

Tracking Performance of Projects in Warehouse Construction

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Summary:

These reports can be used to track progress and performance of projects for installation of robots and shelves in warehouse.

Key Terms:

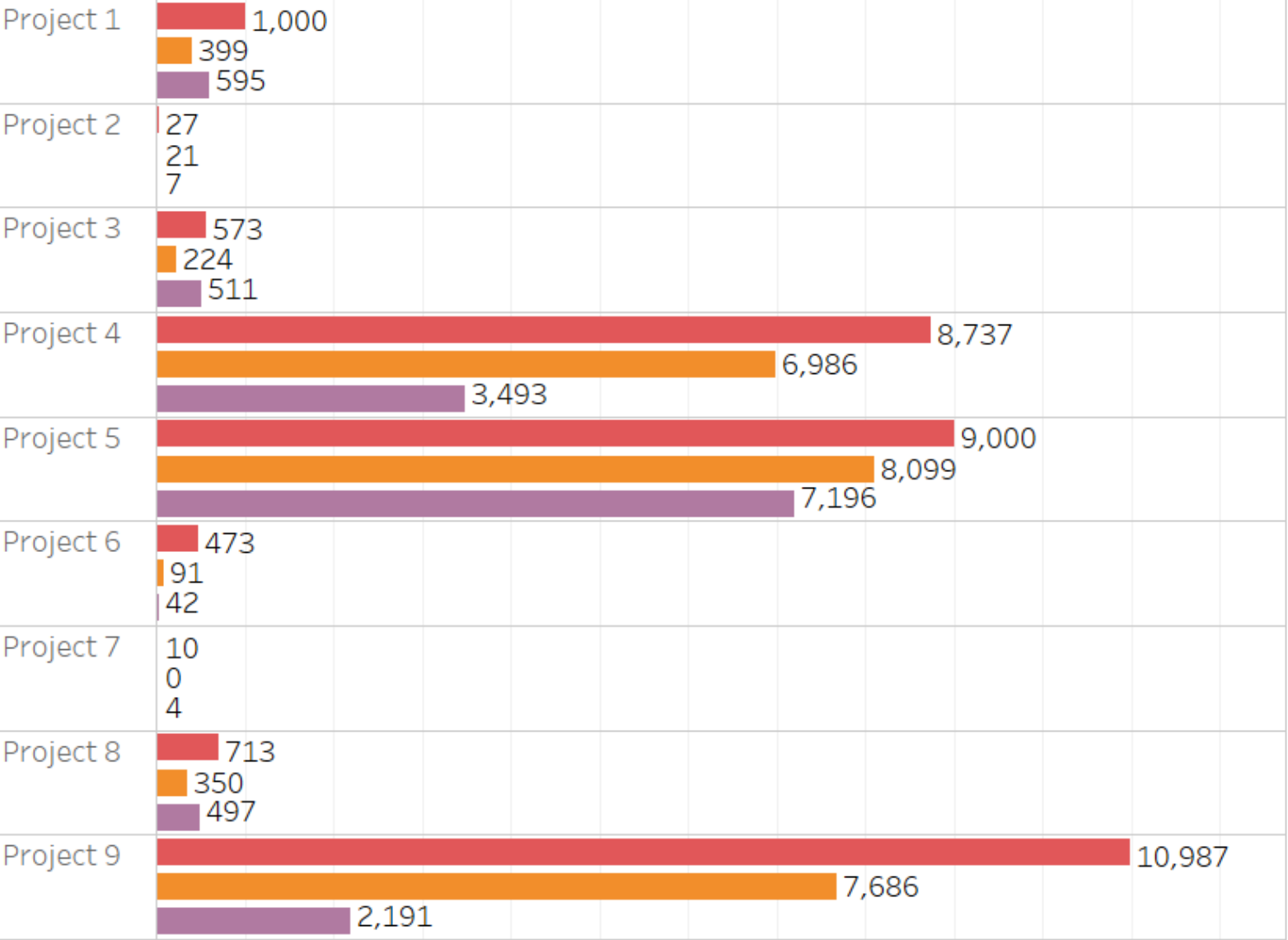
Project: Refers to a particular project which involves installation of robots or shelves

