Progress of robots installation in 1st month

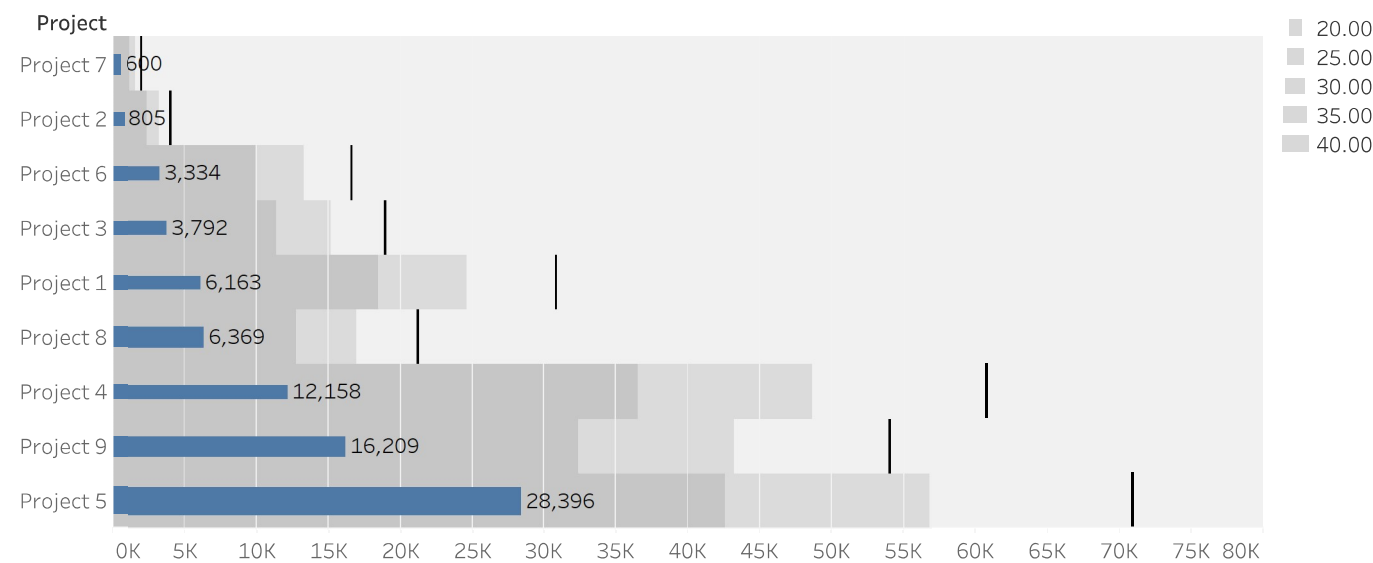Chart: Progress of robots installation in 1st month

Project

Project	# Robots Installed - Actual	# Robots Installed - 1st month plan	Total # Robots
Project 1	595	399	1,000
Project 3	511	224	573
Project 4	3,493	6,986	8,737
Project 5	7,196	8,099	9,000
Project 7	4	0	10
Project 8	497	350	713
Project 9	2,191	7,686	10,987

Value (x-axis: 0K, 1K, 2K, 3K, 4K, 5K, 6K, 7K, 8K, 9K, 10K, 11K, 12K)

Measure Names
- # Robots Installed - Actual
- # Robots Installed - 1st month plan
- Total # Robots

Progress of Shelves for 1st month

Project

Measure Names
- ■ # Shelves Installed - Actual
- ■ # Shelves Installed - 1st month Plan
- ■ Total # Shelves

