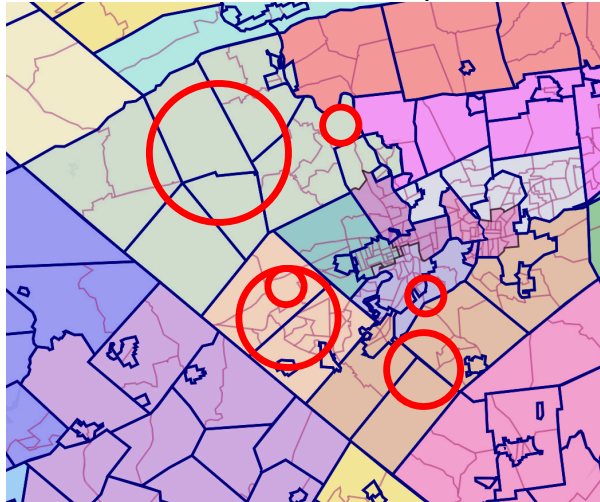
Lehigh County State House Districts

Comparison of Map Proposals – Similarities Between All Three Maps: Maintaining regional districts and eliminating unusual splits

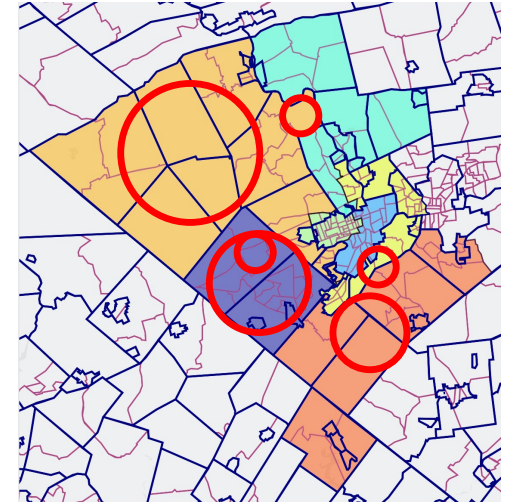
Amanda Holt Map



Fair Districts Map



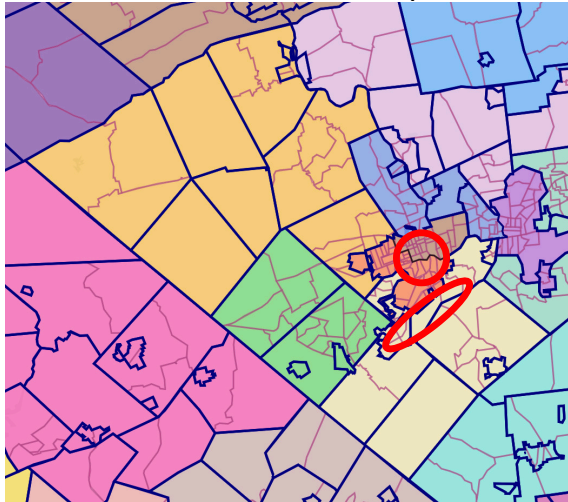
Possible Adjusted Map



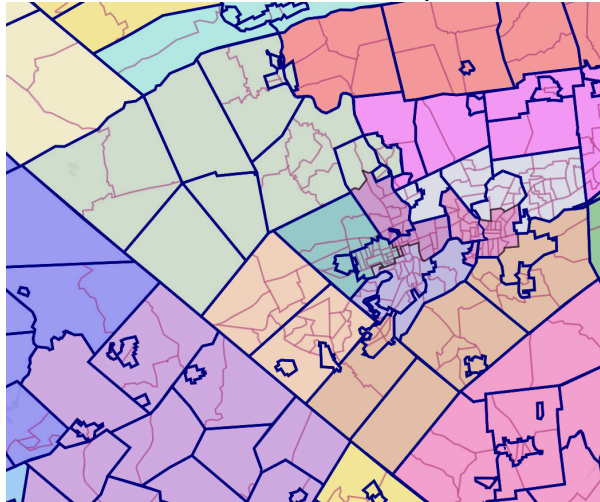
Lehigh County State House Districts

Comparison of Map Proposals – Holt and Possible Adjusted Map: Split Allentown in half, not into three districts