Robot: Refers to a machine used for moving objects in the warehouse

Shelf: Refers to an object used to store the goods

Progress of Robots Installation in 1st Month

Project



Legend

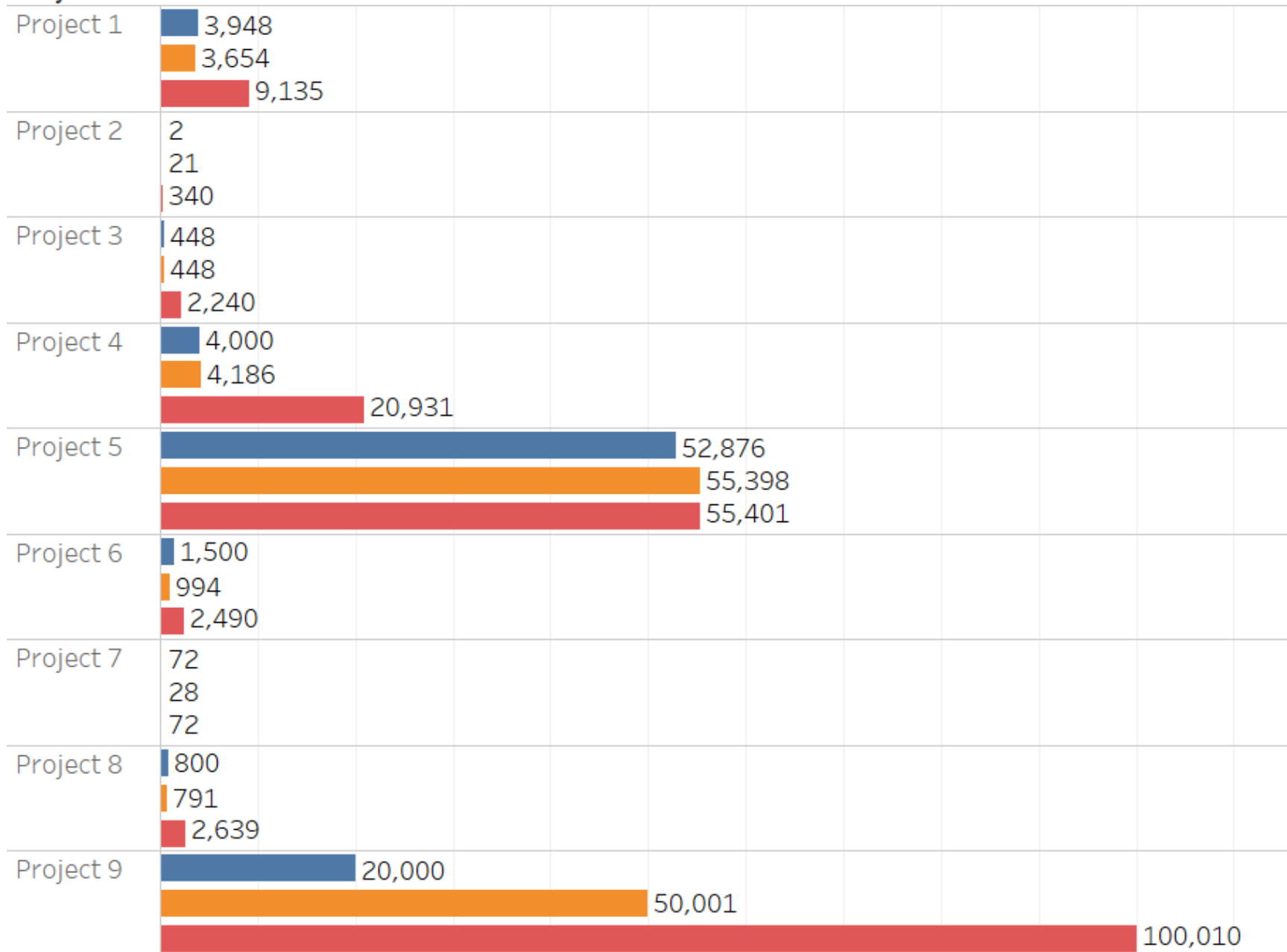
- Total Robot Installations Planned
- 1st Month Plan for Robot Installation
- Number of Robot Installations