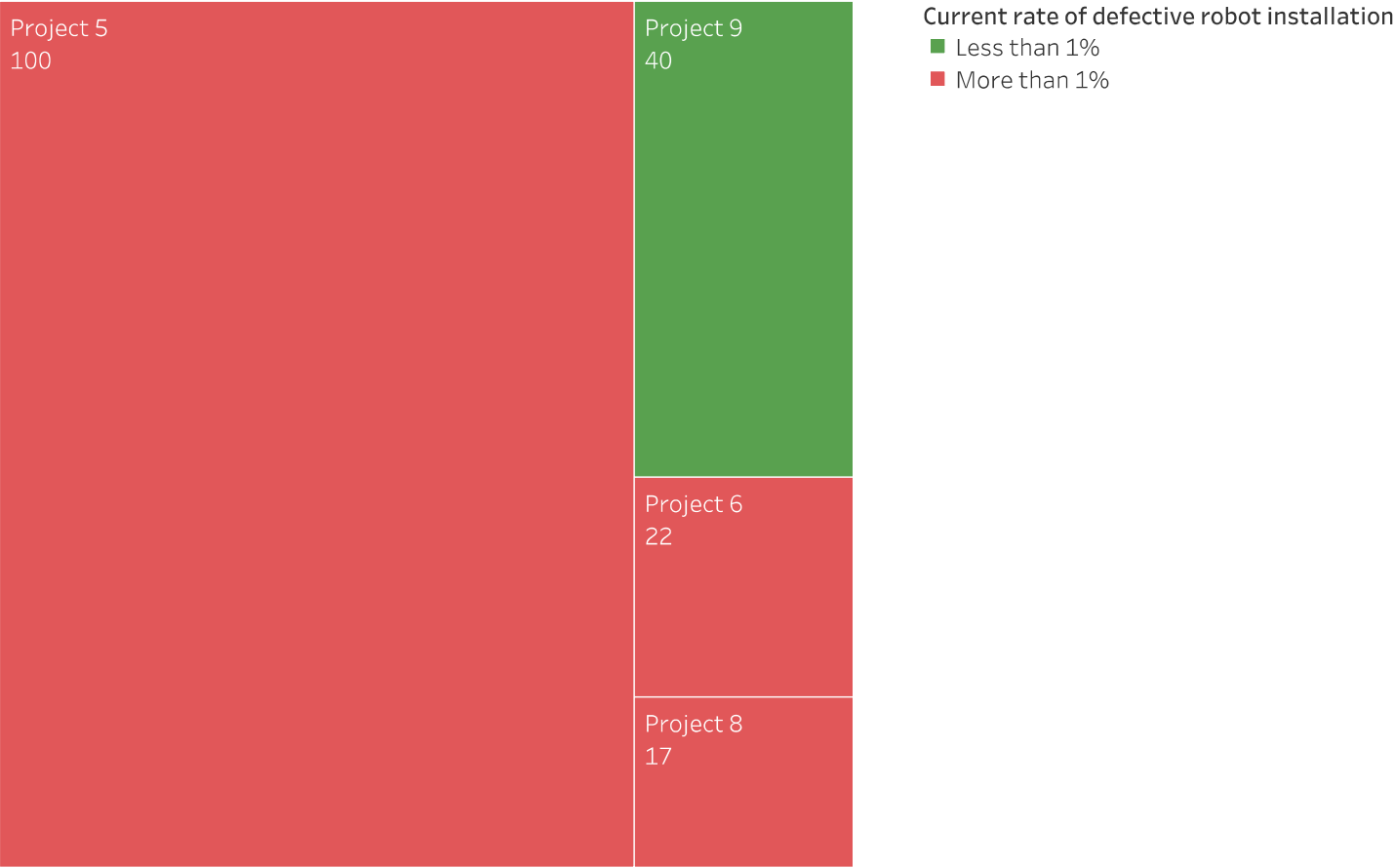| Project		
Project 1	# Shelves Installed - Actual	3,948
	# Shelves Installed - 1st month Plan	3,654
	Total # Shelves	9,135
Project 2		2
		21
		340
Project 3		448
		448
		2,240
Project 4		4,000
		4,186
		20,931
Project 5		52,876
		55,398
		55,401
Project 6		1,500
		994
		2,490
Project 7		72
		28
		72
Project 8		800
		791
		2,639
Project 9		20,000
		50,001
		100,010
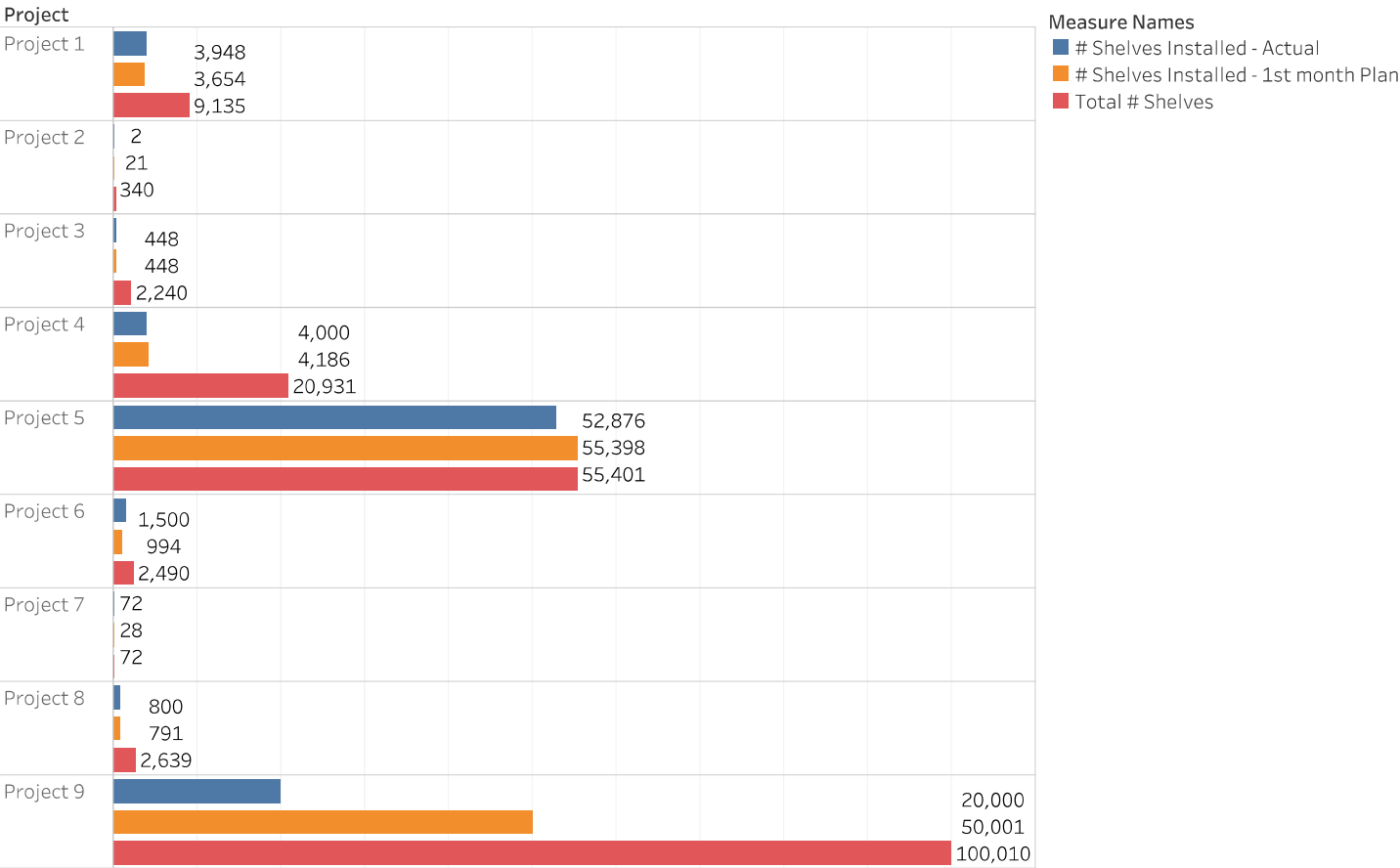
Shelves Installed - Actual, # Shelves Installed - 1st month Plan and Total # Shelves for each Project. Color shows details about # Shelves Installed - Actual, # Shelves Installed - 1st month Plan and Total # Shelves. The marks are labeled by # Shelves Installed - Actual, # Shelves Installed - 1st month Plan and Total # Shelves. The view is filtered on Project, sum of # Shelves Installed - Actual, sum of # Shelves Installed - 1st month Plan and sum of Total # Shelves. The Project filter keeps 9 of 9 members. The sum of # Shelves Installed - Actual filter keeps all values. The sum of # Shelves Installed - 1st month Plan filter keeps all values. The sum of Total # Shelves filter keeps all values.

