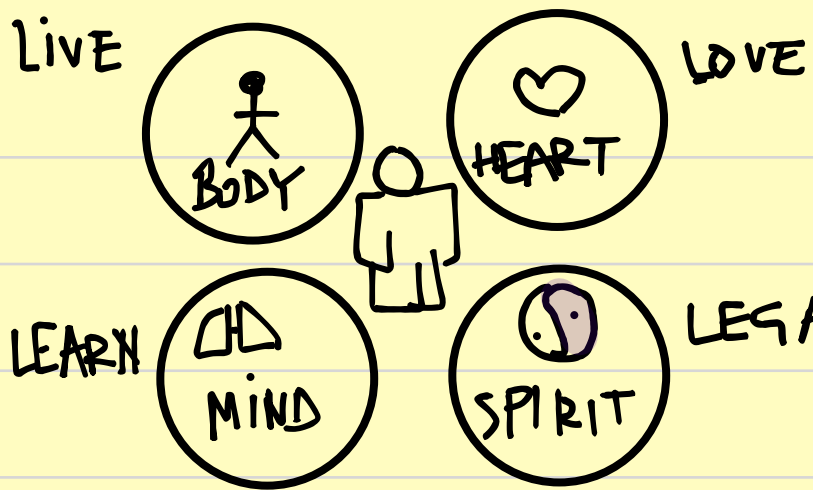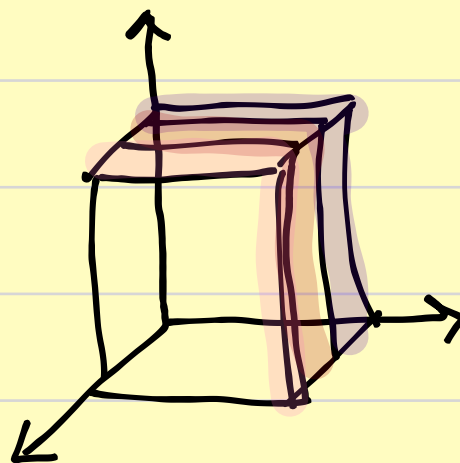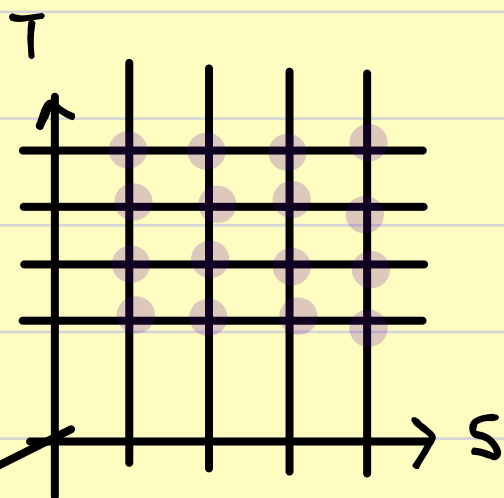歡迎

JAVIER
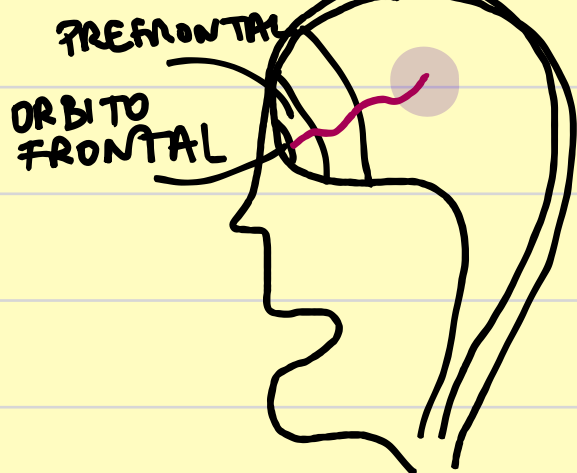# 4   w³. profH4 .com

CPS.

What is a CPS? (Shah & Ward, 2003) A system of
Socio-TECHNICAL nature that aims to syst. reduce
Process Variability.

$$\sigma_{KPI} = \frac{\sqrt{\sum(x_i - \bar{x})^2}}{n-1}$$

TECHNICAL

SUPPLY CHAIN

FACTORY

PROCESS

MACHINE

SOCIAL

TRUST WORTHY NESS

PERSON

RELATIONSHIP

TRUST

MANAGEMENT EMPOWER

ORGANIZATION

STRATEGIC GOALS ALIGNMENT

character | Competence

LIVE

BODY

LOVE

HEART

LEARN

MIND

LEGACY

SPIRIT

A.I.

