



Growth Lab

Identifying local opportunities: Lea County

January 2025

Key Takeaways on Lea County's Economic Snapshot



The first part of this presentation provides an economic snapshot of the county. The following key takeaways stand out.

- **Economic cluster:** Lea County, located in the southeastern corner of New Mexico and part of the Permian Basin, includes a single regional cluster that encompasses its two largest cities: Hobbs and Lovington. This cluster also extends across the state line into Gaines County, Texas.
 - **Long-term trajectory:** Lea County experienced a remarkable acceleration in population from 1930 to 1960 that made it among the most populated counties in New Mexico and among the largest oil and gas-producing peer counties in the region. However, after that growth period, population growth was the exception until 2000, when it entered a new growth phase, though not at the same pace as before.
 - **Recent economic performance:** Over the past decades, Lea County's economy has seen notable growth. Strong growth started in early 2003 and, despite brief declines, continues today. Lea County's income growth is the highest in New Mexico, though other peer counties outside of New Mexico have also expanded their output at rapid rates.
 - **Underlying economic engines:** The significant expansion driven by the oil and gas boom has overshadowed other sectors. However, there are additional sectors that consistently have grown at above average rates, such as transportation and warehousing. Manufacturing and construction are now declining following periods of stronger growth. In contrast, agriculture has recently recovered after a steep decline.
 - **Housing dynamics:** Lea County is one of the few exceptions in New Mexico where the housing stock in the last decade has increased more than prices. Housing stock has grown at around 12% while housing prices have have grown by 10%. Some other counties have increased their housing stock by more, but Lea County may have the most balanced housing market expansion in the state..
 - **Conclusion:** Despite a significant increase in opportunities, mainly linked to the oil and gas boom, the number of permanent residents has not grown accordingly. Lea County's future economic growth may be limited by its ability to attract and accommodate residents and to leverage capabilities beyond oil and gas. Housing prices do not appear to be the primary constraint thanks to ongoing expansion in the housing stock.
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Observations on Lea County's Diversification Opportunities



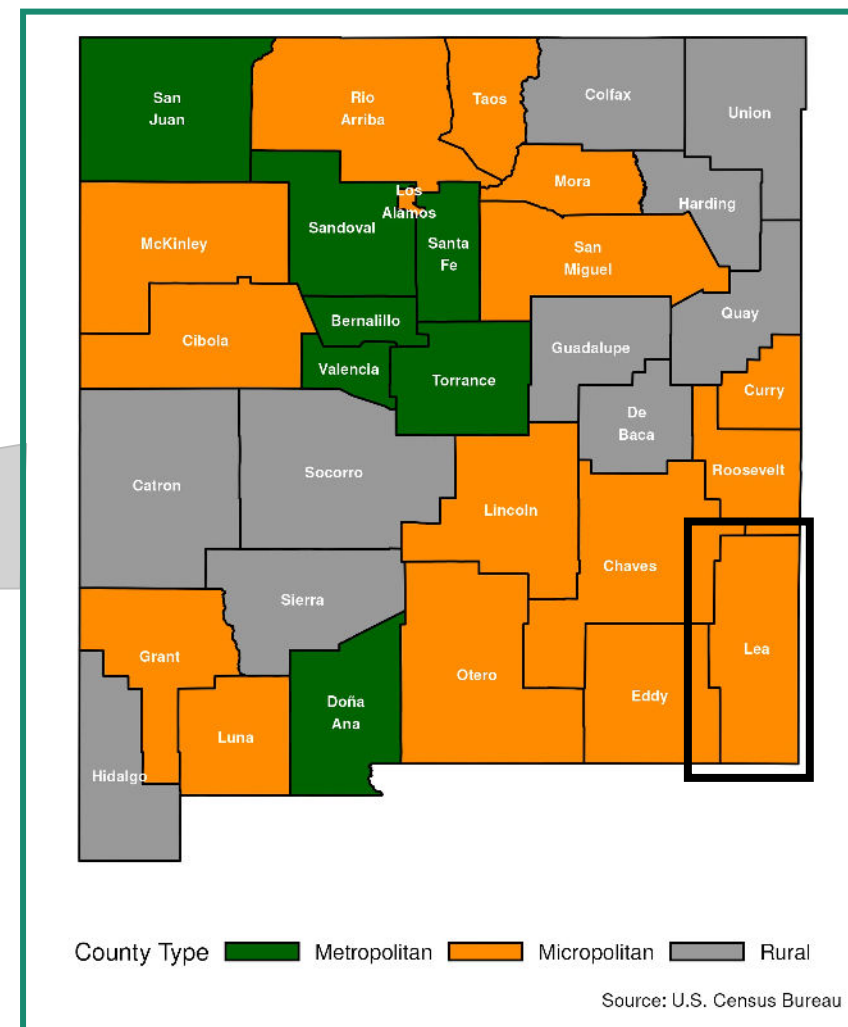
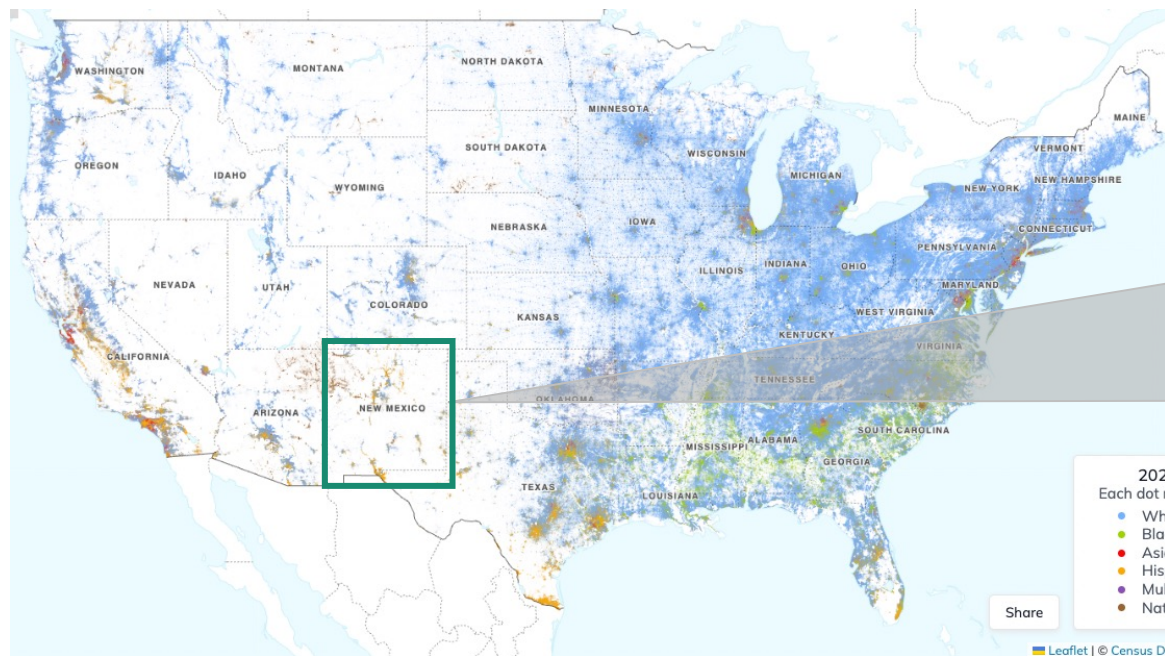
The second part of this presentation provides an analysis of diversification opportunities grounded in an economic complexity approach. This analysis is meant as an input for local strategy rather than a conclusive list. Several observations are noteworthy that may warrant local investigation.

- **The recent decline in the construction sector may be reversible by addressing local conditions that hinder the development of promising emerging industries.** Lea County offers a relatively attractive location for “Industrial Building Construction” because it is closer to the industry's demand than about 18% of other counties in the U.S.
- **Manufacturing is another declining sector that could expand by developing new tradable industries.** Promising industries may include those in the “Fabricated Metal Products” cluster, such as “Saw Blade and Handtool Manufacturing” and “Machine Tool Manufacturing”. Complementing its low electricity, water, and space requirements, Lea County can offer an attractive location near the demand for these industries. Additionally, given site-readiness efforts and the conditions of the industrial parks, the county could accommodate more utility- and space-demanding industries, such as those in the “Chemicals” cluster.
- **Trade is one of the largest sectors of the economy, although it has recently stagnated following initial growth, overshadowed by other sectors.** Over the years, trade has made up about 10% of Lea County's economy. Within this stagnant sector, the tradable industry “Other Building Material Dealers” has been creating jobs in the Commuting Zone (CZ). This momentum could potentially spread to other retail industries with similar productive capabilities, such as “Floor Covering Retailers” or “Electronics and Appliance Retailers”.

County economic snapshot

Unpacking population and economic patterns

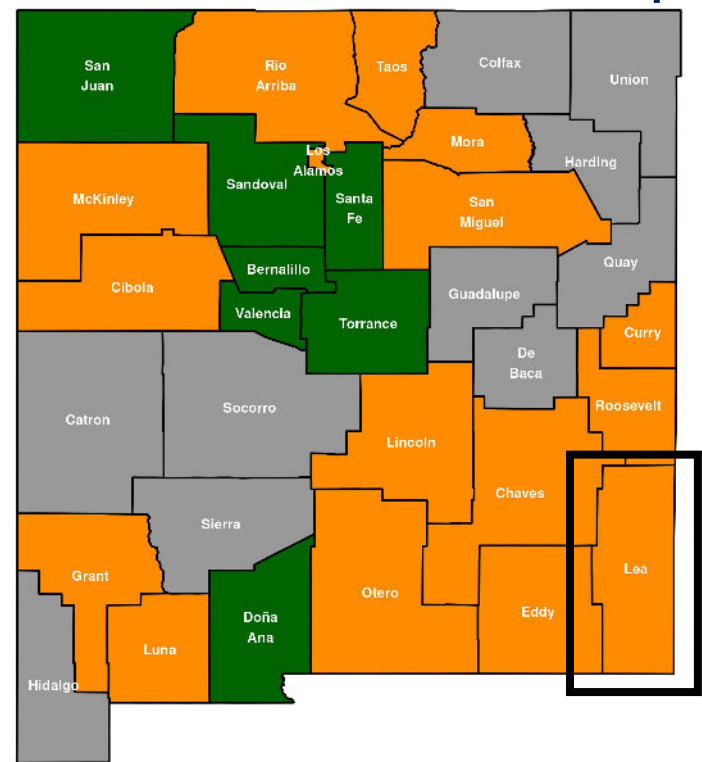
Lea county location



Note: Full map: <https://www.censusdots.com/race/new-mexico-demographics>

Economic cluster – Firms in Lea county & New Mexico

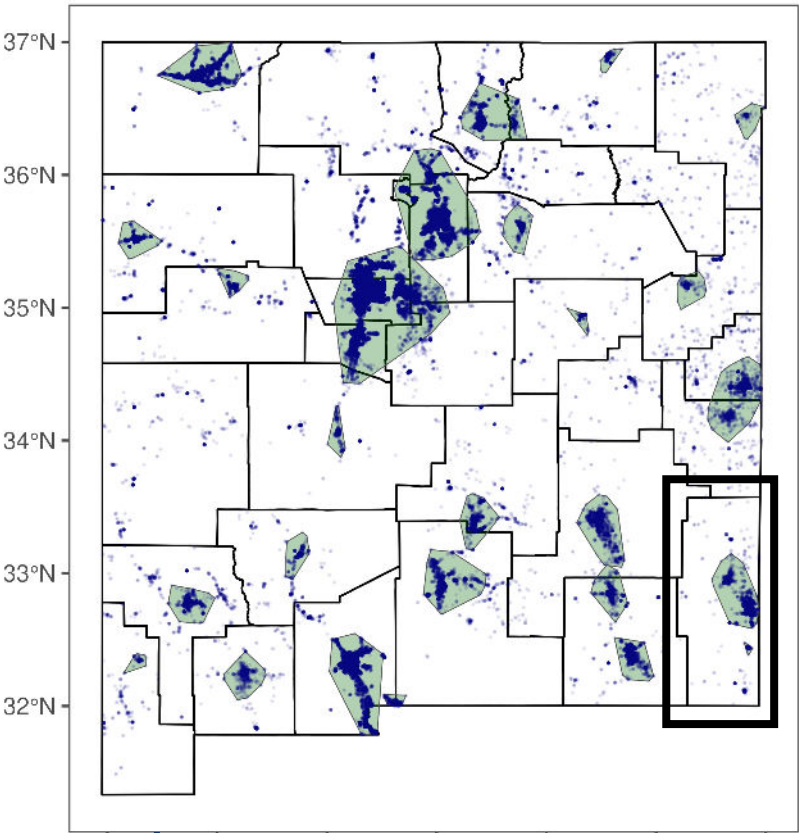
Map of Counties and Statistical Areas in New Mexico



County Type ■ Metropolitan ■ Micropolitan ■ Rural

Source: U.S. Census Bureau

New Mexico Firms' Location



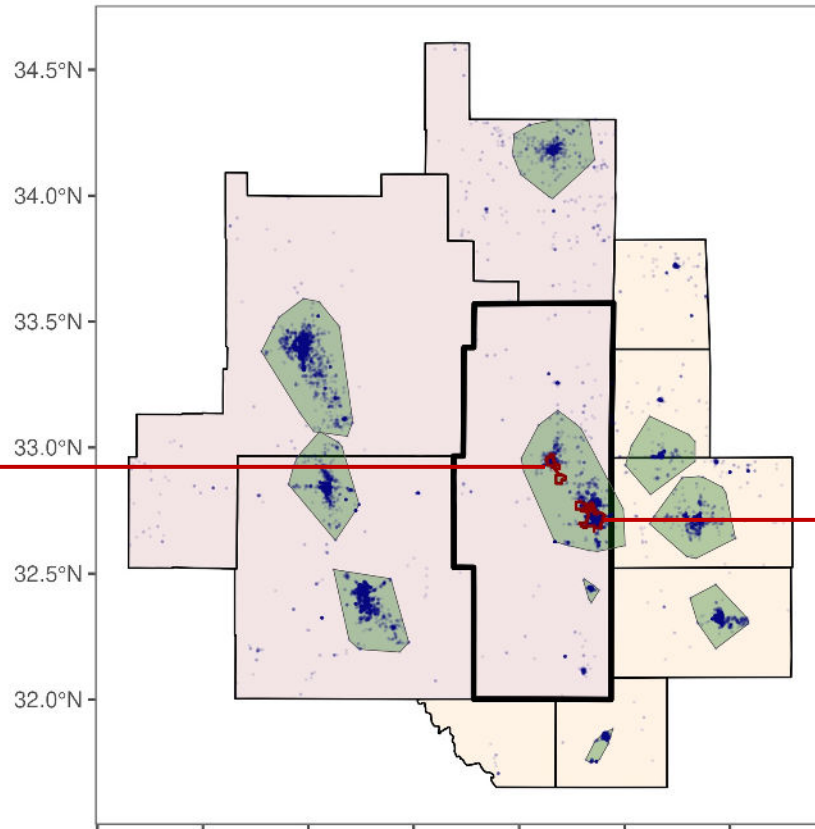
Note 1: Each blue dot represents a firm.
Note 2: The green hulls enclose economic clusters.
Source: Dun and Bradstreet, 2023

The county type definitions are based on the size of local population centers and their connection to larger urban areas. Metropolitan and micropolitan areas differ by the size of their core community, with a threshold of 50,000 residents. In contrast, rural areas do not have a population center with at least 10,000 residents.

The clusters of economic activity (shown by the green outlines) are defined by the proximity of firms (blue dots). These clusters reveal connections between counties, both within the state and across state borders.

Economic cluster – Firms in Lea county and adjacent counties

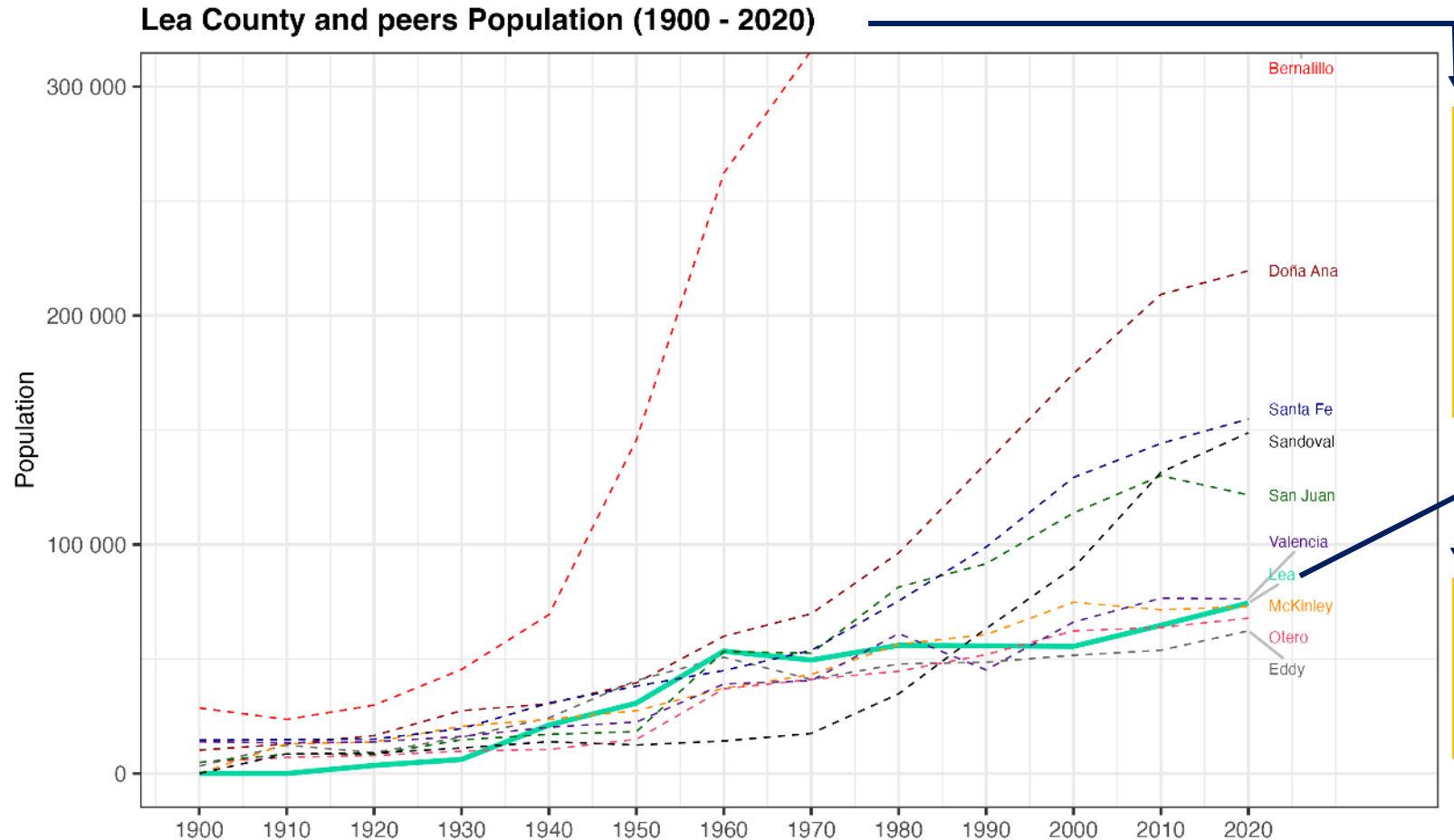
Lea County and Neighbors Firms' Location



Note 1: Each blue dot represents a firm.
Note 2: The green hulls enclose economic clusters.
Note 3: Counties are colored by their state.
Source: Dun and Bradstreet, 2023

Lea's economic cluster cover its largest cities, Hobbs and Lovington, and crosses state lines into Texas (Gaines County) but does not have significant links with other New Mexico counties.