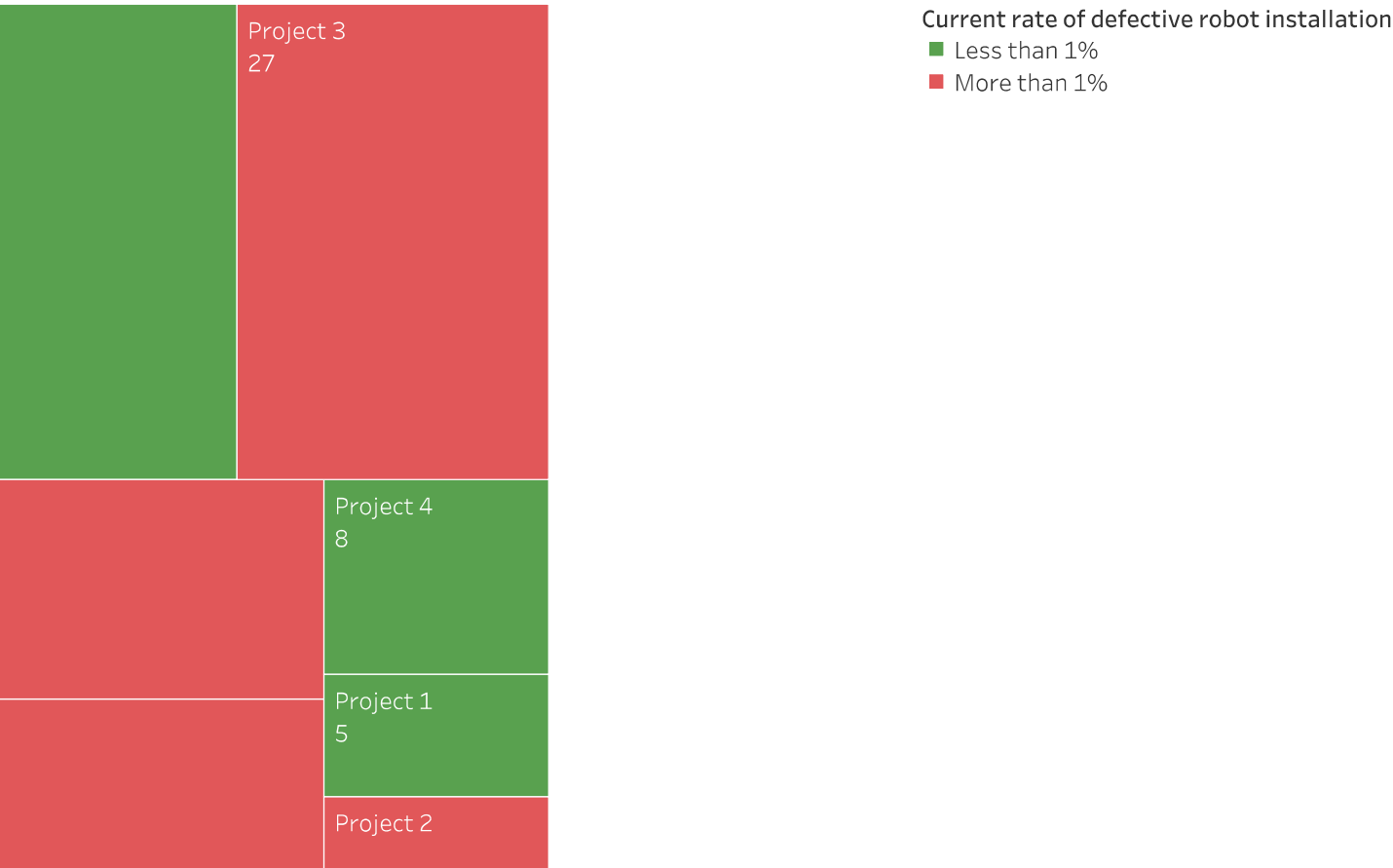# Utilization of budget in each project

Project

Legend	
	20.00
	25.00
	30.00
	35.00
	40.00

Project 7 — 600
Project 2 — 805
Project 6 — 3,334
Project 3 — 3,792
Project 1 — 6,163
Project 8 — 6,369
Project 4 — 12,158
Project 9 — 16,209
Project 5 — 28,396

0K 5K 10K 15K 20K 25K 30K 35K 40K 45K 50K 55K 60K 65K 70K 75K 80K

Sum of Budget - Actual for each Project. Size shows sum of % budget used. The marks are labeled by sum of Budget - Actual. The view is filtered on Project, sum of Budget - Actual, sum of Total Budget and sum of % budget used. The Project filter keeps 9 of 9 members. The sum of Budget - Actual filter keeps all values. The sum of Total Budget filter keeps all values. The sum of % budget used filter keeps all values.