1860 — 1960 — 1980 — 20xx

HUBRIS

PREFRONTAL

ORBITO
FRONTAL

T

S

I

II

III
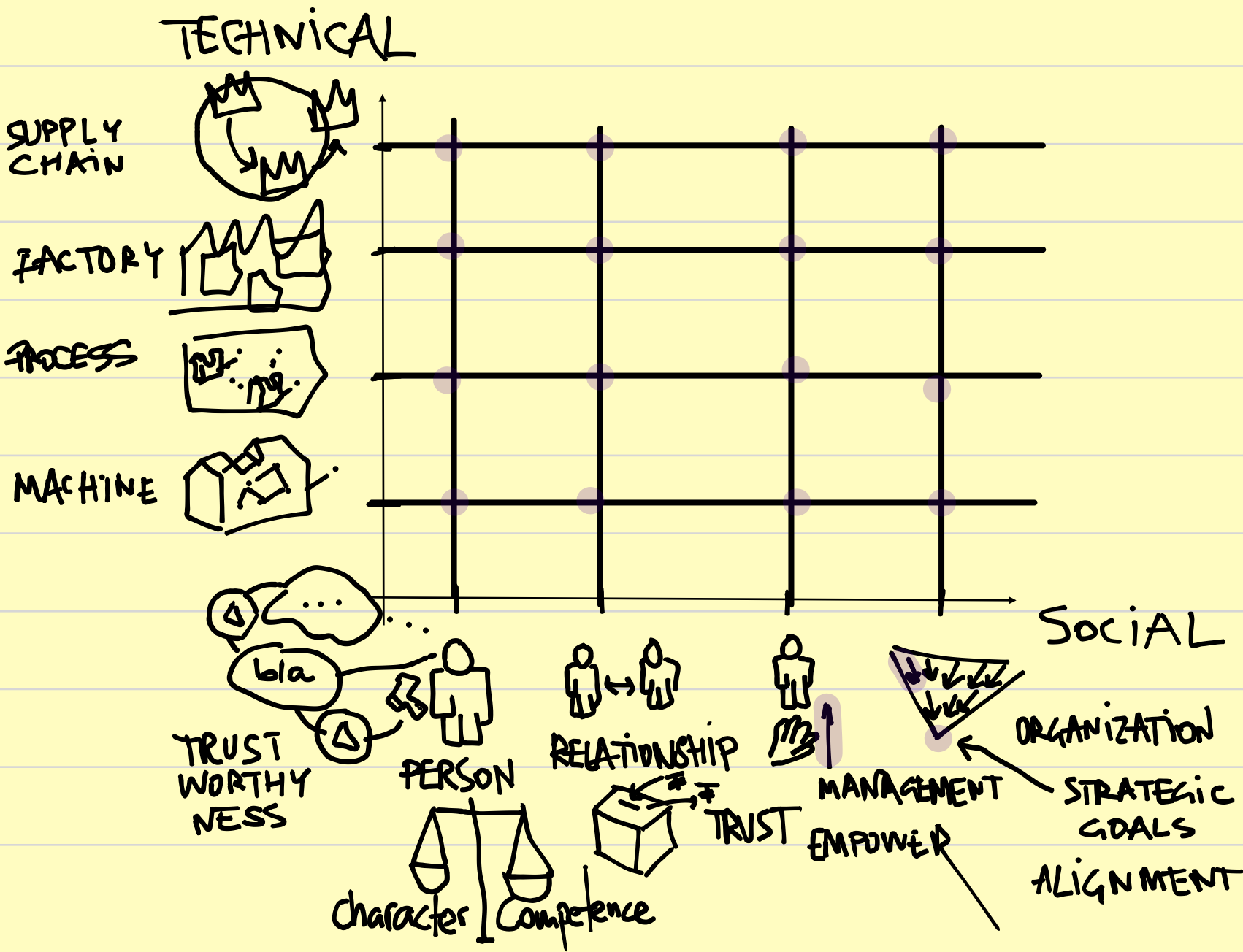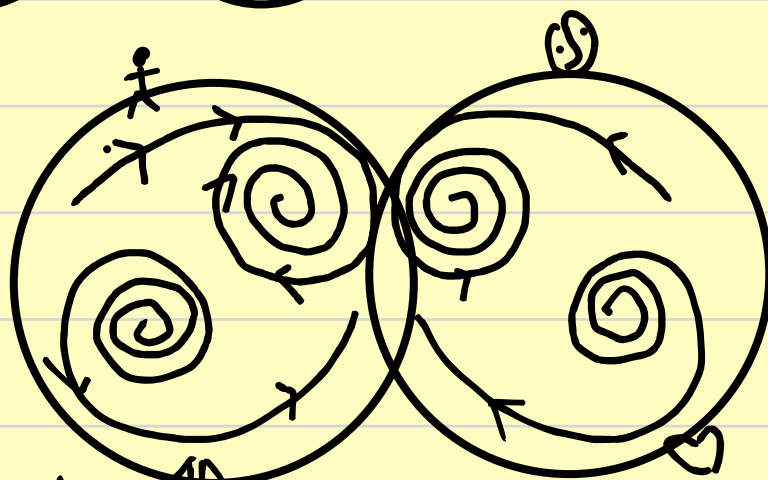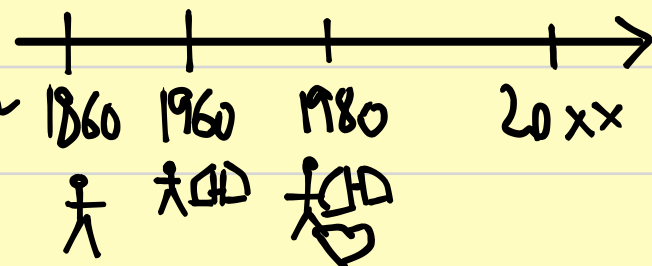
Digitalization
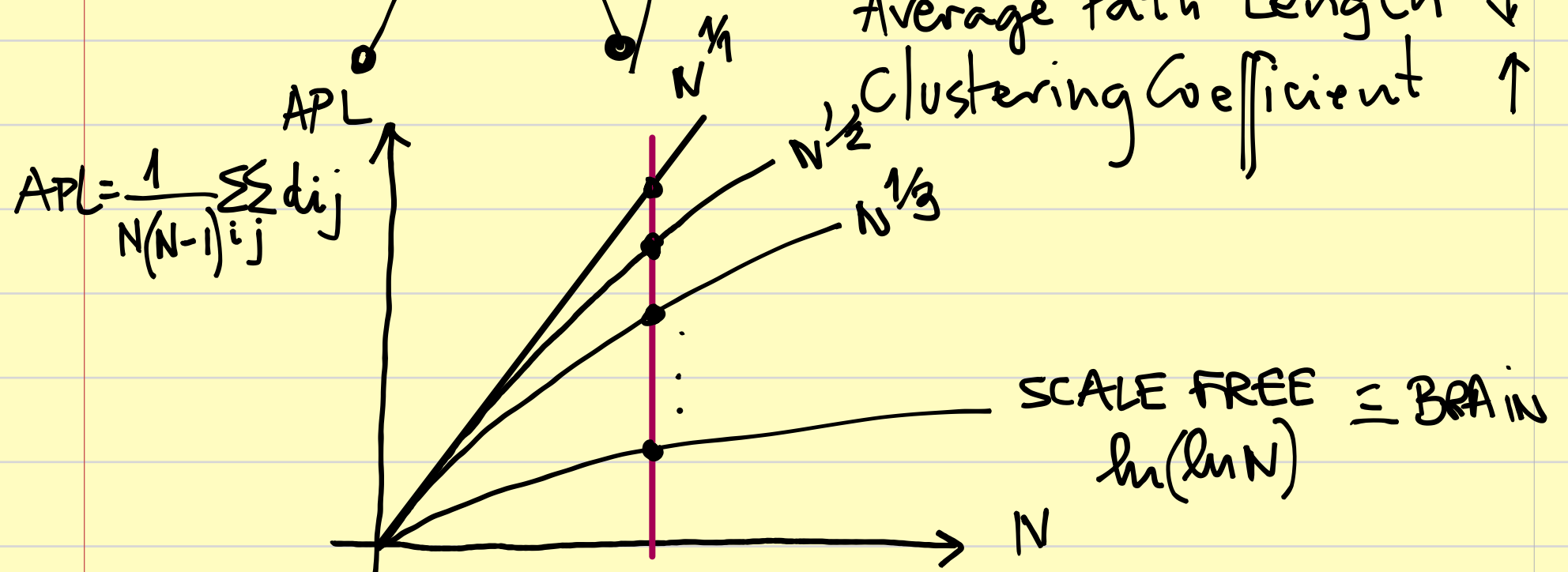
I. DATA.

