



# DMAIC Roadmap

## ? What is It

DMAIC is a quality **improvement** and **problem-solving** method used to **improve business performance**. During the DMAIC process, improvement happens project by project; a “project” can be best defined as a “**problem scheduled for a solution.**”

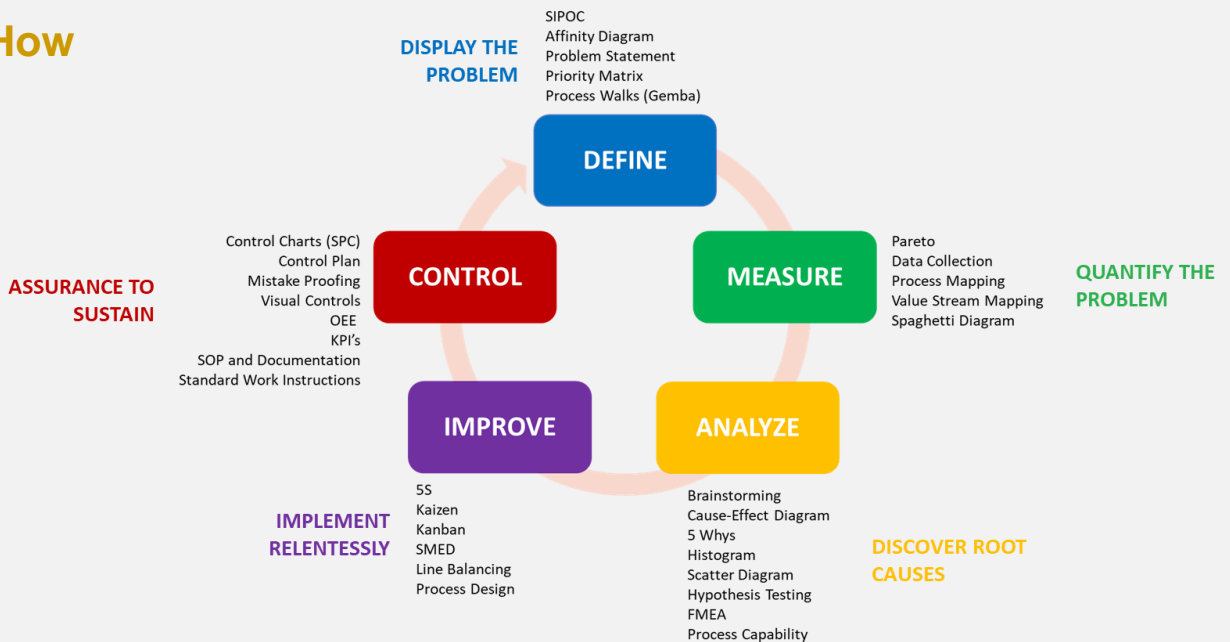
## 🕒 When

- To support **operational excellence** improving customer value.
- To reduce or eliminate **8 Wastes (DOWNTIME)**.
- To solve complex **Problems**.

## 🎯 Goals

- **Build Culture of Excellence.**
- **Reduce costs and sustain them.**
- To support **innovation** across the organization.

## 📊 How



## 📄 Example

## 💡 Hints

- Assure **quality thinking**, is the best way of doing business.
- Use **metrics** that are tied to organization.
- **Lean culture is fun**, sponsor it.
- Identify projects that drive **quality** and **sustainable results**.

	LEAN: PDCA	SIX SIGMA: DMAIC
PLAN	Detect improvement opportunity, do a quick root cause analysis, identify potential root causes and potential countermeasures	<b>DEFINE</b> Define problem, have sponsor and champion, schedule toolgates, establish CTQ metric and a preliminary problem statement
		<b>MEASURE</b> Choose outcome indicator, baseline metrics, and areas of opportunity
		<b>ANALYZE</b> Root cause analysis and other testing tools (Cause-effect, Hypothesis testing if needed)
DO	Implement the countermeasures and/or improvement initiative, test and verify the improvement	<b>IMPROVE</b> Brainstorm the potential solutions, verify the root causes, implement, perform a pilot test.
CHECK	Review the results	<b>CONTROL</b> Review results, report implementation, adjust where necessary. Hand off and close project.
ACT	Adjust where necessary, implement and report results	