

Cluster Formation Across Borders

Clusters in the Oresund Region
by Torben Orla Nielsen

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Agenda

- The Region
- Øresund Science Region
- Status for Cluster
- Open Innovation Process
- Ambassador Programme
- The Science Parks Role

Øresund Region/Medicon Valley



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Øresund Science Region

- 3.5 mill. inhabitants
- 12 universities
- 29 hospitals
- 5 science parks
- 1 international airport
- 4 defined clusters
- 2–3 emerging sub-/clusters
- High tech business sector
- Highly educated workforce

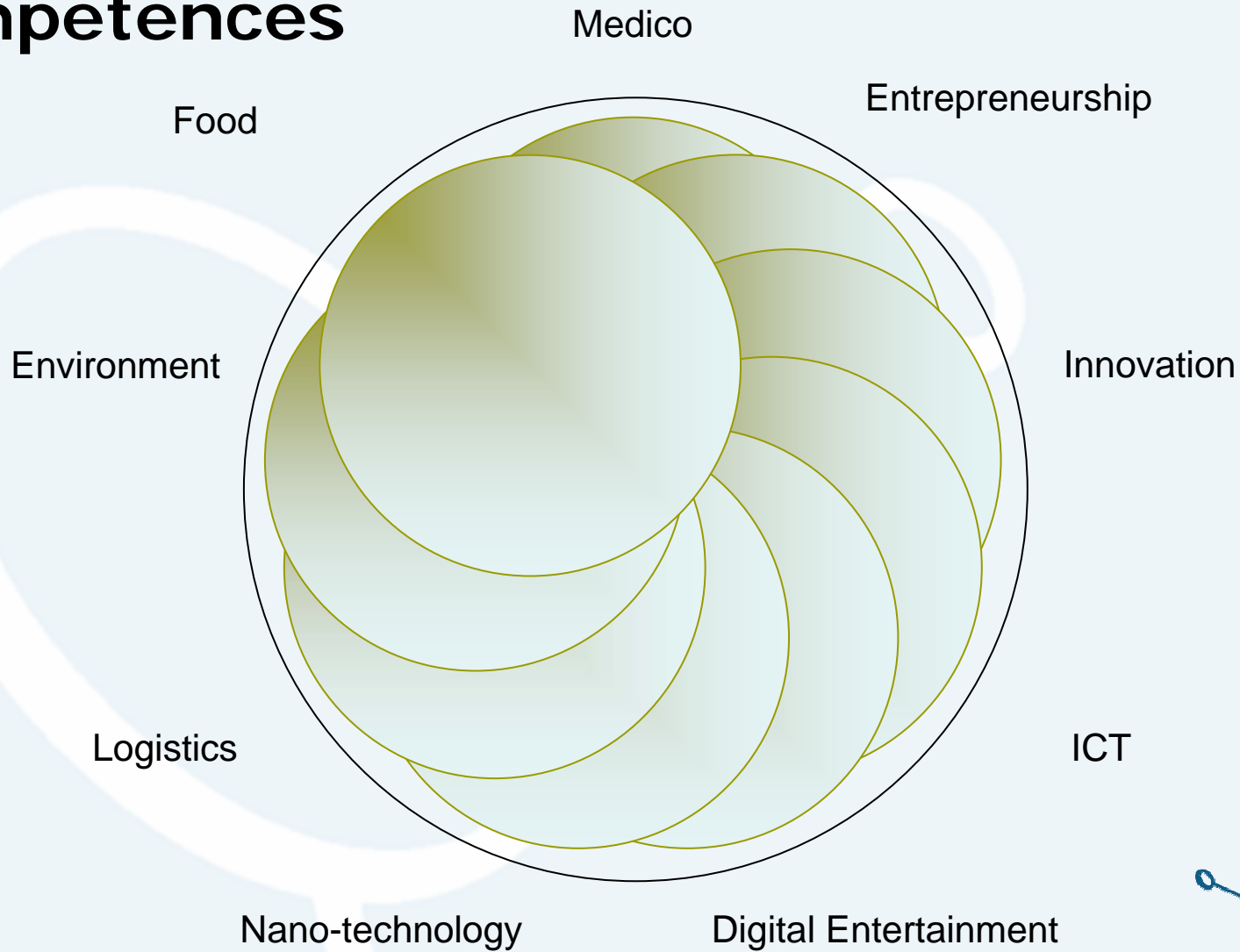


Øresund Science Region



- An umbrella organization and incubator initiated by Øresund University
- A transnational, triple helix driven tool, aiming to strengthen the regional knowledge based economic development
- Funded by the universities, public sector, private sector and project money
- Network. 12 universities, 2500 companies, local and regional authorities