Projects that violated the accepatable defect rate for robot installation

Project 5
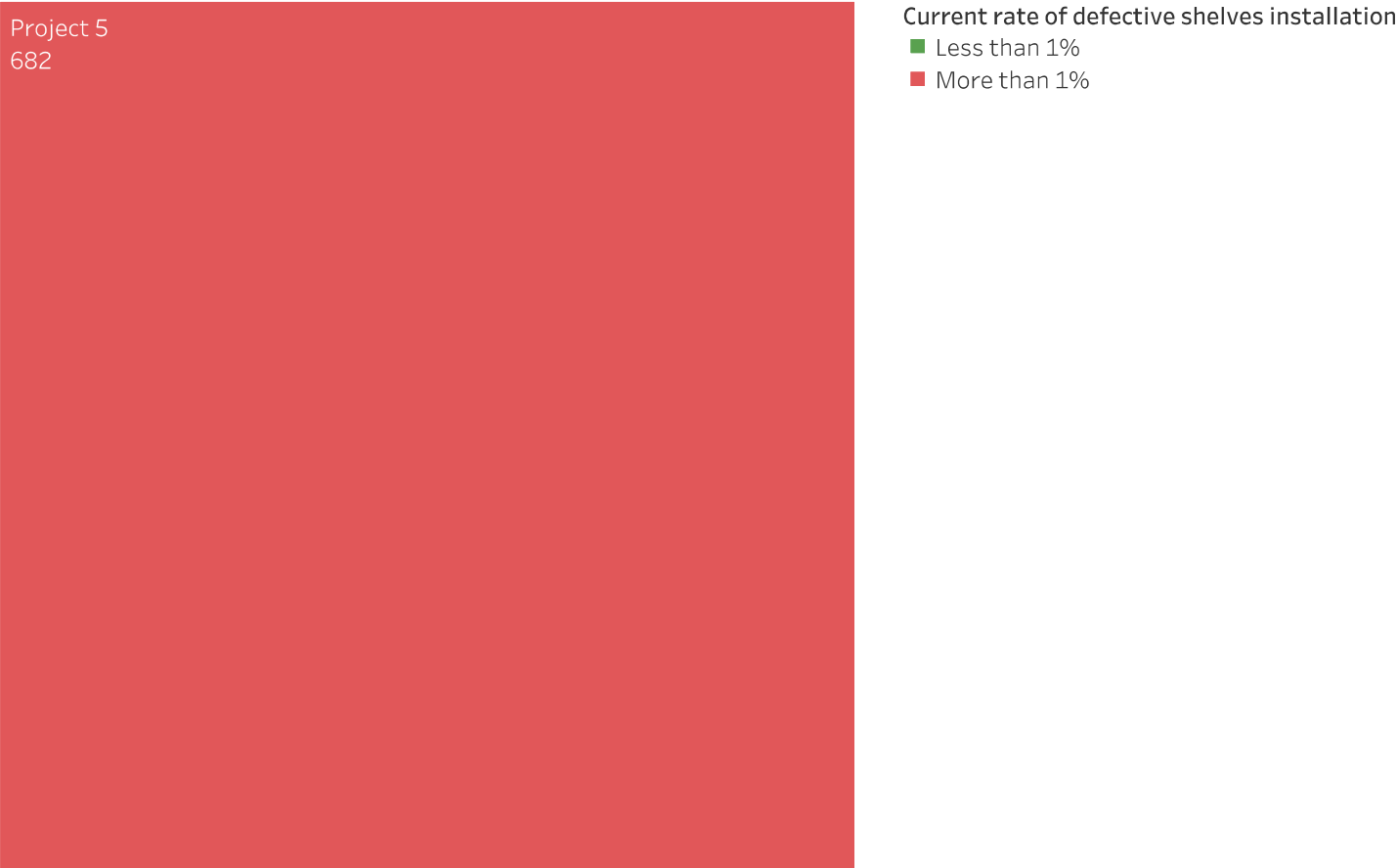100

Project 9
40

Project 6
22

Project 8
17

Project and sum of # Defective Robots. Color shows details about Current rate of defective robot installation. Size shows sum of # Defective Robots. The marks are labeled by Project and sum of # Defective Robots. The view is filtered on Project, Current rate of defective robot installation and sum of # Defective Robots. The Project filter keeps 9 of 9 members. The Current rate of defective robot installation filter keeps Less than 1% and More than 1%. The sum of # Defective Robots filter keeps all values.

