

3.04/ Number of Problem Solving Studies (PSS) and impact

1/ Definition

The number of PSS and their impact permit to :

- Check that the feedback and the continuous improvement loop is well done
- Check if the feedback and the continuous improvement loop has a utility
- Verify the impact of the actions taken after the PSS

2/ Objective / Target

The goal is to have actions which have an impact on the problems detected thanks to the PSS

An action without impact on an identified problem after a PSS analysis should be record in order to improve the PSS sessions.

3/ Formula

See 5/ Calculation example

4/ Frequency

Monthly

5/ Calculation example

This indicator is calculated manually thanks to the excel file below (figure 1).

As a example, Rheinberg decided to create its own calculation rules (see figure 2) which permit to fill the excel file.

Then it's displayed in MECANO (see figure 3).

Current Year :		2016				
Update only yellow cells		Effetiveness				
RHEINBERG		1.10. curr	3.6. Nb	3.6. Nb	3.13. Nb	3.13. Nb
SITE CODE	YEARMONTH	Spend versus budget	Number of problem solving studies (Focused improvement)	Number of problem solving studies (Focused improvement) Target	Number of critical analysis with an FMECA analysis	Number of critical analysis with an FMECA analysis Target
RBG	Unit	€	Nb	Nb	Nb	Nb
RBG	Relevant to the site (Y/N) ?	Y	Y	Y	Y	Y
RBG	201601		8	0,01	42,5	40
RBG	201602		23,5	20,01	45	55
RBG	201603			40,01	71,25	70
RBG	201604			60,01		85
RBG	201605			80,01		100
RBG	201606			100,01		115
RBG	201607			120,01		130
RBG	201608			140,01		145
RBG	201609			160,01		160
RBG	201610			180,01		175
RBG	201611			200,01		190
RBG	201612			220,01		205

Figure 1

Implementation of suggested KPI's for the tracking of the activities

PSS-Score = sum (Complexity * Status) + 20% bonus in case of replication
(3.6 in MECANO-Catalogue)

Complexity:

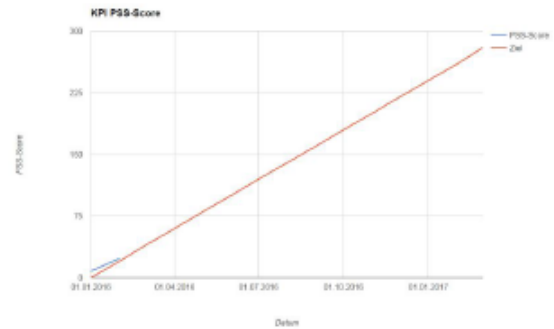
- Easy to solve
- Medium (2 to 4 PSS-sessions)
- Complex problem

Factor = 1
Factor = 2
Factor = 3

Status:

- Idea for PSS
- Started
- Root cause identified
- Solution in progress
- Solution is implemented
- Solution is sustainable
(at least 12 month)

Factor=0
Factor=1
Factor=3
Factor=3,5
Factor=4
Factor=5



Google drive sheet with list of Problem Solving Sessions

	A	B	C	D	E	F	G	H
1	Problem	Bereich	Kompl.	Status / Ort	Replikation	PSS-Score	Solvace-Link	Verantwortlich
2	Standzeit von Kolbenbüretten zu gering	SO	2	4		8	https://solvay.solvace.com/projects/337/edit	DKo

Figure 2

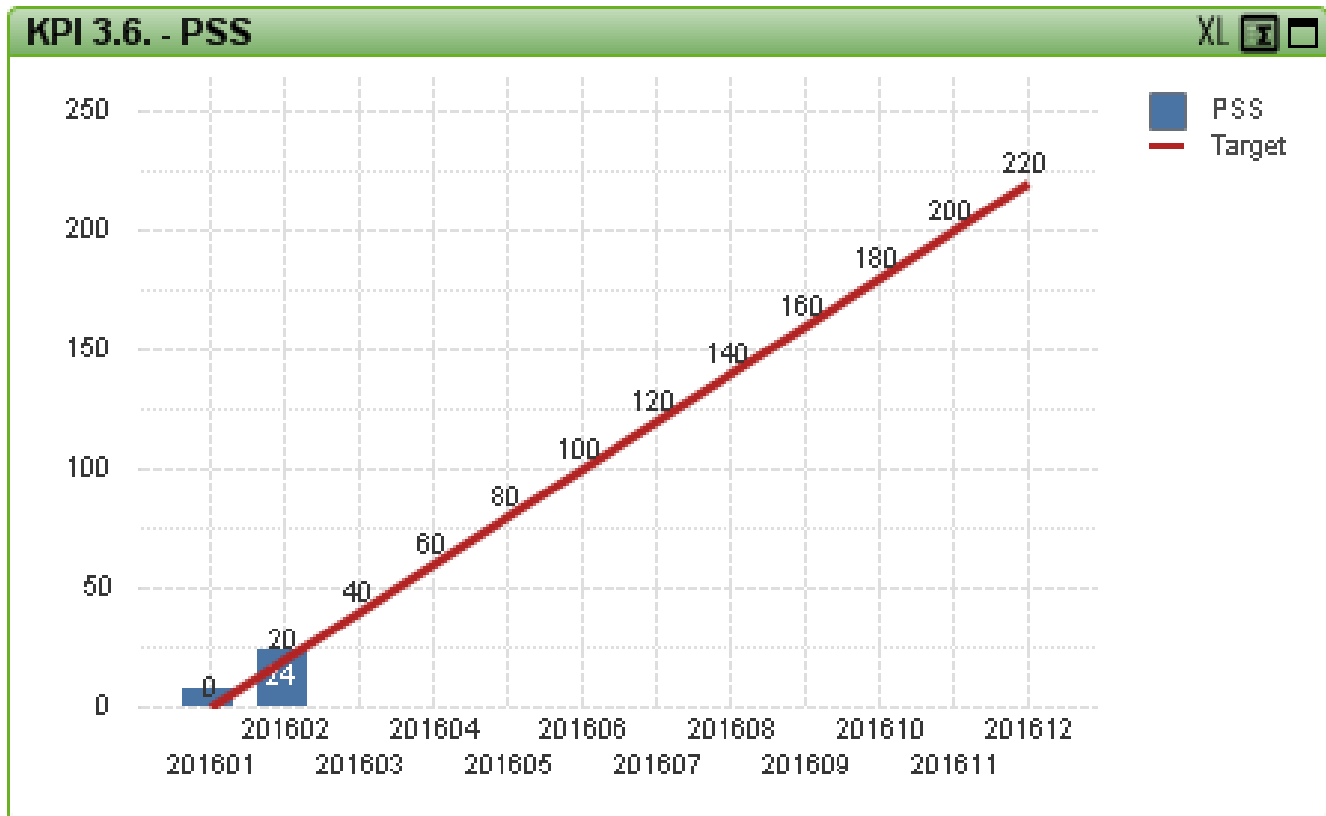


Figure 3