0K 1K 2K 3K 4K 5K 6K 7K 8K 9K 10K 11K 12K

Value

Progress of Shelves Installation in 1st month

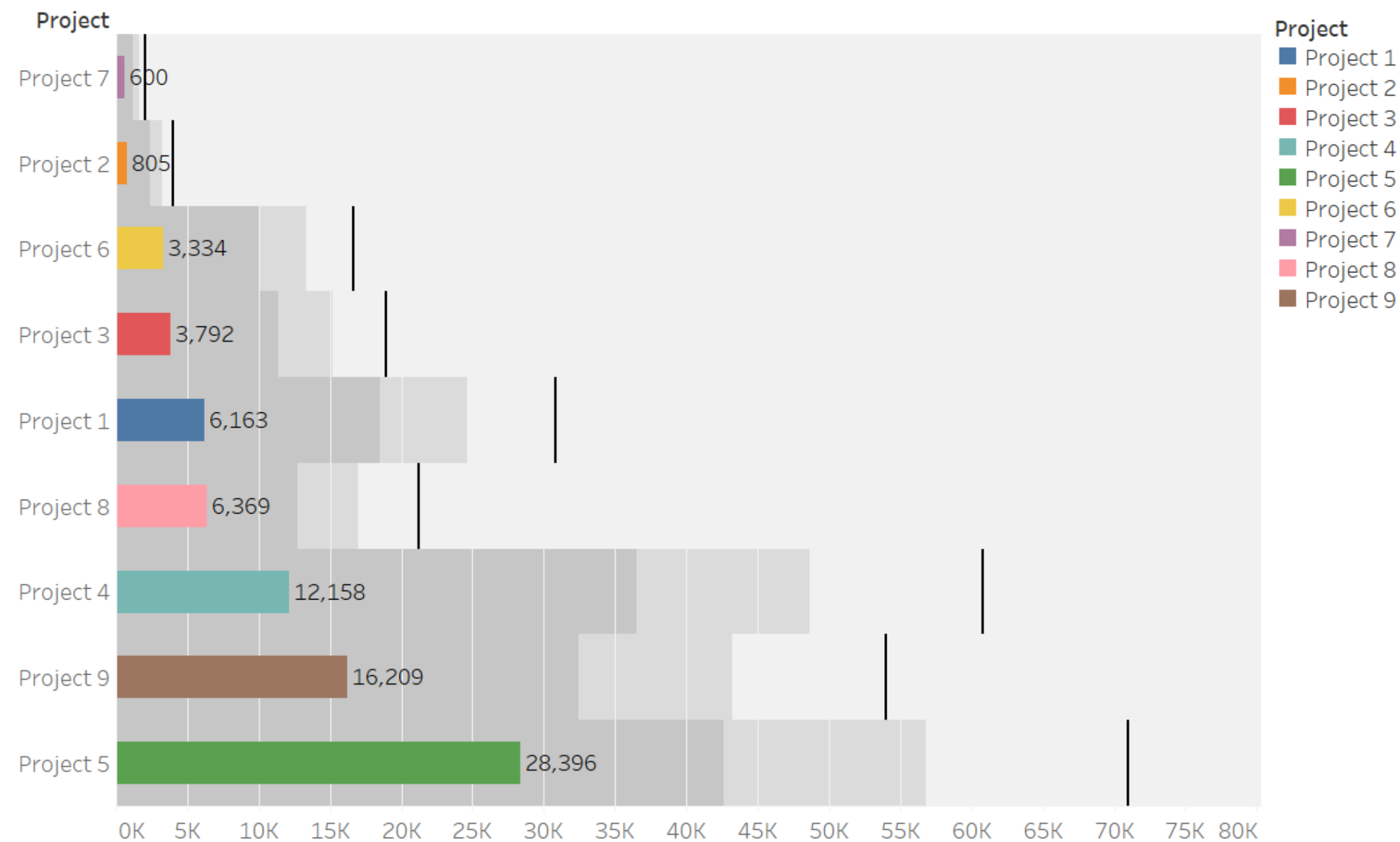
Project