Øresund Science Region - Competences



Øresund Science Region - Platforms

Medicon Valley Academy

Øresund Food Network

Øresund Entrepreneurship Academy

Øresund Environment

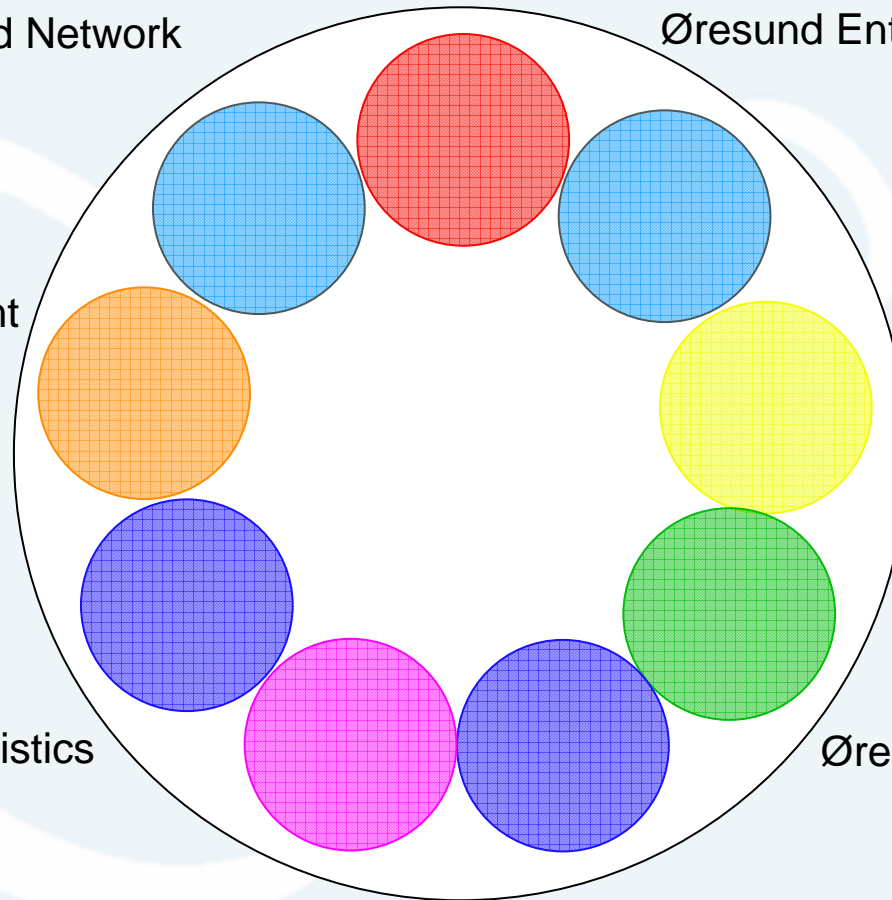
Øresund Innovation

Øresund Logistics

Øresund IT Academy

Øresund Nano

DIGINET



Strengths and Weaknesses

Strengths

- Triple helix structures
- Organizing capacity
- Enthusiasm
- Based on solid R&D in universities as well as companies
- Well educated work force
- Best of two nations
- Limited cultural and linguistic barriers

Weaknesses

- R&D funds and programmes can only be used in national context
- Regional versus national priorities
- Labour market (regulations, commuter costs, tax differences)
- Currency
- Legal difficulties, accounting, 2 x National Audit Offices etc
- Lack of synchronized initiatives between Denmark and Sweden

Status - Life Science Cluster

- Organization: **Medicon Valley Alliance**
- Status:
 - Top 3 life science cluster in Europe
 - Approx. 100 (red) biotech companies, 25 pharma companies (7 major) and 100 medtech companies
 - International companies with affiliates in Medicon Valley: More than 200 pharma companies and 170 medtech companies
 - Approx. 40,000 employees in the private life science sector
 - Approx. 10,000 life science researchers in the private and public life science sector
 - 32 hospitals, 11 of which are university hospitals
- Role of Scion DTU Science Park:
 - Provider of infrastructure
 - Close link to IDEON, Medeon and Bio incubator
 - Science park network, Canada, UK

