

Five Secrets to Building the Next Generation Workforce in Your Organization

Smart Cities Week, Washington, D.C.

10/1/2019

Petra Hurtado, Ph.D.

American Planning Association



American Planning Association
Creating Great Communities for All

"Planners compose and offer advice on preparing for an uncertain future."

Hoch, C (1994): What planners do. Power, Politics, and Persuasion

- 
- Smart City technologies are changing the way we as planners do our work
 - Smart City technologies are changing the communities and the built environment we make plans for

Picture: <https://www.iotworldtoday.com>

Technology is changing the way we as planners do our work

- Data collection, analysis, monitoring, and evaluation (big data, crowdsourcing apps, drones, AI, sensors)
- Visualization (VR, AR)
- Community engagement (crowdsourcing apps, public engagement platforms)

Tools

Skillset

- Digital literacy
- Soft skills (repetitive work vs. experience-based decisions, facilitator and collaborator, public interest, problems first)
- Continuing education vs. continuous education
- New jobs for planners (AI data trainer, planning ethicist)

- Design thinking
- Agile methods
- Adaptive design / planning
- Testing and fail fast (sandbox vs. living lab)

Methodologies

Involved Disciplines

- ICT-experts
- Data analyst
- Data security specialist
- Digital inclusion manager

Technology is changing the communities and the built environment we make plans for

- Autonomous vehicles
- Flying taxis
- Drones
- Energy-generating mobility
- Automated water infrastructure monitoring
- Underground waste management

Systems and infrastructure

Lifestyles

- E-commerce
- Tele-working
- Social media and digital networks
- Travel habits
- Leisure demands
- Shared society
- Automated society

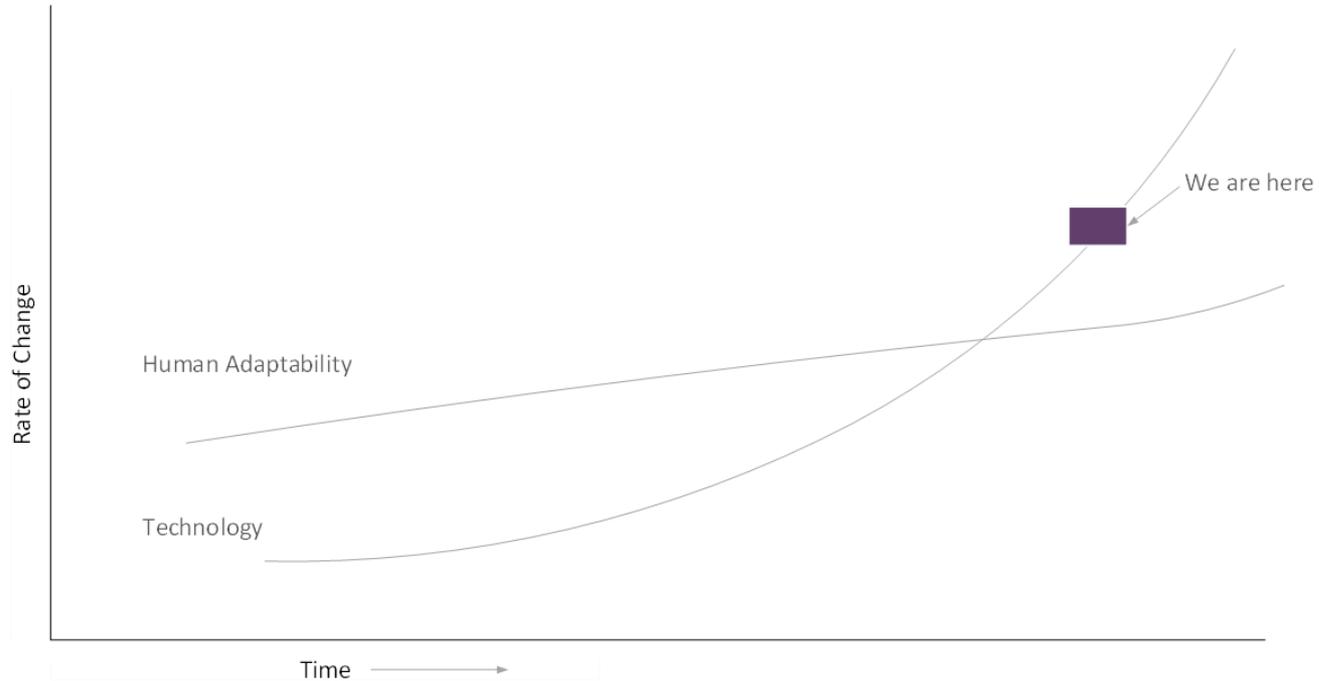
- 2-way communication
- Communities as an active part of planning, providing real-time data through crowdsourcing apps, sensor technology

Real-time planners

Future scenarios

- Humans in Control
- Private Autonomy
- City on Demand / Shared City

What's different about *this* change?



--Thomas Friedman, "Thank you for Being Late"