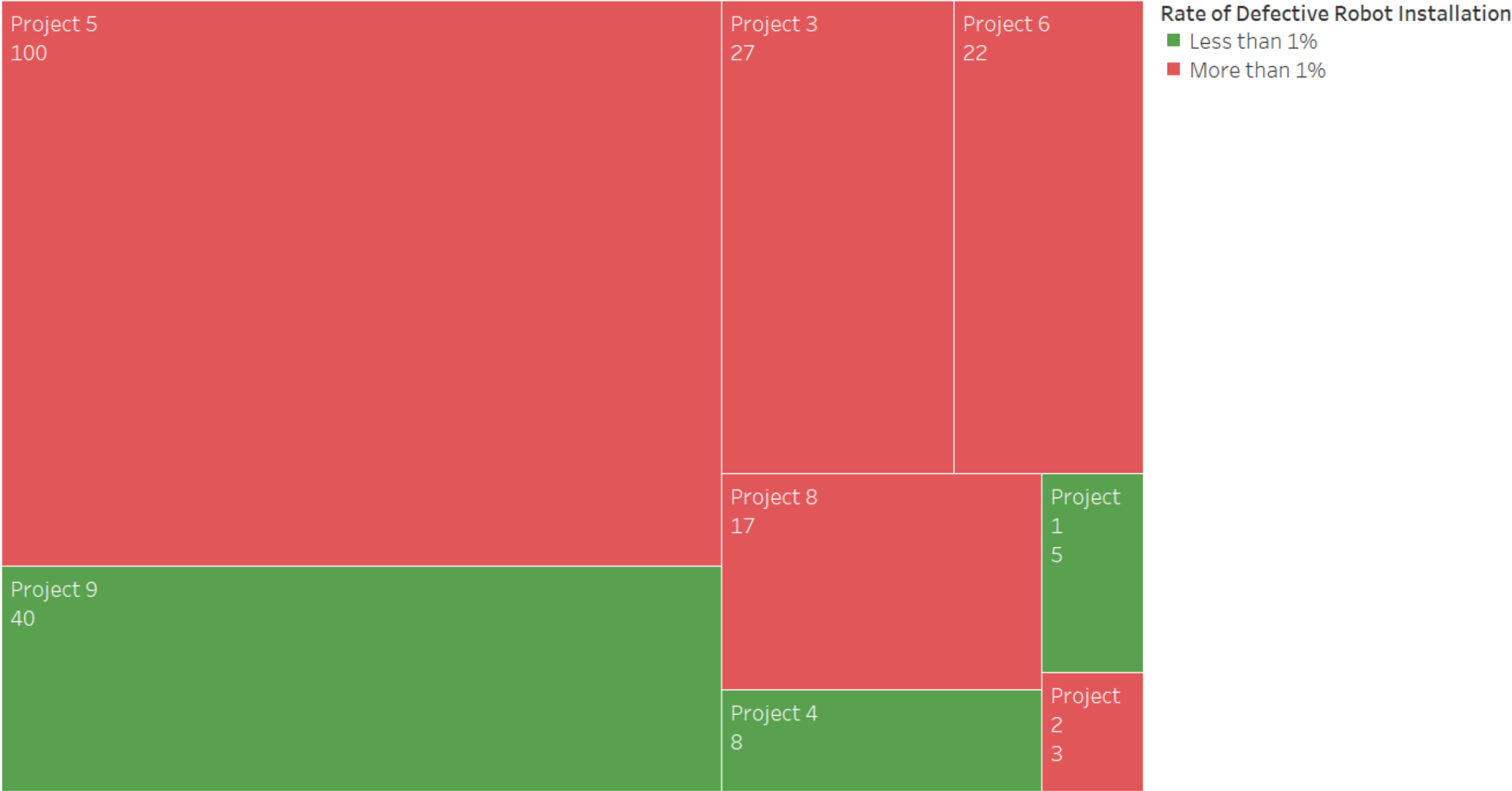
Legend

- Number of Shelves Installed
- 1st Month Plan for Shelf Installations
- Total Shelf Installations Planned

