



Transnational cooperation in nanotechnology to
boost open innovation for regional growth



ØRESUND
ORG

www.oresund.org

The Øresund Region

4 million Inhabitants

10 Universities

160.000 University students

14.000 University researchers



Creating a knowledge region:

Øresund Org

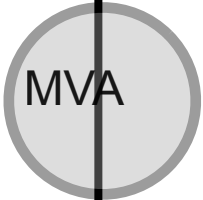
brings universities, businesses and
authorities together,

creating **cross-border networks** and
projects that shape your future.





ØRESUND ORG



Øresund
Campus

Campus

Entrepr

Triple helix

Environ

Logistics

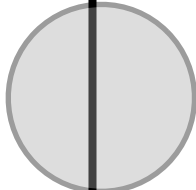
Food
IT

Øresund
Greenhouse

Nano

Materials

X



Goal: Science based economical growth



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Øresund Org brings universities, businesses and authorities together, creating cross-border networks and projects that shape your future.

Is there a future for clusters?

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If so, in what way?

Clusters are usually thematic?

Just like universities:

Faculty of law, medicine, biology
etc

Usually clusters are connected
thematically

- in Europe or elsewhere!

But Grand Challenges – how
are those?



Grand Challenges – Big Picture

Global warming/
Energy

Energy efficiency, energy storage,
solar energy and fuel cells

Water Supply

Purification, desalination, minimise use,
reduce overconsumption

Food Supply

Packaging, antibacterial surfaces

Public Health/
Ageing societies

Medication, implantation, devices,
earlier and more adequate diagnoses,
personalised medicine

Pandemics

Rapid access to vaccinations, vehicles,
systems for rapid response from society,

Security

Identification, more safe credit cards

Grand Challenges !!!

Obviously it is most often not very useful to address those from a thematical vertical discipline point-of-view

So to address Grand
Challenges -

thematic clusters should be
connected horizontally

first in the region and then inter-
regional

In the Øresund region we are doing exactly that:



Creating a connected Øresund

A full Triple Helix cross-border concept:

