

Illinois_Complete_Streets

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```
il_municipalities <- read_sf("IL_ADMIN_Municipality_2000_Py")
chicagoland_municipalities <- read_sf("Municipalities_Northeastern_Illinois_2024") %>%
  rename(Municipality = muni)

# assume il_municipalities is the full-state shapefile you loaded earlier
# and chicagoland_municipalities is just the NE-IL subset

ggplot() +
  # 1) draw the whole state in a light grey
  geom_sf(
    data      = il_municipalities,
    fill      = "#EEEEEE",
    color     = "#CCCCCC",
    size      = 0.2,
    inherit.aes = FALSE
  ) +
  # 2) then overlay only the NE-IL municipalities in white with darker borders
  geom_sf(
    data      = chicagoland_municipalities,
    fill      = "#FFFFFF",
    color     = "#333333",
    size      = 0.3,
    inherit.aes = FALSE
  ) +
  labs(
    title = "Chicago-Land Municipalities in Context of Full Illinois"
  ) +
  theme_minimal() +
  theme(
    plot.title   = element_text(size = 16, face = "bold", hjust = 0.5),
    axis.text    = element_blank(),
    axis.ticks   = element_blank(),
    panel.grid   = element_blank()
  )
```

Chicago–Land Municipalities in Context of Full Illinois



```
CMAP_CS_data <- read_csv("Comp Plan Includes Bike_Ped.csv")  
  
# 3) Join the CSV attributes onto the sf  
chicago_cs_map <- chicagoland_municipalities %>%  
  left_join(CMAP_CS_data, by = "Municipality")
```

```
ggplot() +  
  # full-state backdrop  
  geom_sf(  
    data      = il_municipalities,  
    fill      = "#F5F5F5",  
    color     = "#CCCCCC",  
    size      = 0.2,  
    inherit.aes = FALSE  
) +  
  # NE-IL municipalities colored by CS plan/policy  
  geom_sf(  
    data      = chicago_cs_map,  
    aes(fill   = `Complete Streets Plan/Policy`),  
    color     = "#333333",  
    size      = 0.3,  
    inherit.aes = FALSE  
) +  
  scale_fill_manual(  
    values = c("Yes" = "#1f78b4", "No" = "#e31a1c"),
```

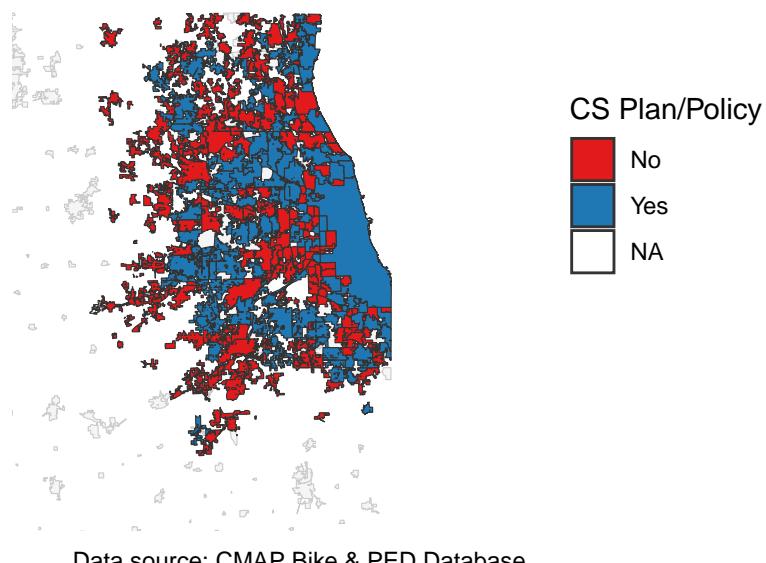
```