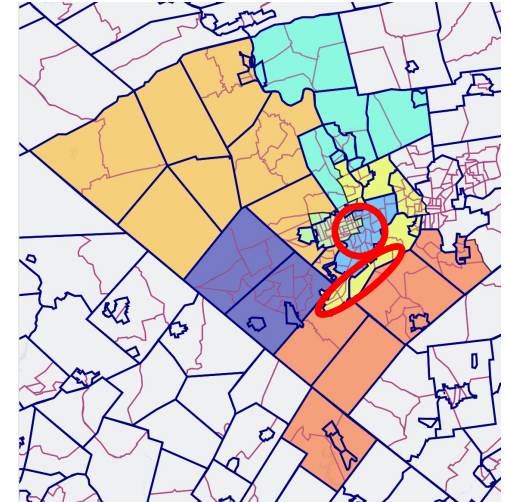
Amanda Holt Map



Fair Districts Map



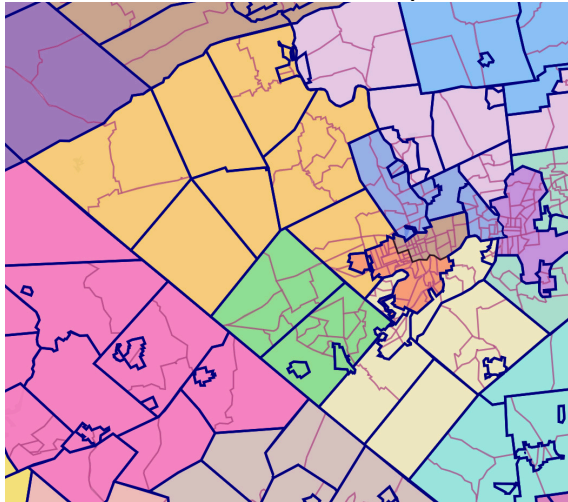
Possible Adjusted Map



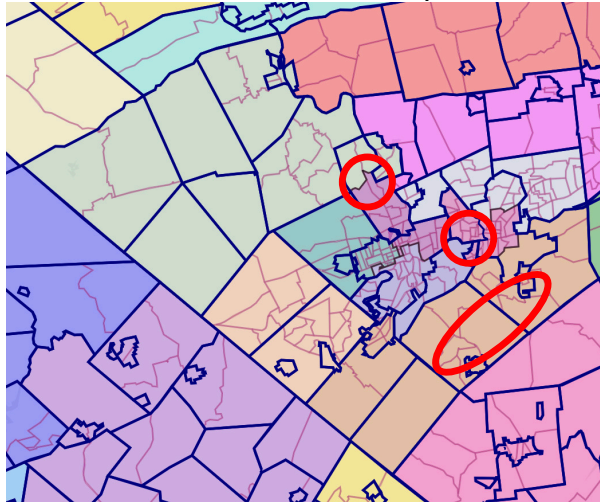
Lehigh County State House Districts

Comparison of Map Proposals – Fair Districts and Possible Adjusted Map: Similar splits/joining of communities

