Joint CSTP / CIIE Workshop on the Next Industrial Revolution

Input for session 2

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Some reflections on the potential directions and impacts of the next industrial revolution(s)

- Where do we stand? „You ain‘t seen nothing yet“ *(Bachmann Turner Overdrive)*
- Reduction of manufacturing employment to levels of current day agricultural employment in most advanced economies
- New business and exchange models (‘gift economy‘? ’cooking pot markets‘?)
- Substantive impacts on societies and individuals (as in IR 1.0 to 3.0…)

*THE INNOVATION COMPANY*
Some reflections on the potential directions and impacts of the next industrial revolution(s)

■ Why revolution(s)? Where is the convergence?
  ■ We & it will (almost) all be **connected**
    (Internet of people with Internet of things)
  ■ The era of **BIG NANO Data** - and the need to handle them sensibly (personalized medicine, open source blueprints, …)
Some reflections on the potential directions and impacts of the next industrial revolution(s)

- **Democratised Innovation** *(Van HippeL)* – strongly *supervised* or *‘liquid‘* or both?

- Not everything changes fast: administrative structures, public decision making, regulations and infrastructures – *need to develop new modes of governance for industrial revolution 4.0*
Some reflections on the potential directions and impacts of the next industrial revolution(s)

- The end of foresight (as we know it)? Maybe, but growing need for
  - "permanently reflexive governance" (and hence monitoring and discussion) and for
  - "new mission oriented innovation & policy" government proactively defines goals w/r to societal challenges and provides political processes and frameworks
„Where there is danger, also grows that which saves“ (HÖLDERLIN)

Thank you for your attention!