    na.value = "#FFFFFF",
    name      = "CS Plan/Policy"
) +
labs(
  title     = "Complete Streets Plan/Policy Adoption in Northeastern Illinois",
  subtitle  = "Colored by whether each municipality has a CS plan/policy",
  caption   = "Data source: CMAP Bike & PED Database"
) +
coord_sf(
  xlim     = c(-89, -87),  # min & max longitude around Chicagoland
  ylim     = c(41, 43),    # min & max latitude around Chicagoland
  expand   = FALSE
) +
theme_minimal() +
theme(
  plot.title     = element_text(size = 16, face = "bold", hjust = 0.5),
  plot.subtitle  = element_text(size = 12, hjust = 0.5),
  axis.text      = element_blank(),
  axis.ticks     = element_blank(),
  panel.grid     = element_blank()
)

```

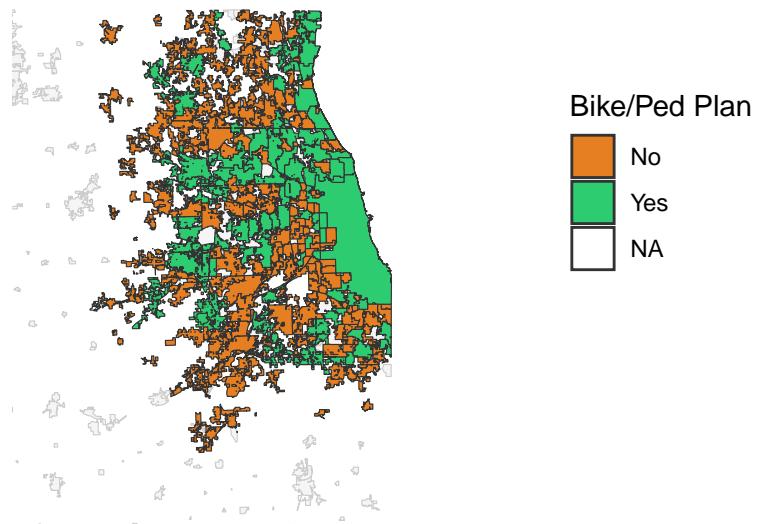
Complete Streets Plan/Policy Adoption in Northeastern Illinois

Colored by whether each municipality has a CS plan/policy



Bike/Ped Plan Adoption in Northeastern Illinois

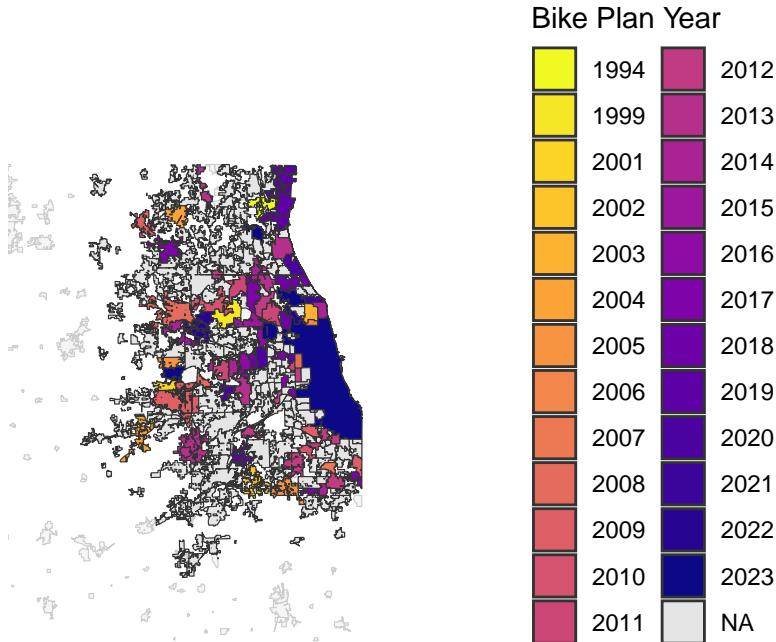
Colored by whether each municipality has a Bike/Ped plan



Data source: CMAP Bike & PED Database

Choropleth of Bike Plan Adoption Year in Northeastern Illinois

Municipalities colored by the year their Bike Plan was written

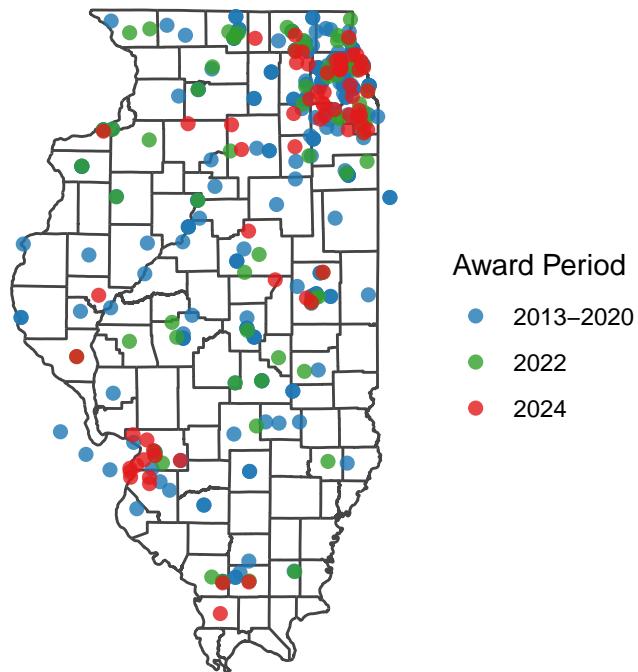


Data source: CMAP Bike & PED Database

```
ITEP_20132020 <- read_csv(  
  "ITEP_20132020_Awarded.csv",  
  col_select = 1:23,  
  n_max      = 223  
)  
  
