

Gráfico de barras y puntos

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```
library(ggplot2)
```

```
## Warning: package 'ggplot2' was built under R version 4.4.3
```

```
library(readxl)
library(dplyr)
```

```
## Warning: package 'dplyr' was built under R version 4.4.3
```

```
##
```

```
## Adjuntando el paquete: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
```

```
##
```

```
##      filter, lag
```

```
## The following objects are masked from 'package:base':
```

```
##
```

```
##      intersect, setdiff, setequal, union
```

```
library(tidyr)
```

```
# 1. Cargar datos
```

```
df <- read_excel("C:\\Users\\juanr\\OneDrive\\Escritorio\\Beta - Barras y puntos\\Barras y puntos.xlsx")
colnames(df) <- trimws(colnames(df))
```

```
# 2. Filtrar clústeres
```

```
clusters <- c("San Andrés", "Promedio Cluster 2", "Promedio Cluster 3",
              "Promedio Cluster 4", "Promedio Cluster 5")
```

```
df_largo <- df %>%
```

```
  filter(Cluster %in% clusters) %>%
```

```
  pivot_longer(cols = -c(Cluster, Periodo),
               names_to = "Sector",
               values_to = "Valor") %>%
```

```
  mutate(
```

```
    Tipo = ifelse(Periodo == "2006 - 2019", "Barra", "Punto"),
```

```
    Grupo = gsub("^Promedio ", "", Cluster) # Quitar "Promedio " si existe
```

```
  )
```

```

# 3. Establecer orden fijo de sectores basado en San Andrés
orden_fijo <- df_largo %>%
  filter(Cluster == "San Andrés") %>%
  pull(Sector) %>%
  unique()

df_largo$Sector <- factor(df_largo$Sector, levels = orden_fijo)

# 4. Generar y guardar gráfico por grupo
grupos <- unique(df_largo$Grupo)

for (grupo in grupos) {
  datos_grupo <- df_largo %>% filter(Grupo == grupo)

