

REACH

Ideas + Action for a Thriving Central Coast

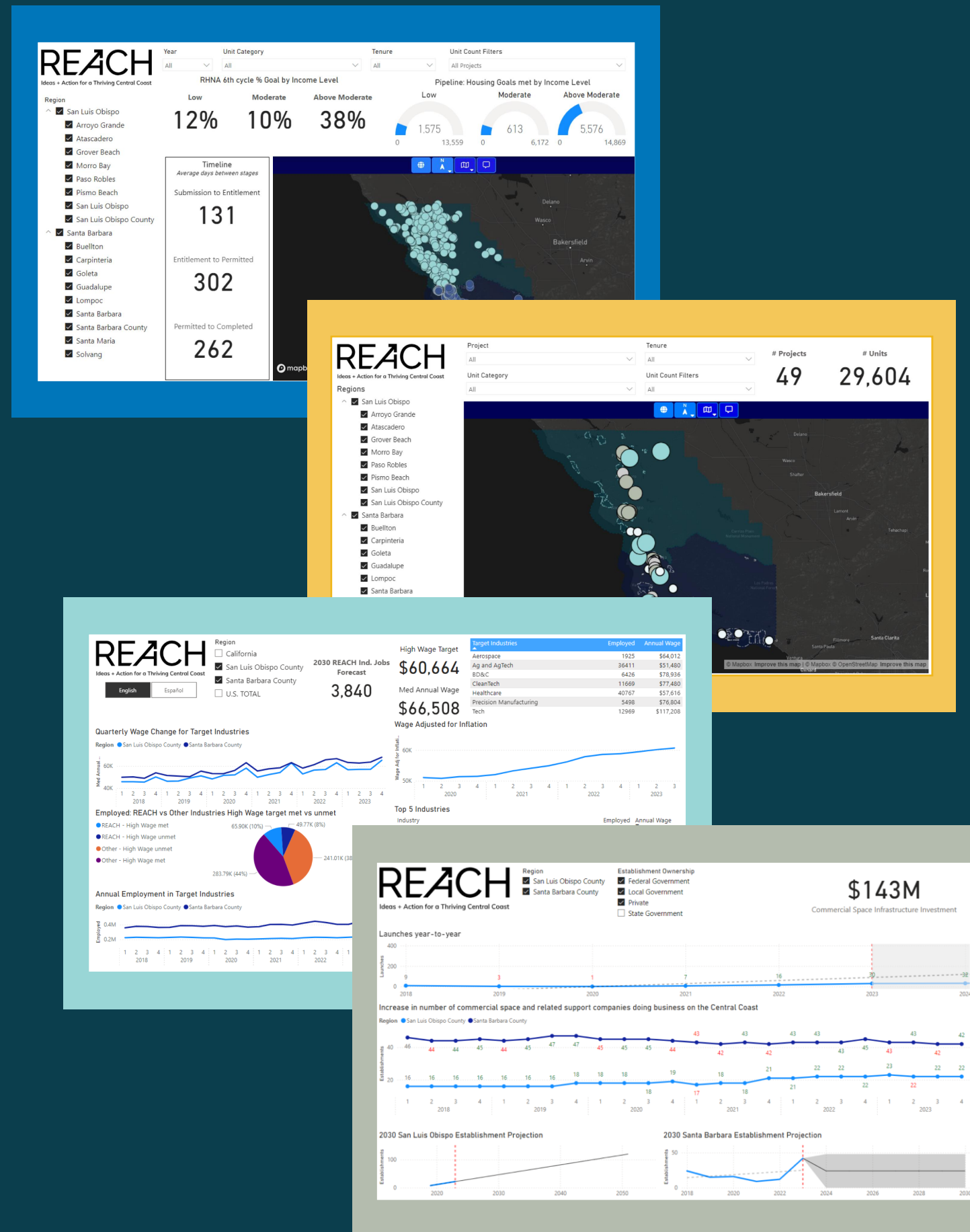
DATA + ANALYTICS HANDBOOK

OVERVIEW: p 2
DATA MGMT: p 3 - 6
REPORTS: p 7 - 12

by



VERSION: 2024OCT01



1. OVERVIEW

ABOUT

The REACH Data + Analytics resource is an integrated data management & data presentation system.

Enabling Technologies:

- ~ Data Management: SimpleBase
- ~ Data Presentation (dashboards): MS Power BI
- ~ Data Presentation (maps): SimpleLayers



DATA MANAGEMENT

The following capabilities are available:

Manage Tables

- ~ Create
- ~ Delete

Manage Table Columns + Rows

- ~ Create
- ~ Edit
- ~ Delete

DATA PRESENTATION

Dashboards

Modification of dashboards is done within Power BI. This work is performed by a contractor.