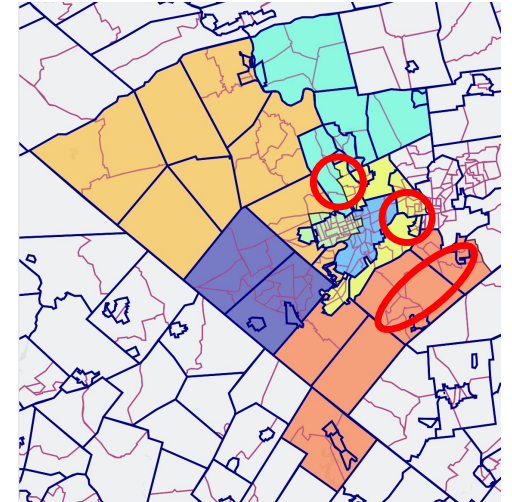
Amanda Holt Map



Fair Districts Map



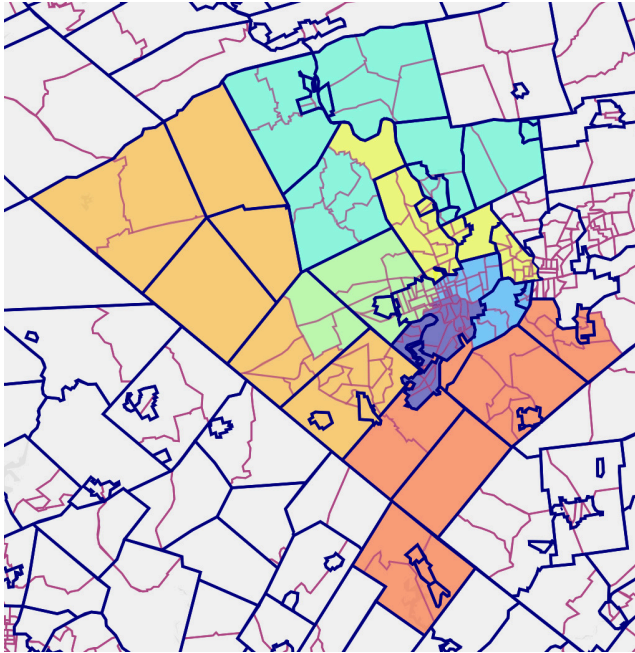
Possible Adjusted Map



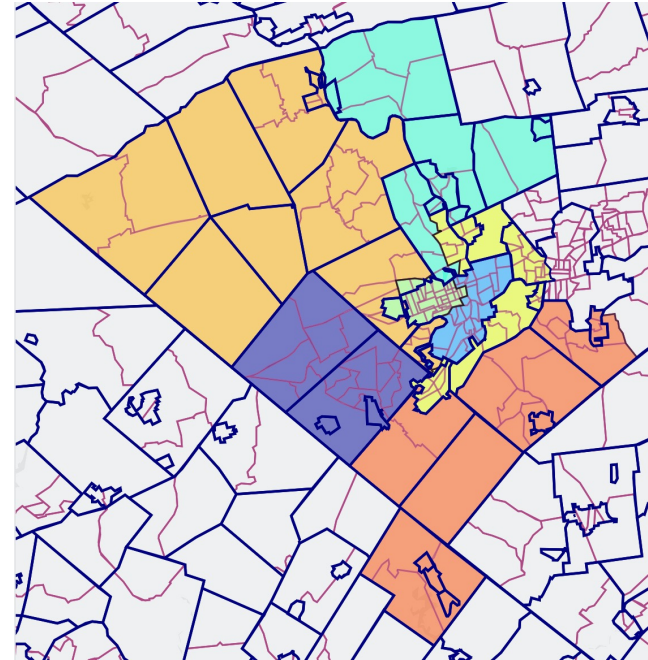
Lehigh County State House Districts

Comparison of 2021 Preliminary Map & Possible Adjusted Map

2021 Preliminary Map



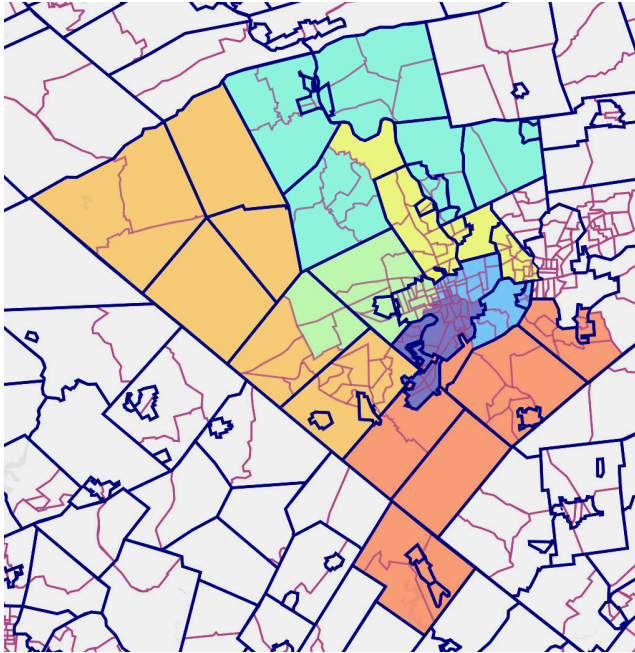
Possible Adjusted Map



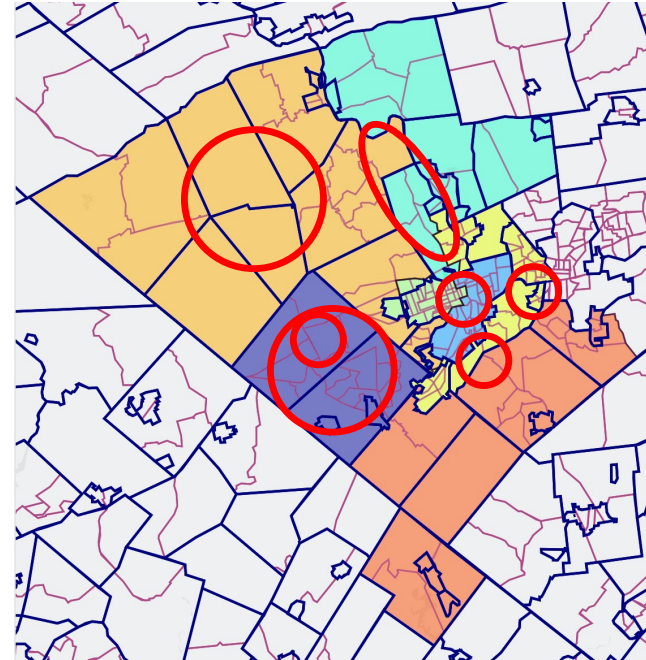
Lehigh County State House Districts

Comparison of 2021 Preliminary Map & Possible Adjusted Map

2021 Preliminary Map