II. KNOWLEDGE.

III. VALUE.

I. DATA
→ NODES . People / Machines / Products..
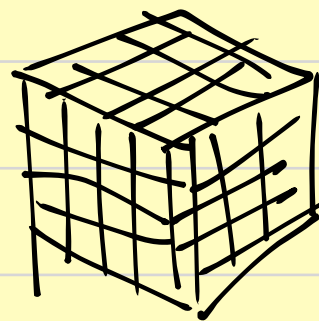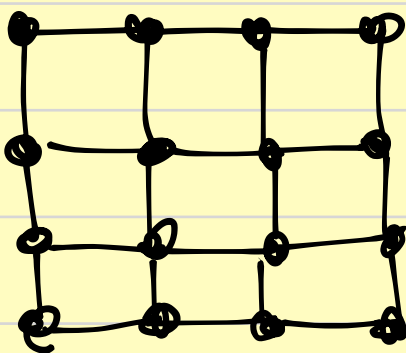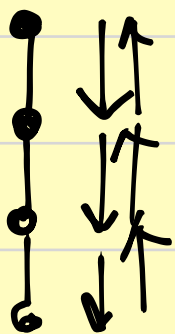↘ EDGES . Information / Material / cash / ...

CPS NETWORK

Graph = (N, E)

Average Path Length ↓
Clustering Coefficient ↑

APL

$$APL = \frac{1}{N(N-1)} \sum_i \sum_j d_{ij}$$

$N^{1/1}$
$N^{1/2}$
$N^{1/3}$

SCALE FREE ≡ BRAIN
$\ln(\ln N)$

N

1 Dimension.   2 Dimensions.   3. Dimension

Strategic Organizational Design

Network Science (Barabasi, 2016)

h4lean@gmail.com   w3.pro/H4.com