Maps



Modifications of maps is done within SimpleLayers. This work is presently performed by a contractor, but could be performed by REACH staff.

2. DATA MANAGEMENT

2.1 MANAGING TABLES

Select "SimpleBase" from the Power BI resource list in order to access the data management environment.

SimpleBase Table Editor

Available Tables  #manual 

Table

housing_proposed_projects_lookup	#manually_reported
jobs_forecast_naics4	#manually_reported
projected_launches	#manually_reported
reach_housing_projects	#manually_reported
reach_investments	#manually_reported

Diagram labels: A points to the filter bar, B points to the add button, and C points to the first table row.

TABLE SELECTOR

A) Filter Bar

Input "#_____" to filter the table list by tag









Or, omit the "#" in order to filter by name

B) Add New Table (see p5)



C) Table Selection --> Table Viewer

SimpleBase Table Editor

Table: housing_proposed_projects_lookup        

Name

housing_proposed_projects_lookup

Notes

#manually_reported

Tags are added in the Notes section

Row #	gid	project	county_geoid	
1	23	Dana Reserve	6079	San Luis
2	24	Woodlands	6079	San Luis
3	3	Vinedo	6079	San Luis
4	1	Shandon Community Plan	6079	San Luis
5	7	Town Center SP	6079	San Luis
6	18	Orcutt Area SP	6079	San Luis
7	8	Untown	6079	San Luis

TABLE VIEWER



Exit back to Table Selector



Toggle on/off column editor tool (see p4)



Toggle on/off inputs for Name/Notes



Database save/load functions (see p6)



Add record to table (see p4)



Copy/paste/overwrite functions (see p5)



Refresh from database



Delete table

2. DATA MANAGEMENT

2.2 MANAGING COLUMNS + ROWS



COLUMN EDITOR

{CREATE | EDIT | DELETE}



RECORD EDITOR

{CREATE | EDIT | DELETE}

The screenshot displays the SimpleBase Table Editor interface. At the top, the title bar reads "SimpleBase Table Editor". Below it, the "Column Properties" panel is visible, showing the "Column Name" as "county_geoid" and the "Column Type" as "Integer #". The "Sort" dropdown is set to "None". There are "Update Column" and "Delete Column" buttons. Below this panel is the "Table Columns" section, which includes a "+Add Column" button and a list of columns: "gid", "project", "county_geoid", "city", "city_gid", "number_units", "next_milestone", "next_milestone_date", and "link". The "county_geoid" column is highlighted in blue. A yellow callout box with the text "Column selection: Click the name of the desired column" points to the "county_geoid" column in the list. Another yellow callout box with the text "Column reordering: Click\drag up or down on the list via the gripper." points to the gripper icon (three horizontal lines) next to the "link" column. The main table area shows a table with columns "Row #", "gid", "project", and "county_geoid". The "county_geoid" column is also highlighted in blue in the table. A yellow callout box with the text "Column selection: Click the name of the desired column" points to the "county_geoid" column header in the table. The table contains 15 rows of data, including "Dana Reserve", "Woodlands", "Vinedo", "Shandon Community Plan", "Town Center SP", "Orcutt Area SP", "Uptown", "Froom Ranch", "Tank Farm Mixed Use SP", and "Santa Margarita Ranch".

Record Editor

gid

project

county_geoid

county

city

number_units

next_milestone

next_milestone_date

apn

Update Record

Delete Record

Record selection:
Click anywhere on
the desired row

NOTE



Column ordering & sorting is for local display only and will not save up to the database.

NOTE

"Update Record" only sends the data to the local table. The table must still be saved to the database at the end of the work session.

2. DATA MANAGEMENT

2.3 ADD NEW TABLE COPY/PASTE OPTIONS



ADD NEW TABLE

IMPORT FILE: Upload a CSV file (row-1 is treated as header row)

PASTE TABULAR DATA: Paste a selection from a spreadsheet (row-1 is treated as header row)

NEW EMPTY TABLE: Create a blank table



COPY/PASTE OPTIONS

COPY TABLE: Copy full table contents into buffer, for pasting into other applications.