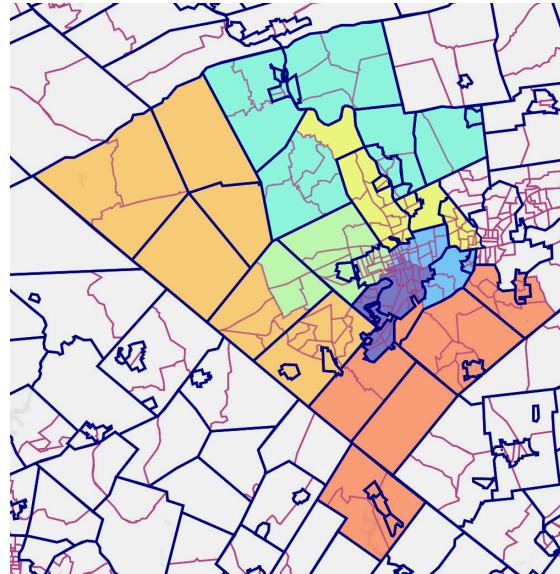
Possible Adjusted Map



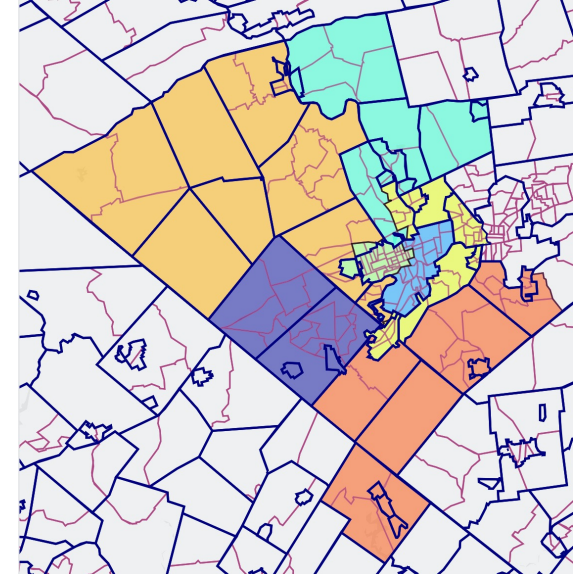
2021 Preliminary Map & Possible Adjusted Map Side-by-Side Comparison – Splits

Metric	2021 Preliminary Map (Lehigh Only)	Possible Adjusted Map
Municipal - Discretionary Splits	4	3
Municipal - Discretionary Total Splits	5	3
Ward Splits	4	0
School Districts - Total Splits	9	7

2021 Preliminary Map



Possible Adjusted Map



Note: 2021 Preliminary Map has more unnecessary splits than Possible Adjusted Map, and splits are in highly unusual places.