Long-term trajectory – Population growth among New Mexico's counties

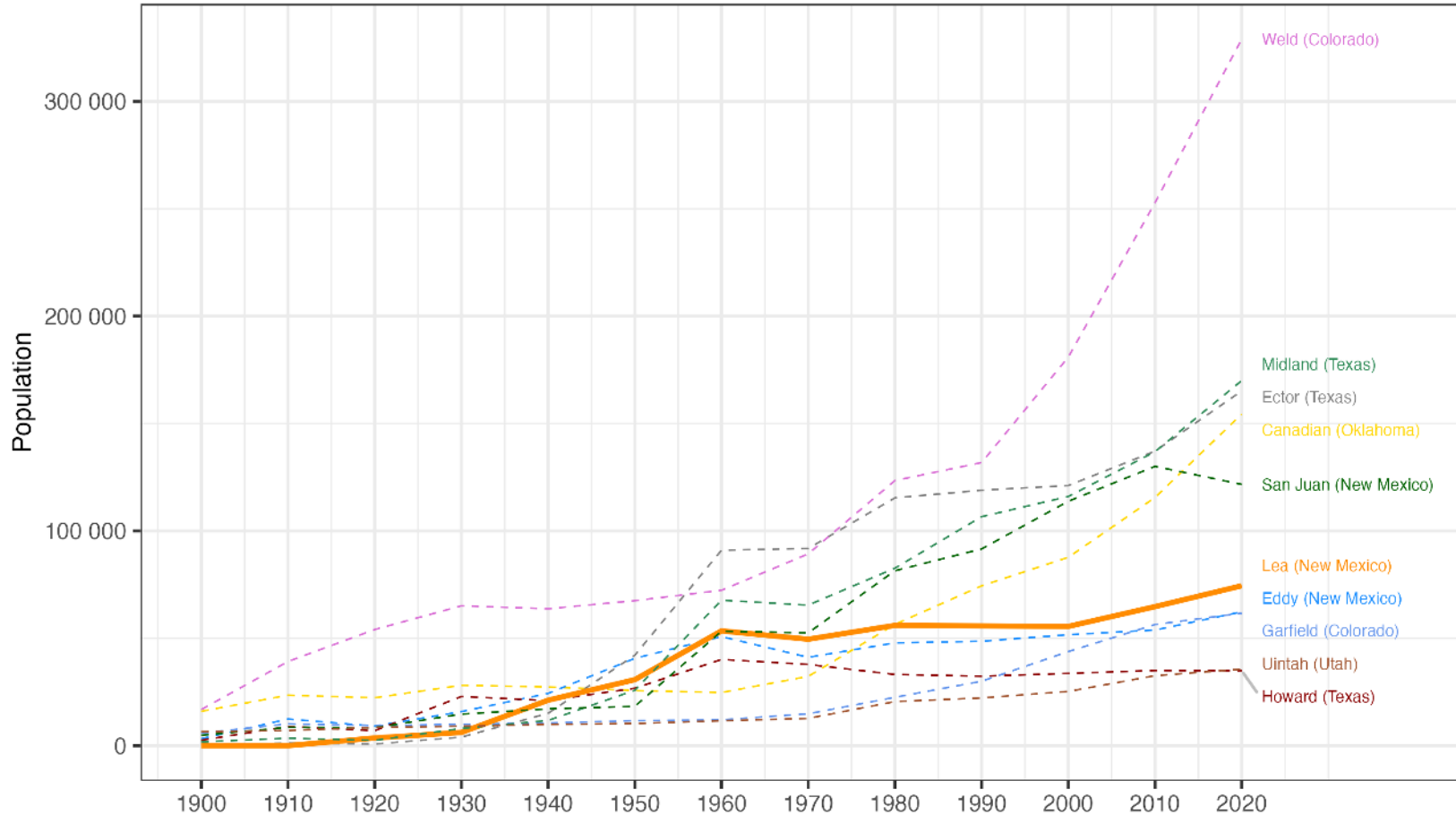


Understanding Lea's economy requires looking at the county's long-term evolution. Demographic and economic trends are closely connected: job opportunities attract people and drive population growth, while job losses can lead to outmigration. At the same time, the size and skills of population influences which new economic activities, as critical mass of knowhow and networks enable economic activity.

Lea's long-term population growth is shown alongside New Mexico's other largest counties. (Bernalillo County, not shown for scale, has a much larger population of around 680,000.)

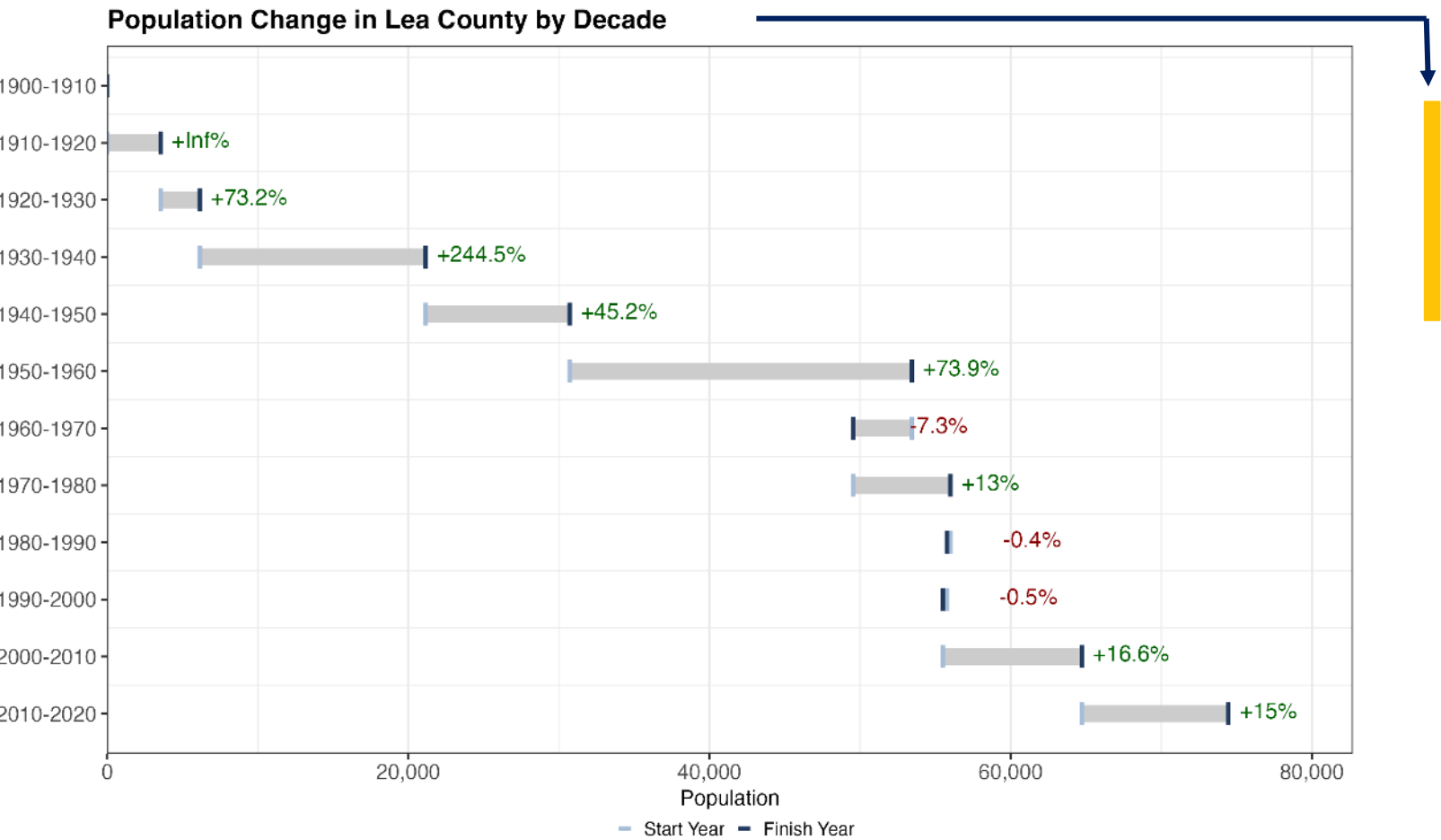
Long-term trajectory – Population growth among peers

Lea County and Peer Counties in Neighboring States Population Evolution



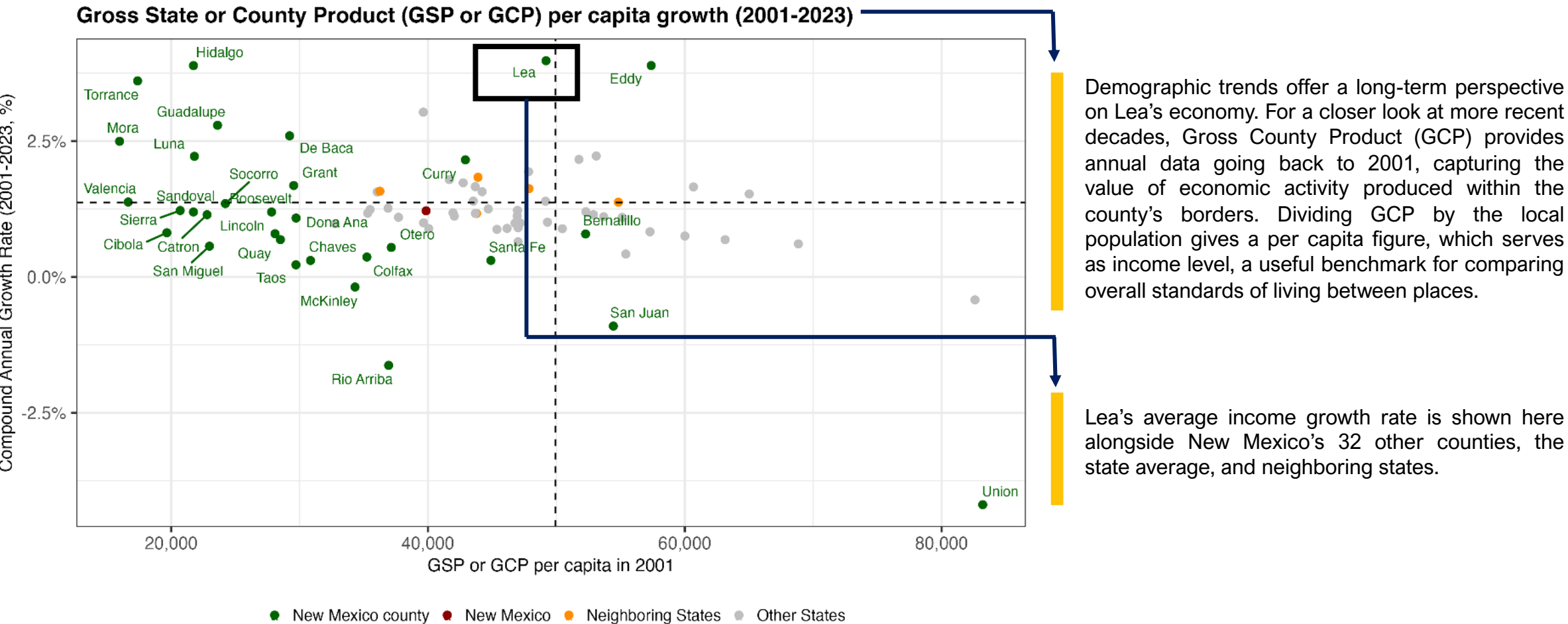
The previous slide compared Eddy's long-term population growth with other large counties in New Mexico. To give further context, the following analysis looks at a set of peer counties across New Mexico and neighboring states (Colorado, Oklahoma, Texas, and Utah). These counties were selected because of their oil and gas activity

Long-term trajectory – Population growth by decade



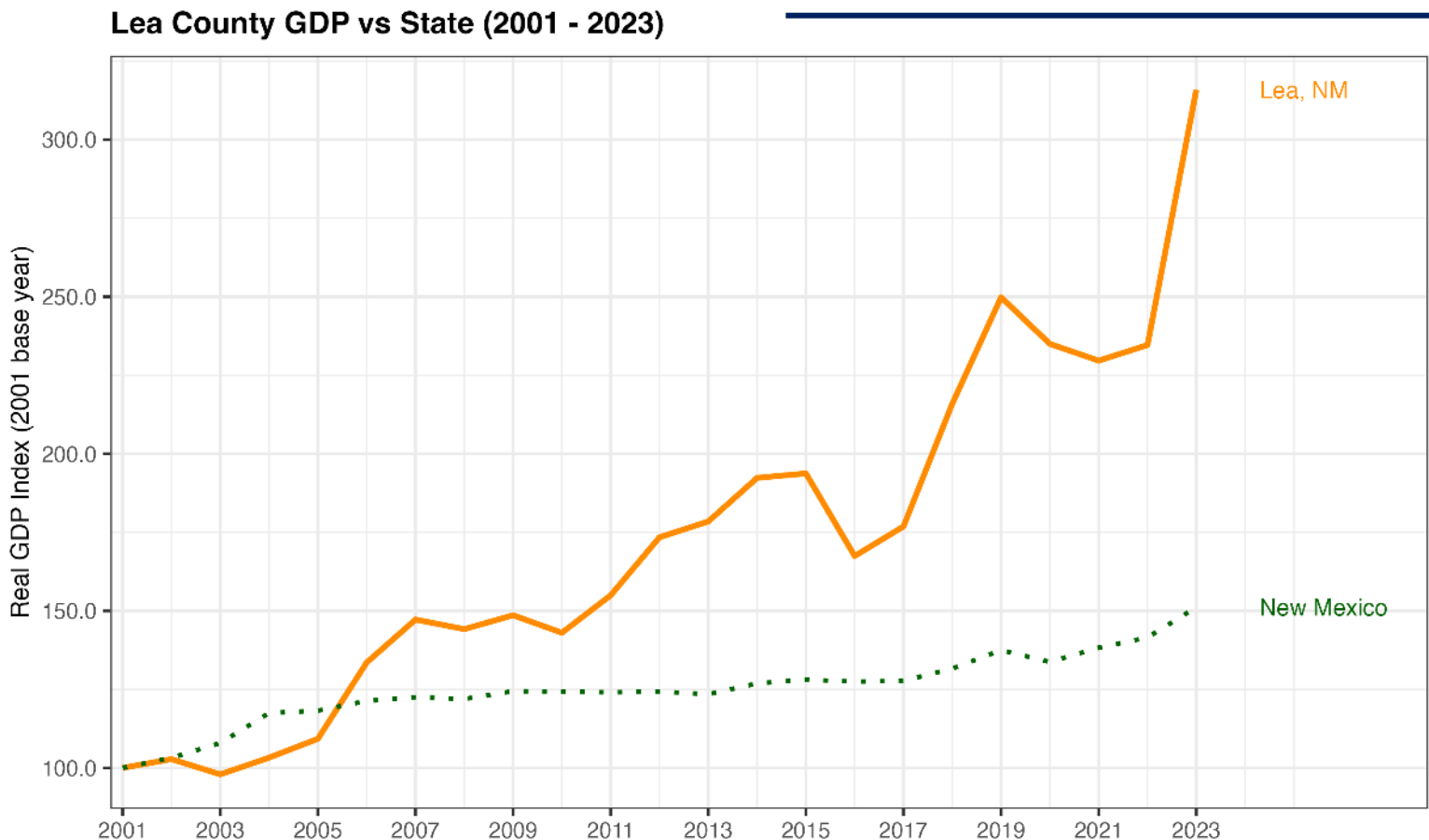
Now, the focus shifts from comparing long-term trends to examining Lea's population changes decade by decade. This graph shows the population at the start and end of each decade, as well as the total growth rate during each period.

Recent economic performance – Income level growth



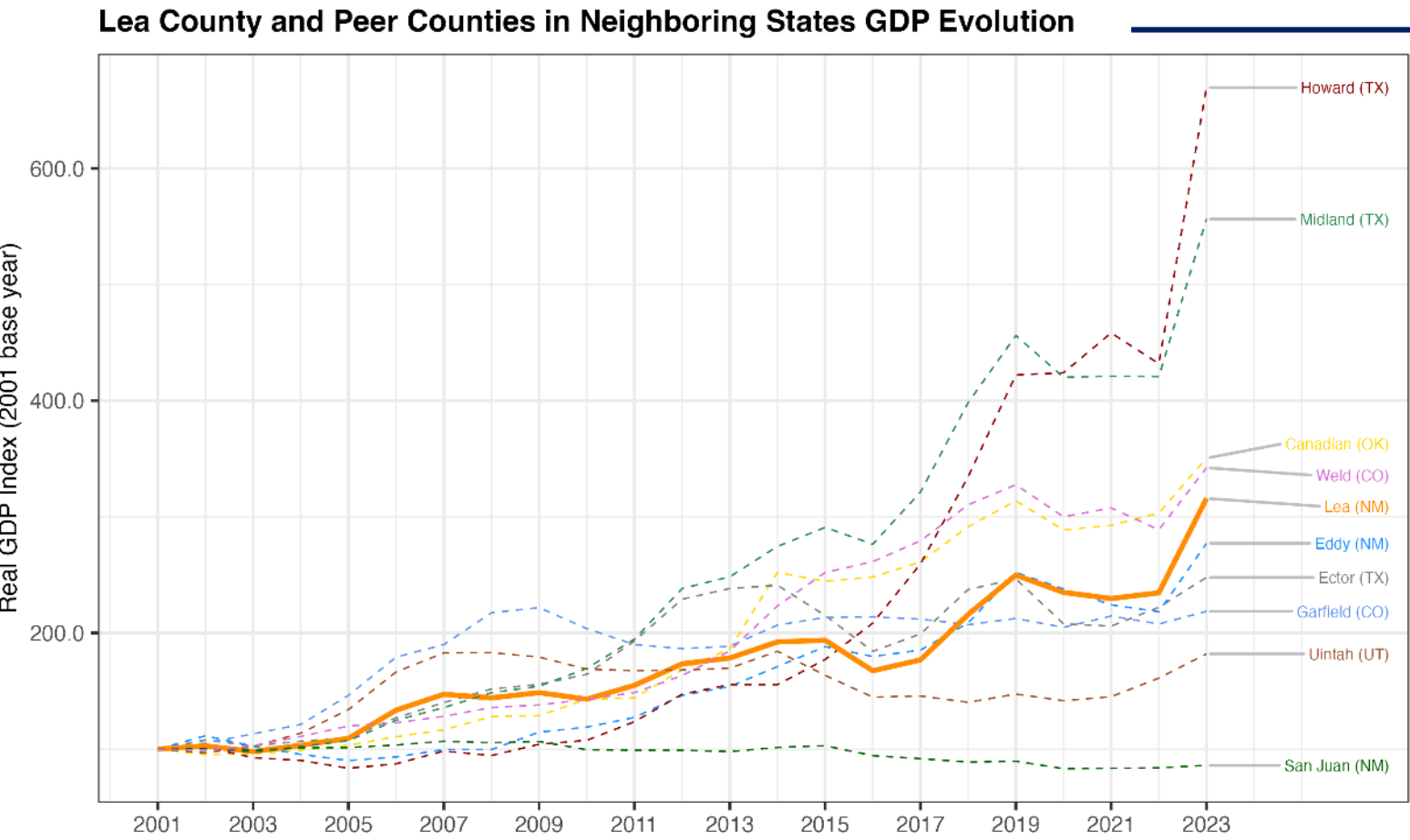
Source: Bureau of Economic Analysis (BEA) and U.S. Census Bureau via FRED
Note: the dotted lines are the averages of GSP growth rate

Recent economic performance – Gross County Product



Shifting from per capita measures to total GCP levels gives a sense of the overall size of the local economy, based on everything produced within the county's borders. To make comparisons between places clearer, GCP is shown as an index using 2001 as the base year. This approach allows for easy tracking of economic trajectories across places of different sizes and helps highlight specific periods when significant changes or challenges occurred. Lea's economic trajectory is shown alongside that of New Mexico as a whole.