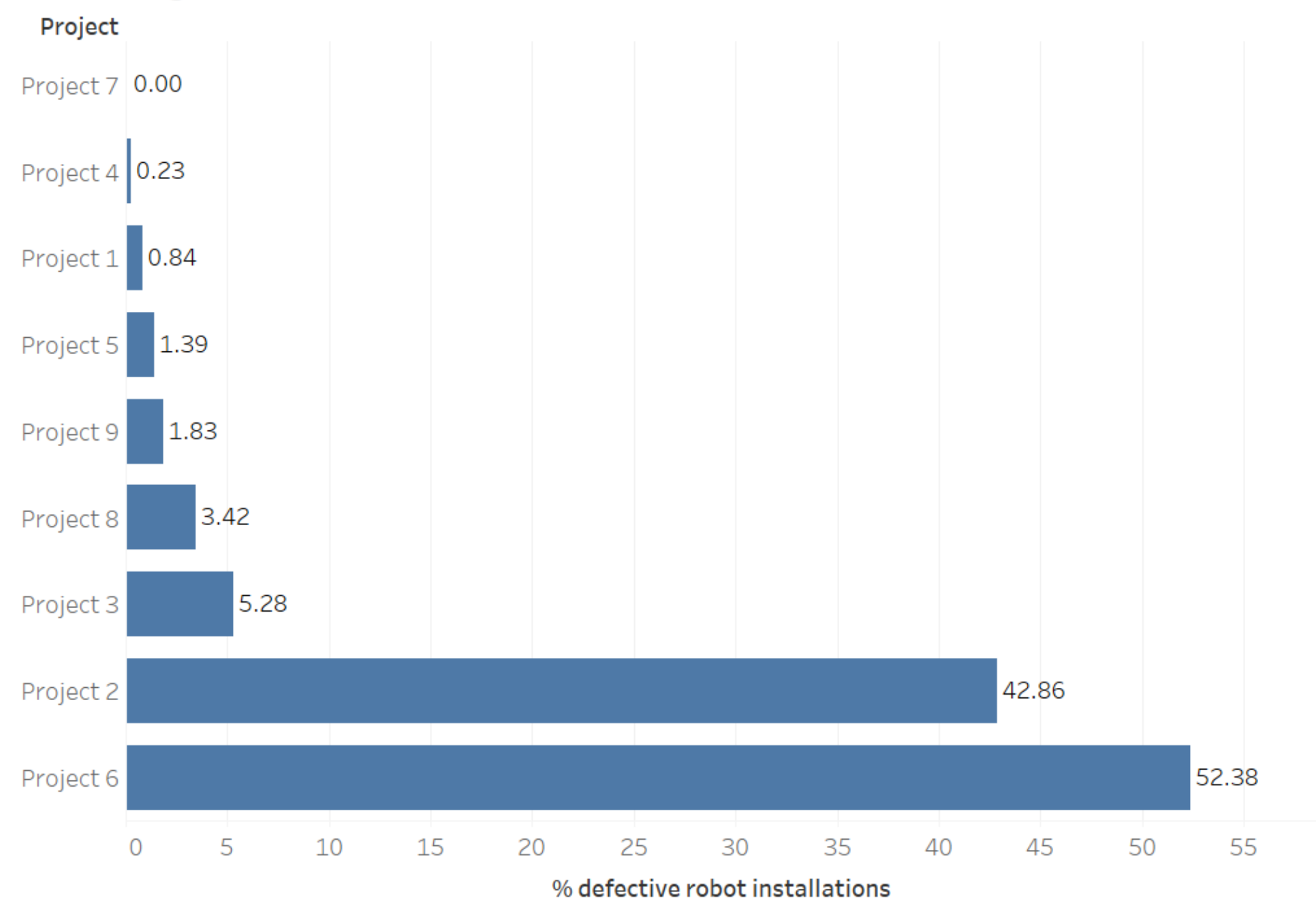
Utilization of Budget in each Project



