



Healthcare - Technological Innovation and Economic Success

# The Triple Helix – More Efficient Collaboration Between Academia, Industry and Government

Silvia Gluderer, ETH Zurich





### Goals of This Presentation

- HealthTIES as an EU project with a triple helix structure
- Process to start networking within the triple helix
- Actual work, action steps and visions





# 1. What is HealthTIES?

#### Healthcare – Technological Innovations and Economic Success



- FP7 Regions of Knowledge (RoK) project
- 5 European research-driven clusters
- Project duration: October 2010 September 2013
- Goals of HealthTIES:
  - Boost innovation in healthcare technology, new products and processes
  - Networking, leverage on synergies
  - Goals of Life Science Zurich:
    - Form an association, common appearance
    - Strengthen Life Science/Biotech ecosystem





## 1. What is HealthTIES?

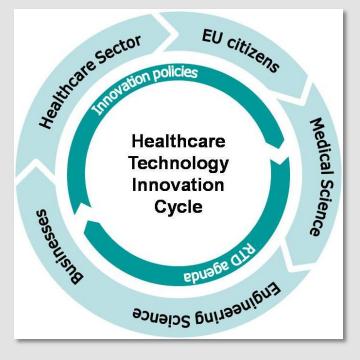
Life Science Zurich Partner







### 2. HealthTIES Analysis 1 Strategic Focus – Healthcare Technology Innovation Cycle

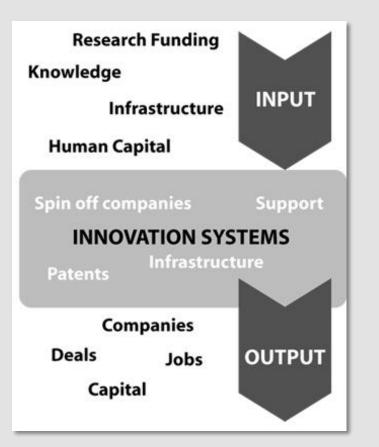


- Translate conditions/mechanisms that boost the cylce into quantitative, comparable and discriminative HealthTIES Innovation Indicators
- Benchmarking of HealthTIES regions
- SWOT analyses and action steps for future development
- No subcontracting with consulting company!
- Data with regional resolution, tailored to healthcare





#### 2. HealthTIES Analysis 1 HealthTIES Innovation Indicators

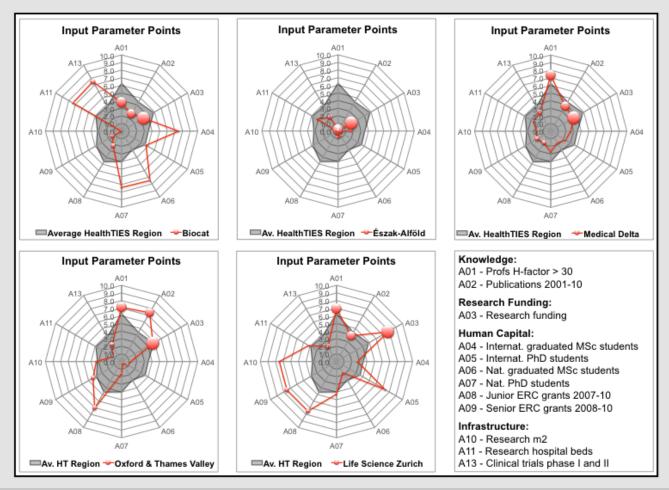


- Translate conditions/mechanisms that boost the cylce into quantitative, comparable and discriminative HealthTIES Innovation Indicators
- Benchmarking of HealthTIES regions
- SWOT analyses and action steps for future development
- No subcontracting with consulting company!
- Data with regional resolution, tailored to healthcare





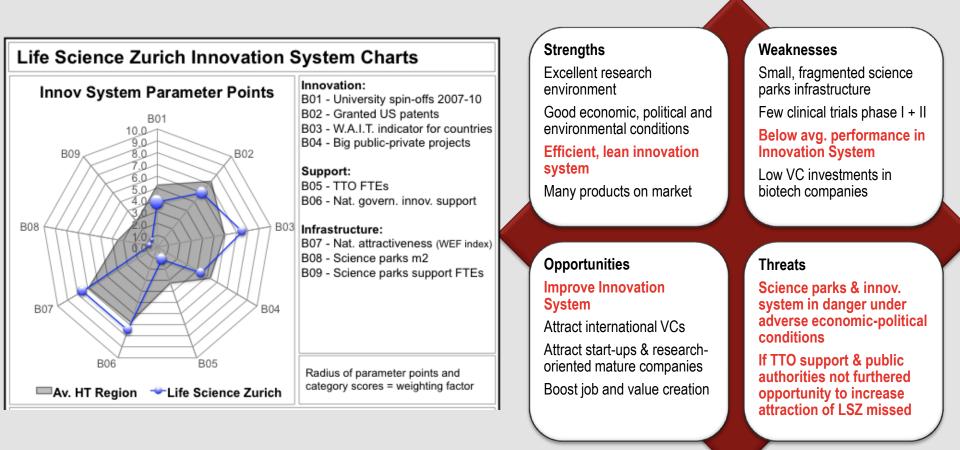
#### Results Input Phase – Discriminative Data