Recent economic performance – GCP trajectory relative to peers

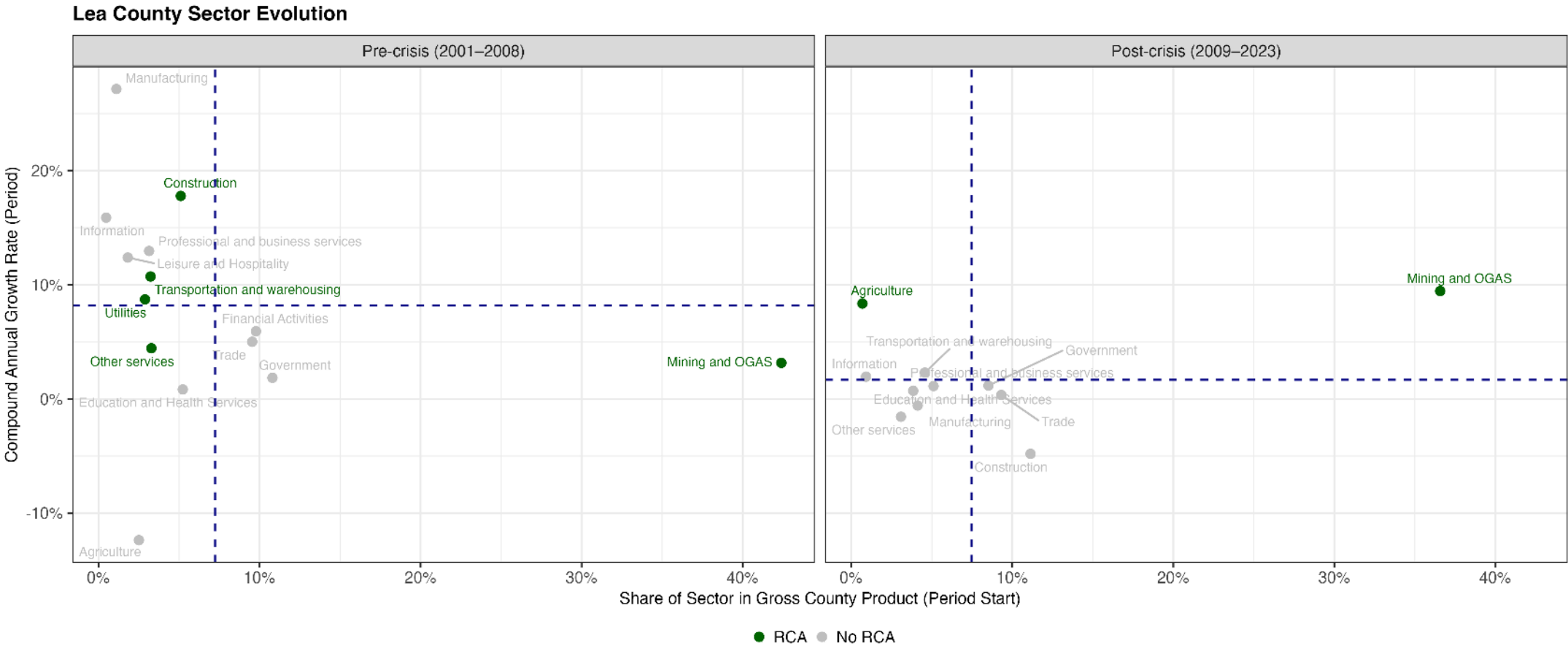


This graph uses the same set of peer counties as in the population comparison but now focuses on economic trends. As with the previous comparison to the state, each county's GCP is indexed to 2001, making it easier to spot major changes and differences in trajectory over time. Lea's GCP is shown alongside that of its peer counties.

Underlying economic engines

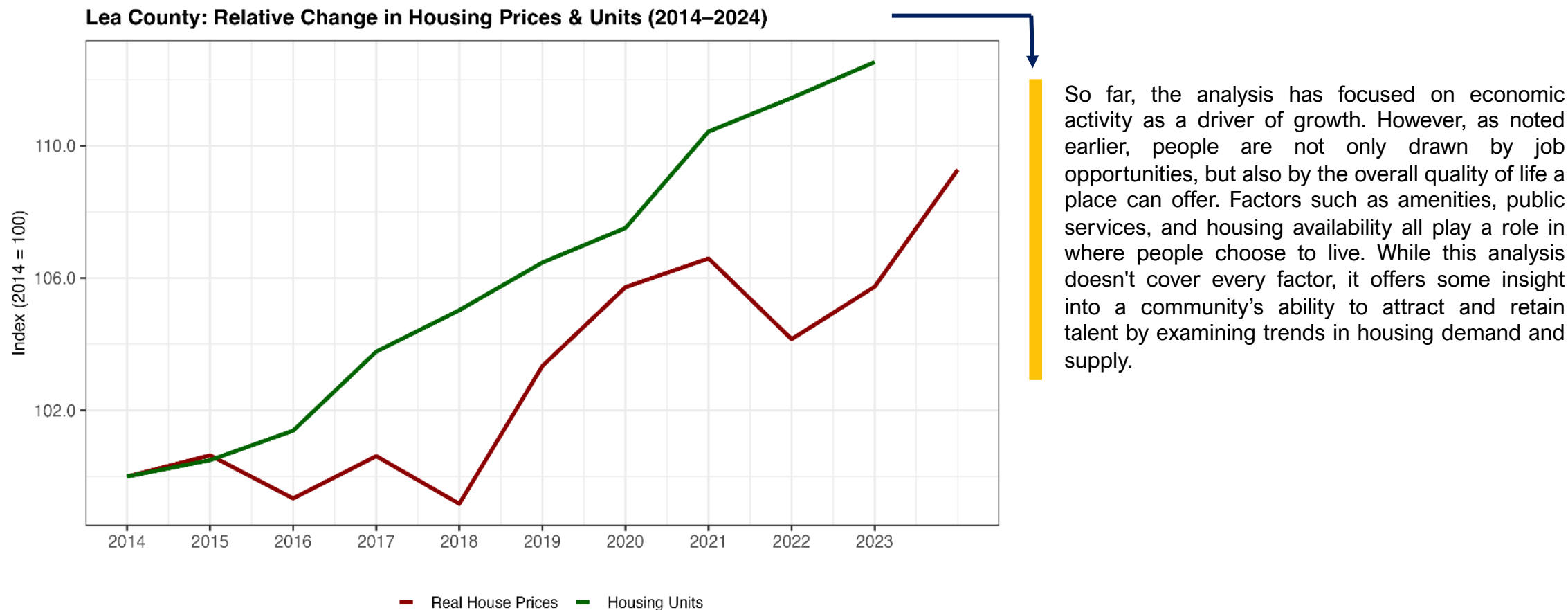


GCP can be broken down into the sectors that drive the local economy. The following graph does this by showing each sector's average growth rate and share of the economy before and after the financial crisis. Each dot is a sector; its position reflects both its average growth and its importance to the county's economy.



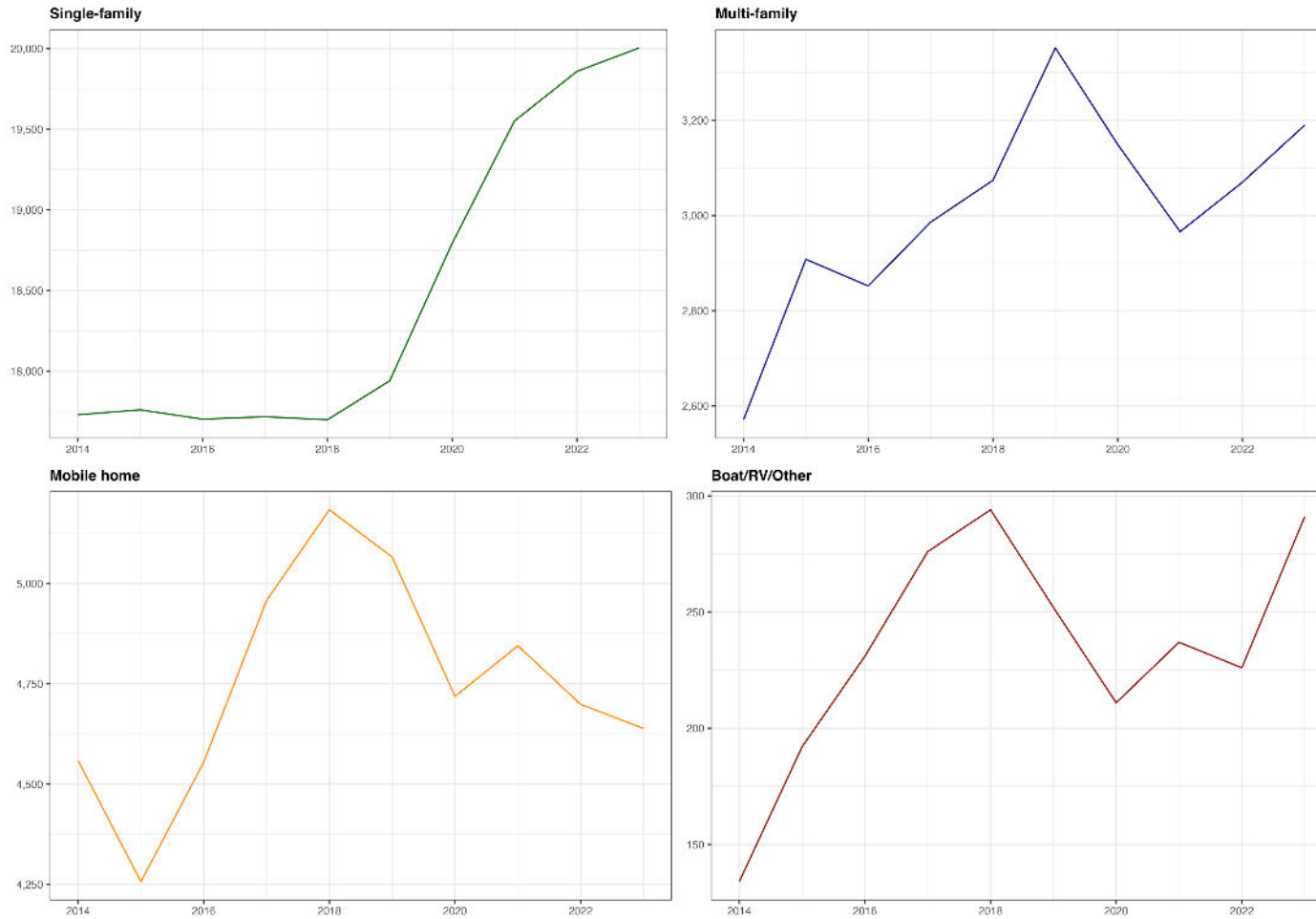
Source: Bureau of Economic Analysis (BEA)
Note: This RCA is comparing the county's share vs US to identify the distinctive sectors for the county.
Note 2: Some sectors are not included in both graphs due to data availability

Housing dynamics – local prices and housing supply



Housing dynamics – Breakdown of housing supply

Lea County Housing Units by Type (2014-2023)

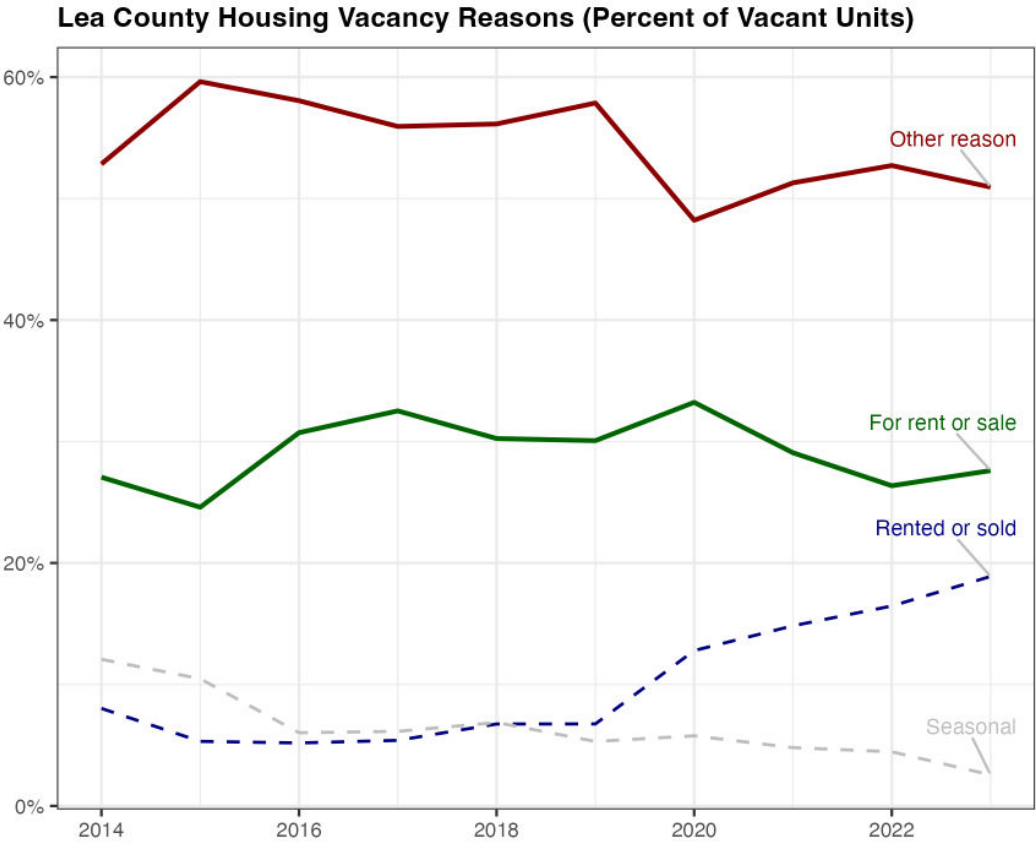
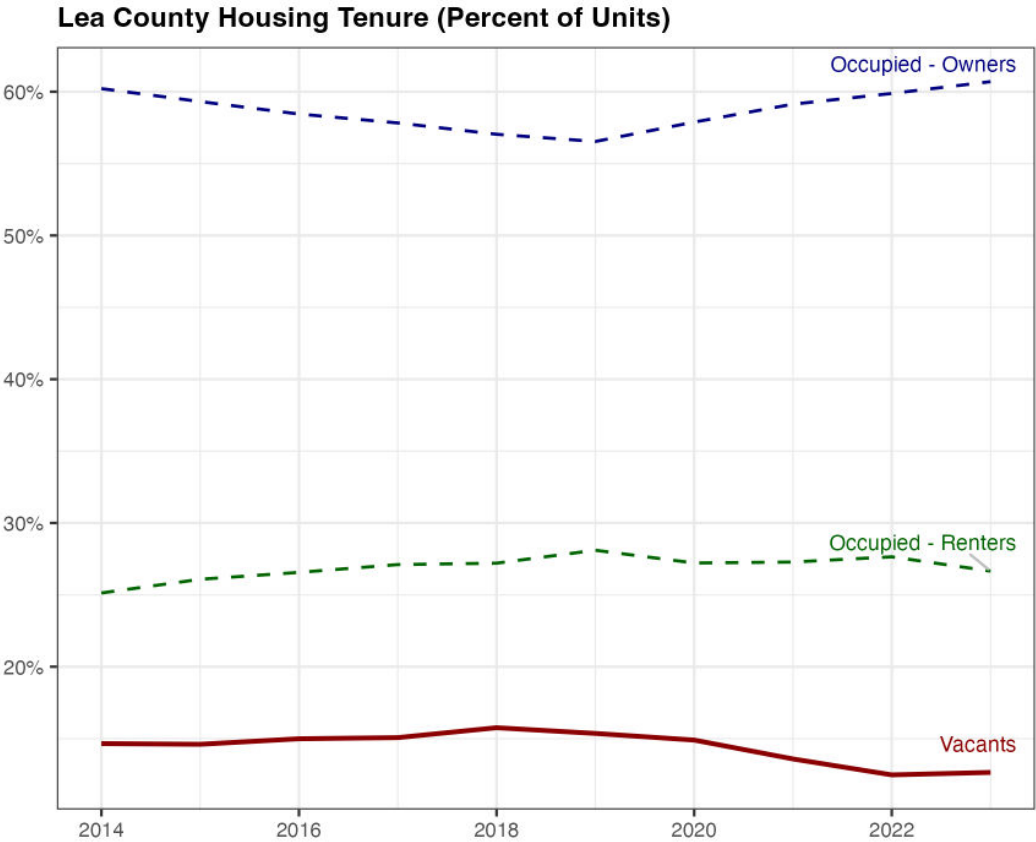


The U.S. Census Bureau classifies the housing structure according to how many units it has: one, two, three and so on. This analysis uses four main categories: Single-family (only one unit), Multi-family (two or more units), Mobile homes and Boat/RV or other types of housing.

