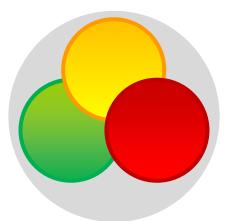
## Continuous Improvement Toolkit

## **Traffic Light Assessment**



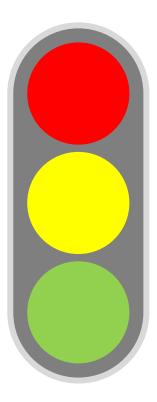
#### The Continuous Improvement Map

Managing	Selecting & Decision Making Planning & Project Management*
Risk PDPC	Break-even Analysis Importance Urgency Matrix Daily Planning PERT/CPM
FMEA RAID Log*	Quality Function Deployment Cost Benefit Analysis MOST RACI Matrix Activity Networks
Risk Analysis*	Payoff Matrix Delphi Method TPN Analysis SWOT Analysis Stakeholder Analysis
Fault Tree Analysis Dec	cision Tree Pick Chart Voting Four Field Matrix Project Charter Improvement Roadmaps
Traffic Light Assessment	Critical-to X Force Field Analysis Portfolio Matrix PDCA Policy Deployment Gantt Charts
Lean Measures OEE Ka	ano Decision Balance Sheet Paired Comparison DMAIC Kaizen Events Control Planning
Process Yield Cos	at of Quality* Pugh Matrix Prioritization Matrix A3 Thinking Standard Work Document control
Project K	KPIs Pareto Analysis Matrix Diagram Best Practices Implementing
Capability Indices Descri Gap Analysis*	ptive Statistics Chi-Square Nonparametric Cause & Effect TPM Automation Solutions***
Bottleneck Analysis	obability Distributions Hypothesis ANOVA DOE Mistake Proofing Health & Safety
Histor	grams Normal Distribution Multivariate Multi-vari Studie <mark>s Simulation Just in Time 5S</mark>
Grap	phical Methods Scatter Plots Correlation Regression Quick Changeover Visual Management
Understanding Performance**	un Charts 5 Whys Root Cause Analysis Data Mining Product Family Matrix Flow Pull
	trol Charts Fishbone Diagrams Relations Mapping SIPOC* Spaghetti** Process Redesign
Data collection planner*	Sampling How-How Diagram*** Tree Diagram* Waste Analysis** Value Stream Mapping**
Check Sheets** Interviews	Brainstorming SCAMPER*** Attribute Analysis Value Analysis** Process Mapping
Questionnaires Focus C	Groups Affinity Diagrams Morphological Analysis Flow Process Charts** Time Value Map**
Data Observa	ations Mind Mapping* Lateral Thinking Flowcharting IDEF0 Service Blueprints
Collection Sugg	estion Systems Five Ws Group Creativity Designing & Analyzing Processes

#### A rating system

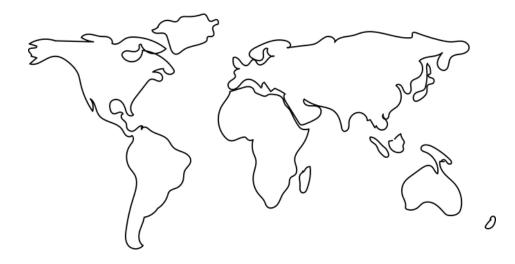
Evaluates the **performance** in relation to a goal

Results are expressed using the **three colors** of the real traffic lights



A good way to communicate information

Have the advantage of being universally recognized

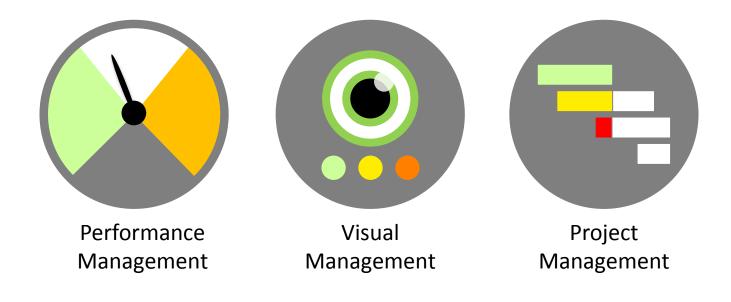


Good and poor performance can easily be identified

The results help in **decision making** 



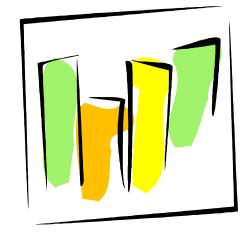
#### Traffic lights systems concepts are widely used in . . .