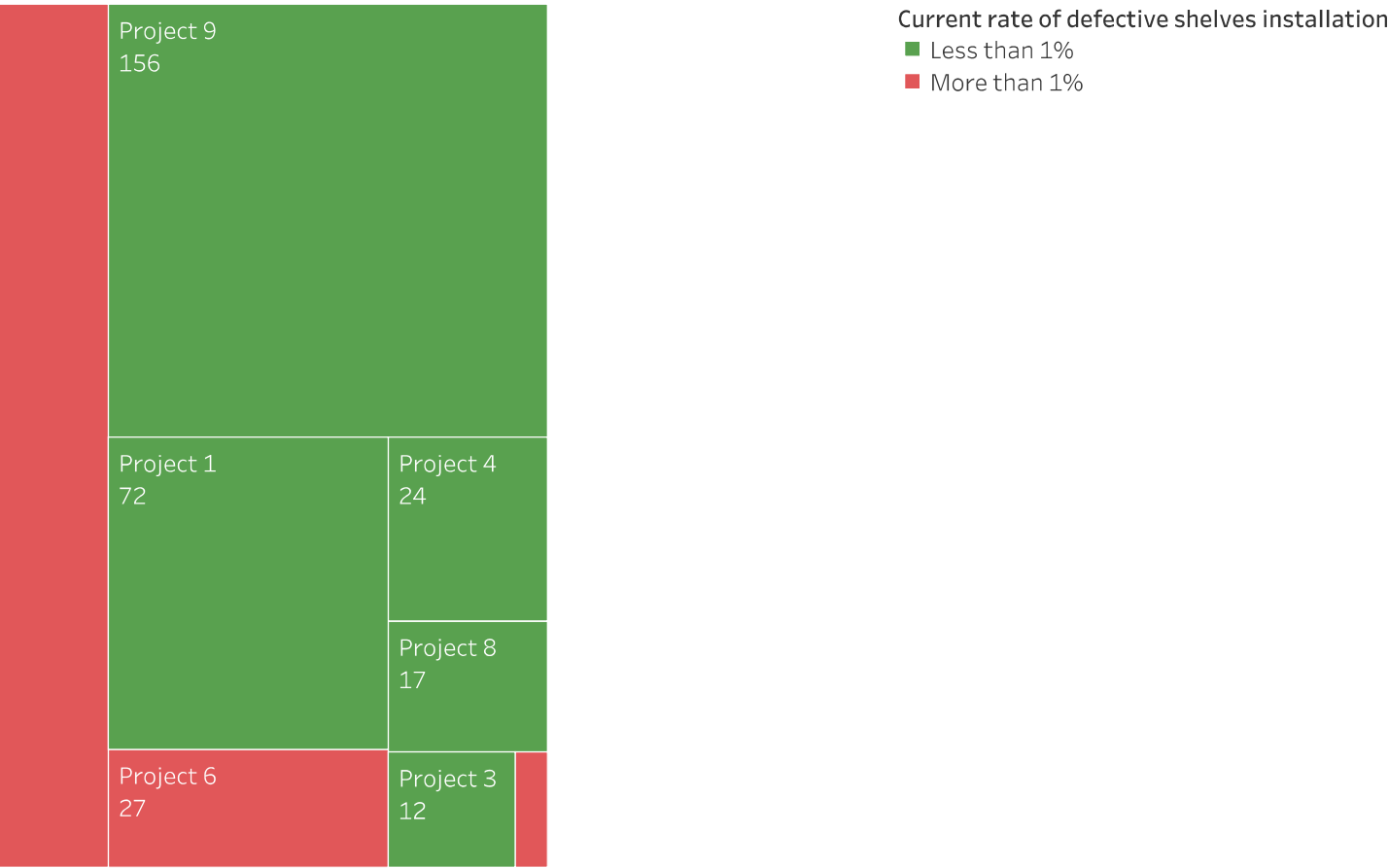# Projects that violated the accepatable defect rate for robot installation

Project and sum of # Defective Robots. Color shows details about Current rate of defective robot installation. Size shows sum of # Defective Robots. The marks are labeled by Project and sum of # Defective Robots. The view is filtered on Project, Current rate of defective robot installation and sum of # Defective Robots. The Project filter keeps 9 of 9 members. The Current rate of defective robot installation filter keeps Less than 1% and More than 1%. The sum of # Defective Robots filter keeps all values.