Housing dynamics – Tenure and vacancy



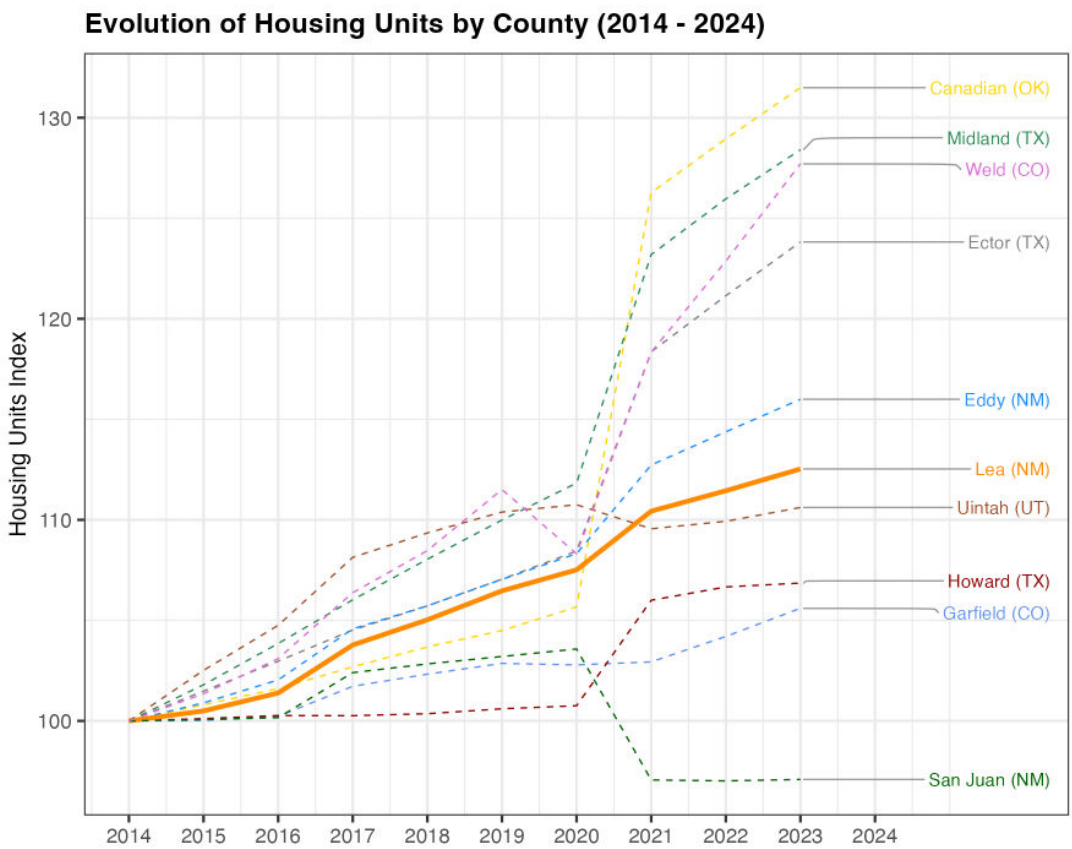
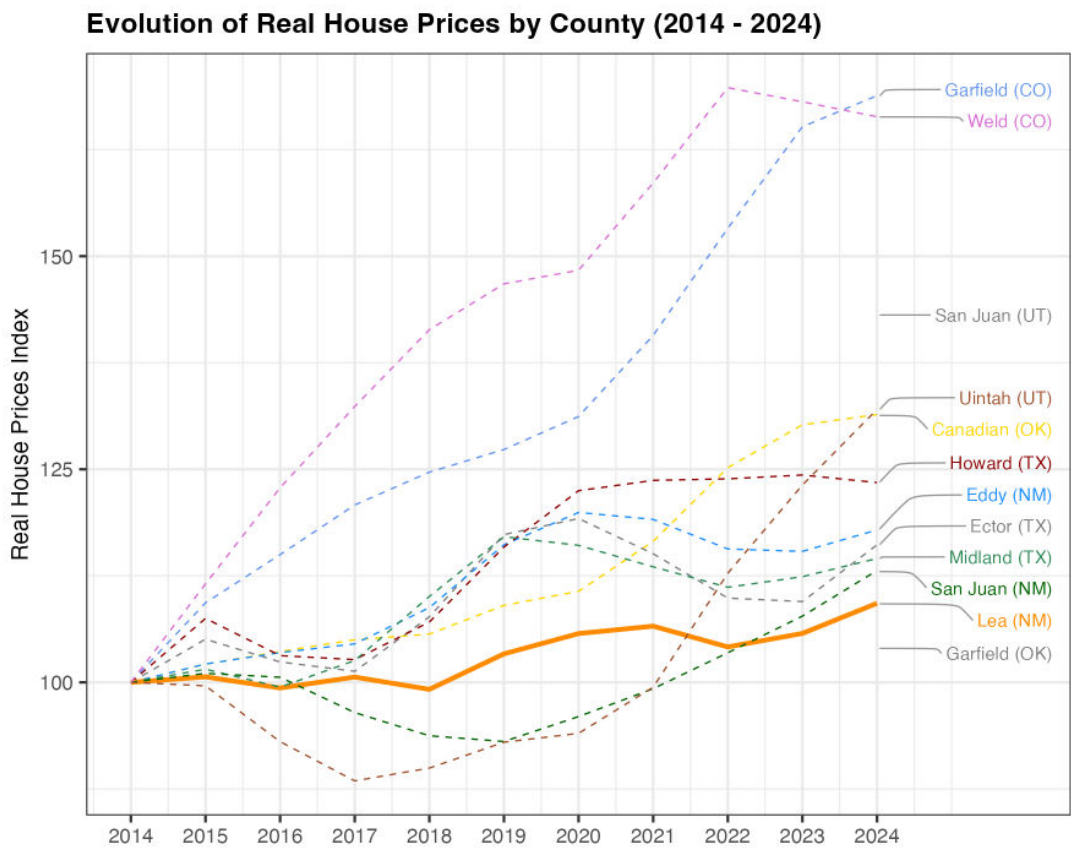
Housing units can be occupied by either owners or renters, while some remain vacant for various reasons. Some vacant units are already taken and are awaiting new residents, while others are actively on the market for rent, for sale, or available seasonally. The most concerning are those listed as vacant for “Other” or unclear reasons.



Housing dynamics – Comparison with peers



The previous slides examined Lea County’s housing supply and demand on its own. The following graphs add context by comparing these trends to the same peer counties used earlier



Source: U.S Census for Housing units and FHFA for prices. BEA for CPI and adjusting to real prices

Diversification opportunities

Which industries are better positioned to fuel Lea County's economy?

Overview of the selection of promising industries

- **Background.** The prior section, “County Economic Snapshot,” provided a preliminary diagnosis of the county’s current situation by examining main population and economic trends. This analysis helps clarify whether the county faces greater challenges in fostering economic activity or in attracting and retaining workers for future growth. Regardless of these constraints, every community can benefit from identifying which industries are best positioned to bring new jobs.
- **Complement to local knowledge.** While local stakeholders often have valuable insights into which industries could thrive, the sheer number of possible options, over 1,000 industries at the 6-digit NAICS level, means there is room to complement local knowledge with data-driven observations, including some that may not be immediately obvious as a local fit.
- **Selection.** From the whole universe of potential industries, the analysis first identifies the industries the country is already good at and, second, other industries that require similar capabilities to these. Finally, it focuses in on which of these are tradable industries. Within tradable industries that align with the region’s existing capabilities, there are two key groups. “Already Competitive” industries have a strong local presence and serve as current economic strengths. “Potential Opportunities” are industries that are either smaller or not yet established locally, but whose growth requirements closely match the local economy’s current mix of know-how, skills, infrastructure, and other inputs (productive capabilities). These industries may offer pathways for future job creation and diversification.
- **Building blocks.** These groupings are based on an approximation of the local productive capabilities (knowhow, skills, infrastructure and other inputs) and how well these match the needs of different industries. By examining both the mix of existing industries and their broader relationships, the analysis highlights which industries the local economy is best equipped to support, either by reinforcing established strengths or by fostering new sources of job growth.

Our analysis is built on three cornerstones

Local Capabilities



What is Lea good at?

Revealed Comparative Advantage (RCA) or Location Quotient (LQ) as key metric

Industries Relatedness



How interconnected are industries with one another and with Lea's capabilities?

Proximity and Density as key metrics

Tradable Income



Which industries can bring external income to Lea?

Tradable or base industries that export goods and services

Our analysis is built on three cornerstones

Local Capabilities



What is Lea good at?
*Revealed Comparative Advantage
(RCA) or Location Quotient (LQ) as key
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Industries Relatedness

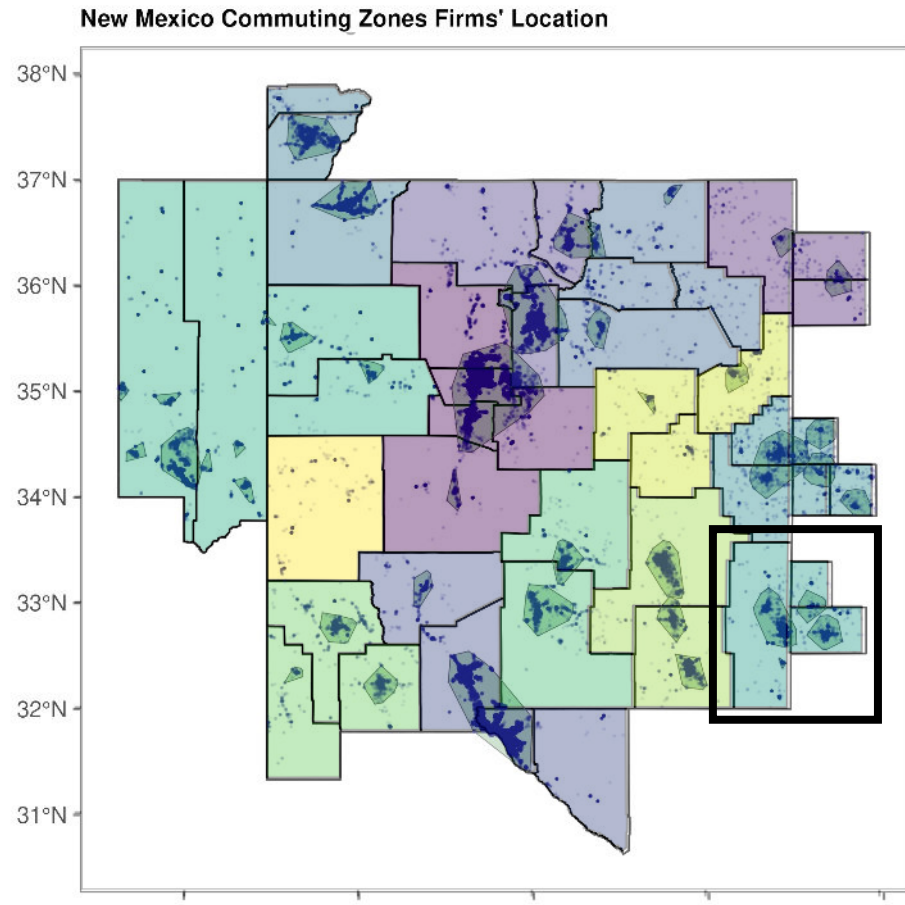


Tradable Income



What is considered “local”? Beyond administrative borders

➤ *We think of the local economy as a commuting zone (CZ).*



Workers often commute beyond the administrative boundaries of towns and cities. To capture this, the USDA defines commuting zones across the country, grouping areas based on where residents travel for work.

Lea's commuting zone, highlighted by the black square on the left map, includes Gaines and Yoakum counties (TX).

The analysis in this document focuses on Lea's commuting zone (CZ), so references to Lea refer to its CZ

Which are Lea capabilities? Looking for signals

➤ *Productive capabilities could be collective knowhow, skills, infrastructure and other inputs. We cannot observe all, but the current economic activity gives us a hint of which industries they can support.*

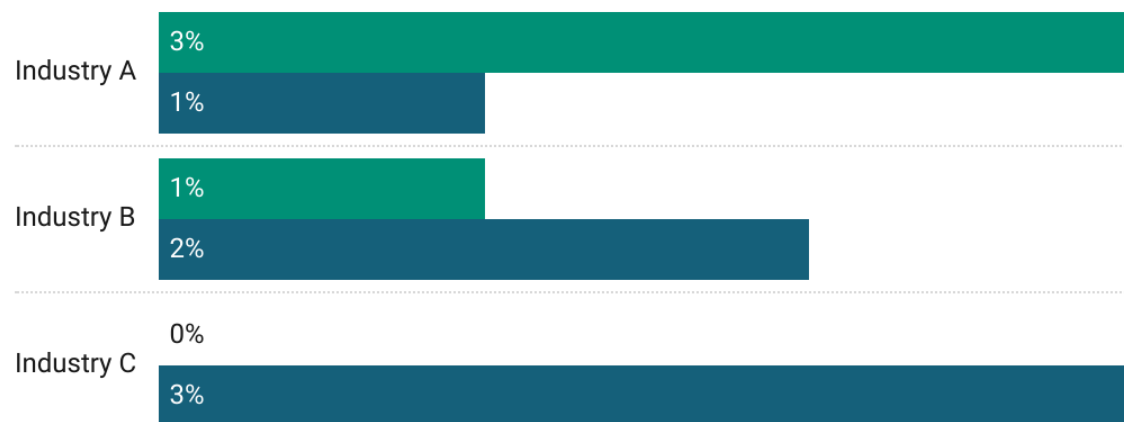
Key metric:

$$RCA = \frac{\% \text{ of CZ Jobs in industry } i}{\% \text{ of US Jobs in industry } i}$$

➤ *By comparing an industry's presence in the CZ relative to its presence nationally, it tells us what is Lea good at.*

For example:

■ County share ■ U.S Share



RCA = 3 (RCA > 1, Competitive edge). The CZ has the capabilities to excel in this industry.

RCA = 0.5 (RCA < 1, Not competitive). The CZ has some capabilities to participate in the industry

RCA = 0 (No presence). The industry is not currently active, but it could be developed in the future

Our analysis is built on three cornerstones

Local Capabilities



Industries Relatedness



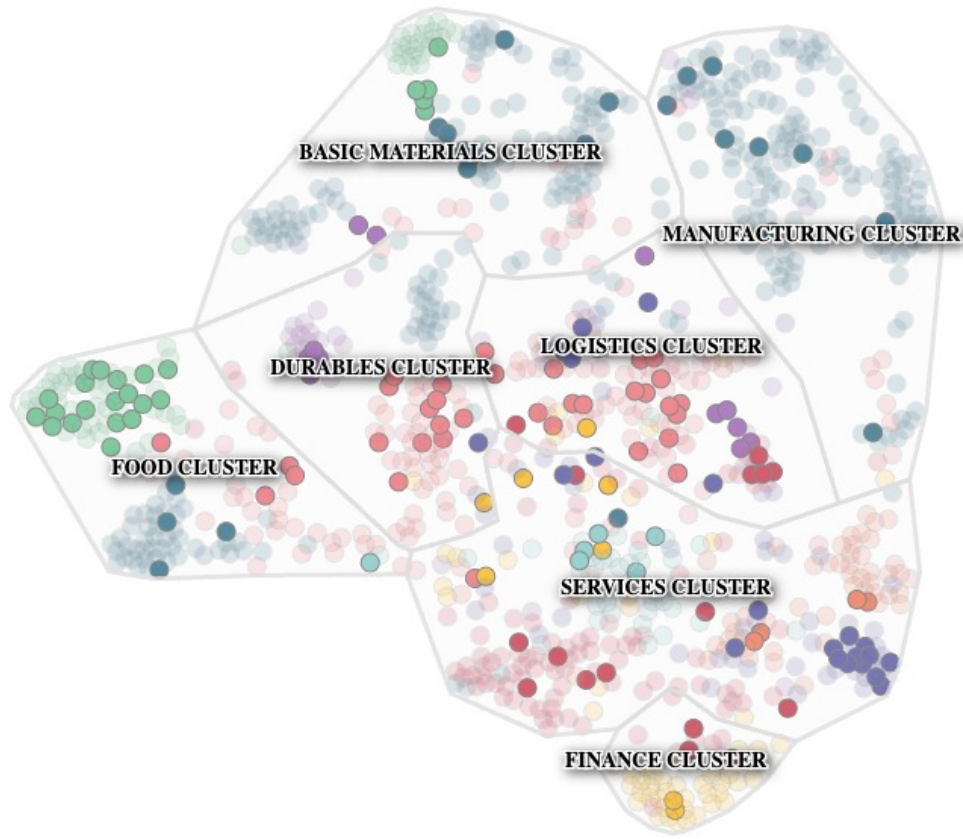
*How interconnected are industries
with one another and with
Lea's capabilities?
Proximity and Density as key metrics*

Tradable Income



What else could Lea capabilities support? Let's start by looking at the relationships between industries

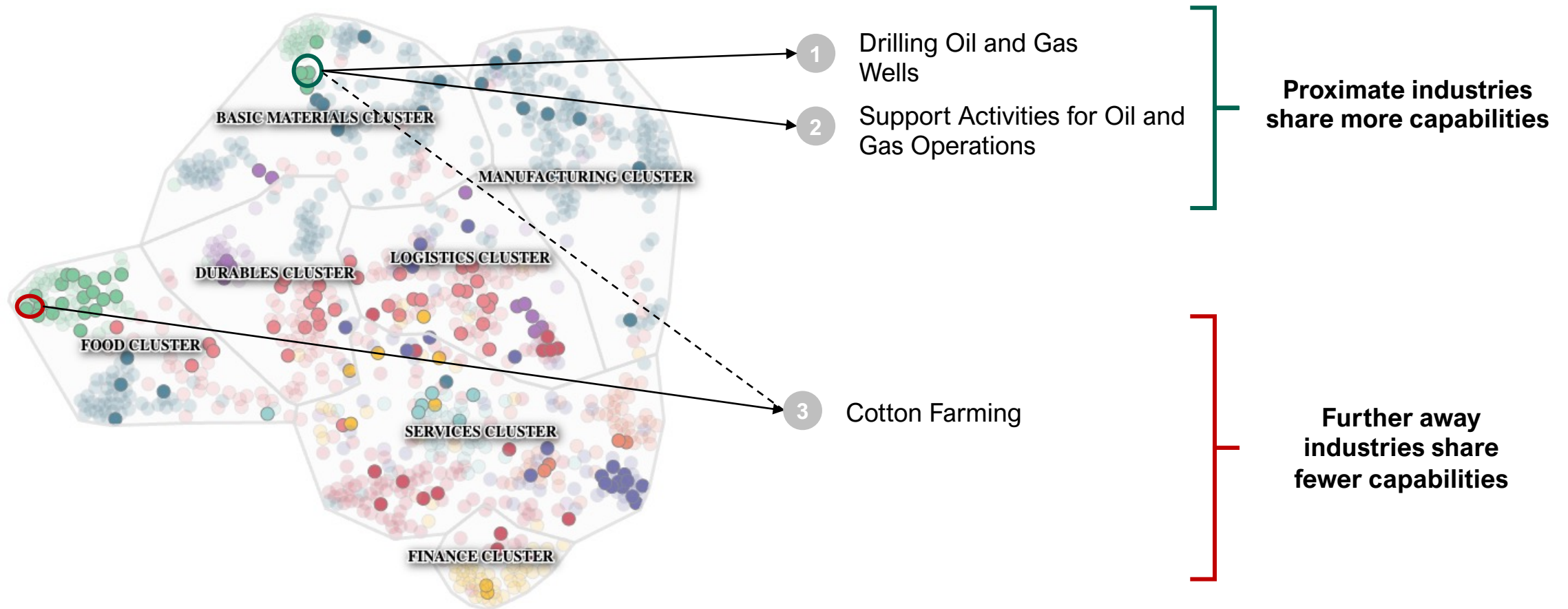
➤ *The industry space is the visual representation of the relatedness between all the existing industries.*



- Each dot represents an industry.
- Each color represents an economic sector
- Each area outlined in grey represents a cluster of economic activity. In each, industries from different economic sectors require similar capabilities.
- The stronger colored dots are industries with a significant presence in Lea County commuting zone relative to the rest of the US (RCA > 1).