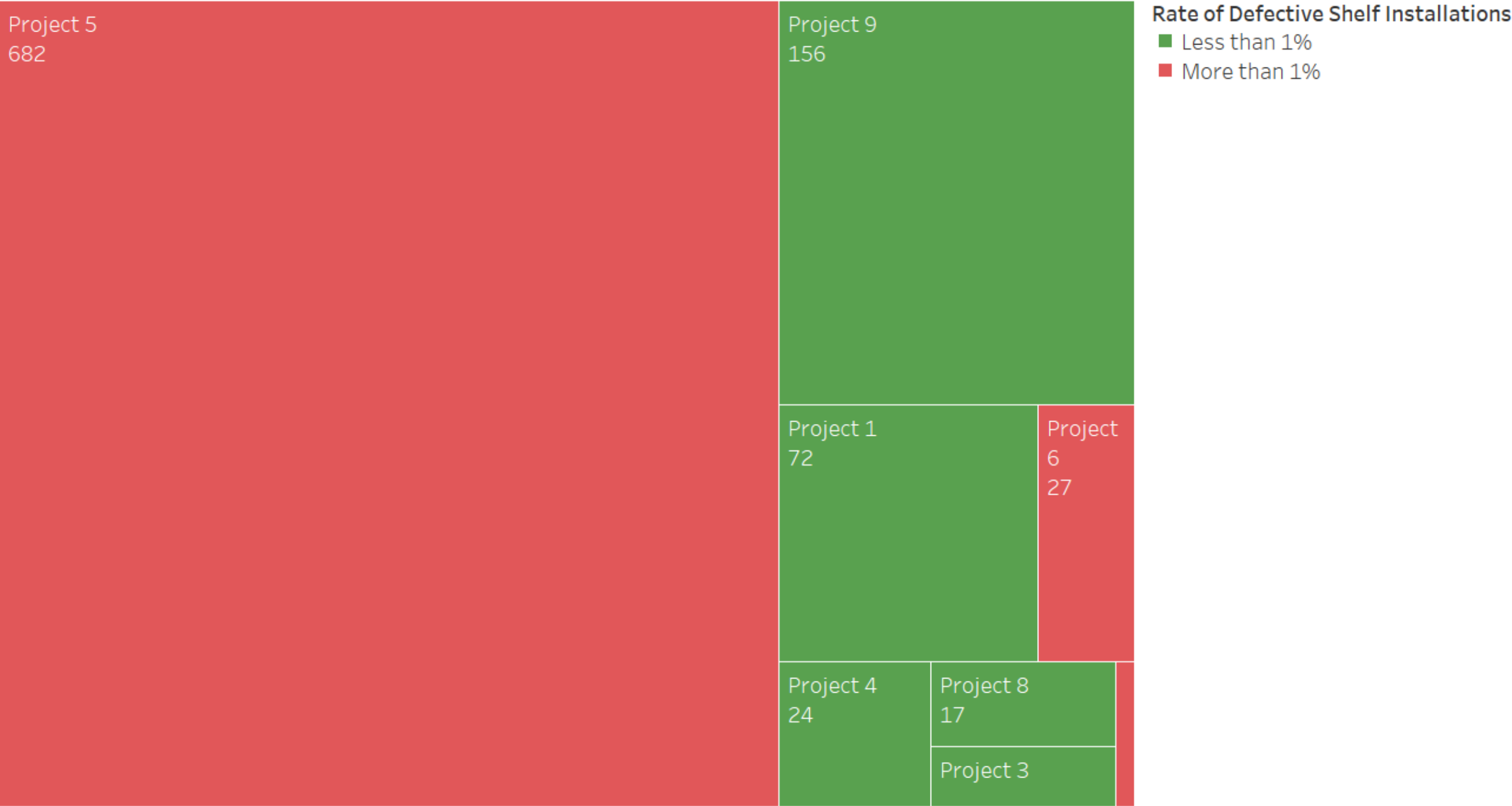
Defective Robot Installations per Project