PASTE RECORD TO END OF TABLE: Paste a selection from a spreadsheet into the end of an existing table. You will be prompted to specify if header row is included (not necessary if new data has same column order)

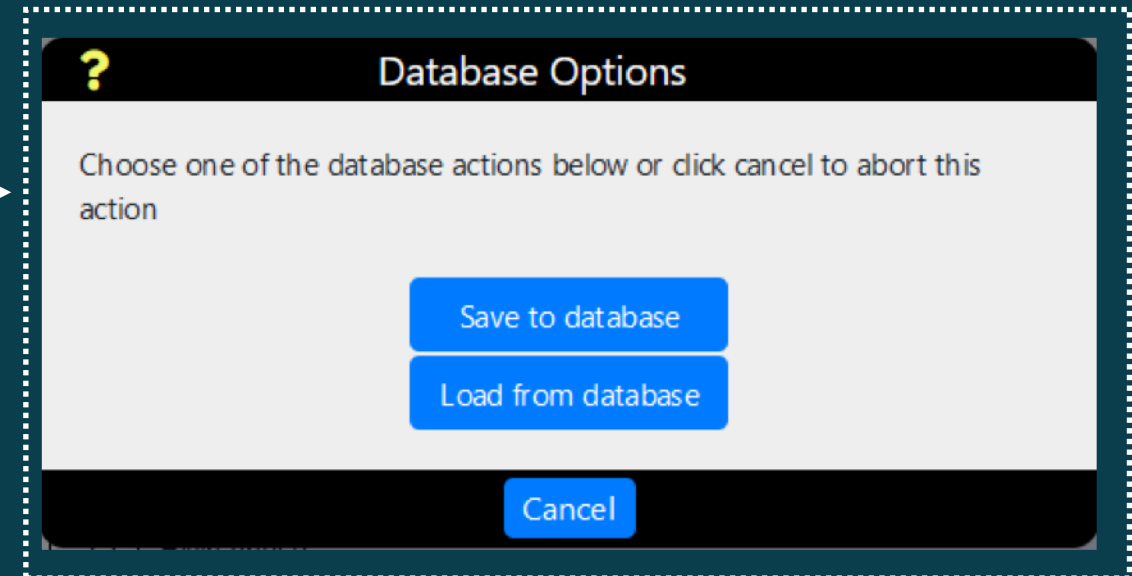
PASTE RECORDS TO REPLACE TABLE: Paste a selection from a spreadsheet to overwrite all table contents (row-1 is treated as header row)

2. DATA MANAGEMENT

2.4 DATABASE + SEMANTIC MODEL

WORKING WITH THE DATABASE

-  Changes made to a table are not permanent until they are saved to the database.
-  Changes may be discarded by exiting the table viewer
-  Or, the table may be reset via the refresh button