Øresund
Food

Øresund
IT

Øresund
Logistics

Øresund
Environment

Øresund Entrepreneurship

Øresund Greenhouse

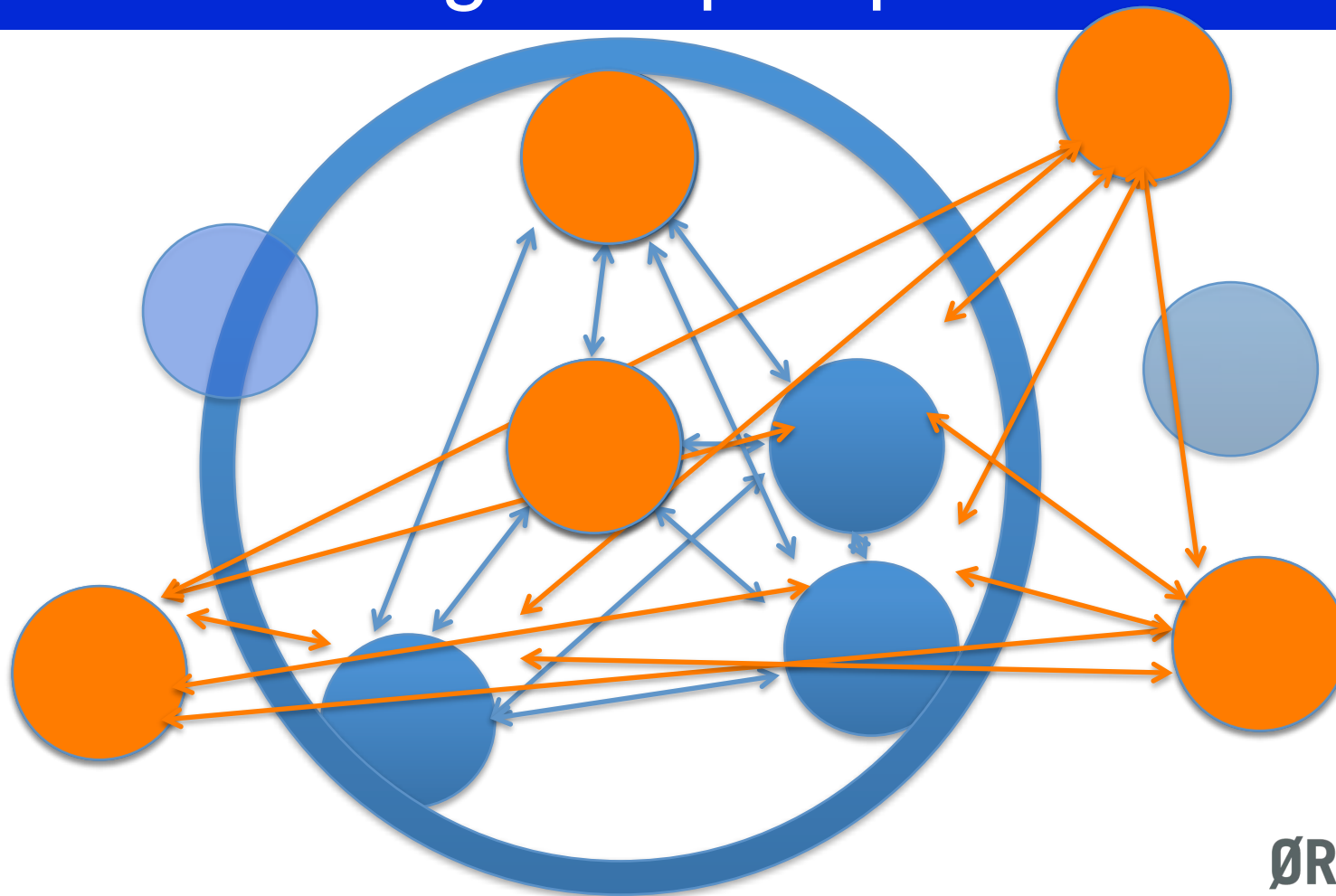
Øresund Materials

Øresund Campus



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Possibilities: Clusters : International Excellence in a regional perspective



Important success criterias:

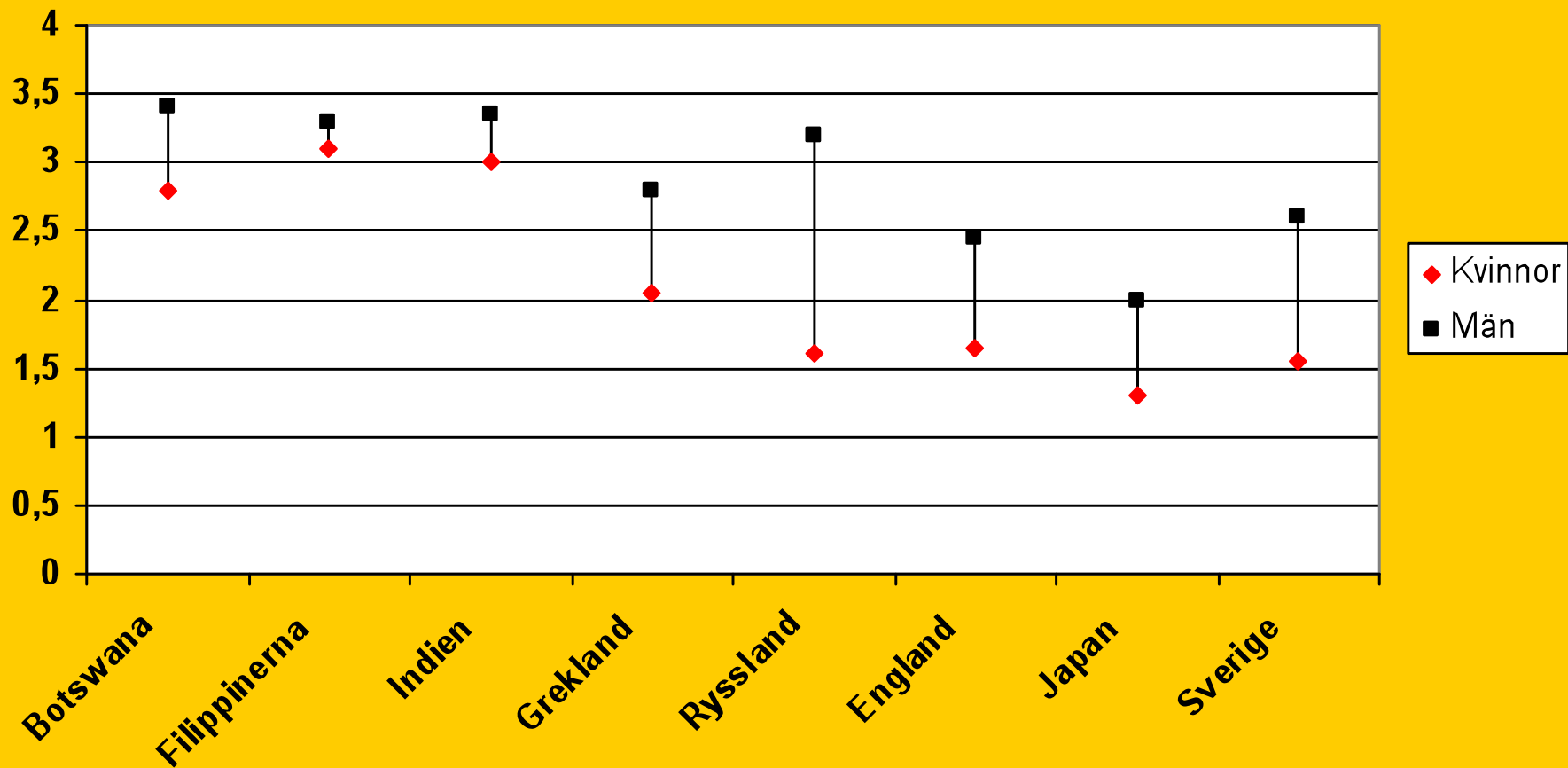
Open Innovation System:
Create opportunities between
companies (e.g. My Plaza)

