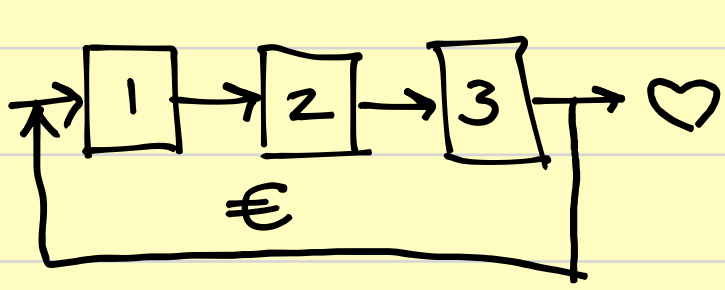
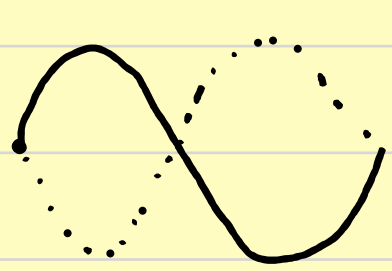
Industrie (Prozeße) 4.0

(Shah & Ward, 2003) Industrie 4.0 Systeme als (Systeme) welche die [1] Prozeßvariabilität [2] reduzieren durch einen [3] SOZIO-TECHNISCHEN [4] Ansatz.

1. Process. what is a process?

Sequence of steps toward a customer that add value for the customers.

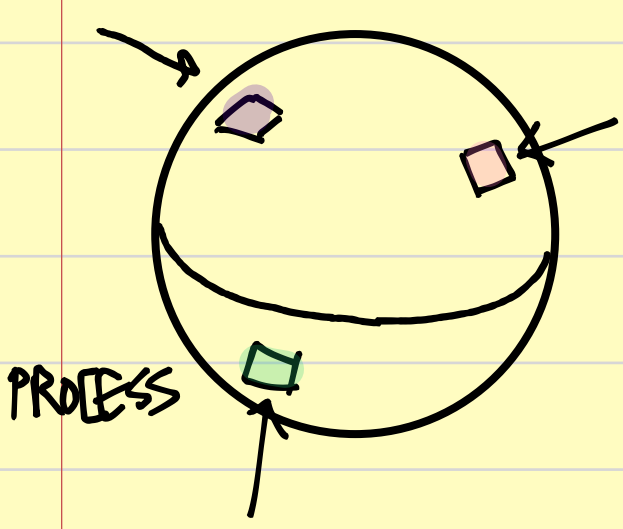




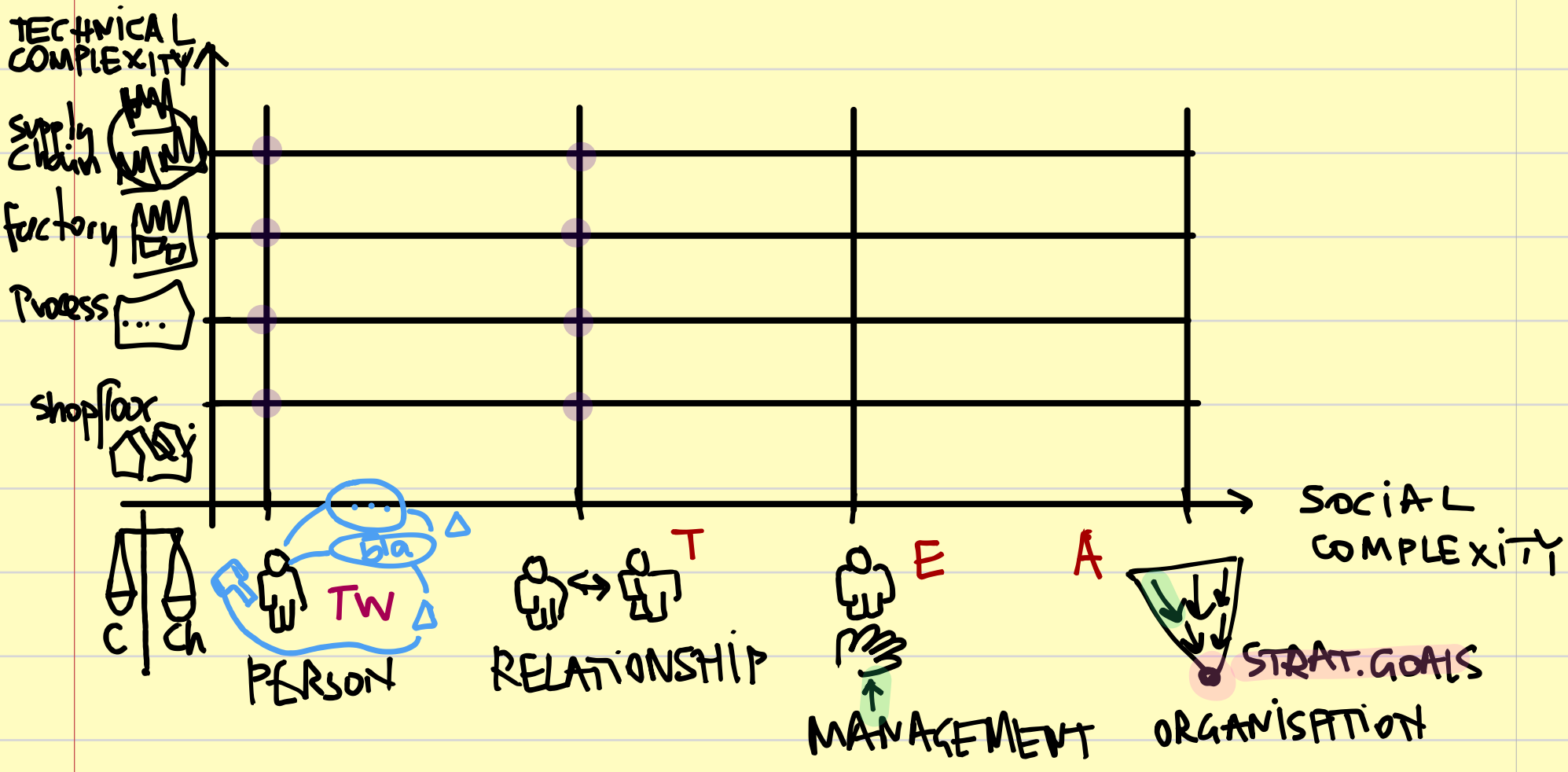
TAKT. TIME

VALUE STREAM (WERTSTROM)

2. VARIABILITY.



We measure variability of the process through K.P.I. that explain each a part of the process reality.

- Standard deviation of one KPI.
- For many KPIs we use the CO-VARIANCE matrix or CO-RRELATION matrix.

3. SOCIO-TECHNICAL FRAMEWORK