ITEP2022 <- read_csv(  
  "ITEP2022.csv",  
  col_names = FALSE          # read every line as data  
) %>%  
  row_to_names(row_number = 2) # use the 2nd row for names  
  
ITEP2024 <- read_csv(  
  "ITEP2024.csv",  
  col_names = FALSE          # read every line as data  
) %>%  
  row_to_names(row_number = 6) # use the 2nd row for names
```

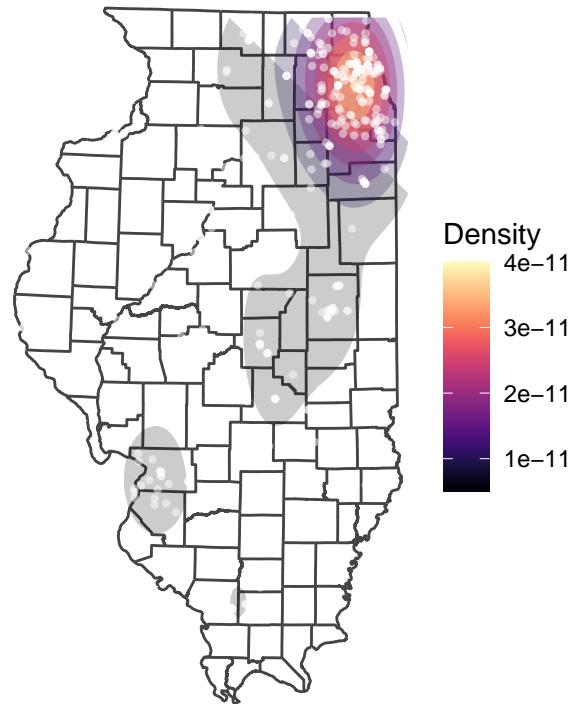
ITEP Project Locations by Award Period

Overlaid on Illinois County Boundary



Kernel Density of ITEP Project Locations (2013–2024)

Projected into NAD83 / Illinois East (ftUS)



```
library(dplyr)

# 1. Extract year from Cycle_Date and aggregate Project_Total
ITEP_20132020_summary <- ITEP_20132020 %>%
  mutate(
    Year = as.integer(gsub(".*(\d{4})$", "\1", Cycle_Date)),
    # Use Approved_Federal_Funds for specific years, otherwise Project_Total
    Funding_Amount = case_when(
      Year %in% c(2013, 2016, 2018) ~ as.numeric(gsub("[^0-9.]", "", Approved_Federal_Funds)),
      TRUE ~ as.numeric(gsub("[^0-9.]", "", Project_Total))
    )
  ) %>%
  group_by(Year) %>%
  summarise(Total_Project_Funds = sum(Funding_Amount, na.rm = TRUE))

ITEP2022_summary <- ITEP2022 %>%
  mutate(`Total Funds Awarded` = as.numeric(gsub("[^0-9.]", "", `Total Funds Awarded`))) %>%
  summarise(Year = 2022, Total_Project_Funds = sum(`Total Funds Awarded`, na.rm = TRUE))

# 3. Aggregate Total Funds Awarded for 2024 with numeric conversion
ITEP2024_summary <- ITEP2024 %>%
  mutate(`Total Funds Awarded` = as.numeric(gsub("[^0-9.]", "", `Total Funds Awarded`))) %>%
  summarise(Year = 2024, Total_Project_Funds = sum(`Total Funds Awarded`, na.rm = TRUE))

# 4. Combine all into one data frame
ITEP_all_years_summary <- bind_rows(
```

```

ITEP_20132020_summary,
ITEP2022_summary,
ITEP2024_summary
) %>%
  arrange(Year)

# Display result
print(ITEP_all_years_summary)

## # A tibble: 6 x 2
##   Year Total_Project_Funds
##   <dbl>             <dbl>
## 1 2013            48265390
## 2 2016            22166810
## 3 2018            21440600
## 4 2020            194168530
## 5 2022            129638813
## 6 2024            139187851

# If not already a dataframe
ITEP_all_years_summary <- data.frame(
  Year = c(2013, 2016, 2018, 2020, 2022, 2024),
  Total_Project_Funds = c(48265390, 22166810, 21440600, 194168530, 129638813, 139187851)
)

# Plot
ggplot(ITEP_all_years_summary, aes(x = factor(Year), y = Total_Project_Funds)) +
  geom_bar(stat = "identity", fill = "#1f78b4") +
  labs(
    title = "ITEP Total Project Funds by Year",
    x = "Year",
    y = "Total Project Funds (USD)"
  ) +
  scale_y_continuous(labels = scales::comma) +
  theme_minimal(base_size = 14)

```

ITEP Total Project Funds by Year