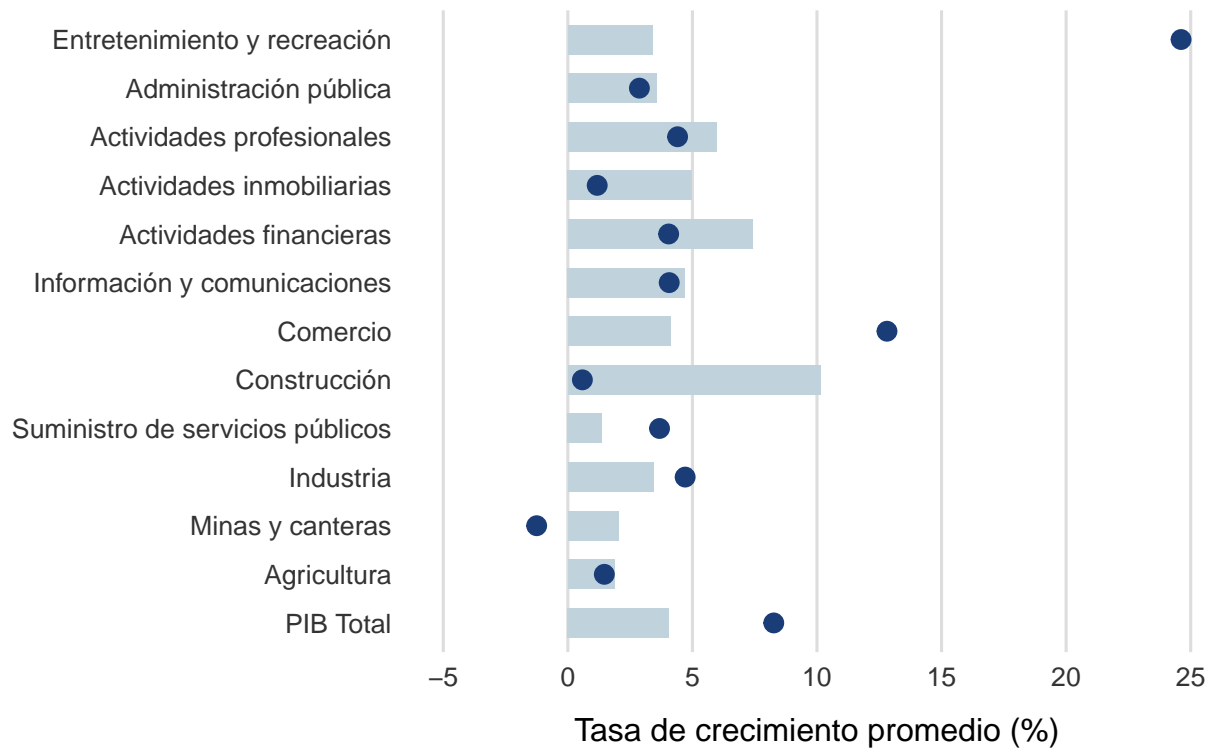
  p <- ggplot() +
    geom_col(data = filter(datos_grupo, Tipo == "Barra"),
      aes(x = Valor, y = Sector),
      fill = "#c0d2db", width = 0.6) +
    geom_point(data = filter(datos_grupo, Tipo == "Punto"),
      aes(x = Valor, y = Sector),
      color = "#1a3d78", size = 3) +
    scale_x_continuous(breaks = seq(-5, 25, by = 5), limits = c(-5, 25)) +
    labs(
      title = paste("Crecimiento medio por sector -", grupo),
      subtitle = "Barra: 2006 - 2019 | Punto: 2021 - 2024",
      x = "Tasa de crecimiento promedio (%)",
      y = NULL
    ) +
    theme_minimal(base_size = 12) +
    theme(
      plot.title = element_text(face = "bold", size = 14, color = "#333333"),
      plot.subtitle = element_text(size = 11, color = "#555555"),
      axis.text = element_text(color = "#333333"),
      axis.title.x = element_text(margin = margin(t = 10)),
      panel.grid.major.y = element_blank(),
      panel.grid.minor = element_blank(),
      panel.grid.major.x = element_line(color = "#DDDDDD"),
      plot.background = element_rect(fill = "white", color = NA)
    )