Projects that violated acceptable defect rate
for shelves installation.

Project 5
682

Current rate of defective shelves installation
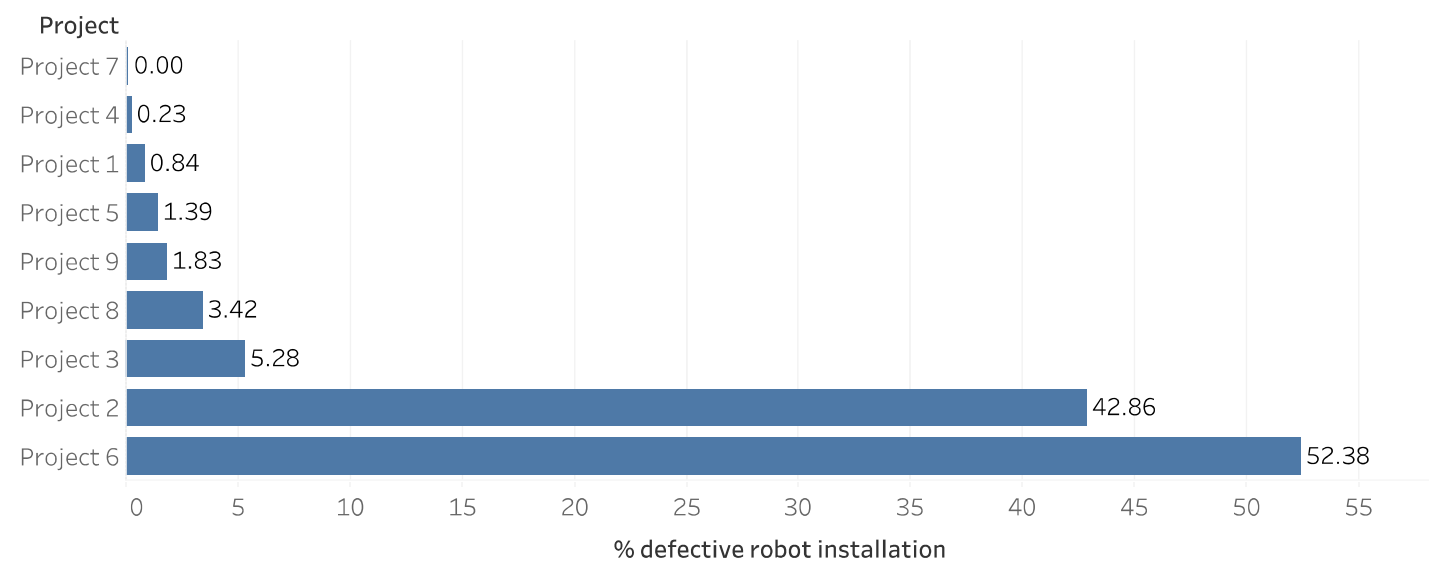- Less than 1%
- More than 1%

Project and sum of # Defective Shelves. Color shows details about Current rate of defective shelves installation. Size shows sum of # Defective Shelves. The marks are labeled by Project and sum of # Defective Shelves. The view is filtered on Project, Current rate of defective shelves installation and sum of # Defective Shelves. The Project filter keeps 9 of 9 members. The Current rate of defective shelves installation filter keeps Less than 1% and More than 1%. The sum of # Defective Shelves filter keeps all values.

Projects that violated acceptable defect rate for shelves installation.

