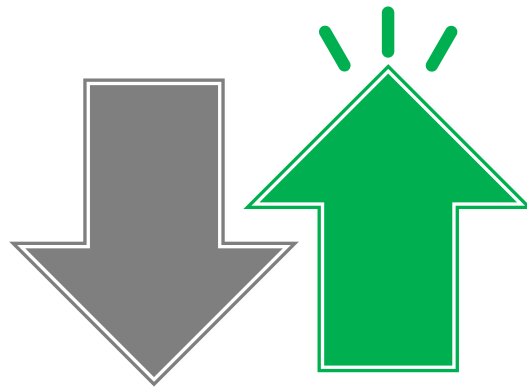
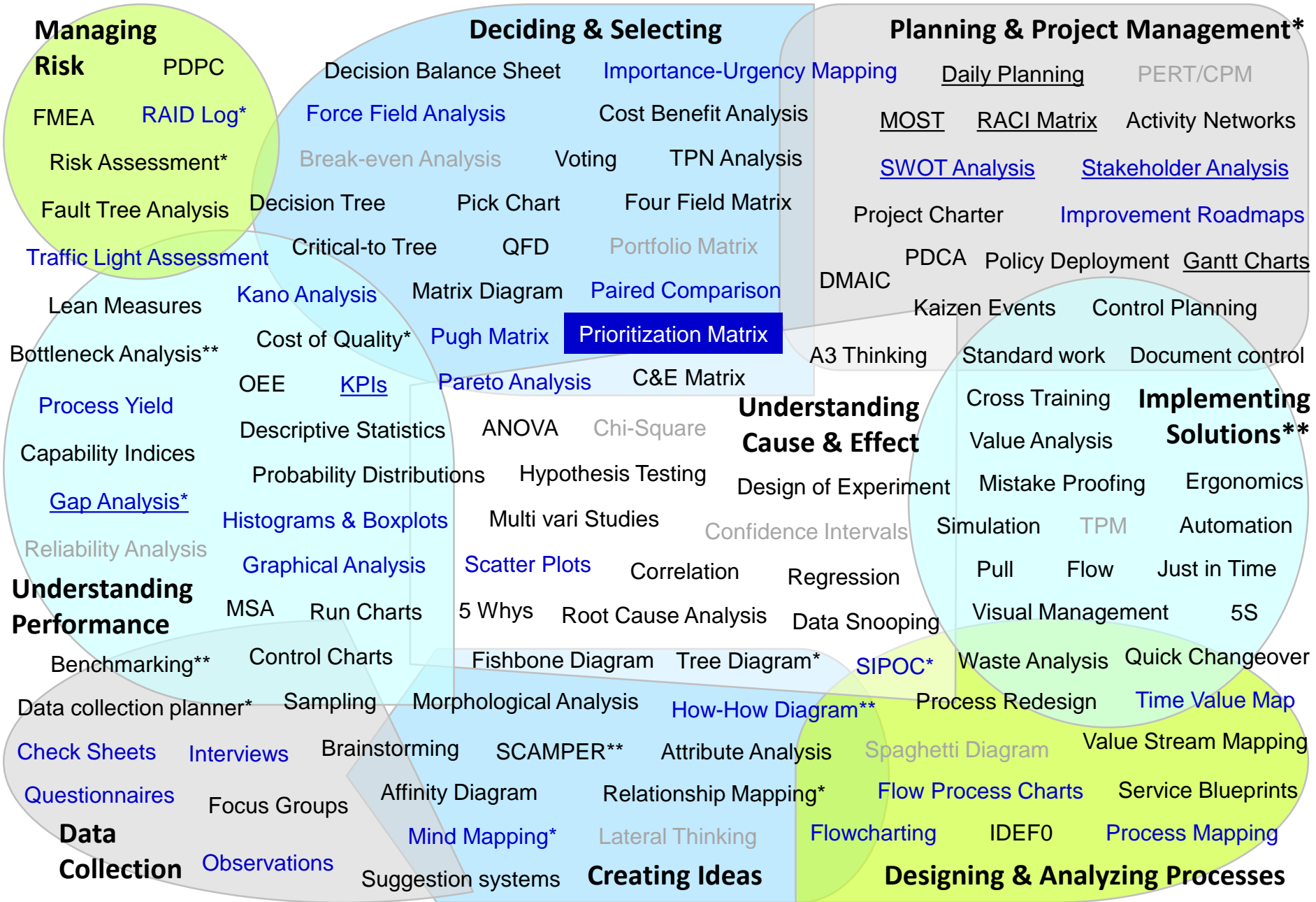