Life science clusters

Region	Virksomheder	Ansatte
Medicon Valley	100 biotech 65 medtech 25 pharma	40.000
Cambridge	215 biotech	10.000
Basel	65 biotech	N/A
Boston	300 biopharma	30.000
San Diego	178 life science	37.000
San Francisco	820 life science incl. 600 biotech	85.000
Vancouver	91 biotech	2.600
Hyderabad	84 (Cluster) 280 (Indian biotech sector)	8.000
Beijing	N/A	N/A
Seoul	N/A	12.200
Kobe-Kansai	30 medtech, 40 biotech	1.800



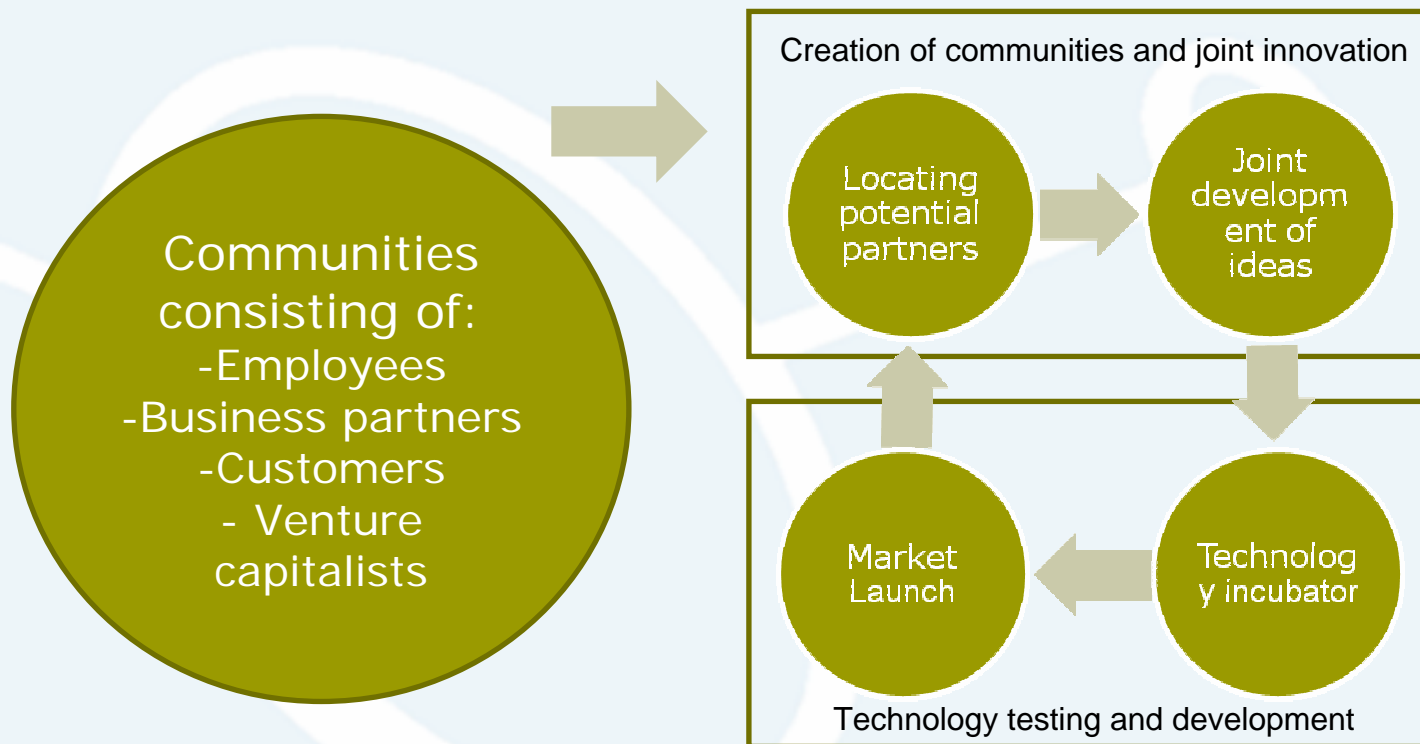
Status – ICT Cluster

- Organization: **Øresund IT Academy**
- Status:
 - Number of cross border activities
 - Approx. 10,000 IT companies
 - Approx. 100,000 employees in the ICT sector
 - Lighthouse companies - Ericsson and Sony Ericsson (Sweden) and Microsoft R&D center (Denmark)
 - 7 science parks with activities within ICT
- Role of Scion DTU Science Park:
 - Øresund Mobil Living Lab
 - Training programme for entrepreneurs “AcceleRace” for entrepreneurs with large international growth potential