Societal dimensions:
The desire to be a part of the
solution and not only a consumer

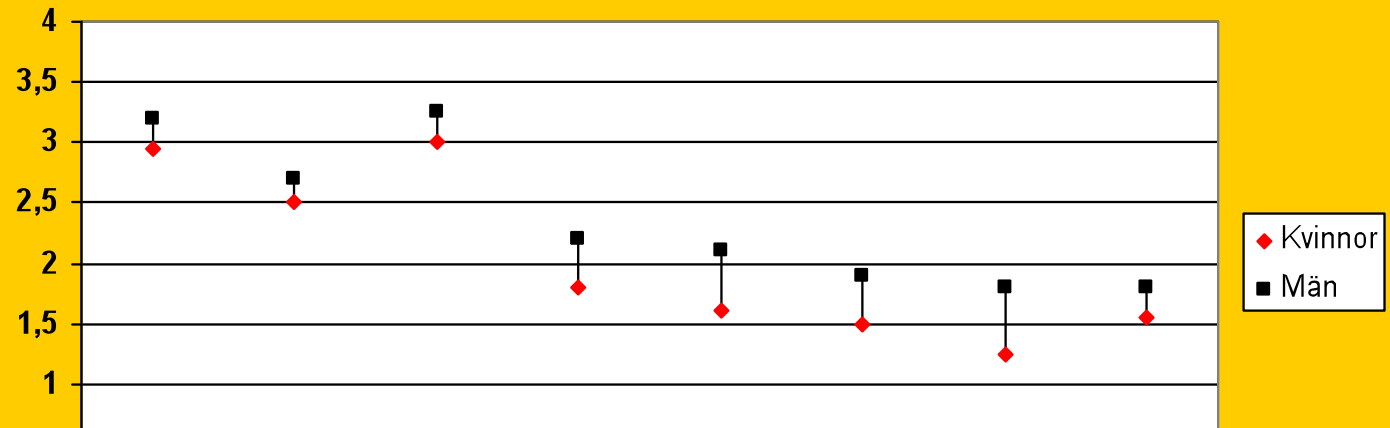
"Science and Technology are important for society"

"I would like to become a scientist"