Which industries are more alike? It's all about their position

➤ *Proximity tells us how similar two industries are.*

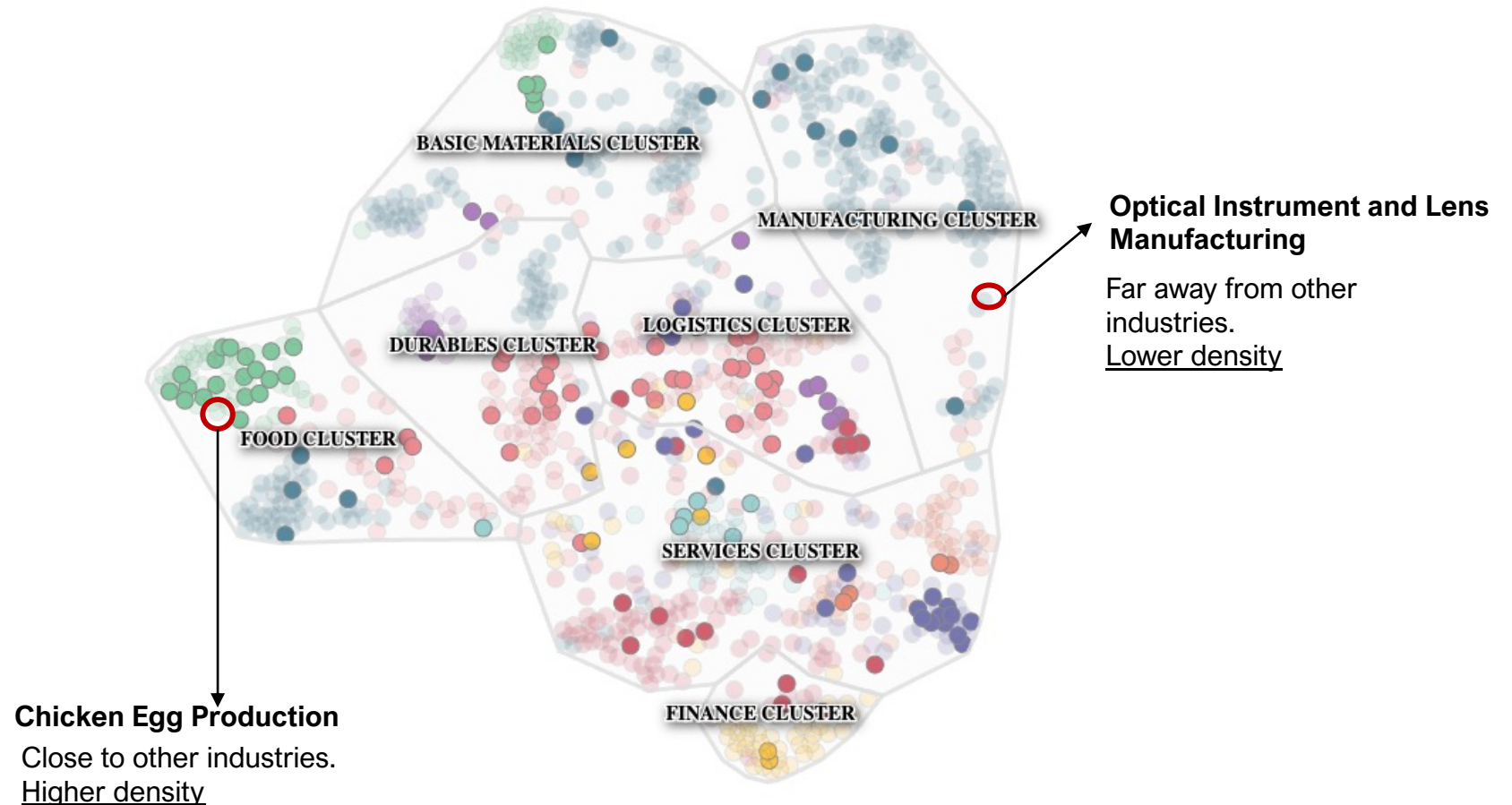


What industries require similar capabilities as those found at Lea?

Depends on their proximity to current industries

➤ *Density considers the connections between an industry and the CZ's current economic activity. It provides a notion of which other industries the productive capabilities could support.*

When thinking about new industries, development will be easier if the industry is located in a part of the industry space where Lea already has significant economic activity and strong capabilities. Regions typically grow by developing these



Our analysis is built on three cornerstones

Local Capabilities



Industries Relatedness



Tradable Income

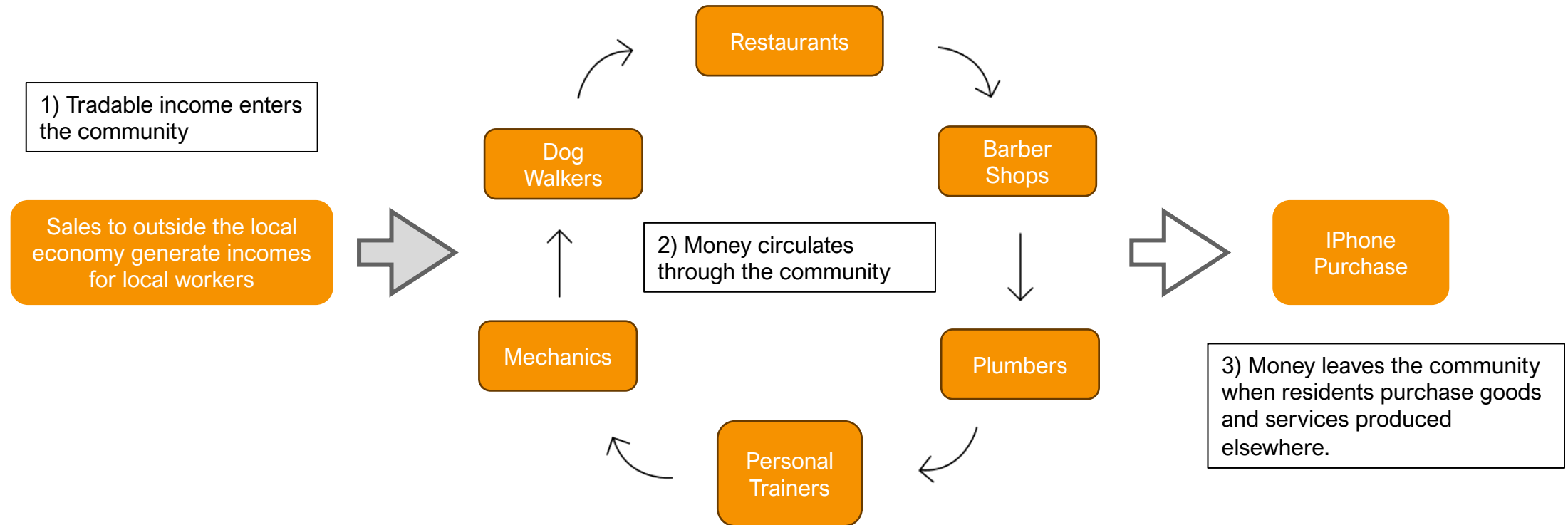


Which industries can bring external income to Lea?

Tradable or base industries that export goods and services

What are the industries that could bring external income to Lea? The relevance of tradable income

➤ ***Tradable income is jargon for money generated from stuff that a local economy sells beyond its borders. It essential for economic survival as it allows to purchase goods and services that are not produced locally and creates local jobs.***



There are 1012 industries (6-digit NAICS 2022 code). Using County Business Pattern (CBP) dataset from Eckert et al. (2021), Growth Lab research has determined that 52% of them are tradable.

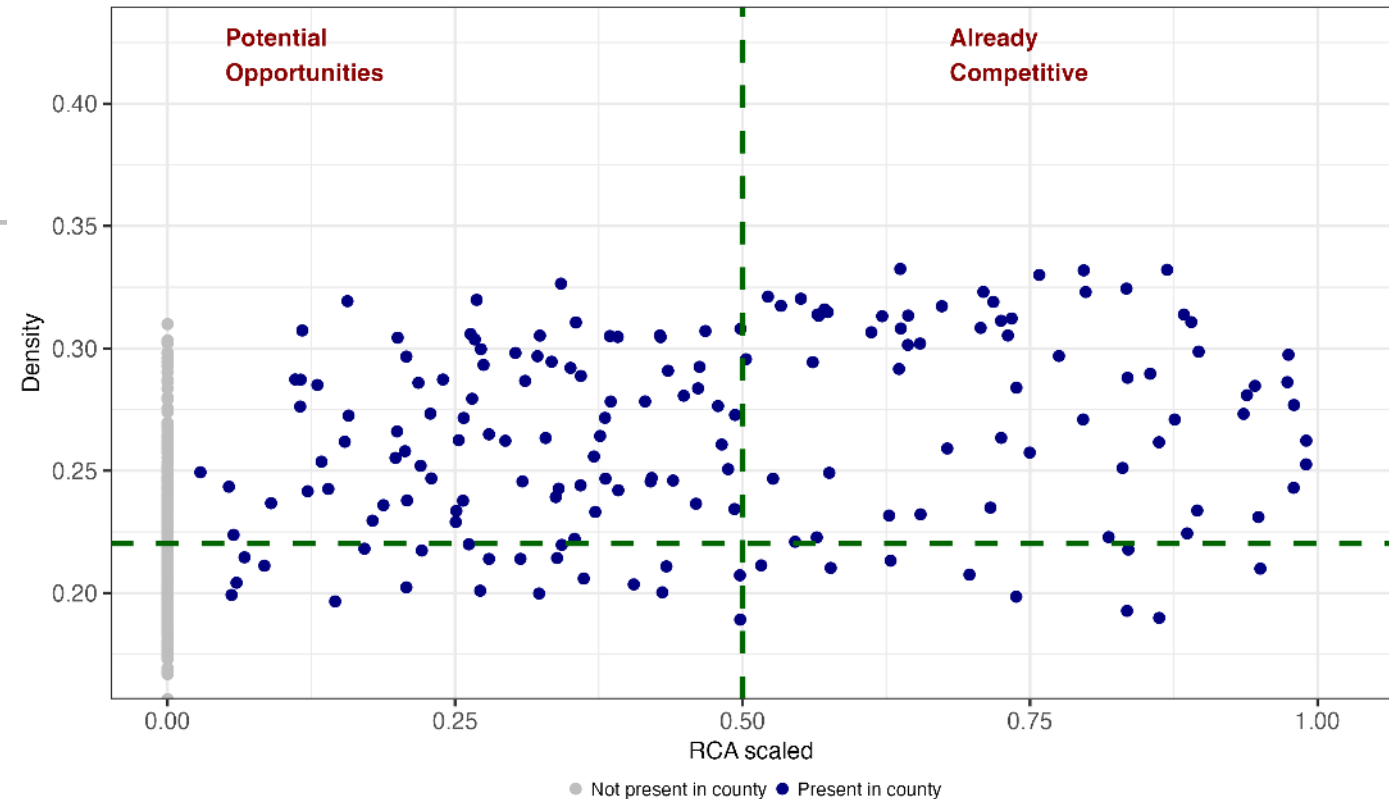
What are the opportunities in the tradable sector? RCA and Density as criteria

Remember:

- 1 **RCA.** What is Lea good at?
- 2 **Density.** How close is an industry to the Lea's existing capabilities?

Defining the groups. The first threshold for group definitions is set at $RCA = 1$ (or 0.5 on the scaled horizontal axis), separating industries with relatively larger and smaller local presence. The second threshold uses the median density among all tradable industries to identify those most similar to the local productive capabilities. The focus is on industries above the median density, as they are more closely aligned with existing capabilities.

Tradable industries in the county

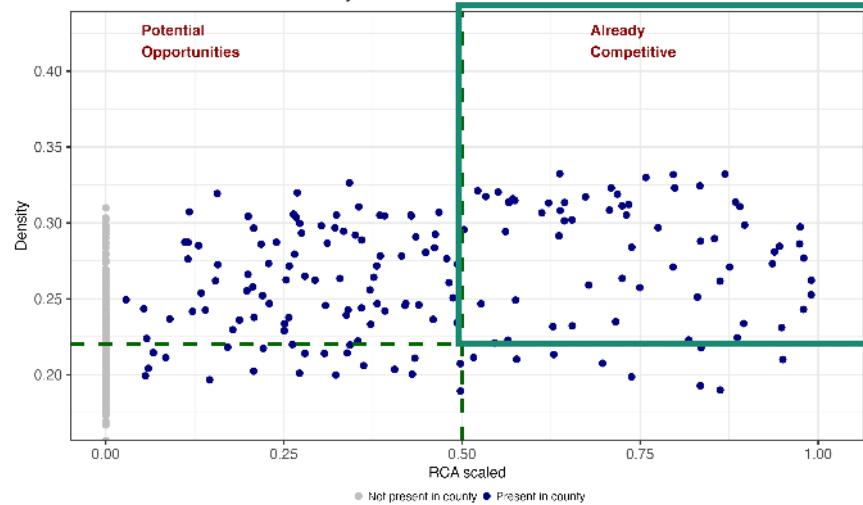


How to start exploring promising industries

- **Wide set of possibilities.** The analysis highlights over 200 potential industries for growth (either by supporting industries already established locally or by creating conditions for new ones with potential to thrive). Ultimately, choosing which industries to pursue depends on local priorities, assets, and experience. The following slides and the [attached dataset](#) offer multiple ways to explore these opportunities. There is not a unique way of using these resources.
 - **First pass.** If you're unsure where to begin, start by reviewing the visuals that display all opportunities by category (Manufacturing, Trade, Services, and Natural Resources) to get a sense of the landscape. Alternate between the visuals and the dataset, and make note of any industries that immediately catch your attention for further exploration. The dataset provides several variables for each industry, but at this stage, simply flag those that seem particularly relevant or interesting for your context. You can later assess which of these options are most practical or realistic based on the specific conditions required for development.
 - **Exercise caution with opportunities that feel off.** Promising industries are identified based on their similarity to the local economy's capabilities, but a perfect fit is uncommon: some capabilities (skills, infrastructure, or inputs) may still be missing, especially for new or emerging sectors. The next step is to identify and assess these gaps with input from local firms and industry partners. In some cases, missing capabilities (like climate conditions for "Cotton Ginning") or unfavorable market conditions (as with "Support Activities for Coal Mining") mean the opportunity isn't realistic or practical. It is recommended to set aside options that clearly do not fit local conditions and instead focus on opportunities that align better with community strengths and potential.
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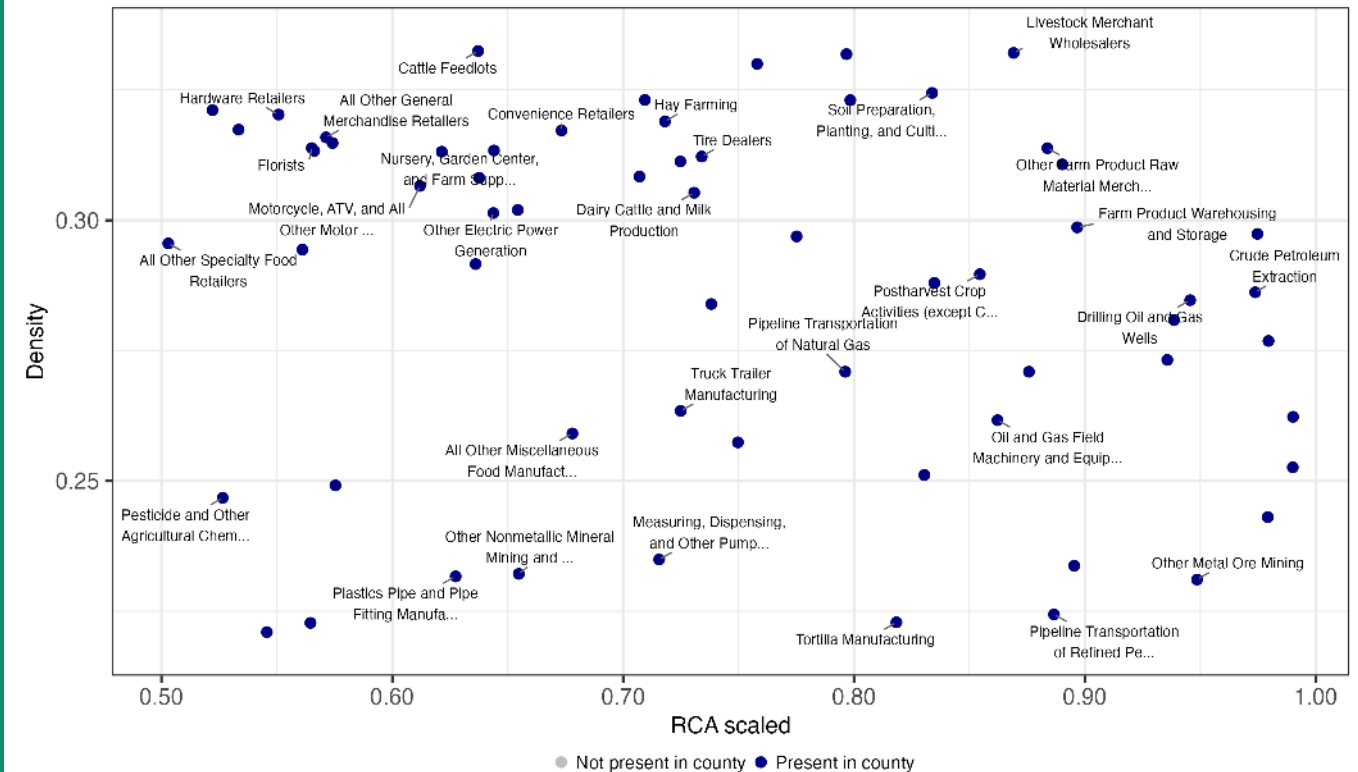
Already competitive industries in Lea's commuting zone

Tradable industries in the county

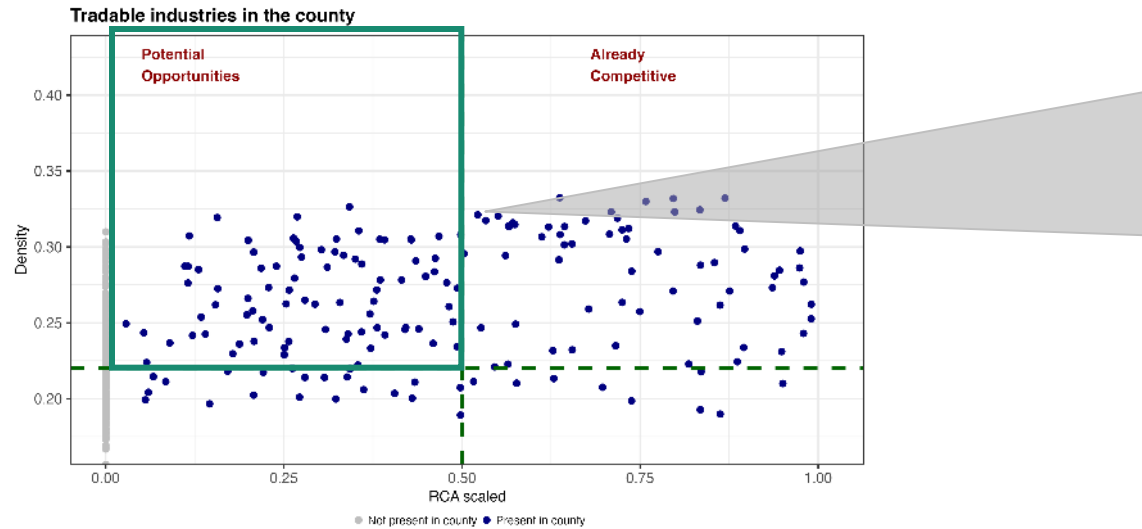


Industries in the top-right quadrant already have a strong foothold in Lea ($RCA > 1$ or $RCA \text{ scaled} > 0.5$). A development strategy could focus on creating the right conditions – such as infrastructure, skilled workforce, and supportive policies – to help them grow and thrive even further.

