PDCA-Twister

A slightly different Canvas!
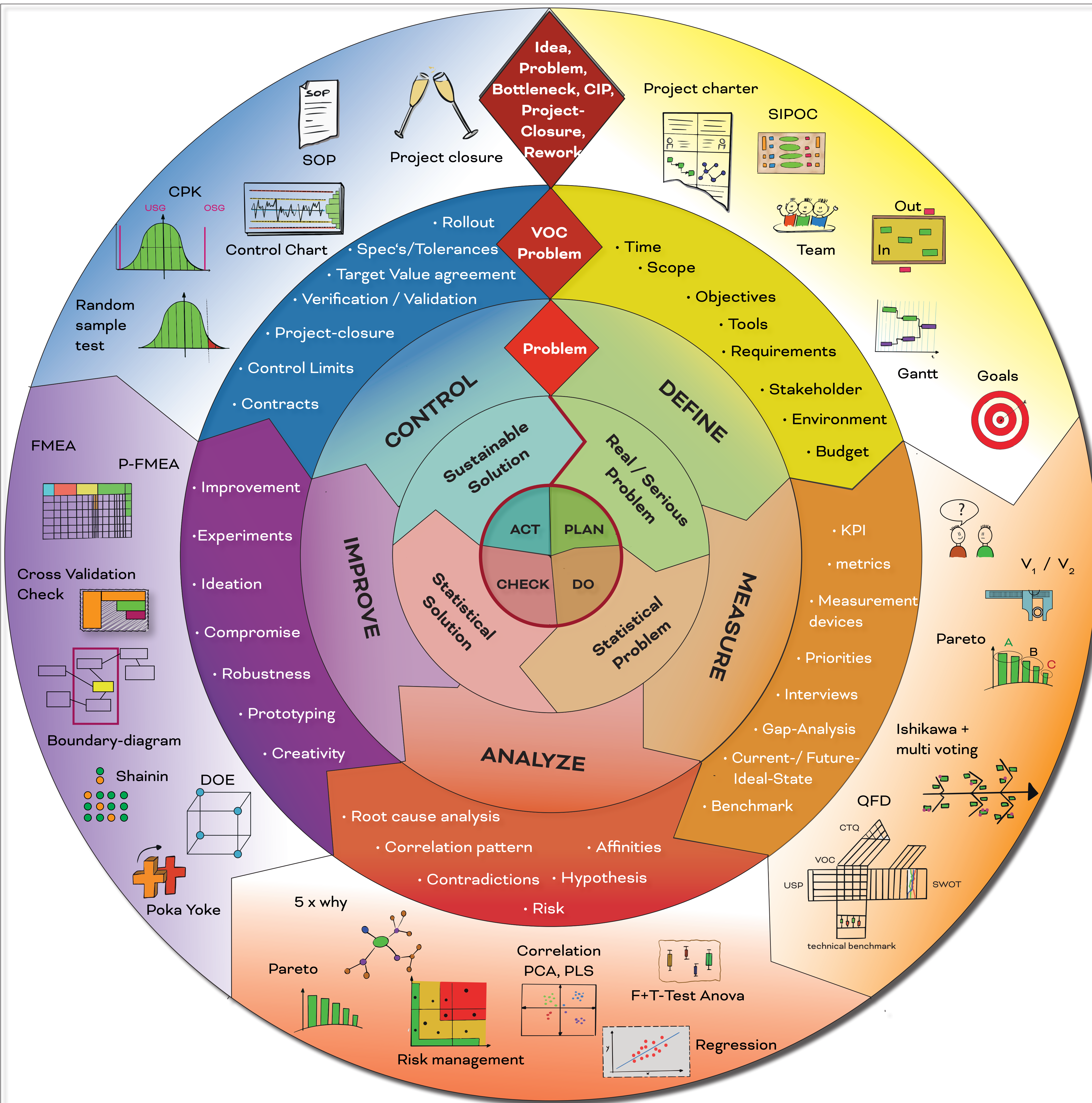
Challenge's name:

Problem / Objective:

Measurement -

Devices and Methods:

Analysis:

Improvements:

Control mechanisms:

Wheel diagram

Idea, Problem, Bottleneck, CIP, Project-Closure, Rework

Project charter

SIPOC

Team

SOP

Project closure

CPK

USG   OSG

Control Chart

Random sample test

VOC Problem

- Rollout
- Spec's/Tolerances
- Target Value agreement
- Verification / Validation
- Project-closure
- Control Limits
- Contracts

Problem

Out

In

Goals

- Time
- Scope
- Objectives
- Tools
- Requirements
- Stakeholder
- Environment
- Budget

Gantt

CONTROL

Sustainable Solution

DEFINE

Real / Serious Problem

ACT   PLAN

CHECK   DO

IMPROVE

Statistical Solution

MEASURE

Statistical Problem

FMEA   P-FMEA

- Improvement
- Experiments
- Ideation
- Compromise
- Robustness
- Prototyping
- Creativity

Cross Validation Check

Boundary-diagram

Shainin   DOE

Poka Yoke

V_1 / V_2

- KPI
- metrics
- Measurement devices
- Priorities
- Interviews
- Gap-Analysis
- Current-/ Future-Ideal-State
- Benchmark

Pareto

A B C

Ishikawa + multi voting

ANALYZE

- Root cause analysis
- Correlation pattern   • Affinities
- Contradictions   • Hypothesis
- Risk

5 x why

Pareto

Correlation PCA, PLS

F+T-Test Anova

Regression

Risk management

QFD

CTQ

VOC

USP   SWOT

technical benchmark

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MOSER STEFAN
PROCESS
OPTIMIZATION

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