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VARIABILITY

Waste

A symptomatic evidence of excess variation

LEAN

- MUDA
- MURI
- MURA

Six Sigma

1.5 Sigma Shift
Strive for Perfection

Types

- Inherent
 - Method
 - Measure
 - Materials
 - Men
 - Machine
 - Management
 - Environment
- Assignable

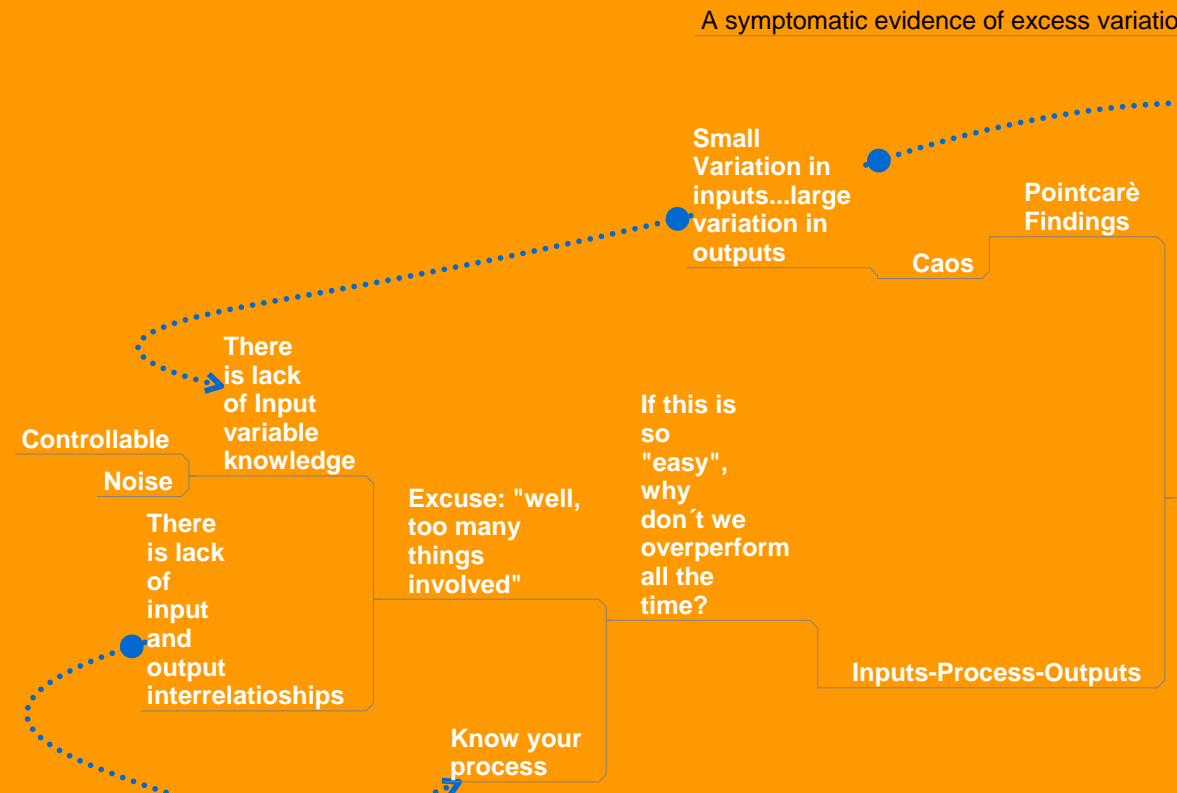
Approaches

- "Football"
- Taguchi's
- Loss of Quality:\$

In Statistics

- Accuracy
 - Central Tendency Measures
 - Mean
 - Arithmetic
 - Geometric
 - Harmonic
 - Median
 - Mode
 - Dispersion Measures
 - Range
 - Variance
 - Standard Deviation
 - C.O.V
- Precision

Process View



Problem Typology



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