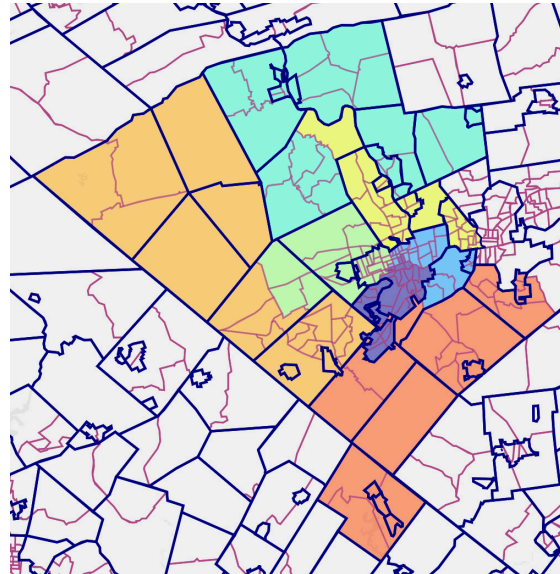
2021 Preliminary Map & Possible Adjusted Map

Side-by-Side Comparison – Deviation, Compactness, and Contiguity

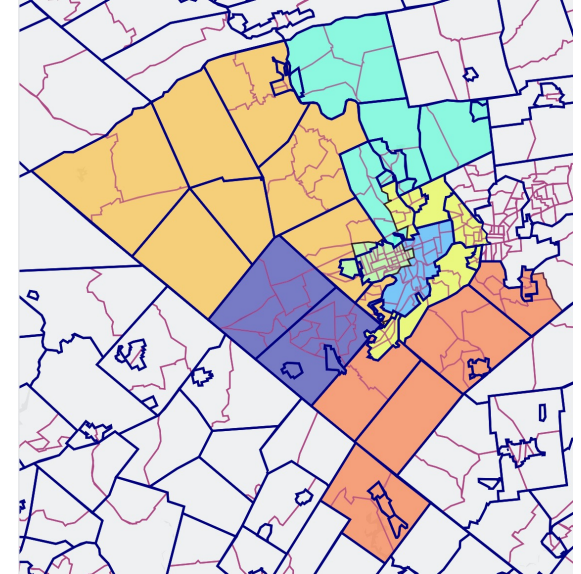
Metric	2021 Preliminary Map (Lehigh Only)	Possible Adjusted Map
DEVIATION	5.80%	5.51%
COMPACTNESS		
Reock	0.3531	0.3567
Polsby-Popper	0.3287	0.3036
NON-CONTIGUOUS ANOMALIES	3	2

(Source: Dave's Redistricting)

2021 Preliminary Map



Possible Adjusted Map



Note: 2021 Preliminary Map compares rather similarly to Possible Adjusted Map on deviation, compactness, & contiguity.