Continuous Improvement Toolkit

Prioritization Matrix

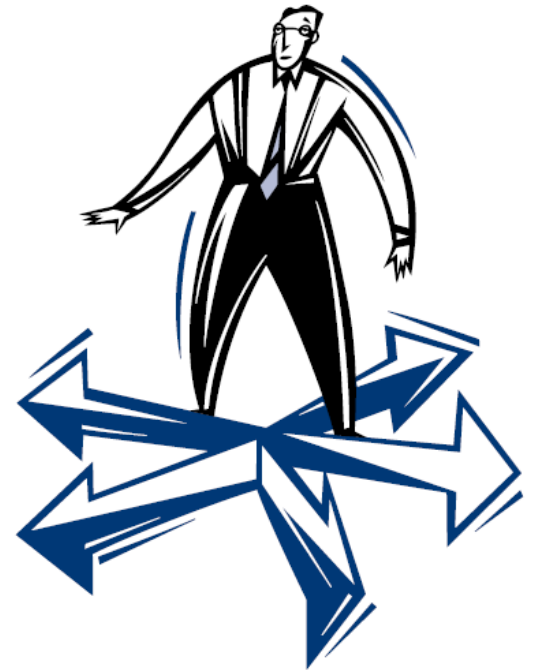


The Continuous Improvement Map



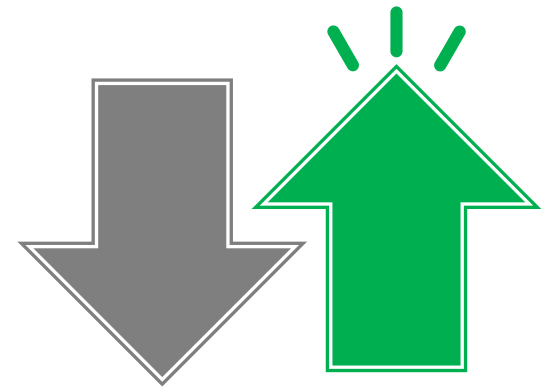
- Prioritization Matrix

- **Prioritization** is an essential skill that needs to be mastered to make the best use of your own and your teams time and effort.



- Prioritization Matrix

- ❑ A **Prioritization Matrix** provides a way to prioritize a diverse set of items into an order of importance.
- ❑ Allows the team to select the most appropriate option from several alternatives based on a predefined criteria.



- Prioritization Matrix

Uses:

- ❑ To prioritize a list of items to select and decide a further action.
- ❑ Often used in the project selection process.

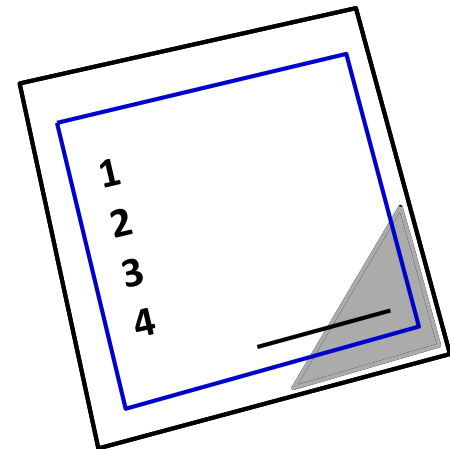
❑ Examples:

- A project that you need to start.
- An issue that you need to resolve.
- A solution that you need to implement.



- Prioritization Matrix

- ❑ It helps reduce options to the most effective and least costly.
- ❑ It allows the team to agree on the priorities and move toward the action collectively.
- ❑ It helps make use of time and resources to focus on the things that really matter.



- Prioritization Matrix

Assessment Criteria:

- ❑ Developing them is the first step before prioritizing.
- ❑ Help narrow down the discussion.
- ❑ Provide a constant basis for comparison.
- ❑ Should cover all the aspects of the study to ensure that the selected option will be effective.
- ❑ Should be measured easily and objectively.



Brainstorming

→ Generate criteria

Affinity diagrams

→ Organize criteria

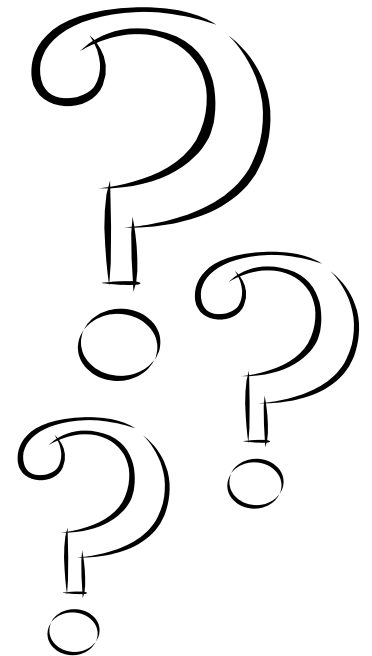
Voting

→ Reduce criteria

- Prioritization Matrix

Questions That may Help:

- ❑ Will the solution solve the problem permanently?
- ❑ Will it improve customer satisfaction?
- ❑ What are the cost for implementing the solution?
- ❑ How easy is it to do?
- ❑ How much time it will take?
- ❑ Are there any potential problems or risks that can arise in future?
- ❑ Are there any potential regulatory or safety issues that need to be considered?