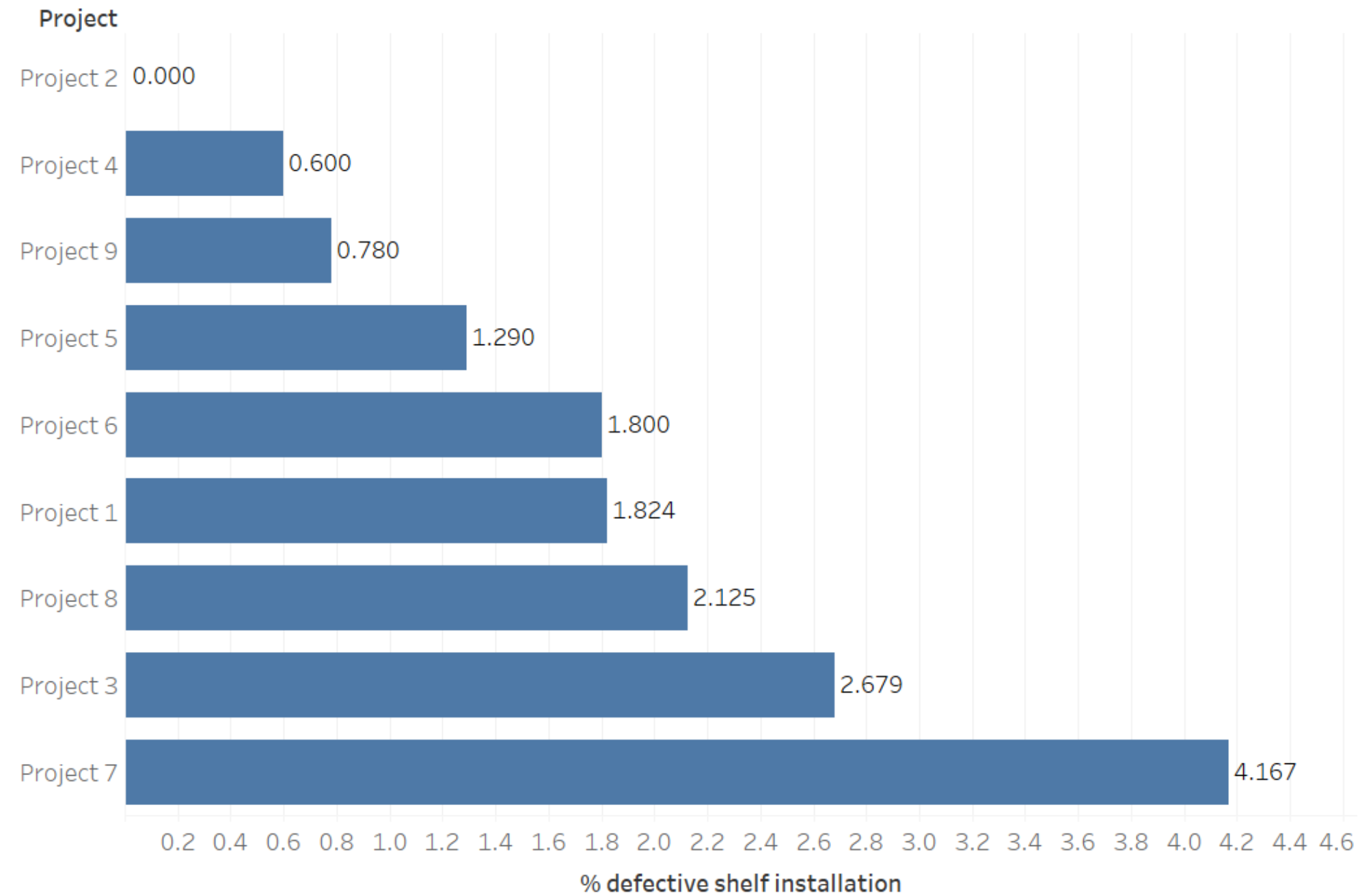
Percentage Defective Robot Installations



Defective Shelf Installations per Project



Percentage Defective Shelf Installations



Performance of Projects

Rate of Defective Shelf Installations
All

Rate of Defective Robot Installation
All

	Project								
	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6	Project 7	Project 8	Project 9
% defective robot installations	0.8	42.9	5.3	0.2	1.4	52.4	0.0	3.4	1.8
% defective shelf installations	1.8	0.0	2.7	0.6	1.3	1.8	4.2	2.1	0.8
% budget used	20.0	20.0	20.0	20.0	40.0	20.0	30.0	30.0	30.0
% 1st month plan achieved for robot installation	149.1	33.3	228.1	50.0	88.9	46.2		142.0	28.5
%1st month plan completed for shelves installation	108.0	9.5	100.0	95.6	95.4	150.9	257.1	101.1	40.0

Observation

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 table.

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.