### **Performance Management**

Helps **presenting** performance information for decision making purposes

Often used in management review meetings



### **Performance Management**

Results are expressed in terms of colors . . .

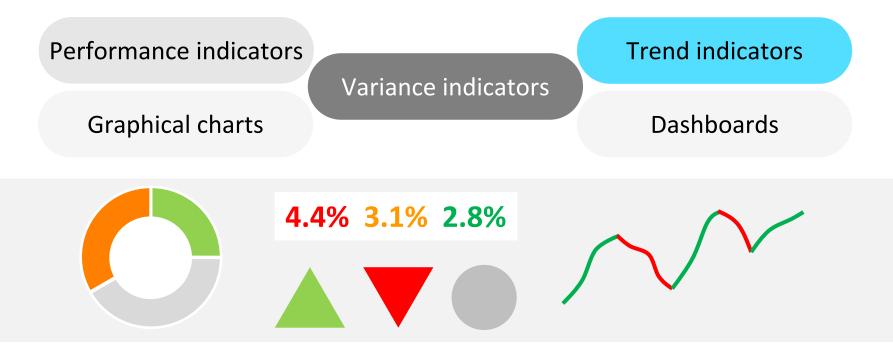
A performance that is **far below** from target

A performance that is a bit below from target

An expected performance (or better than expected)

### **Performance Management**

### Traffic light colors can be applied to . . .



### **Performance Management**

Applications . . .

Performance and trend reports

**Financial reports** 

Marketing reports

Customer satisfaction reports

Quality control reports



### **Performance Management**

Applications . . .

Risk management and safety audits

**Compliance audits** 

Staff training and development

Staff performance management

Retention analysis and planning

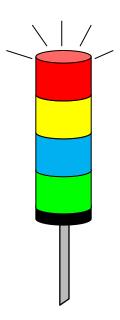


## **Visual Management**

Traffic light assessment is frequently used in **factories** 

The **Andon display** uses traffic light signals to communicate production information

It helps bringing immediate **attention** to problems as they occur



### **Visual Management**

### Information is expressed in terms of colors . . .

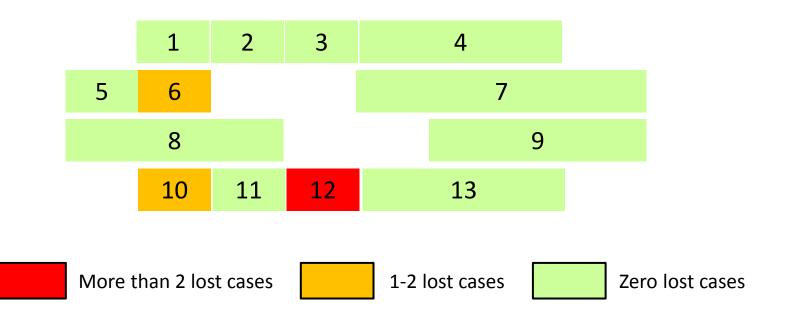
A production that has stopped or a line that is down

Production has slowed down / attention is needed to fix something

Normal production levels and a line that is running smoothly

Operation needs something (material, tooling, ...)

### **Visual Management**

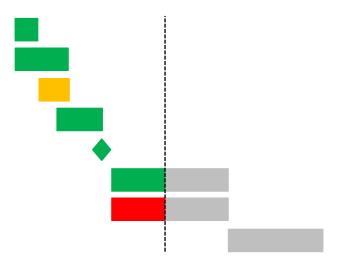


A map for the areas which have the **most safety incidents** that resulted in lost time

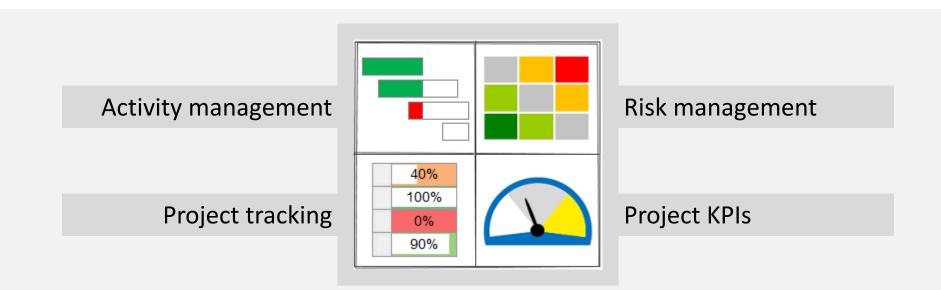
### **Project Management**

How well **activities** and **milestones** are being achieved?

How on track the overall project is?



