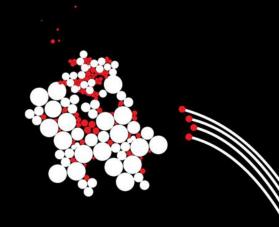
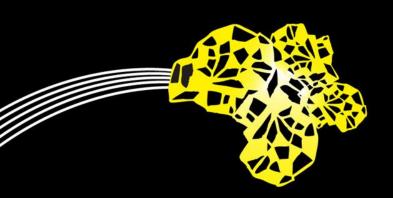
UNIVERSITY OF TWENTE.



How to become an entrepreneurial university

Dr. A.H. Flierman

President, University of Twente









HISTORY

- Established 1961
- Increased demand for higher education
- Need for a third technical university
- New institutions distributed throughout the country
- Oncoming crisis in textile industry: university with an economic mission

RoUTe '14 - high tech human touch

- Modern University of Technology
- Excellent Education and Research
- New technology and its application in society
- Engineering approach
- Distinctive in this context is our capacity to combine and cooperate across diciplines between science, engineering and social sciences,
- entrepreneurial mindset



Mesa+ : Nanotechnology

CTIT : ICT (incl. embedded systems)

MIRA : (Bio)medical Technology and Technical Medicine.

IGS : Innovation and Governance Studies

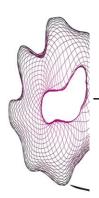
Green Energy Initiative

Strength and Expertise:

Distinctive research and education (Bachelor/Master/PhD)

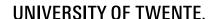
Contribute to the challenges of our society (sustainability, health, safety, energy, etc.)

Transfer of knowledge and technology (innovative entrepreneurship)



EDUCATION

- 20 bachelor's programmes
- 33 master's programmes
- Technology, behaviour, society, and medicine
- Approx. 10.000 students (ba, ma, PhD)



ENTREPRENEURIAL UNIVERSITY

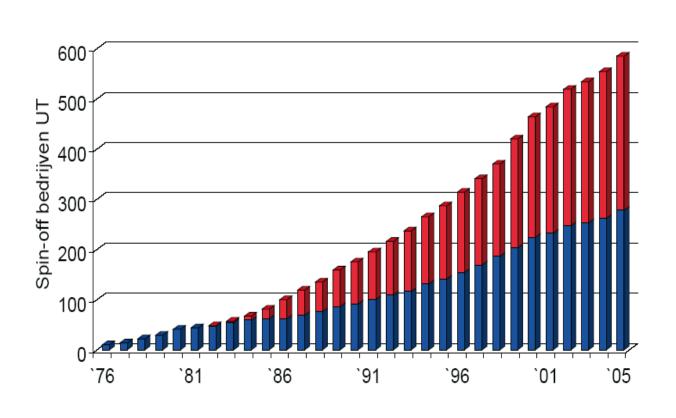
- Identify and support talent
- Provide facilities (labs and offices) through *Kennispark* business accelerators
- Provide investment funds and support through
 - Holding Technopolis Twente



UT spin offs

700 spin offs approx. 7000 jobs







Kennispark (Science park) Twente

- Building on history entrepreneurial University of Twente
- A cooperation between City of Enschede, Province of Overijssel and University of Twente
- Improve the system for innovation and entrepreneurship
- Goal: 10,000 high end jobs
- Innovation campus of national importance





Program lines

Coordinate, complete, communicate

- Saxion, BTC, IPT, Oost NV, WTC
- Facilitate starting and growing businesses (Entrepreneurship)
- Stimulate innovation in existing companies (Innovation)
- Develop an inspiring area for innovative businesses (Area)



Entrepreneurship (starting business)



- Awareness
- Talent scouting
- Education, training, coaching
- Business development
- Financing networks (HTT)
- Incubator, facilities





Innovation (existing business)

- Access to knowledge: Portals
- National programmes (threatened by government spending cuts)
- Open Innovation Clusters
 - High Tech Facilities
 - Neutral ground
 - Events, training, acquisition, business development, etc.
- Acquisition of companies



New R&D centres

- TPRC (Thermoplastic Composites; incl. Boeing)
- High Tech Factory (small tech production)
- T-Xchange (virtual reality + serious gaming; incl. Thales)
- CMI (Medical Imaging; incl. Siemens)
- XUV optics (ASML, Zeiss, Panalytical)



Basic aspect

- Two extreme models
 - life sciences, pharma, etc.
 - nano, IT, etc.
- Centralized: TTO, roadmaps, licensing, IP
- Decentralized: business case development, start-ups, shares
- Twente: (decentralized model)
 - Technology (or IP) and business case are mostly only loosely linked
 - Start-ups are often an effective commercialization strategy

What is the driver?

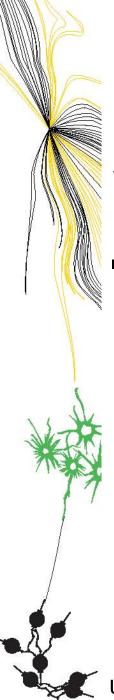
- Talent!
 - Highly educated
 - Entrepreneurial
 - Ambitious
 - Aware!
- Knowledge, financing, environment (soil, water)
- Entrepreneurship
- Courage
- Interaction
- The realization that you need others





- Is it our smart ideas that fuel the process?
 - A bit, but innovation is unpredictable
- It's about talent that has the guts (or is naïve enough) and conditions to try it
 - You're sitting on a goldmine?
 - Twente: 20% sees entrepreneurship as a serious career choice
 - And has no clue when they first visit
 - Entrepreneurial mindset on campus

- The university is not the center of gravity from which it all branches out
- See the university and Kennispark as
 - part of the pie
 - in the light of a shared higher goal
 - regional development rather than tech transfer

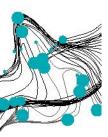


- The picture changes while we're drawing it
 - Make ourselves ultimately and visibly responsible for the process (not only the results)
 - Pioneering qualities
 - Behave as a young firm with high ambition
 - Stay away from the debate around structure, public organizations love that but it's poison for us
 - Deliver, deliver, deliver





- We have to innovate the regional system
- University, city, province, partners, companies, public opinion: they learn the game along the way, with us
- Link straight into higher management and separate from the existing structures
- Cooperate with and invest in other parties
 Innovation platform, regional development agency
- Take time



Conclusions



- It's a journey, not a structure
- It takes time
- Choose your pioneers carefully
- Learn and develop underway with internal and external partners and friends
- You have to: every regional system is unique
- And have a lot of fun