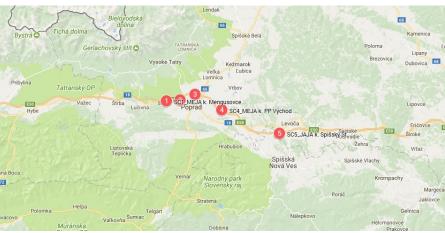
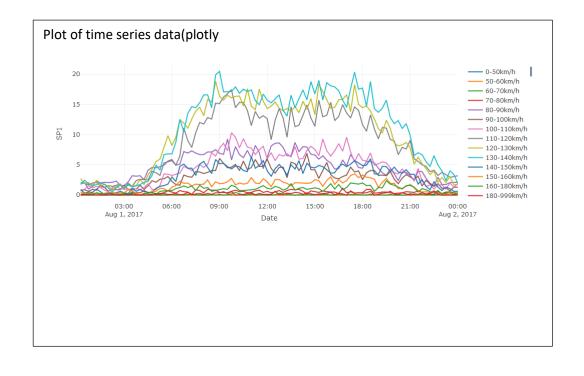
select input- user choose which sector to plot(its FILENAME column) input-usecr choose date range Date to date select inputUser choose which Channel to plot(All, channel 1,2,3,4) select input-interactive dataset input-user choose which dataset to plot (speed, length, weight) Aggregation of data-how to aggregate data- "mins", "hours", "days", "weeks", "months", "quarters", "year checkboxGroupInput- which trace to plot(which bin)







## **Tab2 Boxplots**

plot\_ly(pac,y = ~SP1, name = '0-50km/h',type = 'box')%>%

add\_trace(y = ~SP2, name = '50-60km/h', mode = 'lines') %>%

add\_trace(y = ~SP3, name = '60-70km/h', mode = 'lines') %>%

add\_trace(y = ~SP4, name = '70-80km/h', mode = 'lines') %>%

add\_trace(y = ~SP5, name = '80-90km/h', mode = 'lines') %>%

add\_trace(y = ~SP6, name = '90-100km/h', mode = 'lines') %>%

add\_trace(y = ~SP7, name = '100-110km/h', mode = 'lines') %>%

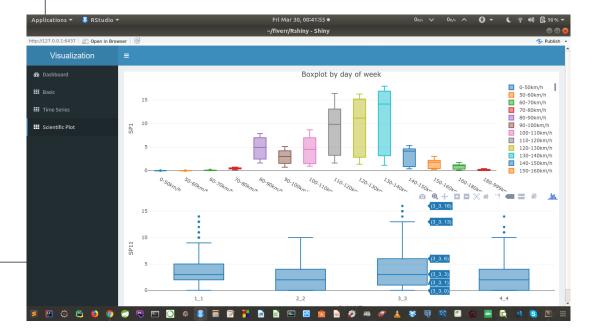
add\_trace(y = ~SP8, name = '110-120km/h', mode = 'lines') %>%

add\_trace(y = ~SP9, name = '120-130km/h', mode = 'lines') %>%

Boxplots with atribudes ()

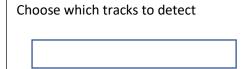
Select input- wday.lbl,year.iso,half quarter,month,am.pm

plot\_ly(pac, y = ~SUM,SP1-SP14,etc.., color = ~wday.lbl,year.iso,half quarter,month,am.pm, type = "box")



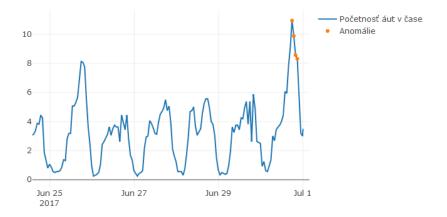
This one is GOOD

## Tab3 Anomaly detection



Choose period of anomaly to detect and if user want detect only last period or all periods.

res=AnomalyDetectionVec(SUM\_DATA[,2], max\_anoms=0.01, period=2, direction='both',only\_last=FALSE, plot=TRUE)



Tab4 Motif discovery

Just choose which track to discover on motifs

Any select input

**PLOT** 

Tab5 Machine learning timetk + h2o:

Just choose which track to discover on ML

Any select input

**PLOT** 

**Error table** 

Tab6 timetk + linear regression:

Just choose which track to discover on ML

Any select input

**PLOT** 

**Error table** 

Tab7 ARIMA + sweep:

Just choose which track to discover on ML

Any select input

## **PLOT**

**Error table**