## Mapping San Luis Obispo's Economic Specializations

LQ Analysis with QCEW Data

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This project explores the industrial compostion of San Luis Obispo (SLO) county by using Location Quotients (LQs) to identify industries that are more concentrated locally compared to the national economy. This purpose is to determine which sub-sectors and industries play a disproportionately significant role in SLO County's economy.

## 1. Loading and Preparing the Data

To begin this process, we loaded three data sets:

```
if (download) {
    slo_county <- qcew_area(year, qtr, fips_county)
    national <- qcew_area(year, qtr, fips_national)
} else {
    slo_county <- read_csv("data/slo.csv")
    national <- read_csv("data/us.csv")
}</pre>
```

```
chr (6): area_fips, industry_code, qtr, disclosure_code, lq_disclosure_code...
dbl (32): own_code, agglvl_code, size_code, year, annual_avg_estabs, annual_...

i Use `spec()` to retrieve the full column specification for this data.
i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
naics <- read_xlsx("data/naics.xlsx") %>%
  select(2:3) %>%
  rename(codes = 1, title = 2) %>%
  drop_na()
```

## New names:

- \* `` -> `...4`
- \* `` -> `...5`