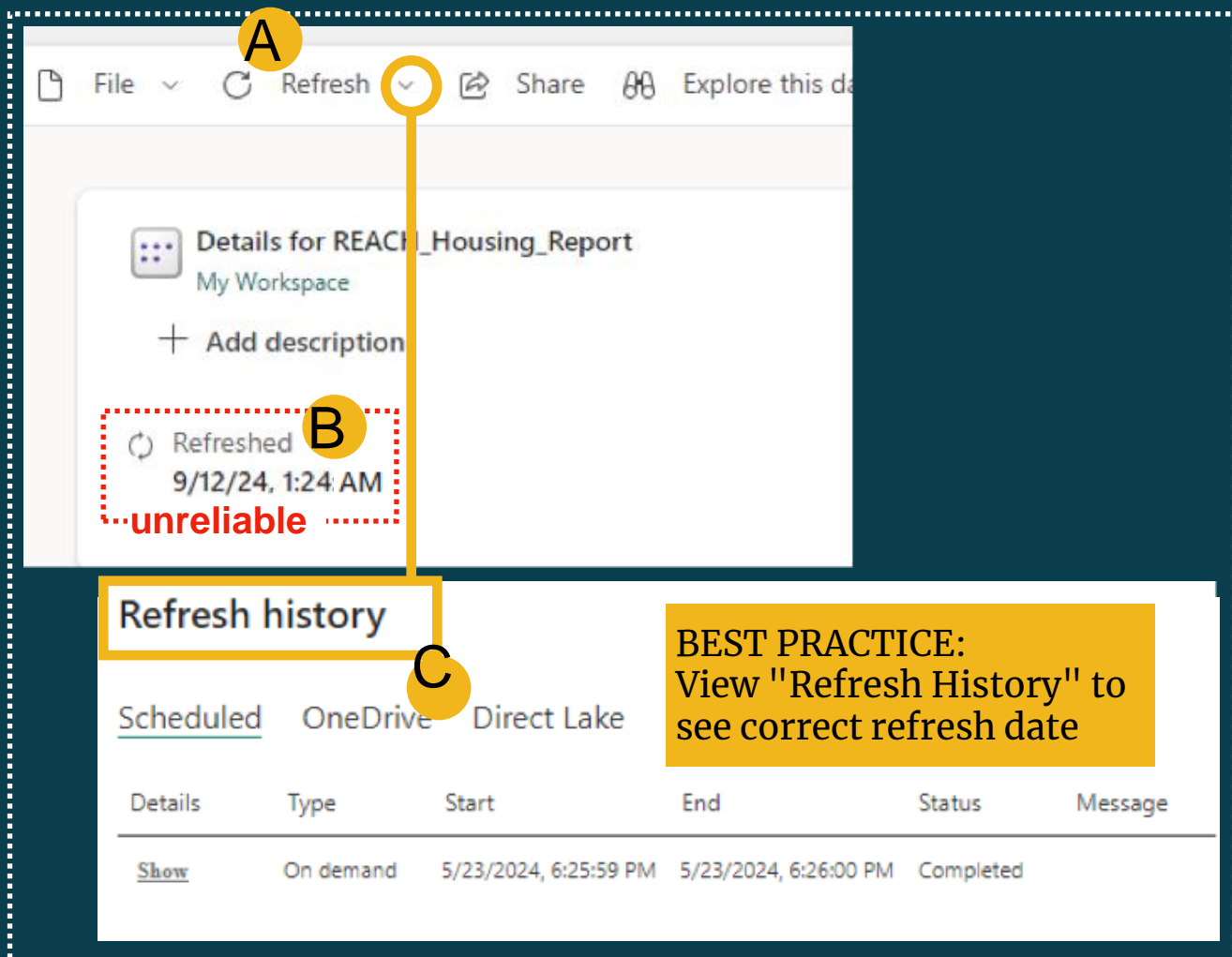
THE SEMANTIC MODEL

Changes saved to the database are not available in the reports until the semantic model is refreshed.

Find the semantic model for a specific report by searching in the PowerBI resource list. Then, click the "refresh" button (A) at the top.

NOTE

The "Refreshed" date shown (B) is unreliable. To see the correct refresh date, use the dropdown tool next to the refresh button to access the refresh history (C).



BEST PRACTICE:
View "Refresh History" to
see correct refresh date

3. REPORTS

3.1 HOUSING REPORT (RHNA)

Dropdown filters: Option to "clear selections" available via mouseover

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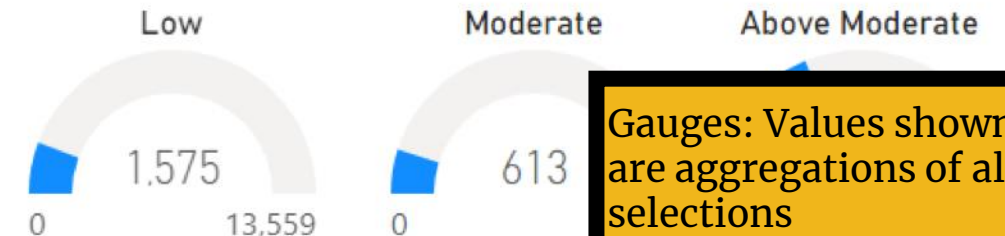
Year: All Unit Category: All Tenure: All Unit Count Filters: All Projects

RHNA 6th cycle % Goal by Income Level

Pipeline: Housing Goals met by Income Level

- Region
- ☒ San Luis Obispo
 - ☒ Arroyo Grande
 - ☒ Atascadero
 - ☒ Grover Beach
 - ☒ Morro Bay
 - ☒ Paso Robles
 - ☒ Pismo Beach
 - ☒ San Luis Obispo
 - ☒ San Luis Obispo County
 - ☒ Santa Barbara
 - ☒ Buellton
 - ☒ Carpinteria
 - ☒ Goleta
 - ☒ Guadalupe
 - ☒ Lompoc
 - ☒ Santa Barbara

Low: 12% Moderate: 10% Above Moderate: 38%



Gauges: Values shown are aggregations of all selections

Timeline

Average days between stages

Submission to Entitlement

131

Entitlement to Permitted

302

Permitted to Completed

262

Filters: Deselecting all options has the same effect as selecting *all* options.

POP-UP

CENTENNIAL GARDENS APTS BLDG 4 (24) UNITS - KITCHEN, ...

