

# Building sample trends for SLC deliverables

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## Load data

The data has been processed and a dataframe built of the month results

```
load(file = "./data/FPA.RData")
str(FPA)

## 'data.frame':    11 obs. of  7 variables:
##  $ Month          : Factor w/ 11 levels "Jan","Feb","Mar",...: 1 2 3 4 5 6 7 8 9 10 ...
##  $ Year           : num  2018 2018 2018 2018 2018 ...
##  $ Projects_Started : int  7 13 7 15 6 8 7 5 9 18 ...
##  $ Projects_Completed : int  5 10 9 13 8 7 5 8 5 14 ...
##  $ Reviews_Completed : int  264 302 116 163 270 176 138 110 228 278 ...
##  $ Items_Rejected   : int  85 43 23 47 70 43 21 24 77 81 ...
##  $ First_Pass_Acceptance: num  37.1 66.6 60.3 46.6 47 ...

head(FPA)

##   Month Year Projects_Started Projects_Completed Reviews_Completed
## 1  Jan 2018             7             5             264
## 2  Feb 2018            13            10            302
## 3  Mar 2018             7             9            116
## 4  Apr 2018            15            13            163
## 5  May 2018             6             8            270
## 6  Jun 2018             8             7            176
##   Items_Rejected First_Pass_Acceptance
## 1             85             37.12121
## 2             43             66.55629
## 3             23             60.34483
## 4             47             46.62577
## 5             70             47.03704
## 6             43             56.81818
```

## data overview

```
##      Month      Year      Projects_Started Projects_Completed
```

```

## Jan      :1   Min.      :2018   Min.      : 5.000   Min.      : 5.000
## Feb      :1   1st Qu.:2018   1st Qu.: 7.000   1st Qu.: 6.000
## Mar      :1   Median :2018   Median : 8.000   Median : 8.000
## Apr      :1   Mean      :2018   Mean      : 9.455   Mean      : 8.545
## May      :1   3rd Qu.:2018   3rd Qu.:11.000   3rd Qu.:10.000
## Jun      :1   Max.      :2018   Max.      :18.000   Max.      :14.000
## (Other):5
## Reviews_Completed Items_Rejected First_Pass_Acceptance
## Min.      :110.0      Min.      :21.00   Min.      :35.09
## 1st Qu.:138.0      1st Qu.:33.50   1st Qu.:43.86
## Median :176.0      Median :43.00   Median :47.04
## Mean      :198.5      Mean      :50.64   Mean      :50.51
## 3rd Qu.:267.0      3rd Qu.:73.50   3rd Qu.:58.58
## Max.      :302.0      Max.      :85.00   Max.      :66.56
##
##      date
## Min.      :2018-01-01
## 1st Qu.:2018-03-16
## Median :2018-06-01
## Mean      :2018-06-01
## 3rd Qu.:2018-08-16
## Max.      :2018-11-01
##

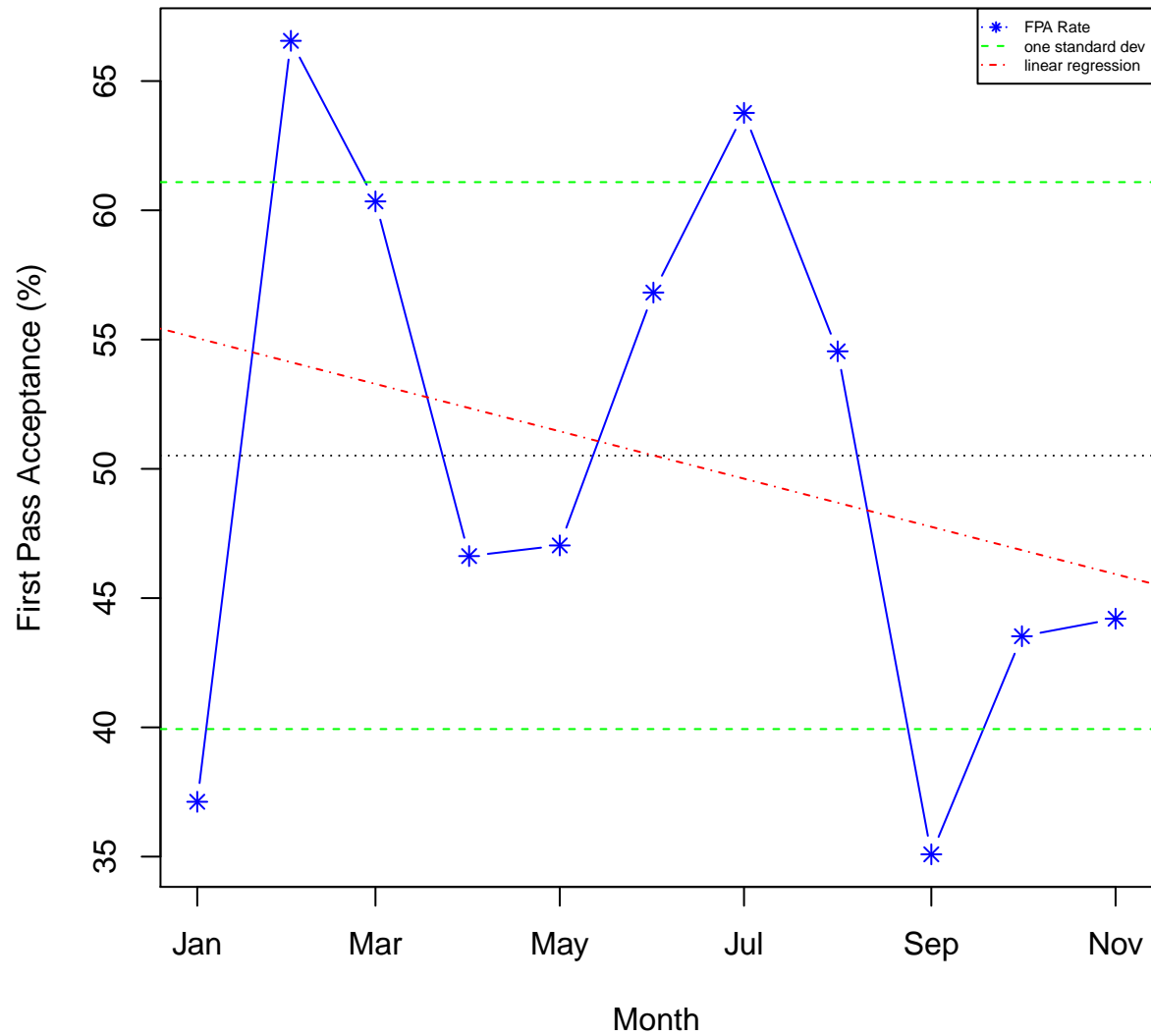
```