  # Mostrar gráfico
  print(p)
}

```

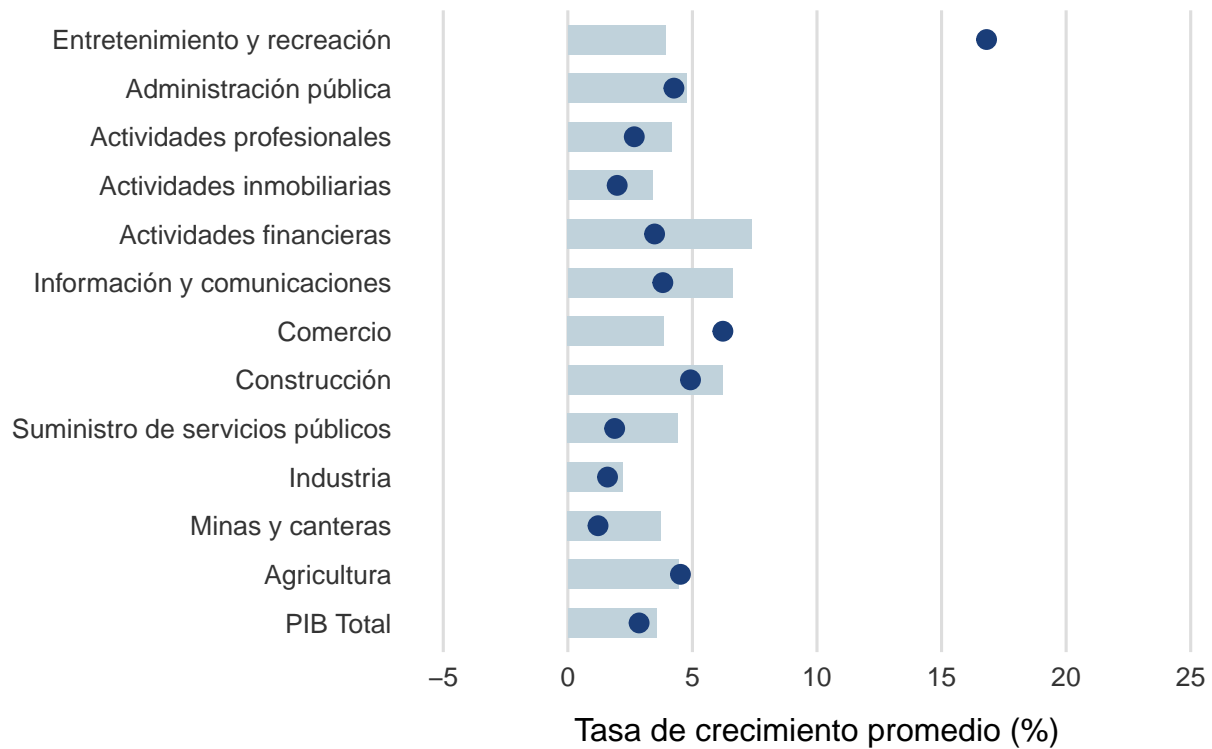
Crecimiento medio por sector – San Andrés

Barra: 2006 – 2019 | Punto: 2021 – 2024



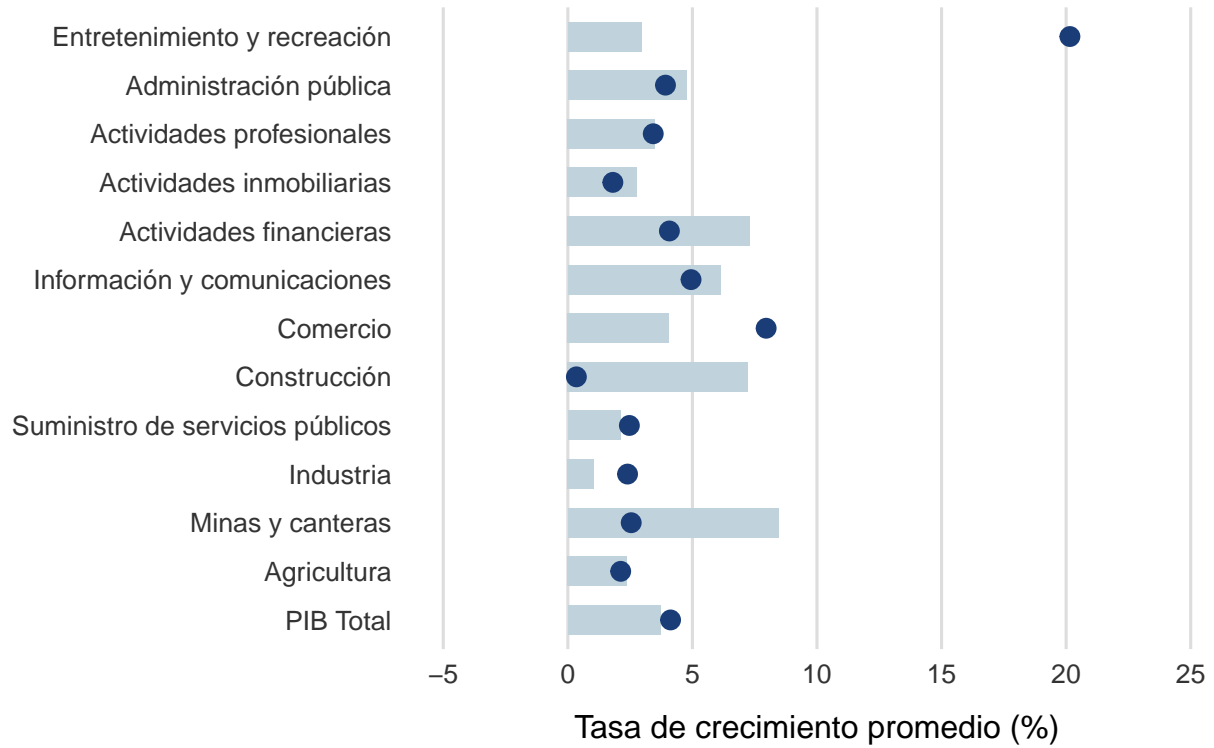
Crecimiento medio por sector – Cluster 2

Barra: 2006 – 2019 | Punto: 2021 – 2024