### **Project Management**



### **Project Management**

### Project information is expressed in terms of colors . . .

An activity that is incomplete

An activity that is **partially completed**, or was completed after due date

An activity that was **completed** on time, or ahead of time.

### **Project Management**

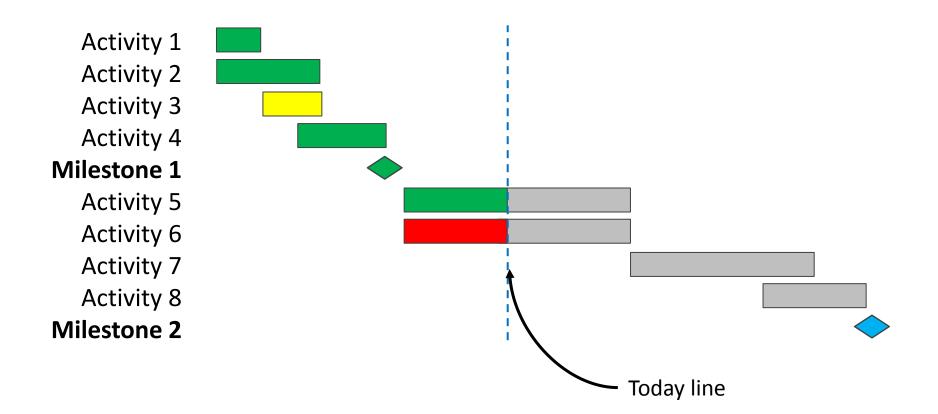
#### Additional colors can be used to convey specific information . . .

Scheduled activities

On hold activities

New added or changed activities

### **Project Management - Example**

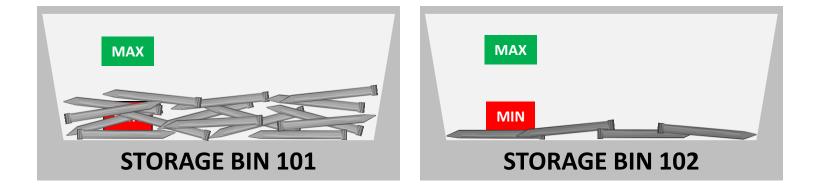


## **Other Uses**

Marking inventory levels and reorder triggers

**Communicating the status** of a material or product

Knowing what a team think of a particular idea



### **Other Uses**

#### Team members may use them to assess an idea . . .

An idea that is poor or inappropriate

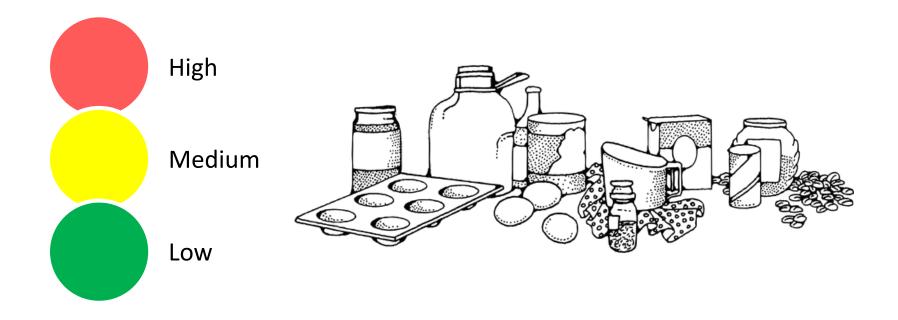
A good idea, or an idea that needs to be reviewed

An excellent idea



### **Other Uses**

In the **food industry**, traffic light labels can be used to show how much fat, sugar and salt exist in the food products

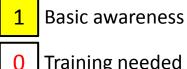


## **Other Uses – Skills Matrix**

ID	Name	Job Title	Safety Intro.	Product Defects	SPC	5S	SOP	DMAIC	FMEA	Score
3113	Harvey	Supervisor	2	2	2	0	4	0	0	10
3120	Sami	Supervisor	2	4	3	1	3	2	0	15
3181	Emer	Maintainer	1	1	2	2	4	0	0	10
3109	Zekaria	Maintainer	0	1	1	0	3	0	0	5
3110	Shadi	Inspector	0	2	0	0	2	0	0	4
3193	Peter	Inspector	1	3	1	0	2	1	0	8
3174	Kumar	Inspector	1	2	1	1	1	0	0	6
Training Requirement Score:			5	2	4	6	1	6	7	

Trainer level 4

3 Practical experience



Training needed

2 Little practical experience

### **Further Information**

Use charts rather than detailed data where relevant

Sometimes, the letters R, Y and G (or R, A and G) are used in addition to the colors