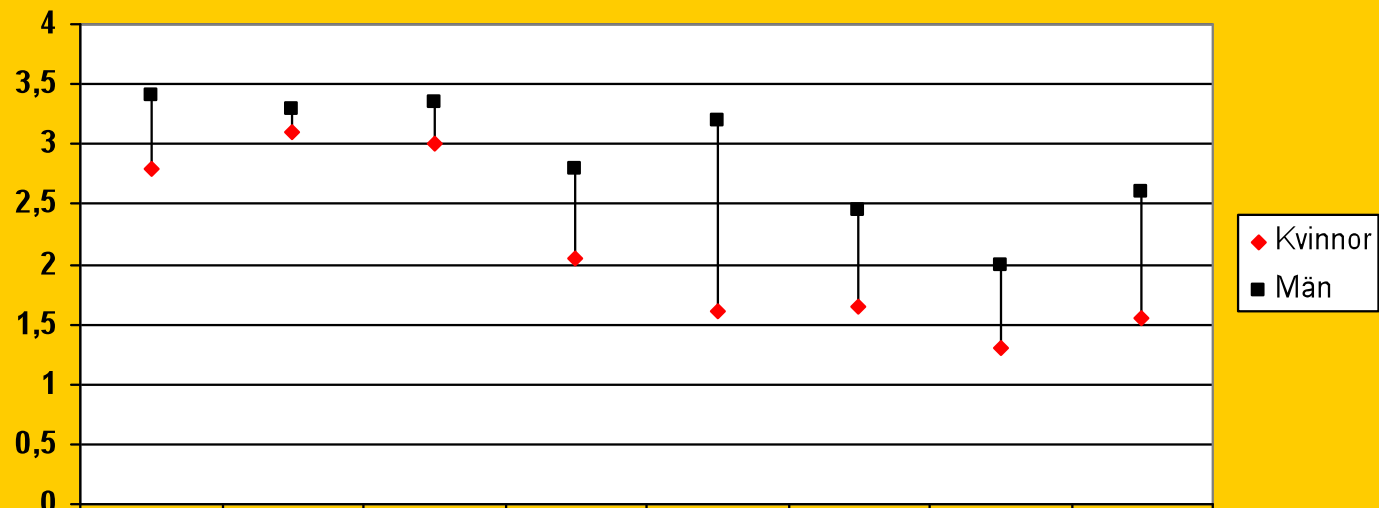
"I would like to get a job in technology"



"I would like to become a scientist"



"I would like to get a job in technology"



Sverige

Nanotech education is addressing the Global Societal Dimensions

NanoConnect Scandinavia Project



- 8 universities/institutes
- 50 companies
- 500 univ. researchers
- 600 Ph D students
- 900 masters students

Bringing Universities and business together

Øresund Materials



Materials Innovation Community

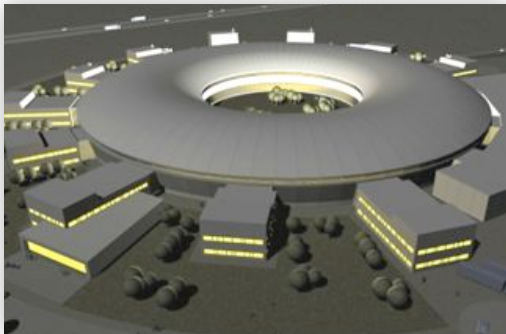
Nano

eScience

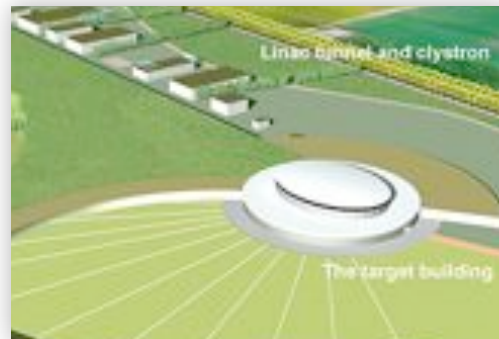
Materials

Science
corridor

MAX IV

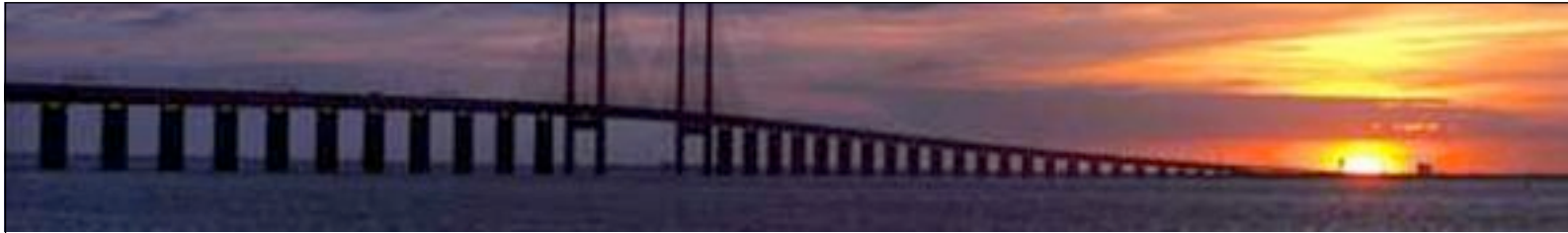


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XFEL





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Vision: Develop Øresund region to become the leading region worldwide that through education & research create science based innovation and growth



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THANK YOU!



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