5 or More Units Per Structure Renter

Units per Income Level

Submitted | Entitled | Permitted | Completed

Low	Moderate	Above Moderate
0 0 24 0	0 0 0 0	0 0 0 0

Submission Date

--

Permit Date

February 1, 2022

Entitlement Date

--

Completion Date

--

Map Usage:

> Points on map reflect "region" checkboxes. Some regions have no data.

> No points showing?
~ clear all filter selections

> Pop-up is flickering?
~ mouse-off, mouse-on

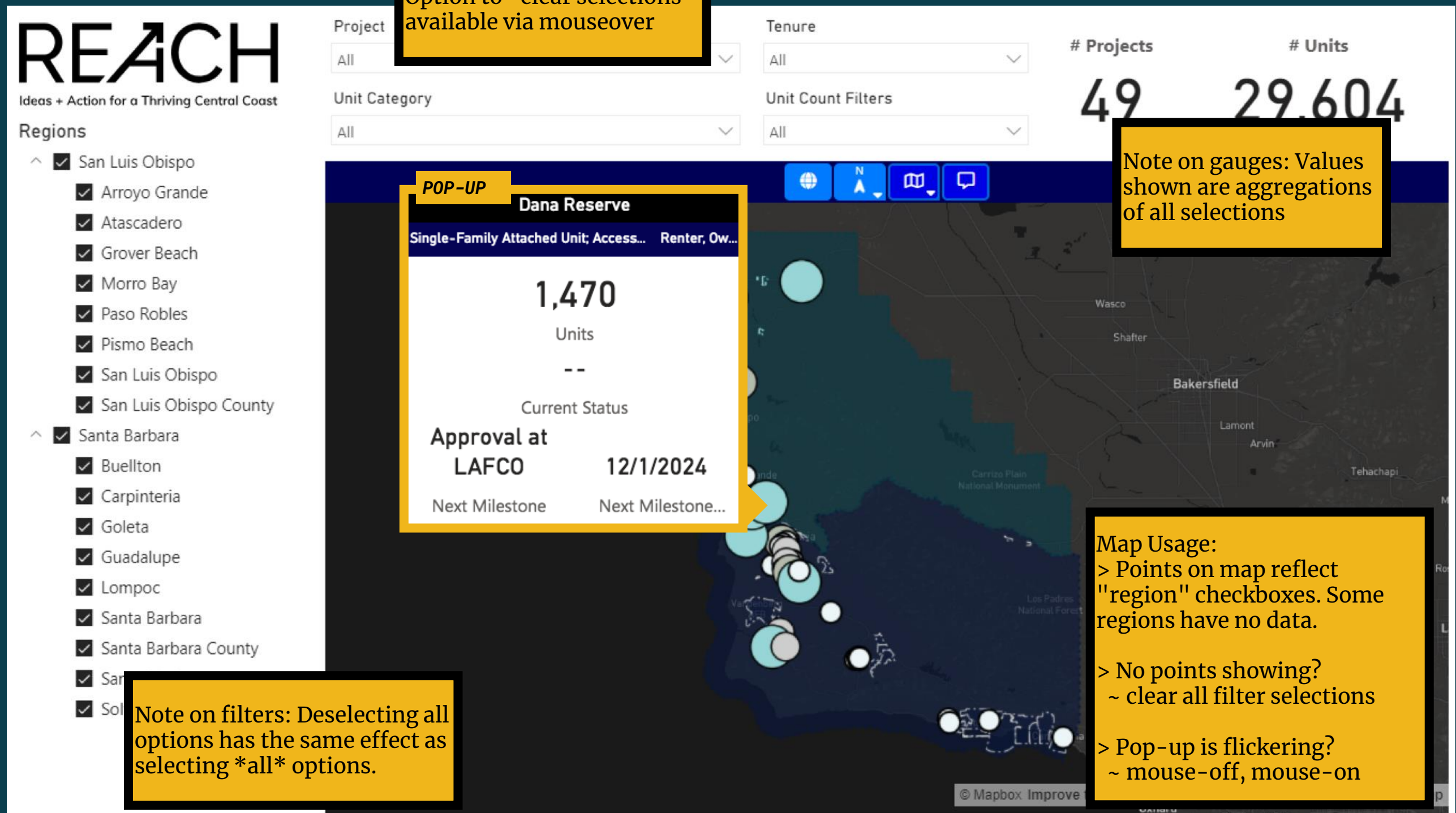
mapbox

© Mapbox Improve th

LOSA

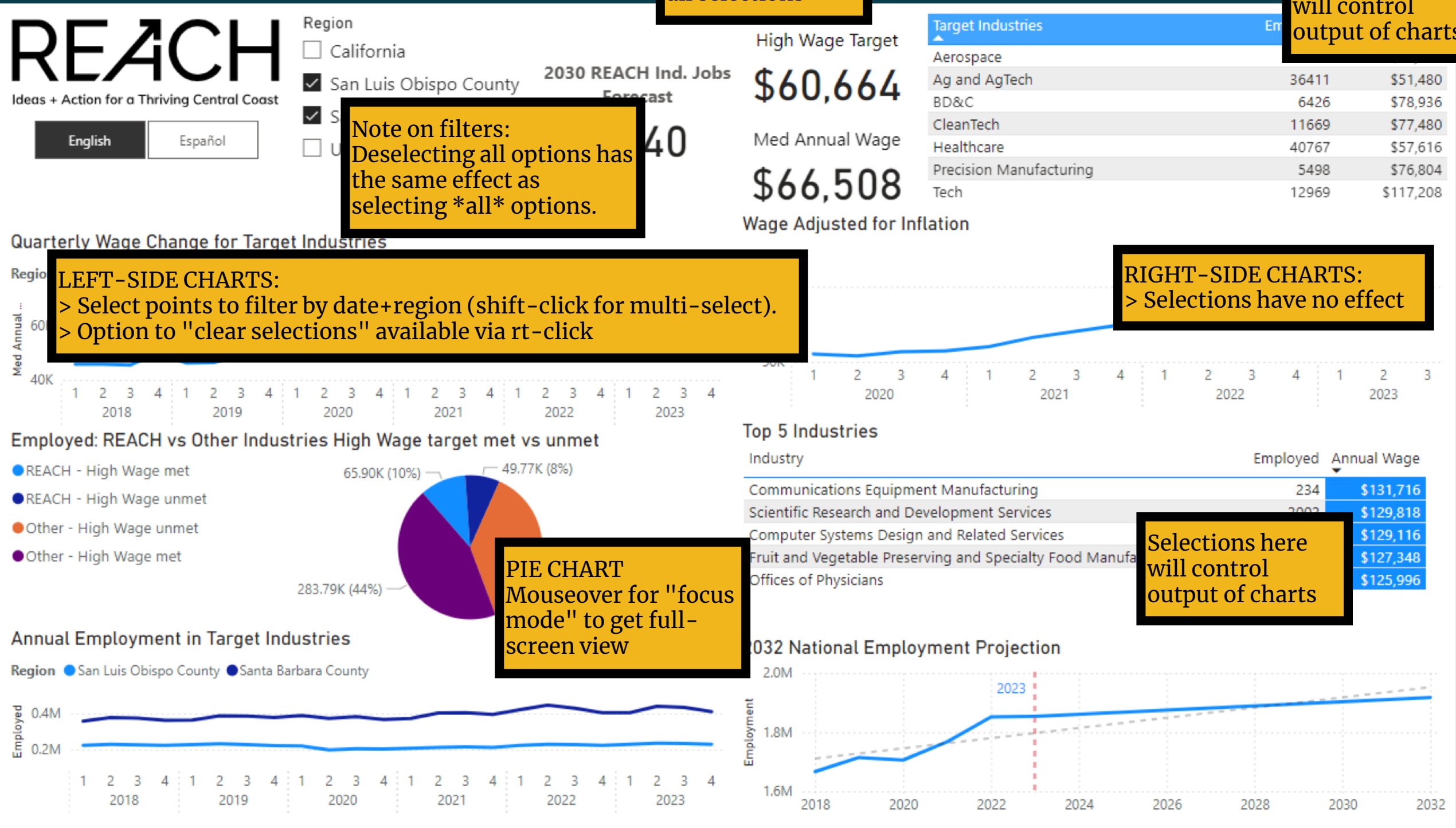
3. REPORTS

3.2 HOUSING REPORT (PROPOSED)



3. REPORTS

3.3 JOBS REPORT



3. REPORTS

3.4 SPACE COM VFSB REPORT

Note on filters: Deselecting all options has the same effect as selecting *all* options.

