Entire Facility
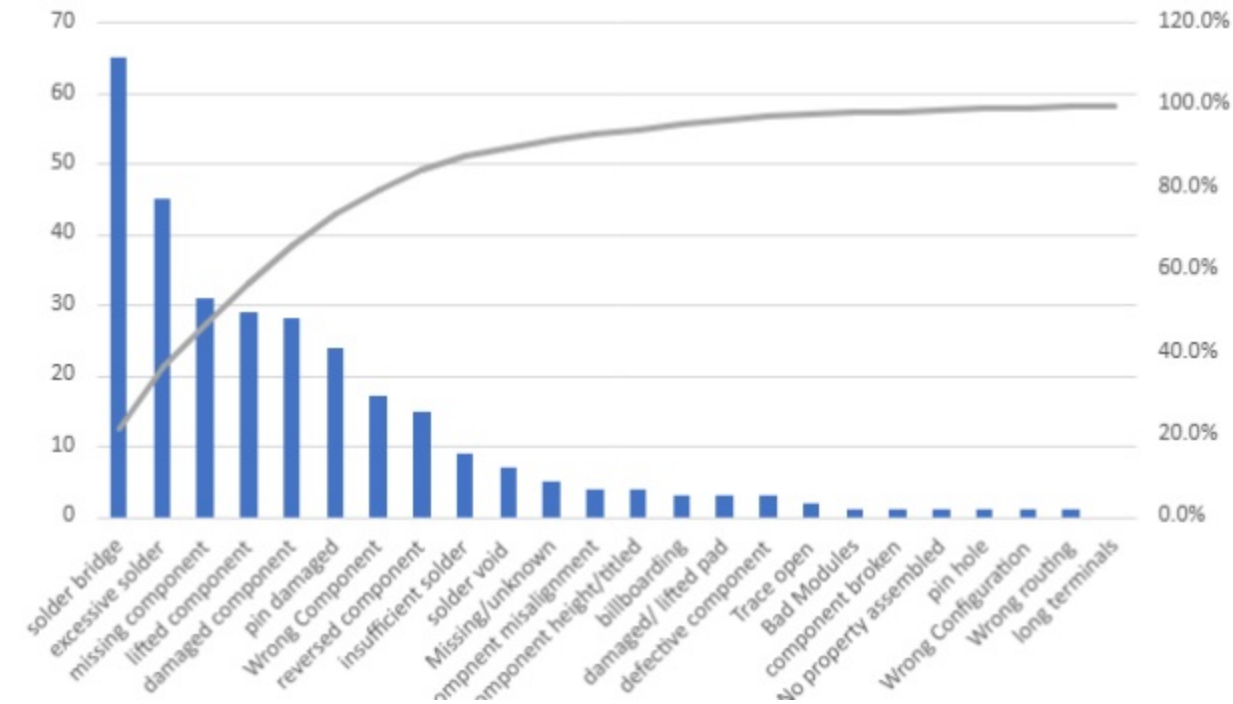


```
> print (df)
     Model Defects Percentage
1    Model1      10      30.00
2    Model1      11      14.00
3    Model1      12      11.50
4    Model1      13       8.00
5    Model1      14       5.00
6    Model2      10       6.67
7    Model2      11       3.11
8    Model2      12       2.56
9    Model2      13       1.78
10   Model2      14       1.11
11   Model3      10       7.23
12   Model3      11       3.37
13   Model3      12       2.77
14   Model3      13       1.93
15   Model3      14       1.20
```

```
> summary(df)
    Model              Defects        Percentage
 Length:15          Min.   :10     Min.   : 1.110
 Class :character   1st Qu.:11     1st Qu.: 2.245
 Mode  :character   Median :12     Median : 3.370
                    Mean   :12     Mean   : 6.682
                    3rd Qu.:13     3rd Qu.: 7.615
                    Max.   :14     Max.   :30.000
```

```
> summary(lm.ModsPercentageDef)

Call:
lm(formula = Percentage ~ Model + Defects, data = df)

Residuals:
    Min      1Q  Median      3Q     Max
-3.237  -2.547  -1.533   1.414  10.837

Coefficients:
            Estimate Std. Error t value Pr(>|t|)
(Intercept)   46.480      9.431   4.928 0.000451 ***
ModelModel2  -10.654      2.667  -3.994 0.002108 **
ModelModel3  -10.400      2.667  -3.899 0.002482 **
Defects       -2.732      0.770  -3.547 0.004573 **
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 4.218 on 11 degrees of freedom
Multiple R-squared:  0.752,     Adjusted R-squared:  0.6844
F-statistic: 11.12 on 3 and 11 DF,  p-value: 0.001171
```