2021 Preliminary Map & Possible Adjusted Map Side-by-Side Comparison – Minority Representation

2021 Preliminary Map

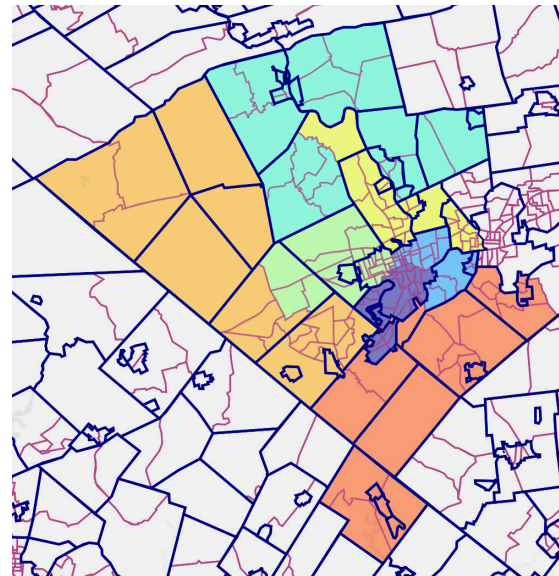
District VAP %	Potential Opportunity Districts (based on map)					
	M	H	B	A	N	P
35% ≤ VAP < 40%	0	1	0	0	0	0
40% ≤ VAP < 45%	0	0	0	0	0	0
45% ≤ VAP < 50%	0	0	0	0	0	0
50% ≤ VAP < 55%	1	1	0	0	0	0
55% ≤ VAP < 60%	0	0	0	0	0	0
60% ≤ VAP < 100%	1	0	0	0	0	0

Possible Adjusted Map

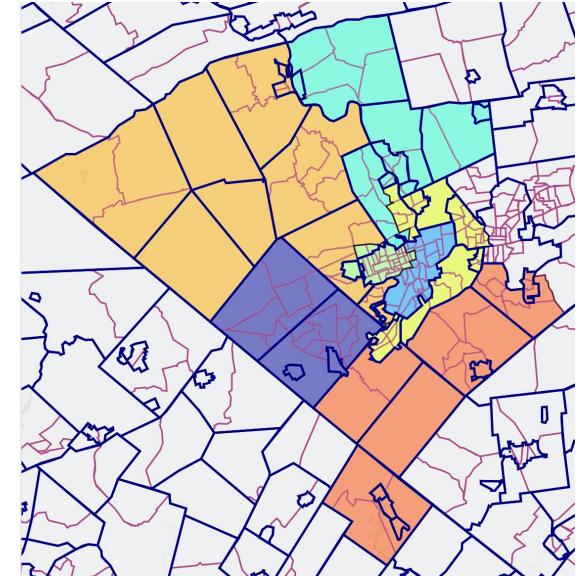
District VAP %	Potential Opportunity Districts (based on map)					
	M	H	B	A	N	P
35% ≤ VAP < 40%	0	0	0	0	0	0
40% ≤ VAP < 45%	0	1	0	0	0	0
45% ≤ VAP < 50%	0	0	0	0	0	0
50% ≤ VAP < 55%	0	1	0	0	0	0
55% ≤ VAP < 60%	0	0	0	0	0	0
60% ≤ VAP < 100%	2	0	0	0	0	0

(Source: Dave's Redistricting)

2021 Preliminary Map



Possible Adjusted Map



Note: 2021 Preliminary Map dilutes Minority Representation in two districts compared to Possible Adjusted Map.