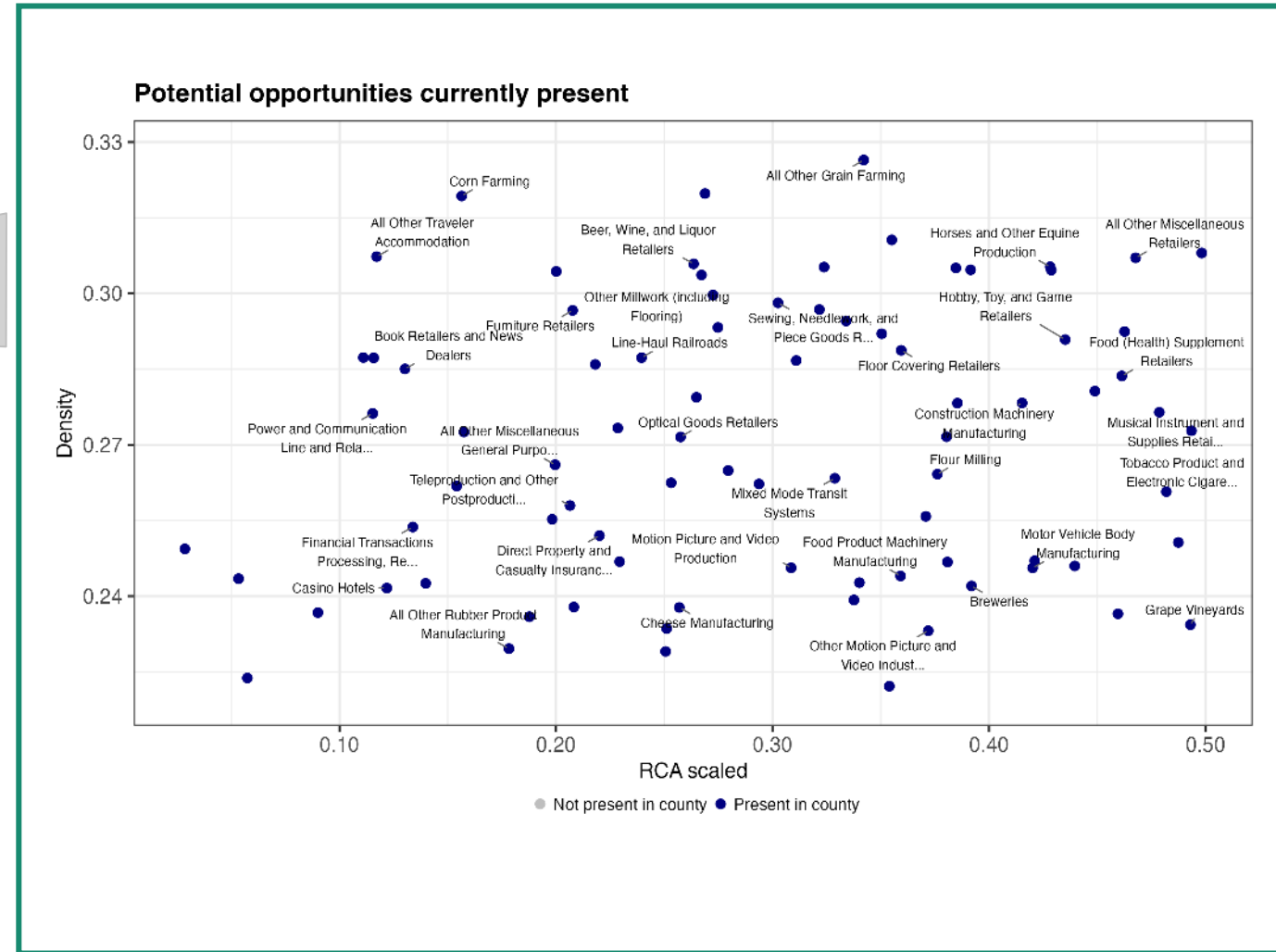
Tradable industries Already Competitive



Potential opportunities currently present in the county

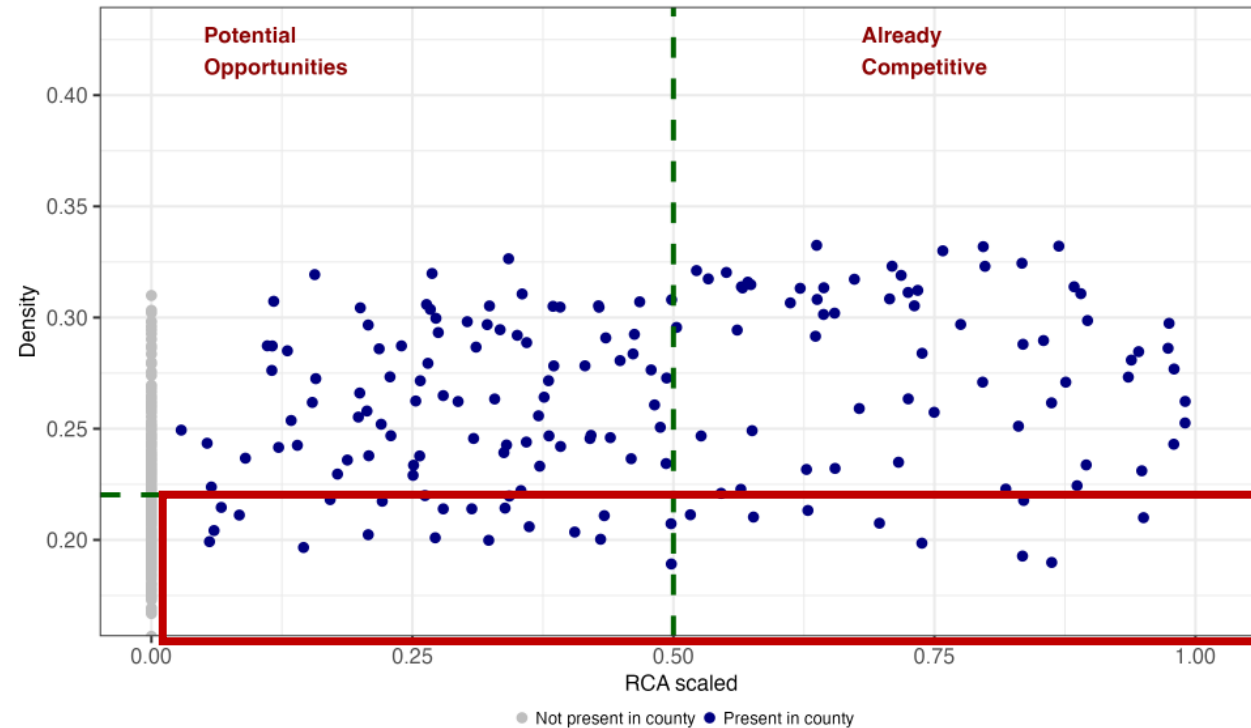


Industries in the top-left quadrant are particularly relevant for the county's development strategy because they already have some presence and are closely related to existing capabilities. In other words, they hold significant potential for growth. A development strategy could focus on creating the right conditions to help these industries flourish.



Industries further away from Lea's capabilities

Tradable industries in the county



The analysis does not focus on this set of industries because their requirements are not closely aligned with Lea's current capabilities. Industries with little local presence are unlikely to take root, while those with a larger footprint but a weak fit are more likely to shrink or eventually leave the community.

We identify 200 industries with potential opportunities.

Four major categories.



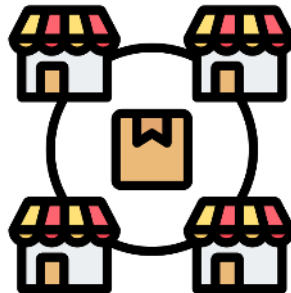
Several industries in Lea offer emerging and new promising opportunities for increased tradable income. While these industries are not yet as competitive in Lea as in other parts of the U.S., they share capabilities with industries that are already strong locally. This means they could expand relatively easily if the right conditions are in place.

Manufacturing



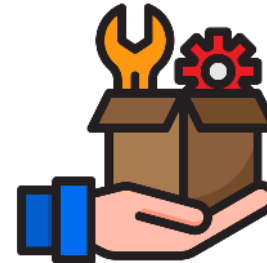
86 industries as potential opportunities

Trade



33 industries in retail and wholesale

Services



42 industries across different sectors

Natural Resources



39 industries in Agriculture and mining

Potential opportunities with high and medium level wages.

142 industries across categories

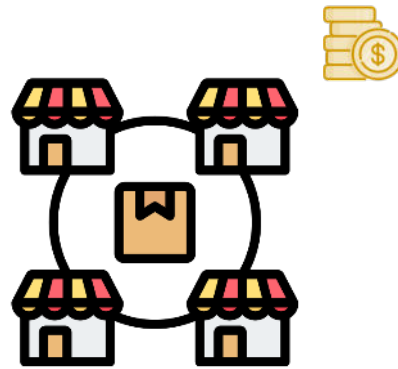
➤ ***Industries are grouped by wage levels using U.S. averages: the top 25% are classified as high-wage, the bottom 25% as low-wage, and the rest as medium-wage. The analysis focuses on high- and medium-wage industries, as these are more likely to provide quality jobs and stronger economic benefits for the community.***

Manufacturing



80 industries as potential opportunities

Trade



13 industries in retail and wholesale

Services



36 industries across different sectors

Natural Resources



13 industries in Agriculture and mining

Potential opportunities with high and medium level wages.

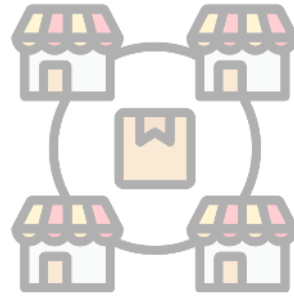
142 industries across categories

Manufacturing

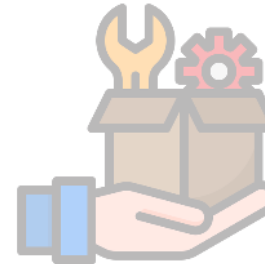


80 industries as potential opportunities

Trade



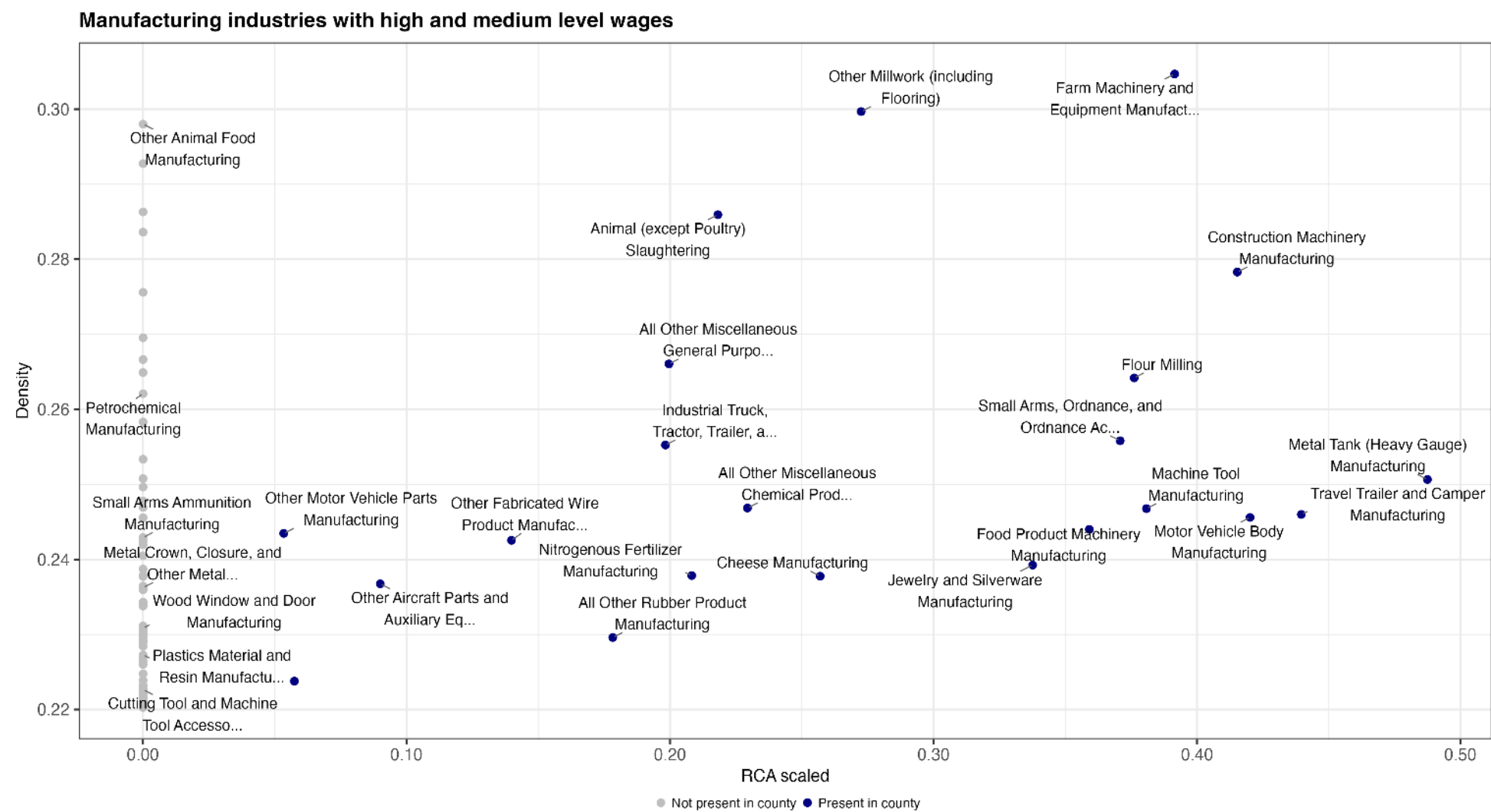
Services



Natural Resources



High and medium wages opportunities. 80 manufacturing industries Growth Lab



Main sources: Bureau of Economic Analysis (BEA) and Dun & Bradstreet.

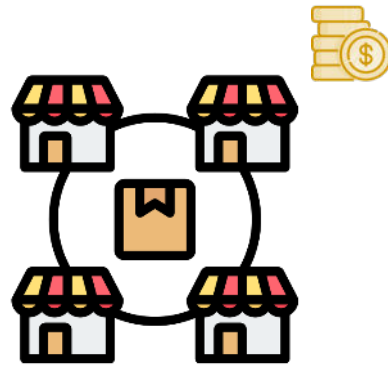
Potential opportunities with high and medium level wages.

142 industries across categories

Manufacturing

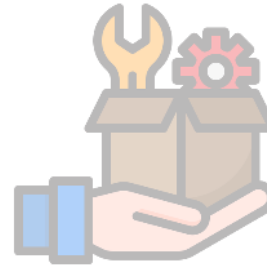


Trade



*13 industries in retail and
wholesale*

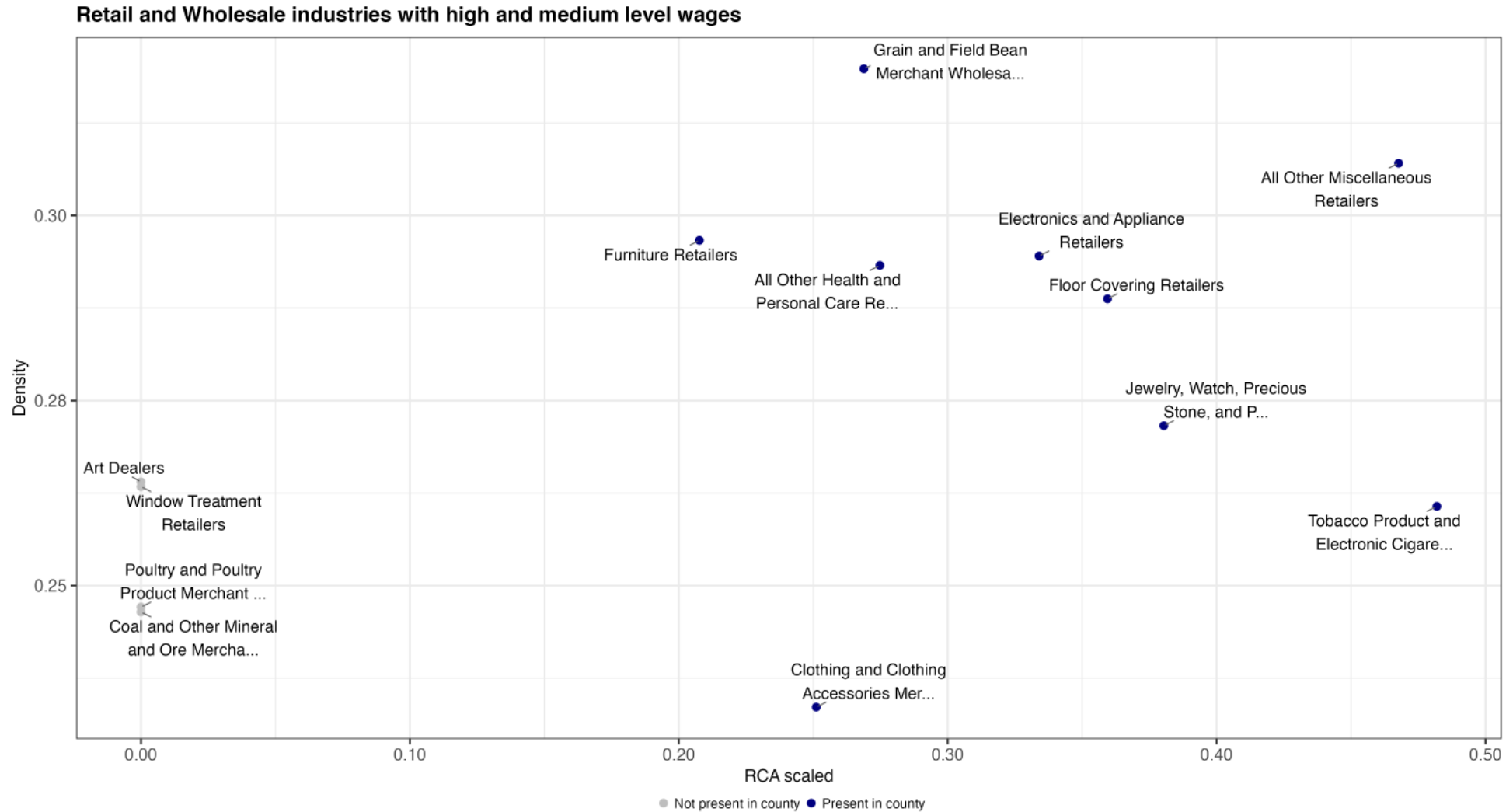
Services



Natural Resources



High and medium wages opportunities. 13 retail and wholesale trade industries



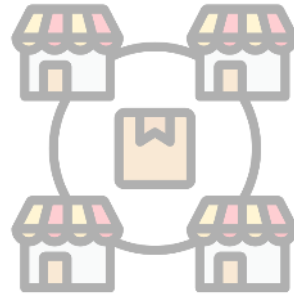
Potential opportunities with high and medium level wages.

