El Cerrito Data in Pictures

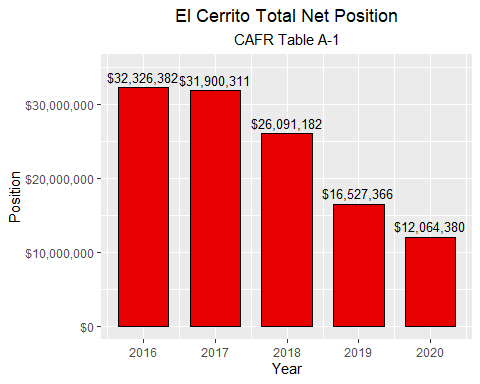
Ira Sharenow

7/28/2021

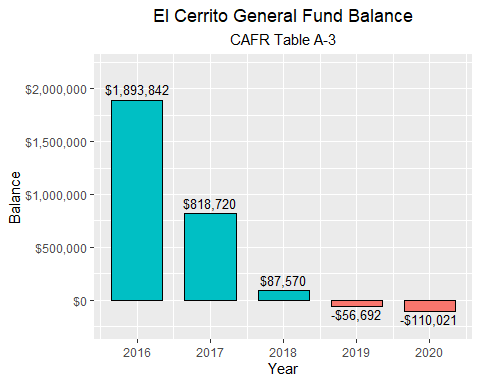
knitr::opts\_chunk$set(echo = TRUE)

library(dplyr)  
library(ggplot2)  
library(scales)  
library(ggrepel)  
  
theme\_update(plot.title = element\_text(hjust = 0.5)) # Center all titles

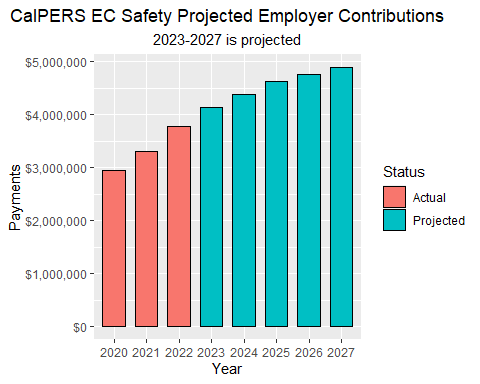
total\_net\_position =   
 data.frame(Year = 2016:2020,   
 Position = c(32326382, 31900311, 26091182, 16527366, 12064380))  
  
ggplot(total\_net\_position, aes(x = Year, y = Position)) +   
 geom\_col(fill = rgb(0.9, 0, 0), color = "black", width = 0.7) +   
 ggtitle("El Cerrito Total Net Position",   
 subtitle = "CAFR Table A-1") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 geom\_text(aes(label = dollar(Position)), size = 3.5, vjust = -0.5) +  
 scale\_y\_continuous(labels = dollar, limits = c(0, 35000000))



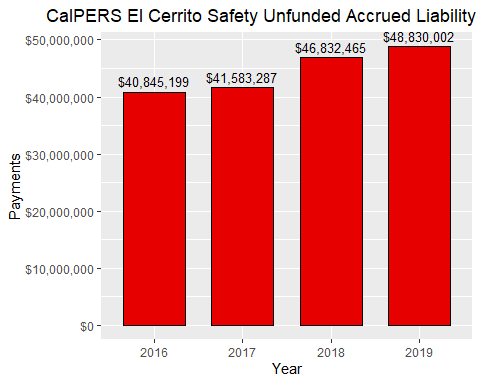
gf =   
 data.frame(Year = 2016:2020,   
 Balance = c(1893842, 818720, 87570, -56692, -110021),  
 pos = c(TRUE, TRUE, TRUE, FALSE, FALSE))  
  
ggplot(gf, aes(x = Year, y = Balance, fill = pos)) +   
 geom\_col(color = "black", width = 0.7) +   
 ggtitle("El Cerrito General Fund Balance",   
 subtitle = "CAFR Table A-3") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 theme(legend.position = "none") +  
 geom\_text(aes(label = dollar(Balance), vjust = ifelse(Balance >= 0, -0.5, 1.2)), size = 3.5)+  
 scale\_y\_continuous(labels = dollar, limits = c(-250000, 2200000))



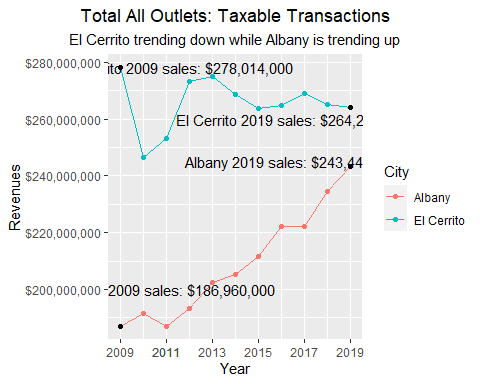
ual\_pay =   
 data.frame(Year = factor(2020:2027), Status = c(rep("Actual", 3), rep("Projected", 5)),  
 Payments = c(2955657, 3306700, 3789412,  
 4147000, 4387000, 4625000, 4762000, 4889000))  
  
  
ggplot(ual\_pay, aes(x = Year, y = Payments, fill = Status)) +   
 geom\_col(   
 color = "black", width = 0.7) +   
 ggtitle("CalPERS EC Safety Projected Employer Contributions",   
 subtitle = "2023-2027 is projected") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 #geom\_text(aes(label = dollar(Payments)), size = 3.5, vjust = -0.5) +  
 scale\_y\_continuous(labels = dollar)



