



ROYAL INSTITUTE
OF TECHNOLOGY

The Swedish Innovation system

- Reflections and Remarks
- The Stockholm (KTH) innovation eco system
- Two case studies

Stockholm, Sweden - the heart of Scandinavia



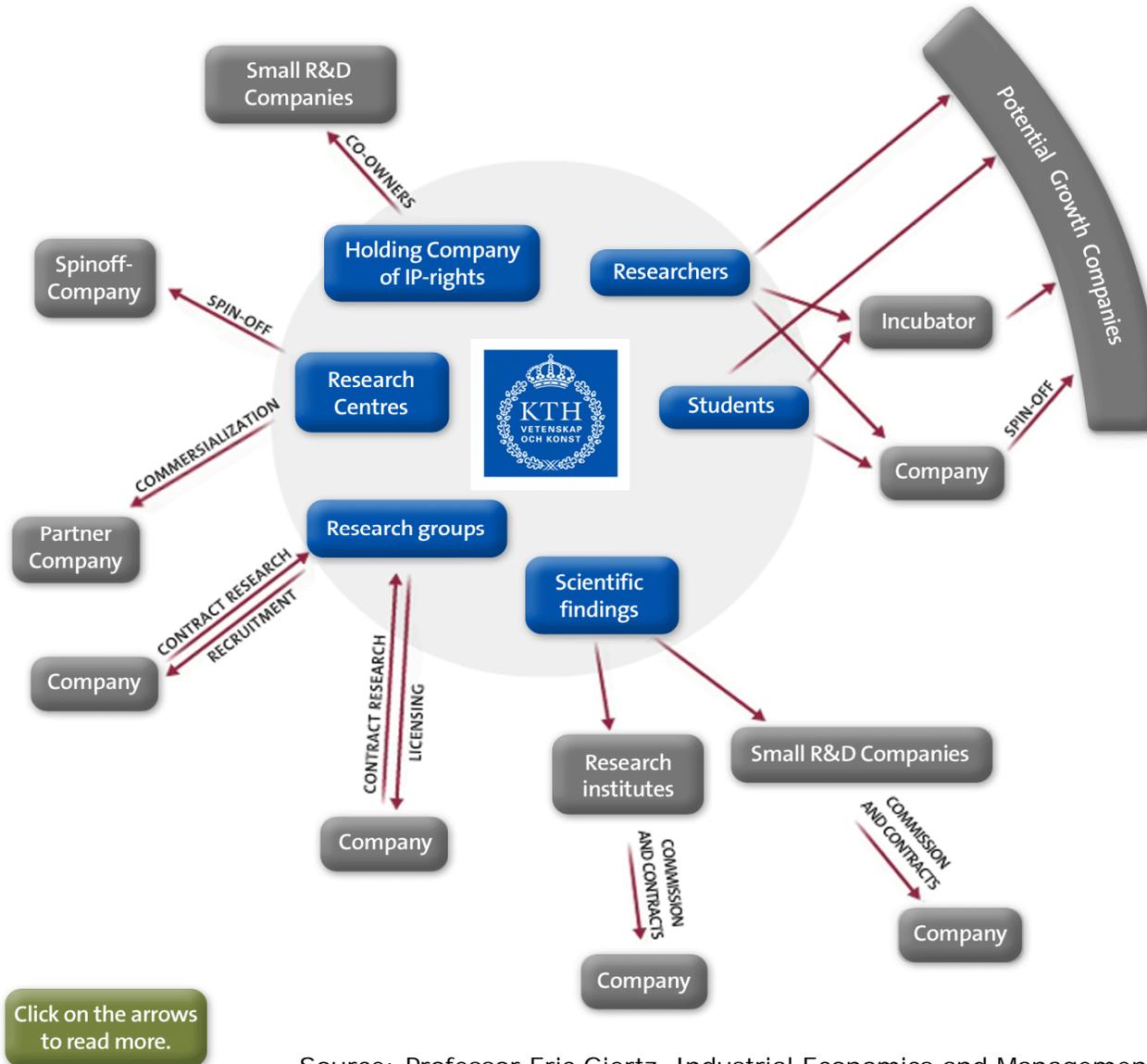
- Nobel Prize Award Ceremony
- One of the most livable cities in the world according to Monocle
- UN Human Development Index
- Ranked as the most knowledge intensive region outside the US
- A culture of innovation and entrepreneurship
- Early adopters
- Clean, tidy, safe and English speaking



Characteristics of University Impact on Innovation - KTH-KI-SU-UU

- Well working innovation eco system from idea generation among students to PhD and researchers
 - Teachers exempt rule
(exemption for teachers – own 100% of their IP)
 - Lack of strong reserach institutes
 - At KTH >30 patents/year and 6-7 spinn offs/year
 - Regoinla supported innovation centers
 - Impact assessment
 - Well functioning cooperation with industry from education to research and innovation
 - Stockholm strategy – Open Lab
 - STING –Stockholm Innovation and Growth – attracted 118M€- created >500 jobs
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KTH's ways to commercialization and valorization



Source: Professor Eric Giertz, Industrial Economics and Management

Company Background

- TranSiC was founded in 2005 by Bo Hammarlund, Martin Domeij and Prof Mikael Östling, KTH
- Started as a spin-off from KTH Royal Institute of Technology in Stockholm, Sweden
Based on world leading SiC device research results
- Investors:
 - Volvo Technology Transfer AB
 - Midroc New Technology AB
 - Industrifonden
- Acquired in full by Fairchild Semiconductor March 2011 (17M\$)



Current Status

- First commercial offering in November 2012
- Employs 15 people in Kista, Sweden, one newly graduated PhD from KTH was hired during 2012
- World's most efficient active switch transistor for 1200 V rating

Music in the Cloud



What is Spotify?

All the music, all the time.



Spotify is a new way to listen to music

Millions of tracks, any time you like. Just search for it in Spotify, then play it. Just help yourself to whatever you want, whenever you want it.





Spotify

- Started by KTH student 2006
- Launched country by country in Europe
- USA launch 2011,
- ~4M paying members; ~200M€ rev
- 'valuation' ~3B US\$

Has the Idea Machine Broken down?

- Why does Astra close down its research unit?
 - Why does Ericsson moves innovation observatory to Silicon Valley?
 - Why do we not see more growth in jobs and high value technology firms?

 - Swedish Innovation system can not solve the 'innovation gap'
 - The European and Swedish landscape lacks scale and focuse
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