142 industries across categories

Manufacturing



Trade



Services

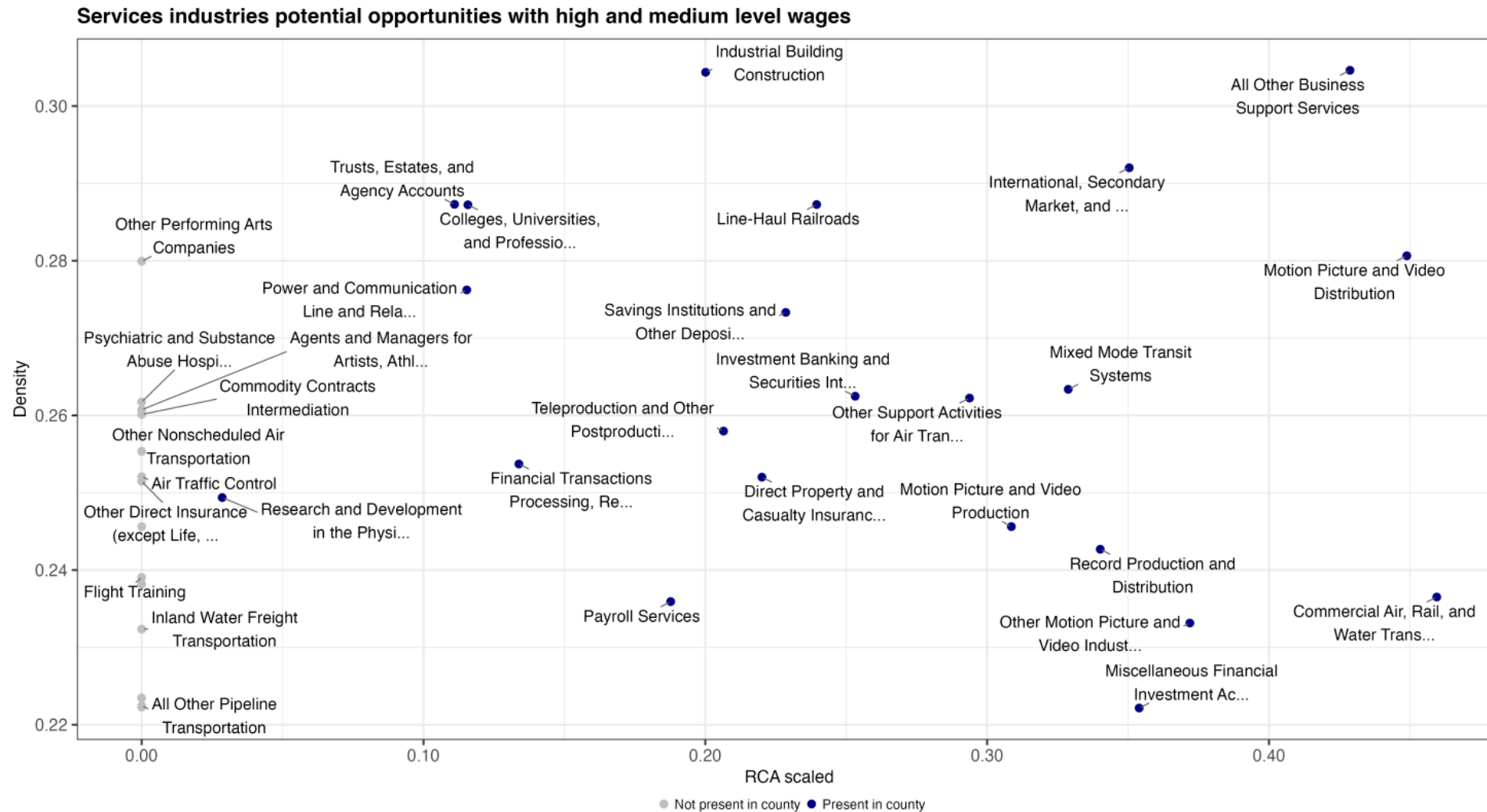


*36 industries across
different sectors*

Natural Resources



High and medium wages opportunities. 36 services industries



Potential opportunities with high and medium level wages.

142 industries across categories

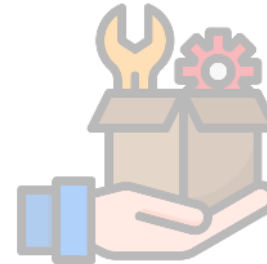
Manufacturing



Trade



Services

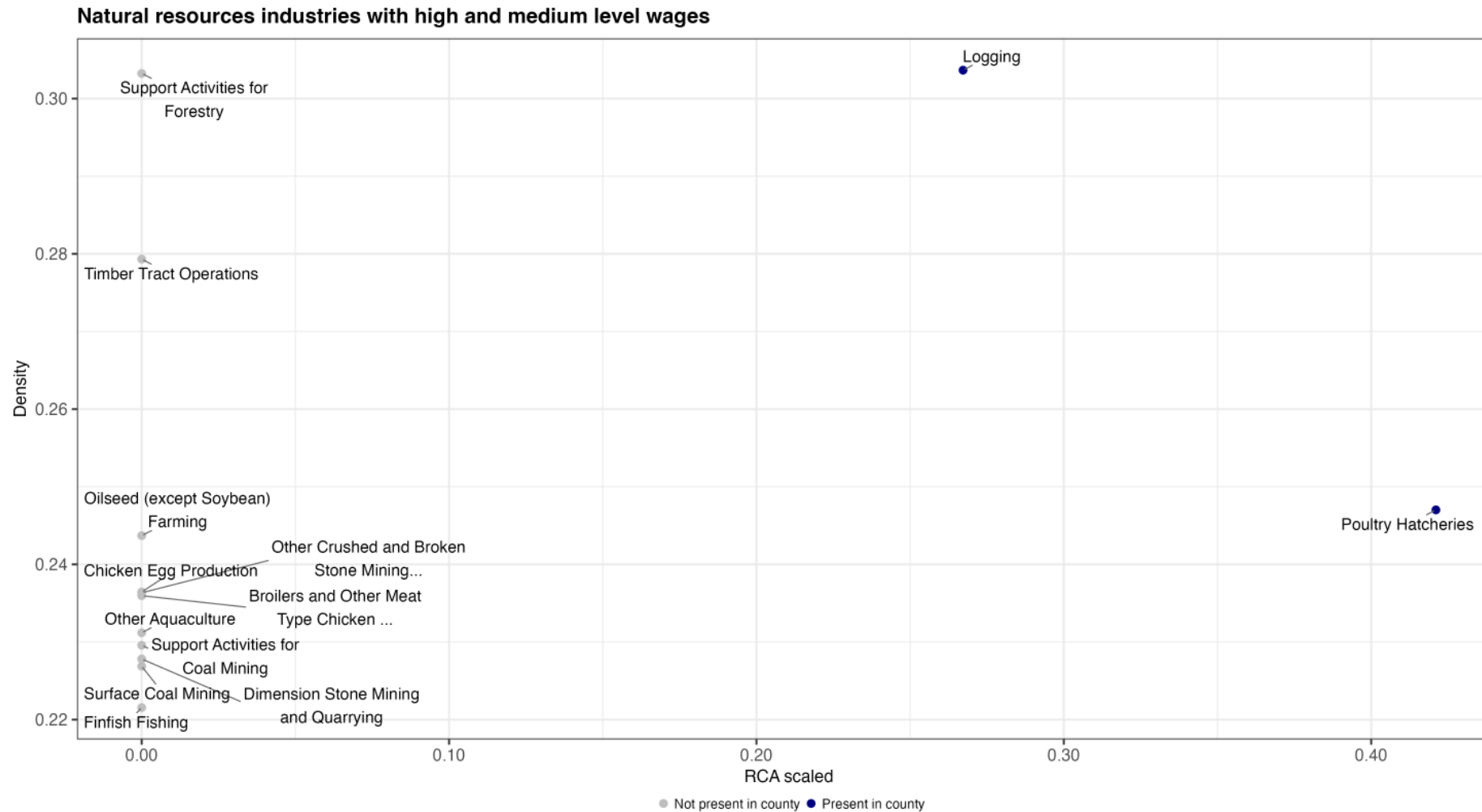


Natural Resources



*13 industries in
Agriculture and mining*

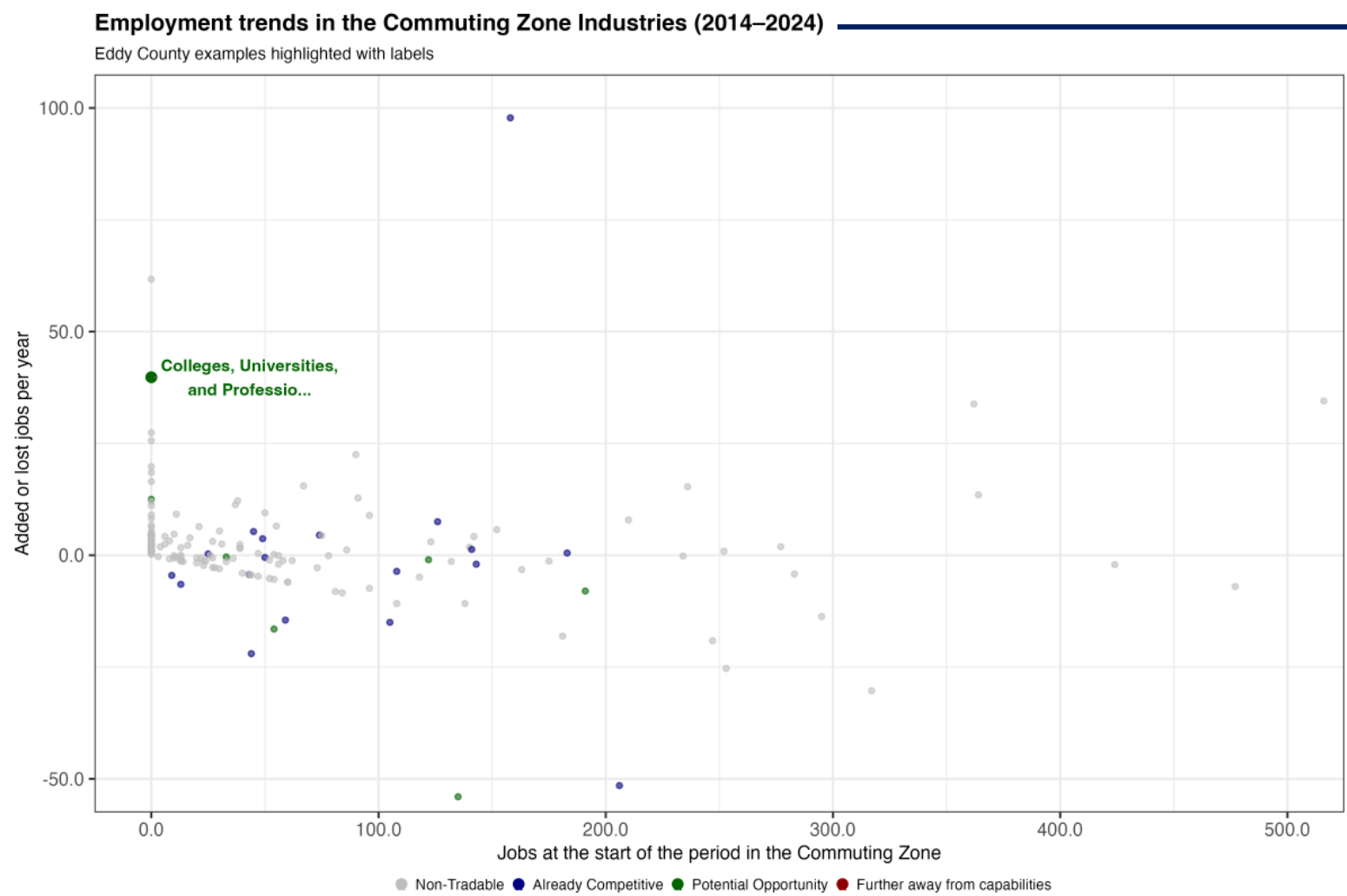
High and medium wages opportunities. 13 extractive industries



How to further assess the selected options

- **Background.** After selecting a list of industries that feel particular relevant or attractive, the next step is to figure out which are the missing capabilities and what can be done, if anything, to provide them.
 - **Dataset as a reference.** The dataset provides useful information about potential gaps in productive capabilities, such as electricity needs or supply chain positioning, but it is not meant to offer all the answers. Instead, it serves as a starting point for further questions and discussions among local stakeholders. For instance, while the data show which industries have added or lost jobs in recent years, understanding the underlying reasons requires local and industry insights.
 - **Examples as guidance rather than prescription.** External analysis cannot replace local insight or dictate which industries to target. The following slides highlight selected industries and explore various dimensions of each, not to prescribe priorities, but to demonstrate how to use the dataset's variables to prompt questions and guide decision-making. The examples focus on “Potential Opportunities” with medium or high wages that already have some local presence. The industries are drawn from sectors highlighted in the previous section, and Manufacturing because this sector offers additional variables to consider.
 - **Review process.** The examples start by comparing job trends at the local, regional, and state levels to provide an overview of growing industries and to prompt consideration of the factors enabling or hindering growth. For some industries, job data may not be available. In these cases, reaching out, perhaps with help from the local Economic Development Organization (EDO), to firms already active in the industry can offer valuable qualitative insight. The examples then explore additional variables that assess industry attractiveness and specific requirements.
 - **Build your own story.** Apply this approach to other industries of interest by examining all available variables in whatever order makes the most sense for your context. Engage local partners early and often to provide further insight and complement the analysis. The aim is to use this process to spark productive questions, identify the most promising opportunities, and guide actionable next steps for supporting industry growth in the community.
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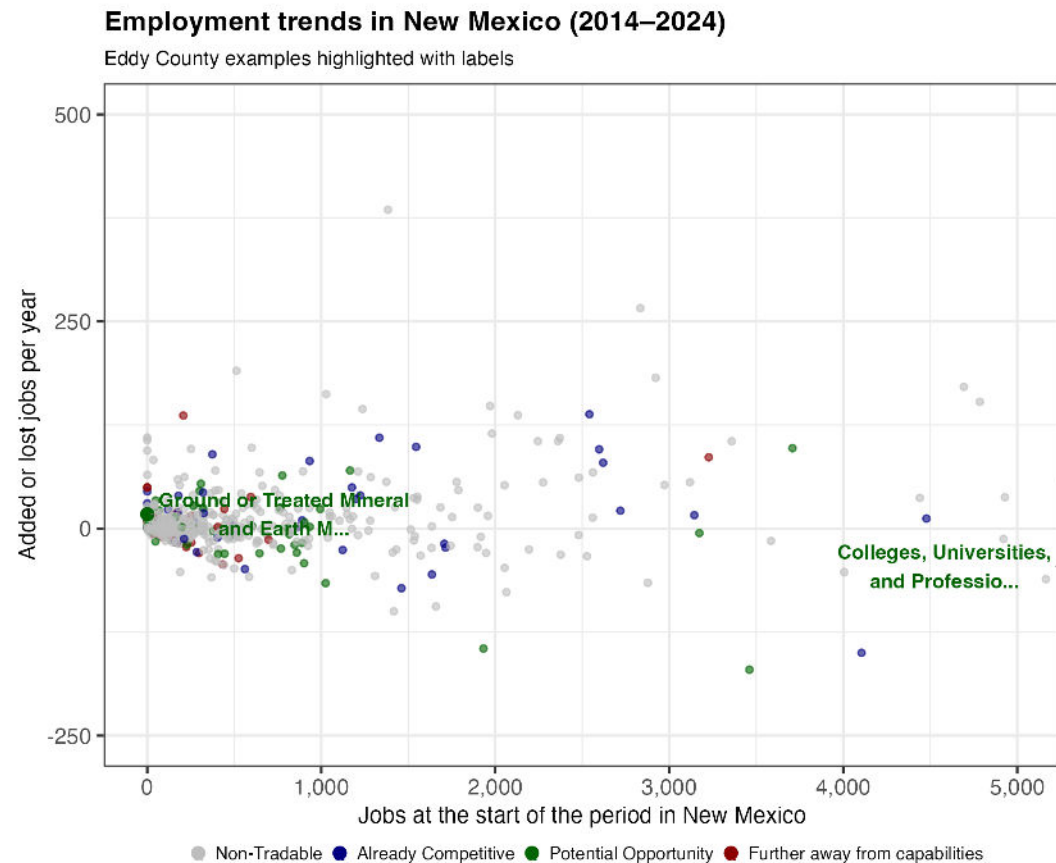
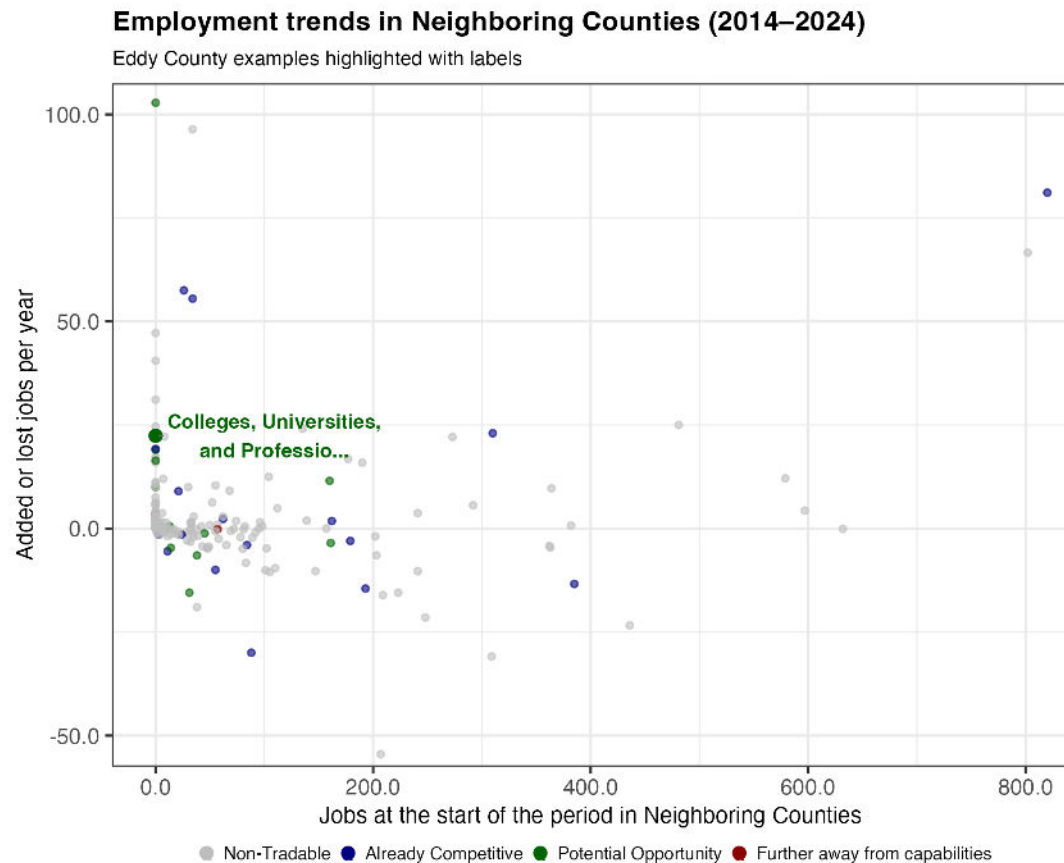
Are local conditions favorable or holding this industry back?