Open innovation

- R&D is no longer a “closed party”
- Breake with the traditional view regarding where production and R&D are placed most efficient
- Big company logic is becoming normal procedure or “2. phase of globalization”
- The process demands a close and trusted connections with customers and business partners
- Potential R&D 24/7
- Essential to have a mutual understanding of the business model and where each partner add value and makes future profit
- E.g.: Procter & Gambles: 35 % of new products are made by open innovation

IBM innovation model

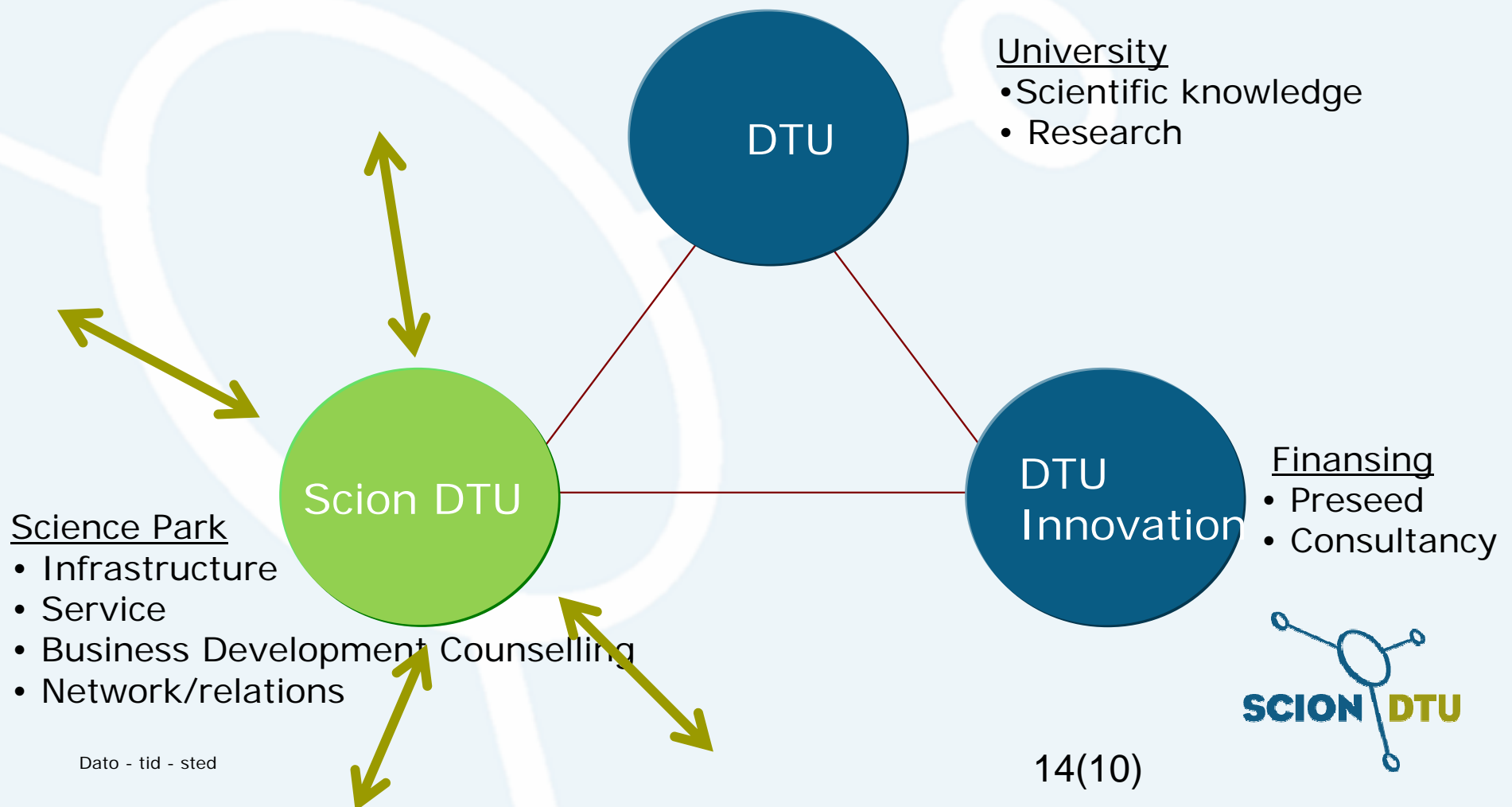


IBM, Innovation Factory, 2007

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Impact on The Innovation Triangle at DTU