Results Life Sciene Zurich – Lean Innovation System







Thematic Focus – Healthcare Technology Specialisation Matrix

	T4.3.a: Cardiovascular	T4.3.b: Cancer	T4.3.c: Neurodegenerative	T4.3.d: Immunology and infectious disease
T4.2.a: Molecular technology	I.	Ш	ш	IV
T4.2.b: Imaging	۷	VI	VII	VIII
T4.2.c: Drug design, development and delivery	IX	x	XI	ХІІ

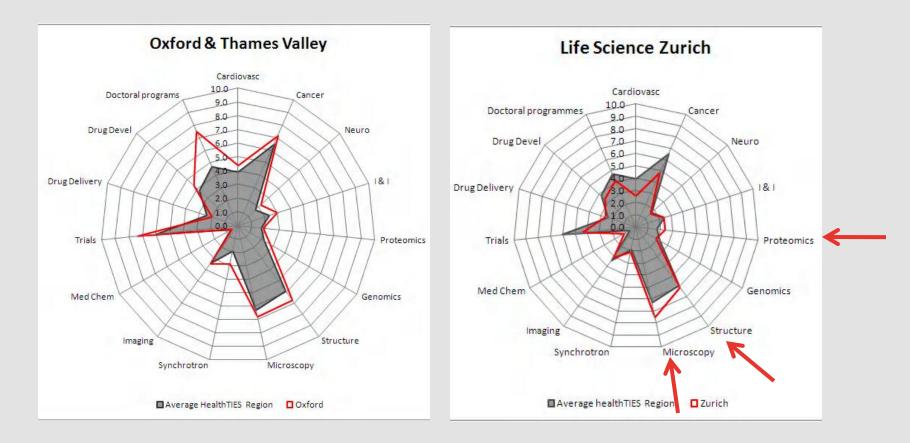
Two approaches:

- Catalog of researchers, facilities and companies
- H-index searches in Web of
  Science (# publications in relation to # citations)





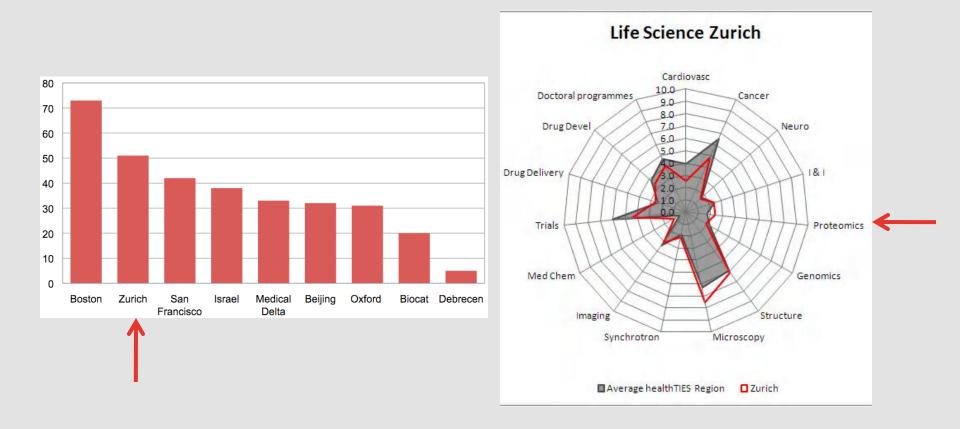
**Results H-index Searches** 







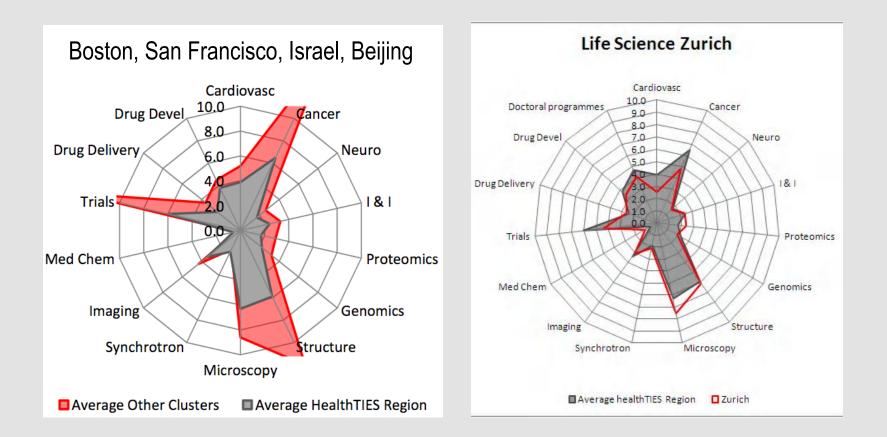
#### Proteomics – International Benchmarking







International Benchmarking







# 4. HealthTIES Future Directions

- Improve HealthTIES dataset on innovation indicators:
  - Next data collection exercise in 2013
- Develop best practices:
  - E.g. best practice ERC grants (Life Science Zurich)
- Strengthen cooperation and networking (positive spill-over effects)
  - Joint FP7 applications
  - Mediate contacts between triple helix partners
- Towards a sustainable HealthTIES network:
  - E.g. Oxford & Thames Valley Incubator





#### 4. HealthTIES Future Directions Towards a Sustainable HealthTIES Network



Novel integrated R&D platform built on the Triple Helix structure: Academia–Industry–Regulatory

- Formed by members of the HealthTIES consortium & industry partners
- Not-for-profit legal entity
- It supports integrated R&D projects
- From early discovery phase to phase II clinical trials, where IP is filed and projects are licensed to the pharmaceutical industry
- Proceeds are reinvested into new R&D projects





# Thank you!