In this graph, the x-axis shows the number of starting jobs in each industry, providing a sense of the industry's initial size and its potential contribution. The y-axis displays the average number of jobs added or lost per year, rather than growth rates, since several industries began with zero employment. The total was divided by the number of years between the earliest and latest data points for each industry. The axes were capped to improve visualization.

Is the industry facing a different situation elsewhere?

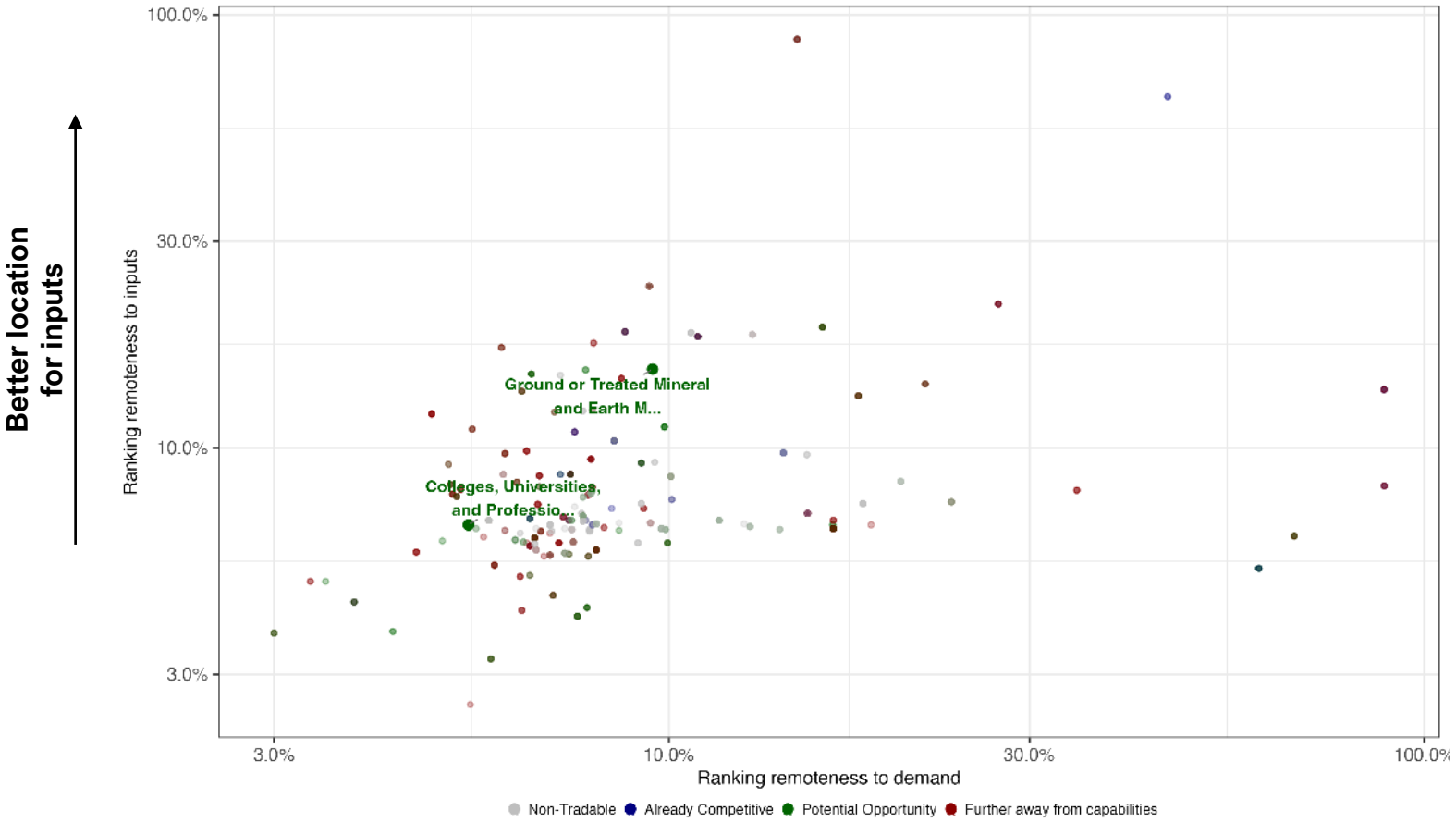
Same axes as the previous graph but for different regions. For neighboring counties, only those that share a border, whether in-state or out-of-state, and are not part of the commuting zone were included. In this case, the selected counties are Eddy, Chaves and Roosevelt in New Mexico, and Andrews, Winkler and Loving in Texas. While barriers to grow may not be obvious for every industry, they could be more evident in some cases than in others.



How attractive is Lea's location for the industry?

Eddy County location attractiveness by industry

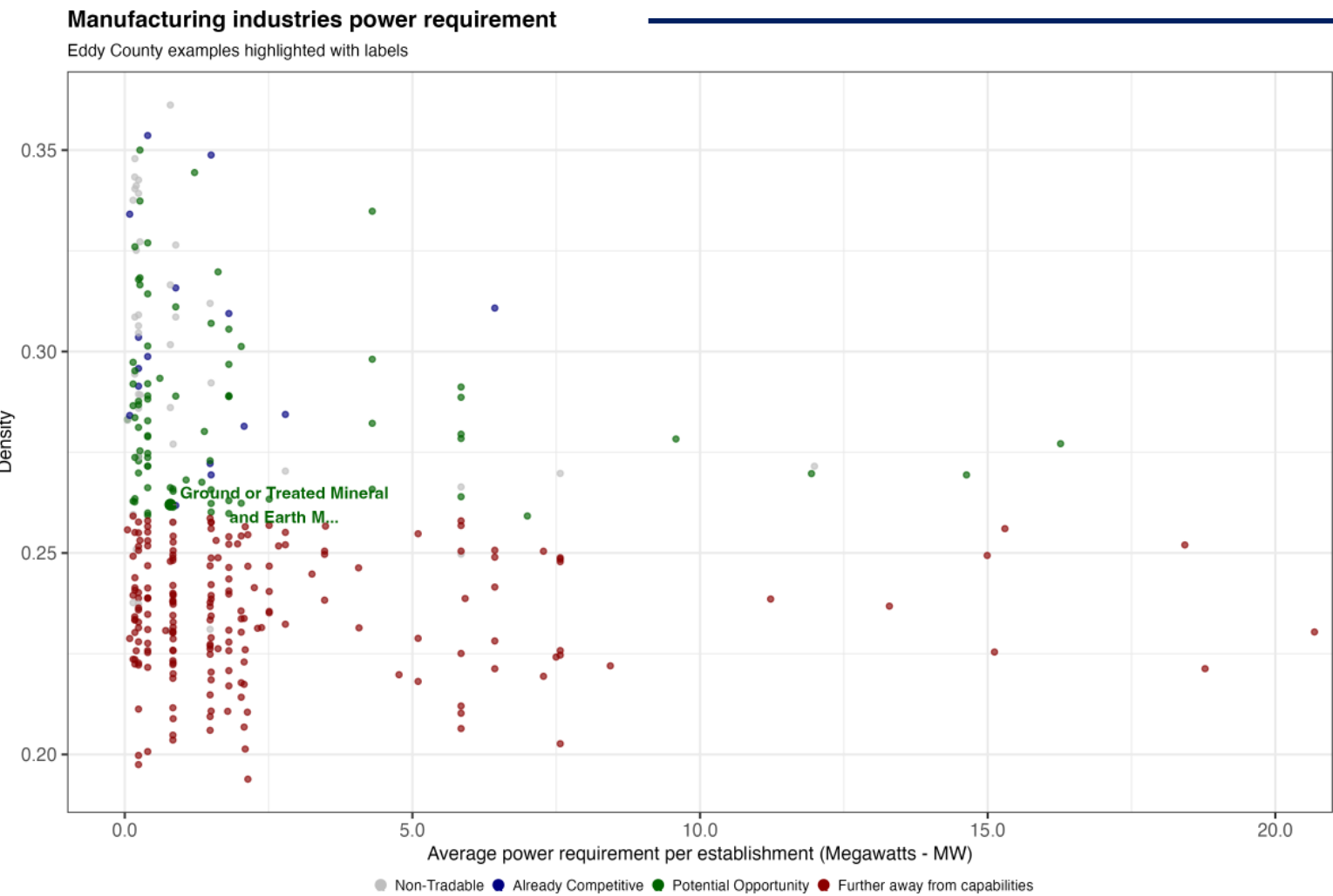
Eddy County examples highlighted with labels



The competitiveness of some industries depends more on proximity to inputs, while others rely on being close to consumers. By identifying each industry's main inputs and where they are produced and then calculating the driving time from the county to those locations, a "remoteness to inputs" score is created. A similar score for demand is based on the location of main consumers. Together, these scores allow the county's position to be ranked relative to others in terms of access to both inputs and markets.

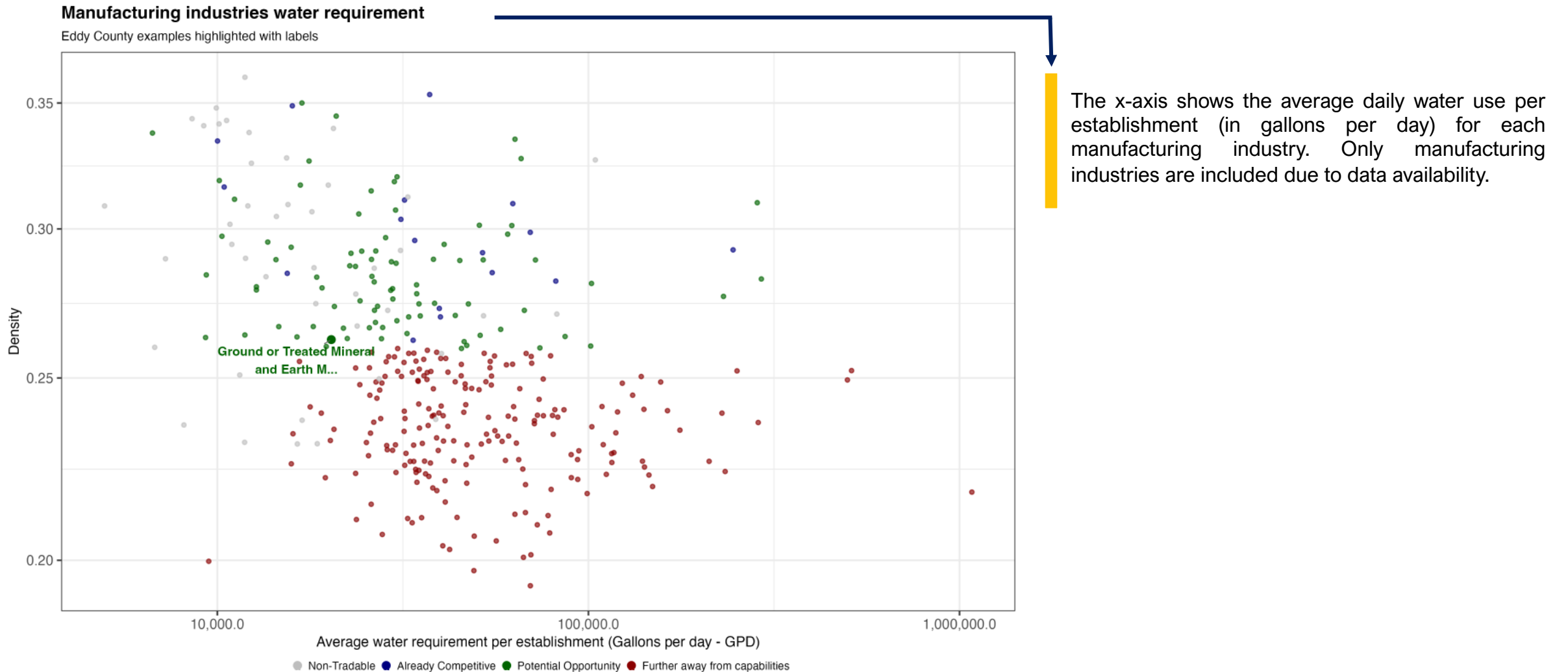
Lea's commuting zone is closer to the required inputs for "Ground or Treated Mineral and Earth Manufacturing" than almost 11% of U.S. counties, and closer to the demand than 15% of other counties.

Can Lea meet the electricity needs of the manufacturing industry?

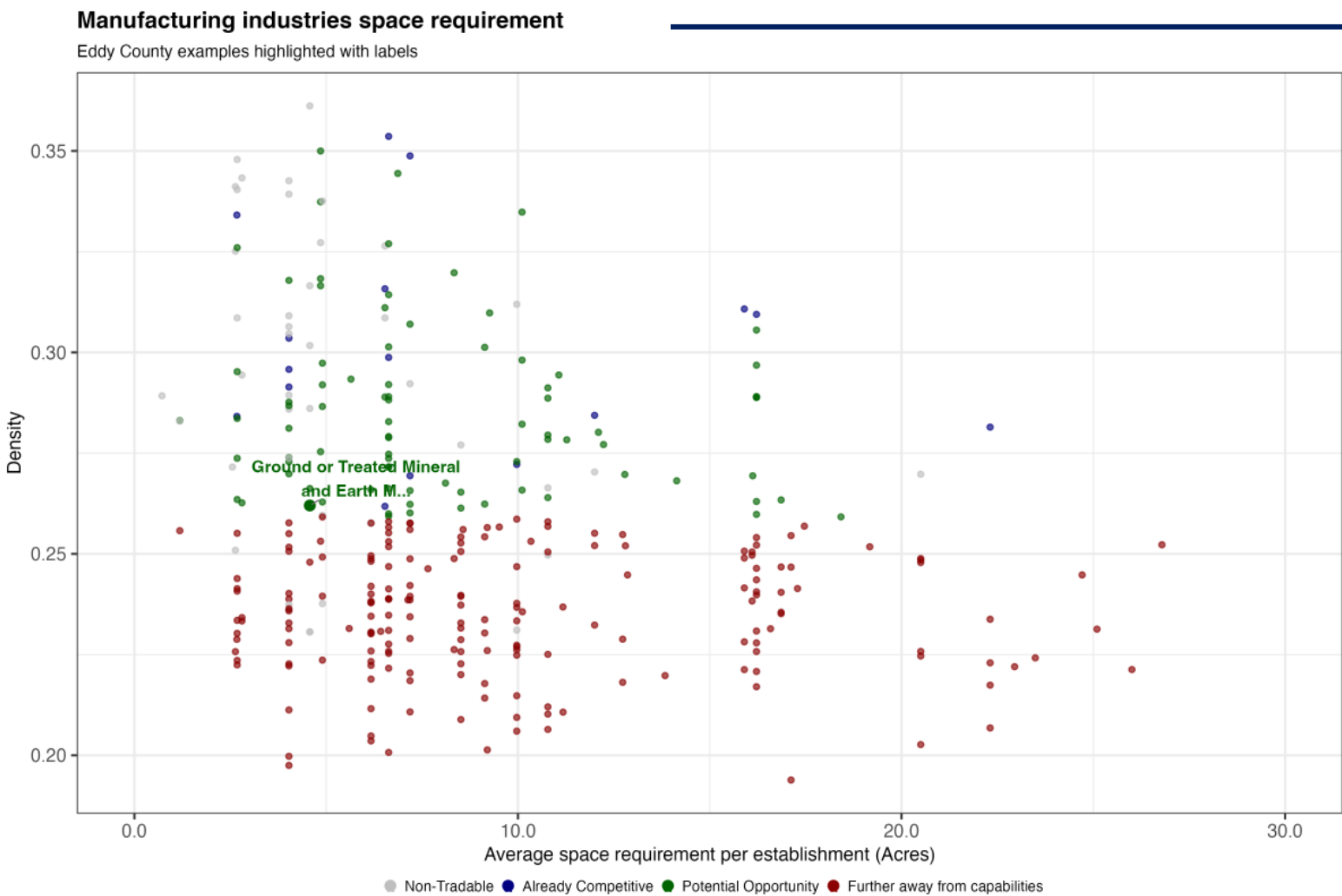


The x-axis shows the average power demand per establishment (in megawatts) for each manufacturing industry. Measuring in MW provides a standard metric to compare how much electricity a typical facility would draw from the grid during operating hours. Only manufacturing industries are included due to data availability. Some industries may be feasible with existing capacity and others could require major upgrades or entirely new infrastructure.

Is Lea equipped to supply the manufacturing industry with enough water?



Can Lea provide the necessary space for the manufacturing industry?



The x-axis shows the average land needed per establishment (in acres) for each manufacturing industry. These estimates assume low-density facilities, typically single-story buildings that are more spread out and need extra space for parking, trucks, and outdoor operations. Beyond utilities, communities must have suitable sites ready to host new or expanding businesses, with the right access to essential services.



Growth Lab

Identifying local opportunities: Lea County

January 2025