

DMAIC - A SNAPSHOT ANALYSE **IMPROVE** DEFINE MEASURE CONTROL identify the cause of the Implement and verify the What exactly is the issue and Quantify the current state Maintain the Solution (determine the baseline) can we deal with it solution problem Aim: Clearly state the specific business Aim: Understand the "As Is" state -Aim: Get to the root cause(s) of Aim: Determine a solution which will **Aim**: Ascertain that the action problem, goal, potential resources, project how the process is performing and the problem, flesh it out, and solve the identified problem improvements carried out in the *Improve* scope and high-level project timeline what the magnitude of the problem is derive the "To Be" or "future state" phase have worked and are wellmaintained What solutions are available and Has it been embedded in BaU? What exactly is the issue? Ouantify the current state Move from subjectivity to fact what is best for the process? SPC Problem/goal statement Operational definitions SPC - Analyse Identified/tested root causes Visual management **Business Opportunity** Data collection method/plan Consensus tools Data collection form Project documentation - other Brainstorming Problem solving Continuous kaizen, 5S etc Select probable root causes 5S / Poka Yoke Standard Operating Procedures Sampling (and frequency) Dealing with the issue Project charter Validated root causes Brainstorming Updated working practices Is data representative/relevant? Project team / Team charter SPC / KPIs 5 Whys / Fishbone Training manuals / Training plans What is the cost/benefit/risk? Project management / Project plan Spaghetti diagrams **Affinity Diagrams** Assessment criteria How will progress be monitored? Process Definition - SIPOC / High Pareto Charts Lean process analysis Root cause analysis / FMEA Visual management level 'As Is' Process Map Gemba walk / Process stapling Regression Analysis Statistical data analysis Process control systems Stakeholder Management (inc Histograms Correlation Tools Implementing the 'fix' Was the project goal achieved? communication plan) Implementation schedule/events Benefit measurement What is current status of process? Impact of change on Process VoC - CTQ / Customer requirements / Establish baselines VSM target (To be) Pilot plan / Action plans Key Performance Indicators (KPIs) Customer/Feature diagrams / Kano Current VSM (As Is) Process capability (To be) **OTGIs** Close the project Validation of benefits Project report (inc lessons learned) Process Capabilty (Cp / Cpk) **FMFA** Yield / DPMO / Process Sigma Control plan Team celebration / Team disbanded Quick wins identified/proposed Continuous/Ongoing Improvements...