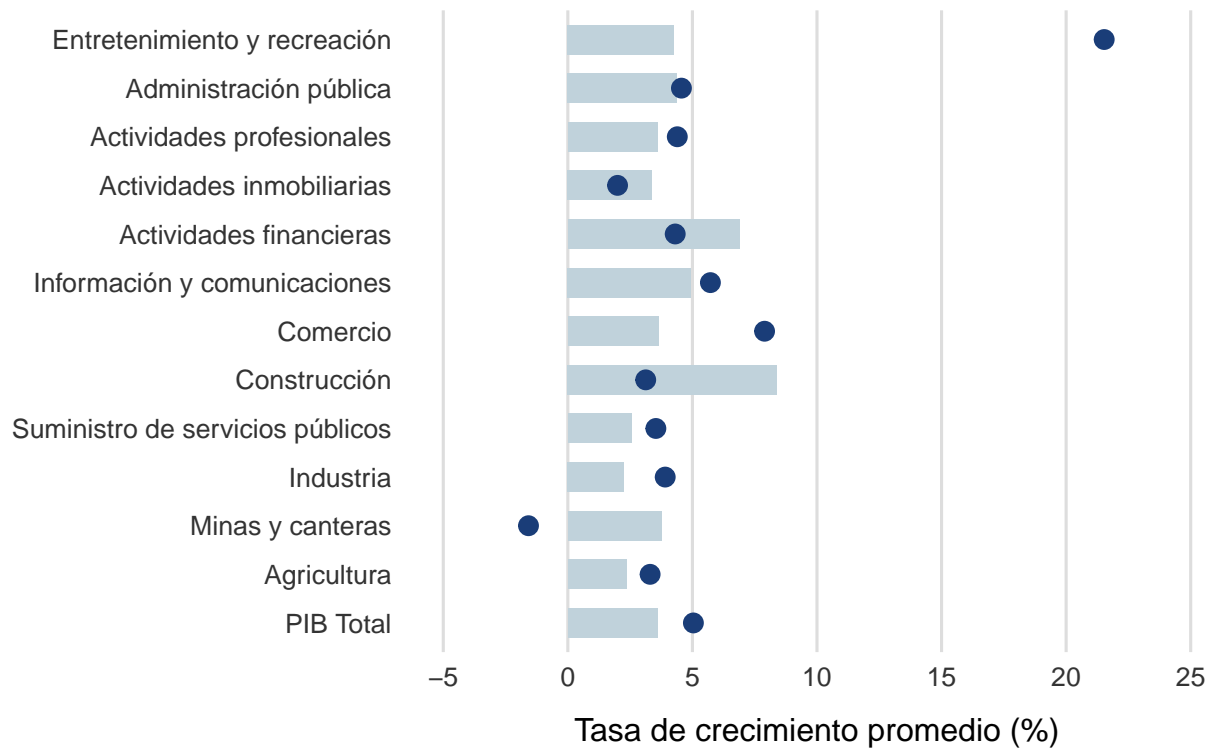
Crecimiento medio por sector – Cluster 3

Barra: 2006 – 2019 | Punto: 2021 – 2024



Crecimiento medio por sector – Cluster 4

Barra: 2006 – 2019 | Punto: 2021 – 2024



Crecimiento medio por sector – Cluster 5

Barra: 2006 – 2019 | Punto: 2021 – 2024