Project 9
156

Project 1
72

Project 4
24

Project 8
17

Project 6
27

Project 3
12

Project and sum of # Defective Shelves. Color shows details about Current rate of defective shelves installation. Size shows sum of # Defective Shelves. The marks are labeled by Project and sum of # Defective Shelves. The view is filtered on Project, Current rate of defective shelves installation and sum of # Defective Shelves. The Project filter keeps 9 of 9 members. The Current rate of defective shelves installation filter keeps Less than 1% and More than 1%. The sum of # Defective Shelves filter keeps all values.
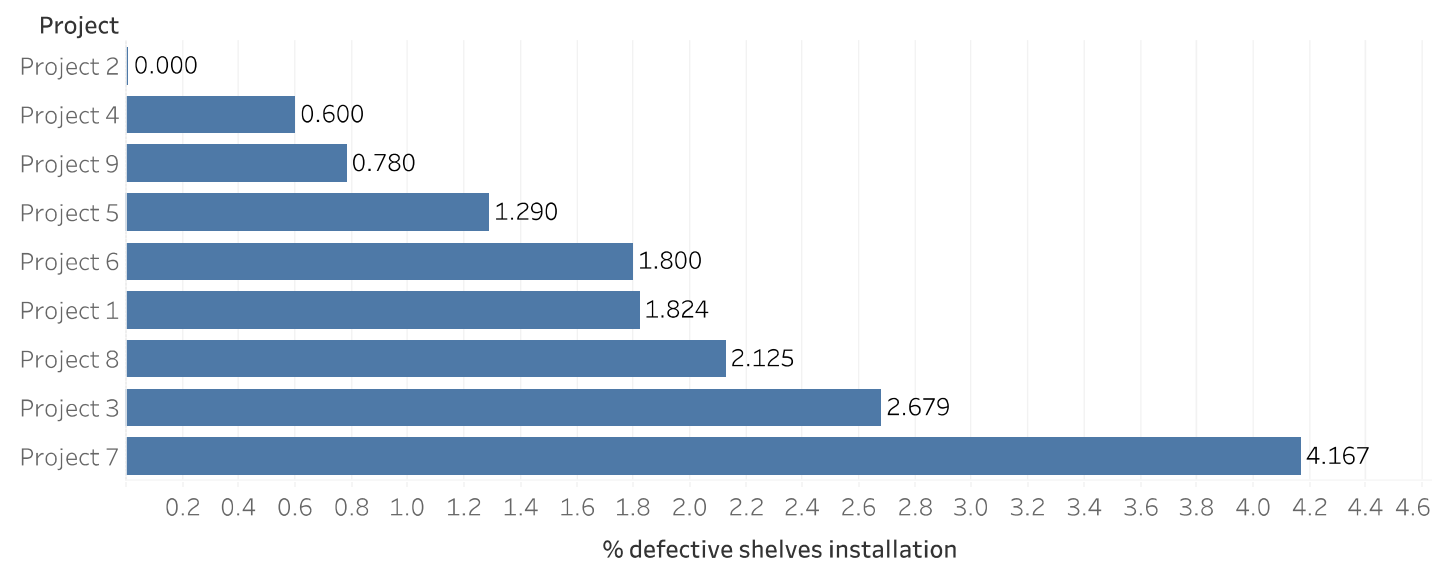
Percentage defective robot installation

Project

Project	% defective robot installation
Project 7	0.00
Project 4	0.23
Project 1	0.84
Project 5	1.39
Project 9	1.83
Project 8	3.42
Project 3	5.28
Project 2	42.86
Project 6	52.38

% defective robot installation

Sum of % defective robot installation for each Project. The marks are labeled by sum of % defective robot installation. The view is filtered on Project and sum of % defective robot installation. The Project filter keeps 9 of 9 members. The sum of % defective robot installation filter keeps all values.

Percentage defective shelves installation

Project

Project	% defective shelves installation
Project 2	0.000
Project 4	0.600
Project 9	0.780
Project 5	1.290
Project 6	1.800
Project 1	1.824
Project 8	2.125
Project 3	2.679
Project 7	4.167

0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6

% defective shelves installation

Sum of % defective shelves installation for each Project. The marks are labeled by sum of % defective shelves installation. The view is filtered on Project and sum of % defective shelves installation. The Project filter keeps 9 of 9 members. The sum of % defective shelves installation filter keeps all values.

Performance Analysis of Projects

Project	% defective robot i..	% defective shelve..	% budget used	% 1st month plan ..	%1st month plan c..
Project 1	0.8	1.8	20.0	149.1	108.0
Project 4	0.2	0.6	20.0	50.0	95.6
Project 9	1.8	0.8	30.0	28.5	40.0

In this sheet I did an analysis in order to find out which project was the most effective at the end of the first month. I calculated the 7 parameters as shown in the sheet.

The best project would be Project 1 it did not violate the 1% limit on defective rate and also has a low value on percentage defective installation of shelves(1.8%) and robots(0.8%). The project 1 has the best completion rate of 1st month plan for robots (149.1%) and shelves(108%). The project 1 acheives this feat with lowest utilization of budget (20%). Thus, project 1 is the most effective project.