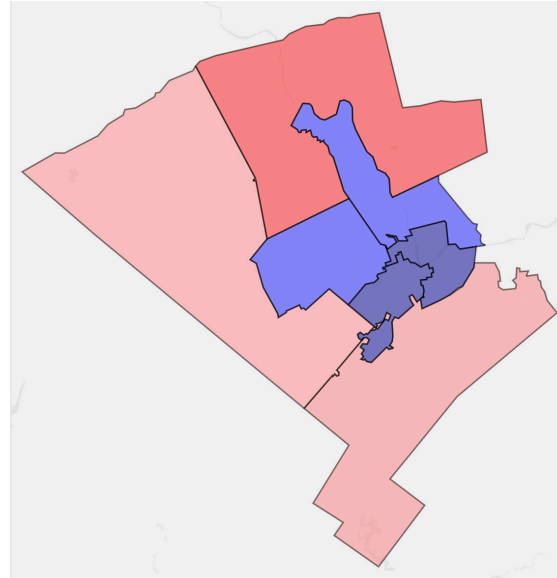
2021 Preliminary Map & Possible Adjusted Map Side-by-Side Comparison – Political Representation

Metric	2021 Preliminary Map (Lehigh Only)	Possible Adjusted Map
POLITICAL BREAKDOWN	4 D - 3 R	4 D - 3 R
MERGED MEMBERS	2 Rs*	0
FLIPPED DISTRICTS	1 R -> 1 D (Open)	1 R -> 1 D*
COMPETEIVE RACES (GENERAL ELECTION)	2	3*
OPEN SEATS	1	0

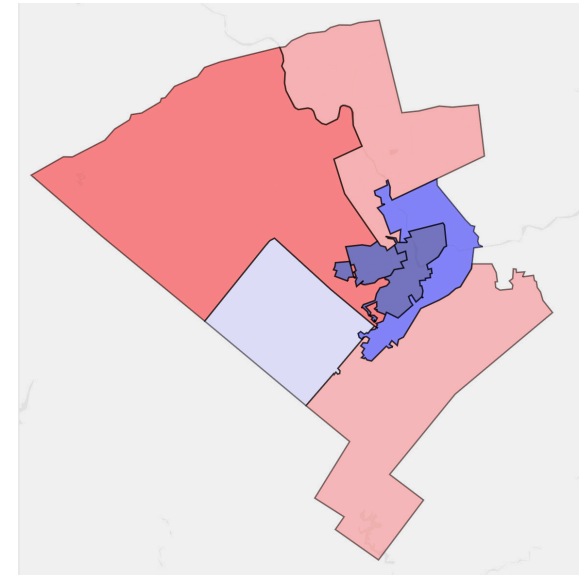
*Denotes my involvement in those instances.

(Source: Dave's Redistricting)