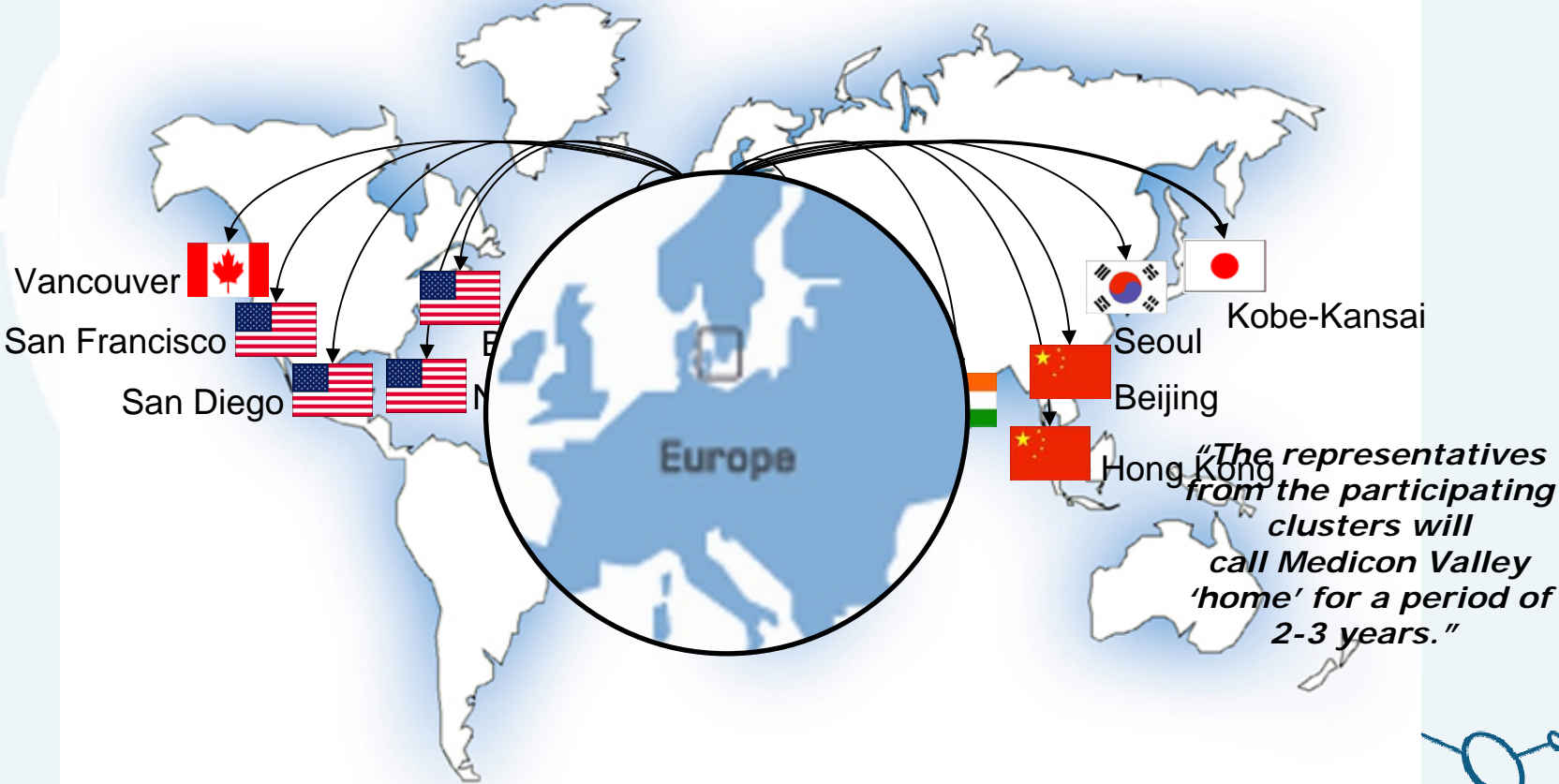
MVA Ambassador programme

The **first programme of it's kind** anywhere in the world.

- Build a strategic network of contacts and active collaborations with the leading life science clusters in the world by 2010.
- Representatives from the regional clusters will call Medicon Valley "home" for a period of 2-3 years
- Embedded into day to day operations at Medicon Valley Alliance
- Medicon Valley's representatives will be integrated into the host organizations abroad.

MVA Ambassador Programme

Reaching out to the world



Science Parks in a Open Innovation Process

- Proximity is no longer qualifying
- Sets demands on the science park's network
- Science parks as hub for R&D companies
- Science parks must choose branches where they can add value to the network
- Must choose services to support the strategy
 - Euro-Effice
 - Medicon Valley Alliance Ambassador Programme