

Prof. Sirin Tekinay Dean, Faculty of Engineering and Natural Sciences Kadir Has University Istanbul, Turkey stacles or **Opportunities** 

-evolving objectives

#### **Trans-disciplinary**

- urban problems
- health and longevity
- basic science and a pultitude of

*technologies* 

from any geography, language, and

time

#### **Open innovation**

evolvíng *methods*; facilitators

- online, real time, multimedia tools
- Creative Commons licensing

#### "Train and hire"

- certificate programs, global academies/ Laboratories, innovation for the phenomenon; incubators
- revolution

#### **Reward mechanisms**

- In the academe@GEDC 2013
- In the industry
- **Digital fabrication**

10/22/2013



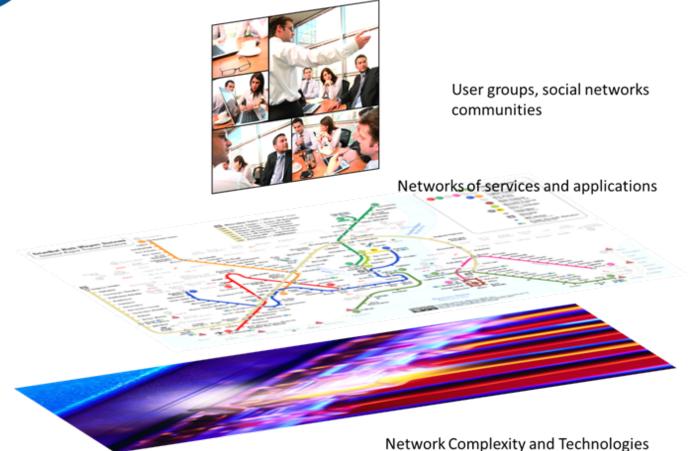
## **Example: Urban Problems**

- Engineering and Law, Medicine, Administrative, Economic and Social Sciences
- Multidisciplinary problems, end to end solutions
  - infrastructure, monitoring and management,





## **Engineering** *and* **Urban Problems**



## Engineering for/in/against/ with Urban Problems • EC'S FIRE:

### Future Internet Research and Experimantation

- Green ICT
- Smarter Planet







# **Example: Role of Universities**

## • Kadir Has University

- -Center for Istanbul Urban Studies
- -MS in Urban Engineering
- Executive Masters in Urban Infrastructur<u>e Governance</u>
  - EPFL
  - Sharjah
  - Guadalajara
  - Detroit
  - Hong Kong
  - Istanbul



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• Next Digital Revolution!

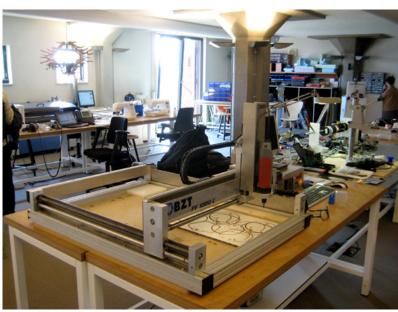




# **FABLAB Principles**

- public access to the fab lab
  - democratizing access to the tools for personal expression and invention. So a fab lab must be open to the public for free or in-kind service/ barter at least part of the time each week.
- common set of tools and processes.
  - critical machines and materials
  - open source software and freeware
  - all the labs can share knowledge, designs, and collaborate across international borders
- participation in the larger, global fab lab network,
  - workshops, challenges or projects
  - Fab Academy













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