- Prioritization Matrix

Weighting Criteria:

❑ You may weight up your assessment criteria by:

- Totaling the scores collected during the assessment criteria development session.
- Allowing your team to distribute a certain number of points between the selected criteria.

Criteria / Name	Adam	Emir	Sara	Zekaria	Total
Cost effective	40	55	20	40	155
Decreased defects	15	20	30	15	80
Increased productivity	40	10	50	30	130
User friendly	5	15	0	15	35
	100	100	100	100	

- Prioritization Matrix

Example of a Prioritization Matrix Template:

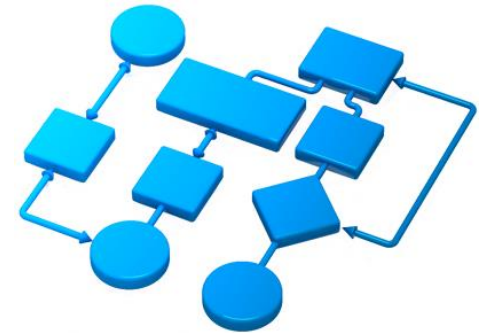
Criteria					Weighted score	Rank
Solution – Option / Weight						

Criteria	Cost effective	Decreased defects	Increased productivity	User friendly	Weighted score	Rank
Solution – Option / Weight						
New equipment 1						
New equipment 2						
New equipment 3						
New equipment 4						

- Prioritization Matrix

How to Construct and Use a Prioritization Matrix:

- ❑ Explain the purpose for constructing the prioritization matrix.
- ❑ Agree on the items that need to be prioritized.
- ❑ Ensure that the criteria and their weightings are set and agreed by all.
- ❑ Allow each member to score each item against each criterion.
- ❑ Calculate the final weighted scores for each item.
- ❑ Sort the items by their ranks to make them clearer.



- Prioritization Matrix

Example – Project Selection:

- In the example below, the team has to select the most profitable among five candidate projects.

Project Title	Cost \$	Savings \$ (1 st year) X3	Months to complete
Energy reduction	\$36,000	\$43,000	10
Spoilage reduction	\$30,000	\$120,000	12
Reduce strap width	\$5,500	\$11,000	3
Reduce stretch wrap usage	\$7,000	\$4,000	5
Reduce over varnish usage	\$20,000	\$66,000	8

- Prioritization Matrix

Example – Project Selection:

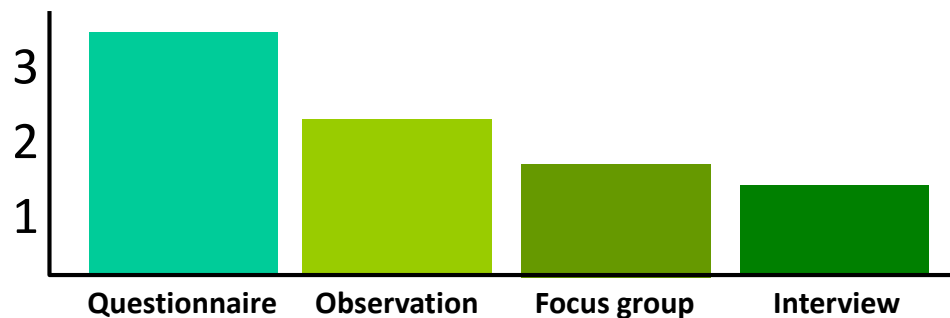
- They agreed that savings should be given a weight of 3 as it is relatively more important than the other criteria.

Project Title	Cost \$	Savings \$ (1 st year)	Months to complete	Weighted score	Rank
Weight		X 3			
Energy reduction	1	3X3= 9	2	12	4th
Spoilage reduction	2	5X3 = 15	1	18	1st
Reduce strap width	5	2X3 = 6	5	16	3rd
Reduce stretch wrap usage	4	1X3 = 3	4	11	5th
Reduce over varnish usage	3	4X3 = 12	3	18	1st

- Prioritization Matrix

Example - Select the Most Efficient Data Collection Method:

Project Title	Cost effective	Response time	Quantity	Weighted score	Rank
Weight	0.4	0.2	0.3		
Questionnaire	4	1	5	3.3	1
Interview	1	4	1	1.5	4
Observation	3	2	2	2.2	2
Focus group	1	4	2	1.8	3



- Prioritization Matrix

Further Information:

- ❑ Prioritization matrix is often used when simple voting is not enough to make an informed decision.
- ❑ Pilot studies can be used to check the effectiveness of a solution in practice before full implementation.