Note on gauges: Values shown are aggregations of all selections

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- Region

 - ☒ San Luis Obispo County
 - ☒ Santa Barbara County
- Establishment Ownership

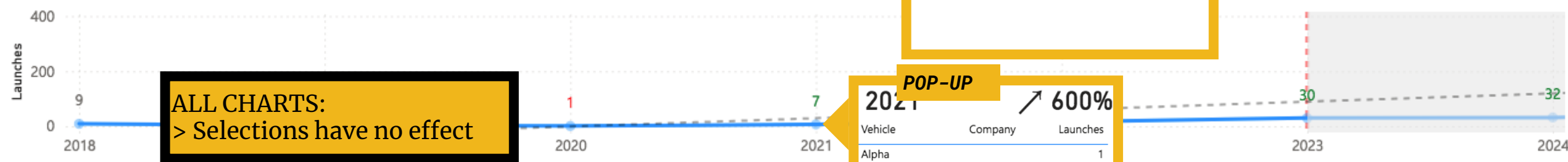
 - ☒ Federal Government
 - ☒ Local Government
 - ☒ Private
 - ☐ State Government

POP-UP

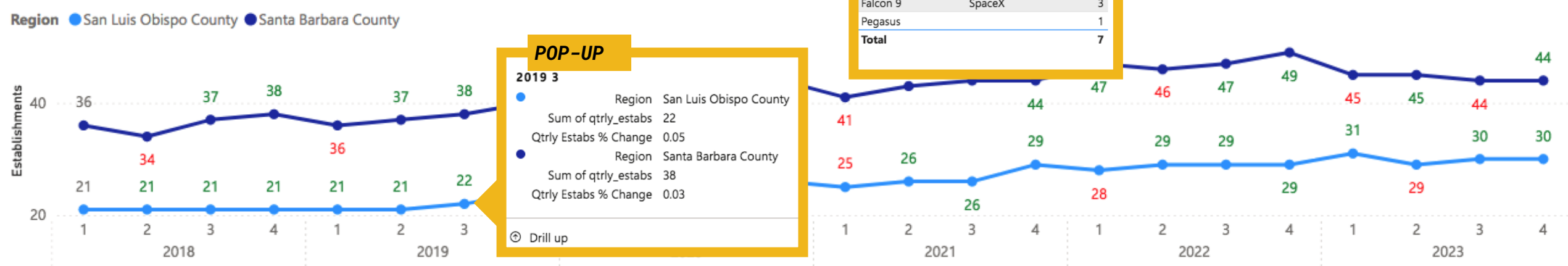
Source	Total Funding
Federal Broadband Grant for Paso Robles	\$3,000,000
Federal Legislation - Payload Processing	\$80,000,000
State Tax Credits for Space R&D	\$60,000,000
Total	\$143,000,000

\$143M
Commercial Space Infrastructure Investment

Launches year-to-year



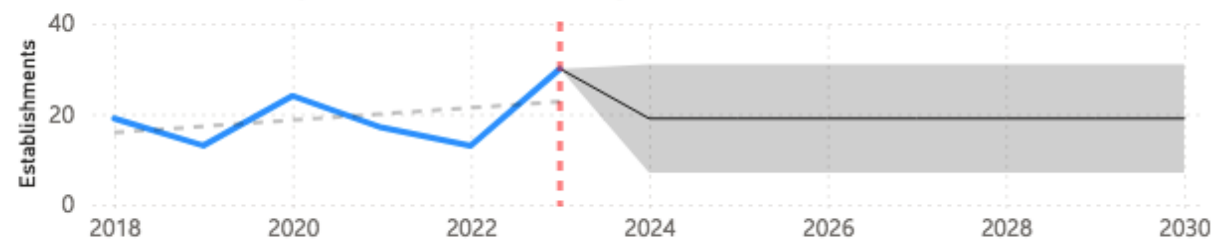
Increase in number of commercial space and related support companies doing business on



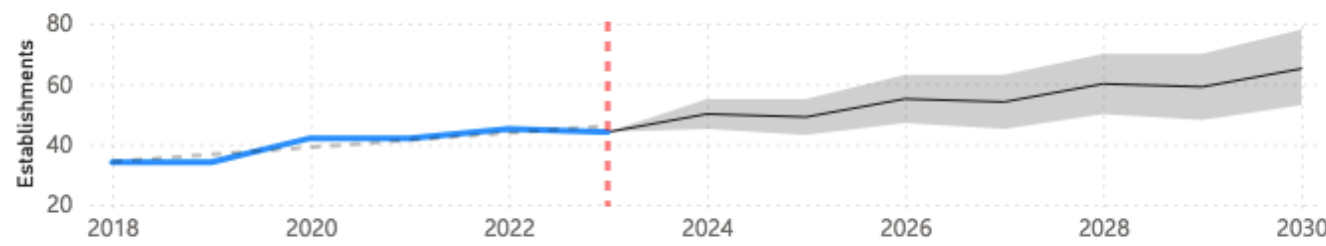
POP-UP

Vehicle	Company	Launches
Alpha		1
Atlas V		1
Delta IV Heavy		1
Falcon 9	SpaceX	3
Pegasus		1
Total		7