## Trends

### First pass acceptance

The regression line is included which is showing a downward trend. However, the analysis indicates a very low probability of correlation between date and the FPA rate (8.2%).

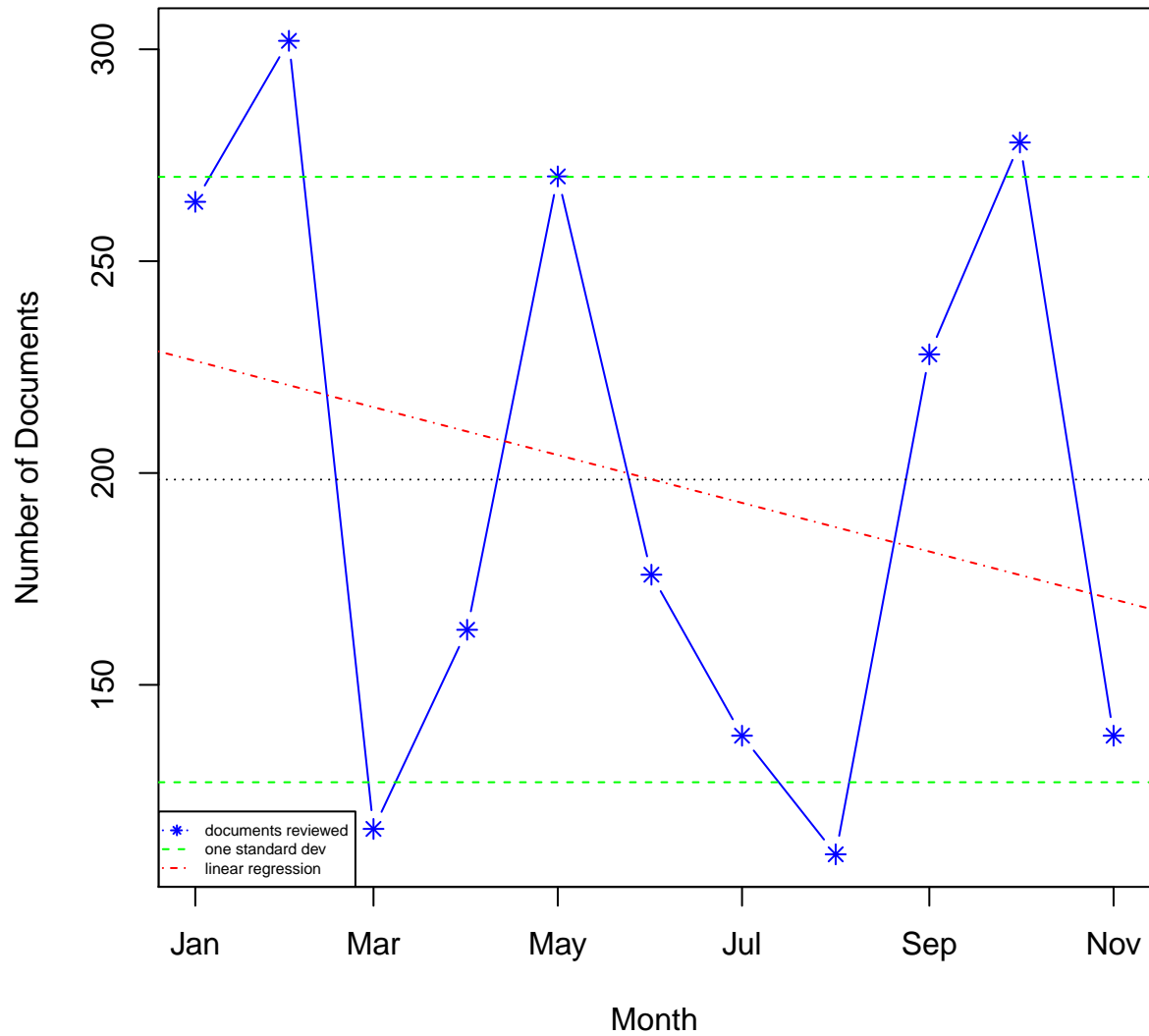
## Trend for First Pass Acceptance



### Documents reviewed

The regression line is included which is showing a downward trend. However, the analysis indicates a very low probability of correlation between date and the FPA rate (6.2%).

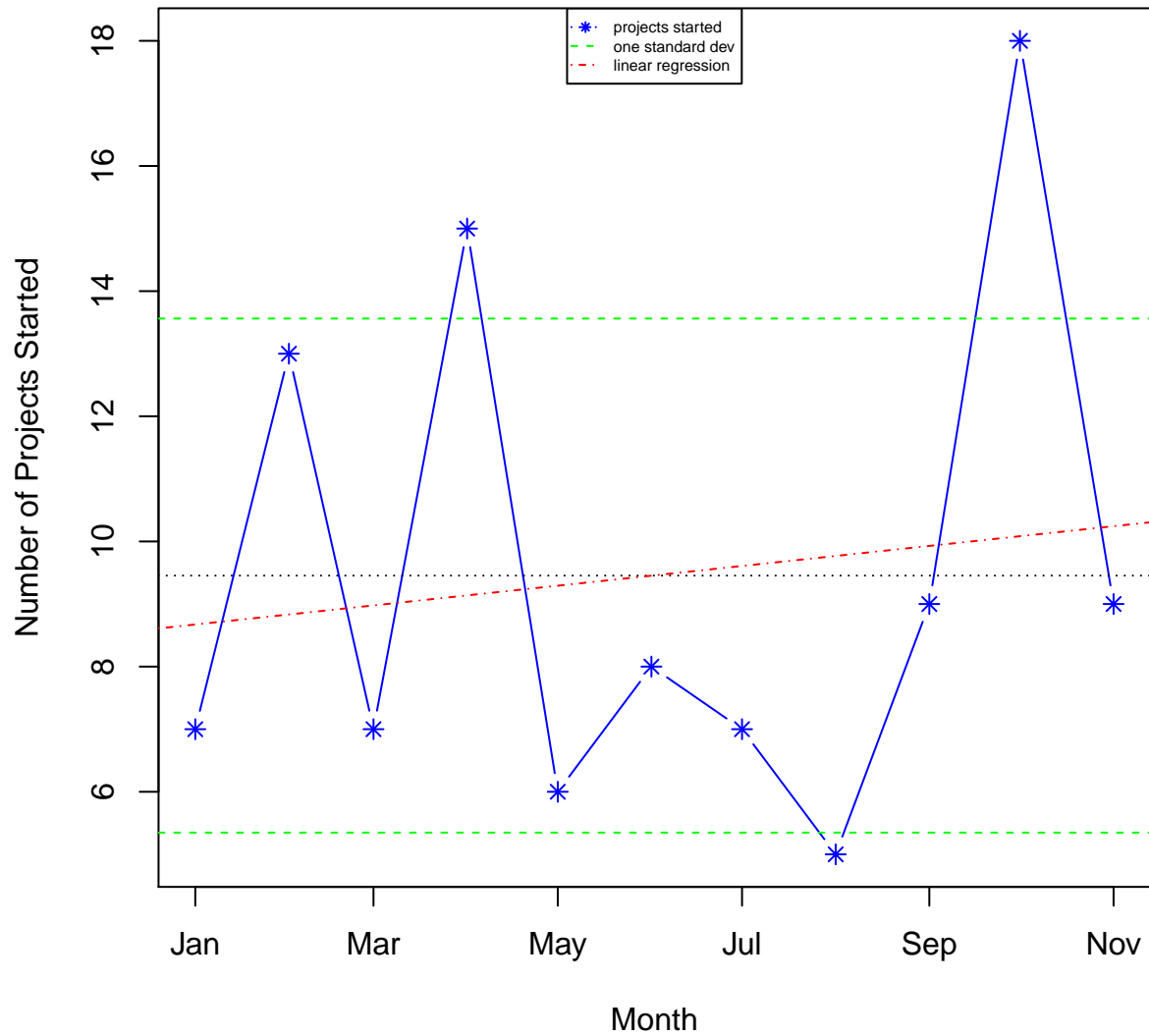
## Trend for Documents Reviewed



## Projects Started

The regression line is included which is showing a downward trend. However, the analysis indicates a very low probability of correlation between date and the FPA rate (1.6%).

## Trend for Projects Started



## Projects Completed

The regression line is included which is showing a downward trend. However, the analysis indicates a very low probability of correlation between date and the FPA rate (2.5%).

## Trend for Projects Completed