2021 Preliminary Map



Possible Adjusted Map

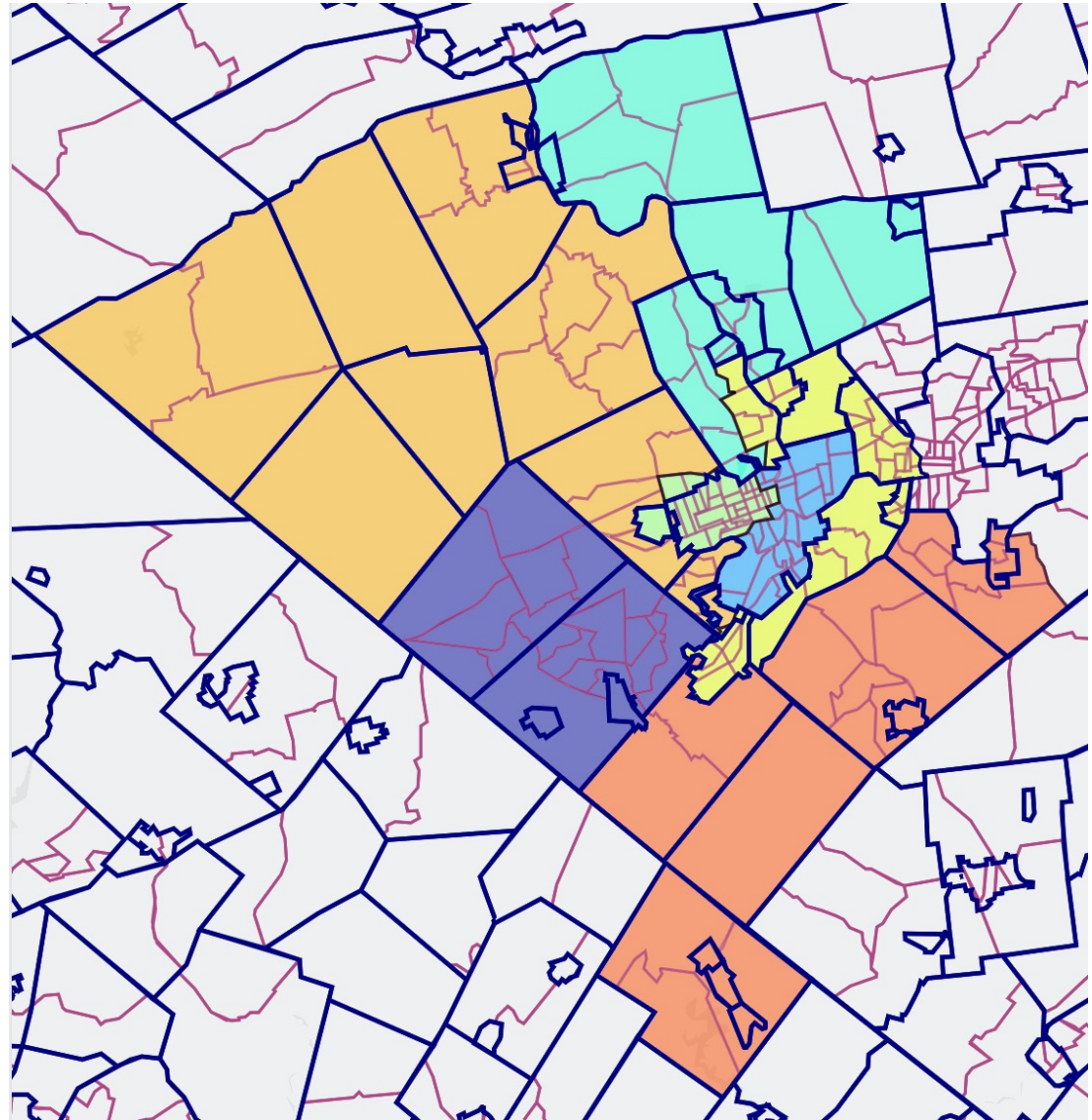


Note: 2021 Preliminary Map merges two Republican Districts and creates an Open Seat in a Democratic District. But, the Open Seat has less Minority (and Hispanic) Representation than a Democratic District that would be maintained in the Possible Adjusted Map.

Lehigh County

Possible Adjusted Map

- The 2021 Preliminary Map:
 - Includes unnecessary and highly unusual municipal splits, and
 - employs the gerrymandering technique of "cracking and packing" by
 - cracking Democratic voters in Allentown into three districts, which then requires adding voters from outside the city limits that results in diluted Minority (and Hispanic) Representation in the districts; and
 - packing two Republican Members into a merged district, even though they are in growing population areas.
- A Possible Adjusted Map, using common district features from other mapmakers, can:
 - reduce splits,
 - reduce deviation,
 - eliminate dilution of Minority and Hispanic Representation in Allentown Districts,
 - eliminate merging of districts in the growing suburbs, and
 - maintain compactness and political breakdown from 2021 Preliminary Map.



Thank You
&
Questions

Ryan Mackenzie