2030 San Luis Obispo Establishment Projection

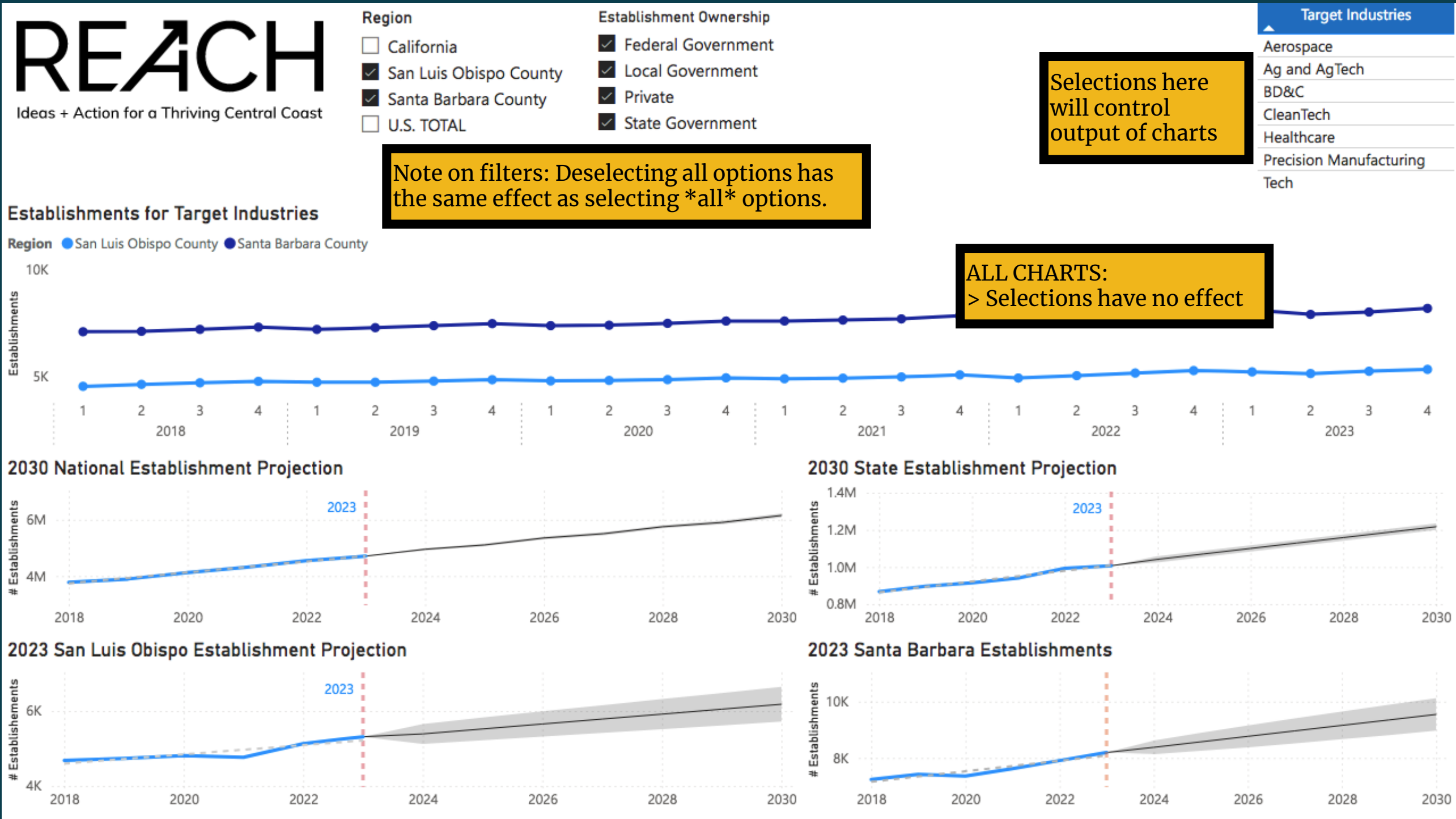


2030 Santa Barbara Establishment Projection



3. REPORTS

3.5 ESTABLISHMENTS REPORT



3. REPORTS

3.6 DOLLARS INVESTED REPORT

