The potentials of Data & Artificial Intelligence for the Alpine area
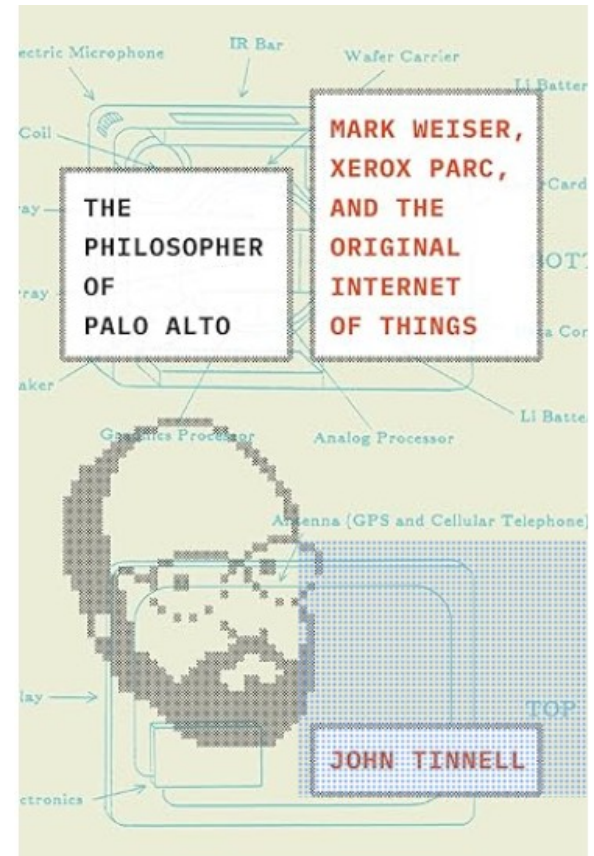
Dr. Mario Pichler, SCCH

digitalalps.eu

scch {
software
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Austrian research center for

- – Data Science
- – Software Science
- – Artificial Intelligence
- – Digital Transformation
- – ... further emerging technologies

From (academic) Ubiquitous Computing research to meaningful Digital Transformation (society) for the Alpine area

MARK WEISER,
XEROX PARC,
AND THE
ORIGINAL
INTERNET
OF THINGS

THE PHILOSOPHER OF PALO ALTO

JOHN TINNELL

What has changed?

… since the early days of UbiComp research …

… still technology push or (also) demand pull?

Context Awareness and AI

→ the specifics of Alpine areas for AI!?

→ (What) can we learn from other initiatives, e.g., smart cities, data/AI in manufacturing?

→ SmartVillages, SmartCommUnity, TEAMING.AI, …

Human – AI collaboration

What are the needs & challenges of Alpine areas?

→ cf. motivation for   project

→ **Digital** Transformation a solution?

What makes the difference?

**… previous transformation processes
in comparison to the current digital transformation with data and AI as
its core components**

Some potential areas

→ mobility
→ other infrastructure
→ research for the Alpine area
→ preparedness to environmental changes (e.g. permafrost) and natural disasters
→ agriculture, timber, energy
→ …

Futuristic?

→ virtual infrastructures (Metaverse)

… in the end it's a question of **priorities** … and **business**, indeed

→ does it make sense to have infrastructure like in cities in each Alpine village?

… if there were a business -> most probably YES

… or should we have other drivers – instead of business opportunities –
for new developments, like

→ improving standard of living
→ environmental protection
→ other targets of SDGs
→ …?