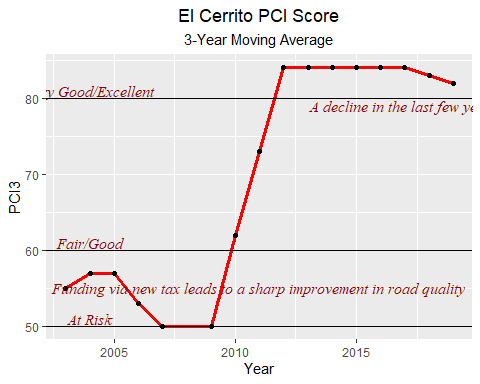
ual\_liability =   
 data.frame(Year = factor(2016:2019),  
 Payments = c(40845199, 41583287, 46832465, 48830002 ))  
   
   
ggplot(ual\_liability, aes(x = Year, y = Payments)) +   
 geom\_col(fill = rgb(0.9, 0, 0), color = "black", width = 0.7) +   
 ggtitle("CalPERS El Cerrito Safety Unfunded Accrued Liability (UAL)") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 geom\_text(aes(label = dollar(Payments)), size = 3.5, vjust = -0.5) +  
 scale\_y\_continuous(labels = dollar)



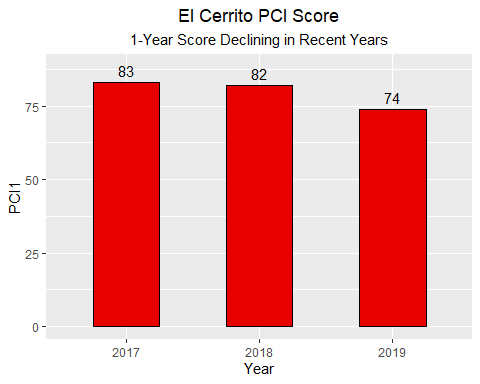
taxable =   
 data.frame(Year = rep(2009:2019, 2), City = c(rep("El Cerrito", 11), rep("Albany", 11)),  
 Revenues = c(278014000, 246574000, 253036000, 273354000, 274997000, 268591000,  
 263862095, 264739262, 268938478, 265240187, 264207566,   
 186960000, 191439000, 187052000, 193201000, 202489000,  
 205283000, 211703606, 222024828, 222203622, 234363028, 243449849))  
   
  
ggplot(taxable, aes(x = Year, y = Revenues, color = City)) + geom\_line() + geom\_point() +  
 geom\_point(data = taxable %>% filter(Year %in% c(2009,2019)), color = "black", size = 1.5) +  
 ggtitle("Total All Outlets: Taxable Transactions",  
 subtitle = "El Cerrito trending down while Albany is trending up") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +   
 scale\_x\_continuous(breaks = c(2009, 2011, 2011, 2013, 2015, 2017, 2019)) +  
 scale\_y\_continuous(labels = dollar) +  
 annotate("text", x = 2011.5, y = 278000000,  
 label = ("El Cerrito 2009 sales: $278,014,000")) +  
 annotate("text", x = 2016.5, y = 260000000,  
 label = ("El Cerrito 2019 sales: $264,207,566")) +   
 annotate("text", x = 2011.1, y = 200000000,  
 label = ("Albany 2009 sales: $186,960,000")) +  
 annotate("text", x = 2016.5, y = 245000000,  
 label = ("Albany 2019 sales: $243,449,849"))



pci\_3 = data.frame(Year = c(2003:2007, 2009:2019),   
 PCI3 = c(55, 57, 57, 53, 50, 50, 62, 73, 84, 84, 84, 84, 84, 84, 83, 82))  
  
ggplot(pci\_3, aes(x = Year, y = PCI3)) + geom\_line(color = "red", size = 1.2) + geom\_point() +  
 ggtitle("El Cerrito PCI Score", subtitle = "3-Year Moving Average")+  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 annotate("text", x = 2011, y = 55,   
 label = "Funding via new tax leads to a sharp improvement in road quality",  
 family = "serif", fontface = "italic", color = "darkred", size = 4) +  
 annotate("text", x =2017, y = 79,  
 label = "A decline in the last few years",   
 family = "serif", fontface = "italic", color = "darkred", size = 4) +  
 annotate("text", x = 2004, y = 81,  
 label = "Very Good/Excellent",  
 family = "serif", fontface = "italic", color = "darkred", size = 4) +  
 annotate("text", x = 2004, y = 61,  
 label = "Fair/Good",  
 family = "serif", fontface = "italic", color = "darkred", size = 4) +  
 annotate("text", x = 2004, y = 51,  
 label = "At Risk",  
 family = "serif", fontface = "italic", color = "darkred", size = 4) +  
 geom\_hline(yintercept = 80) +  
 geom\_hline(yintercept = 60) +  
 geom\_hline(yintercept = 50)



pci\_1 = data.frame(Year = factor(2017:2019), PCI1 = c(83, 82, 74))   
  
ggplot(pci\_1, aes(x = Year, y = PCI1)) + geom\_col(fill = rgb(0.9, 0, 0), color = "black", width = 0.5) +   
 ggtitle("El Cerrito PCI Score", subtitle = "1-Year Score Declining in Recent Years") +  
 theme(plot.subtitle = element\_text(hjust = 0.5)) +  
 geom\_text(aes(label = PCI1), vjust = -0.5) +  
 scale\_y\_continuous(limits = c(0, 88))



**References**

<https://www.el-cerrito.org/232/Budget-Financial-Information>

<https://www.calpers.ca.gov/page/employers/actuarial-resources/public-agency-actuarial-valuation-reports>  
<https://www.el-cerrito.org/DocumentCenter/View/15599/322021-City-of-El-Cerrito-CalPERS-Retirement-Plan-Presentation>

<https://www.cdtfa.ca.gov/dataportal/dataset.htm?url=TaxSalesCRCityCounty>

<https://www.vitalsigns.mtc.ca.gov/street-pavement-condition>