



Biotech statistics used for:

- International benchmarking
- Strategy development
- Policy decisions

Anna Sandström

The Swedish Governmental Agency for Innovation Systems
VINNOVA

Efficient innovation systems

From idea to product and/or services

VINNOVA's mission is to promote sustainable growth by developing effective innovation systems and financing problem-oriented research

Innovation systems analyses and international benchmarking for national strategy development



Interaction between

- Business
- Research
- Public Sector



Idea

Product Service

Private foundations

(e.g. for specific diseases)

Swedish Foundation for Strategic Research

(strategic research, peer review but top down choice of areas)

Swedish Research Council

(basic research, peer review)

VINNOVA (needs driven research and improved innovation systems)

Innovation Bridge

(seed financing, incubators)

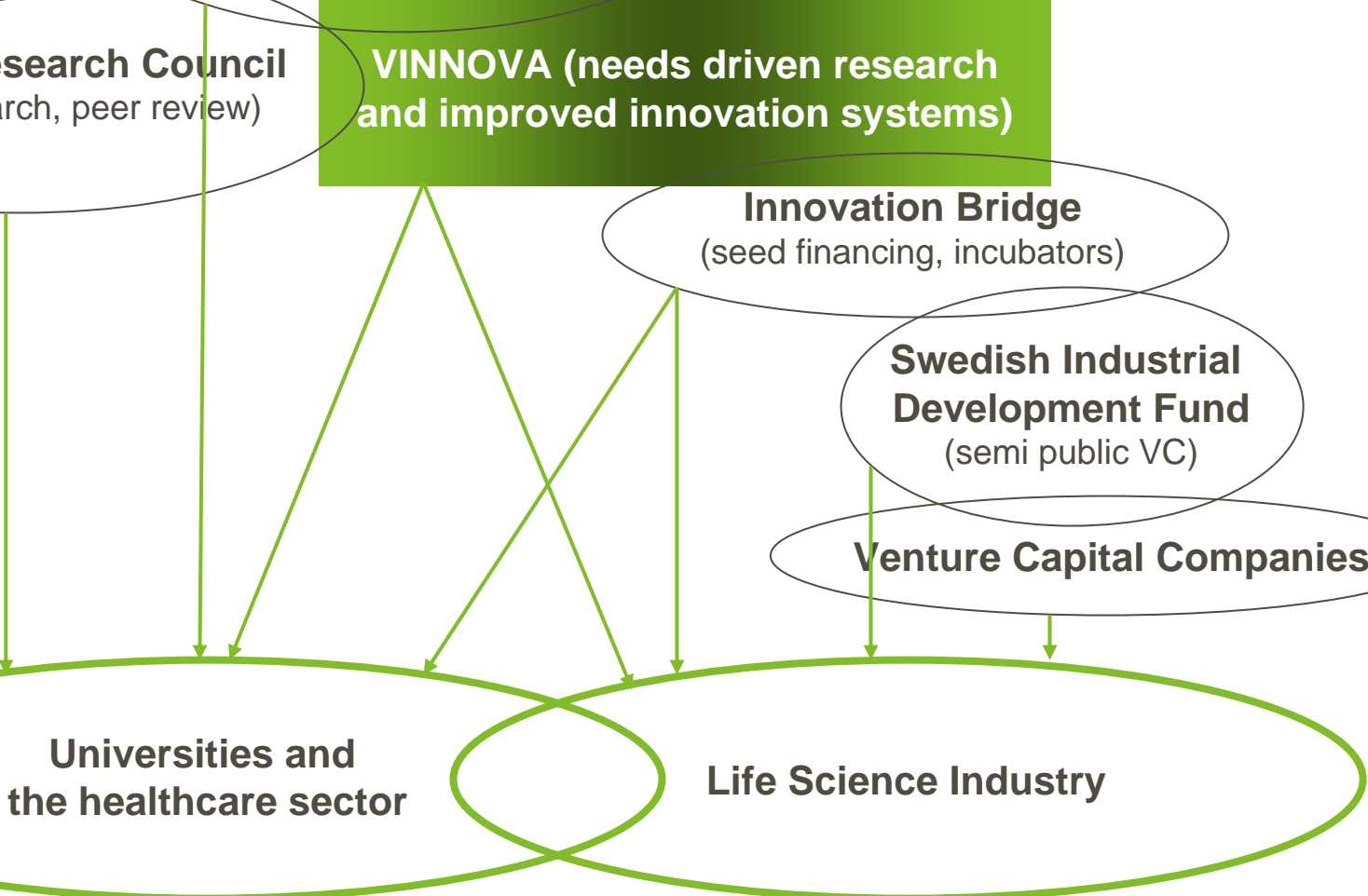
Swedish Industrial Development Fund

(semi public VC)

Venture Capital Companies

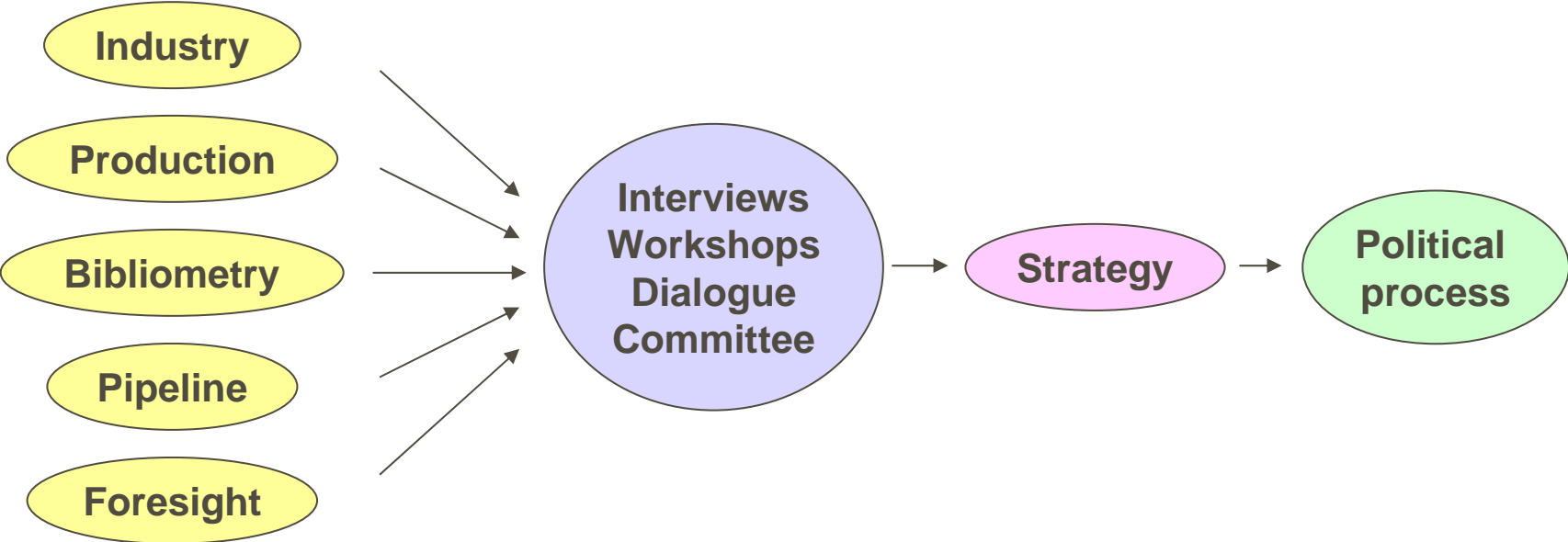
Universities and the healthcare sector

Life Science Industry

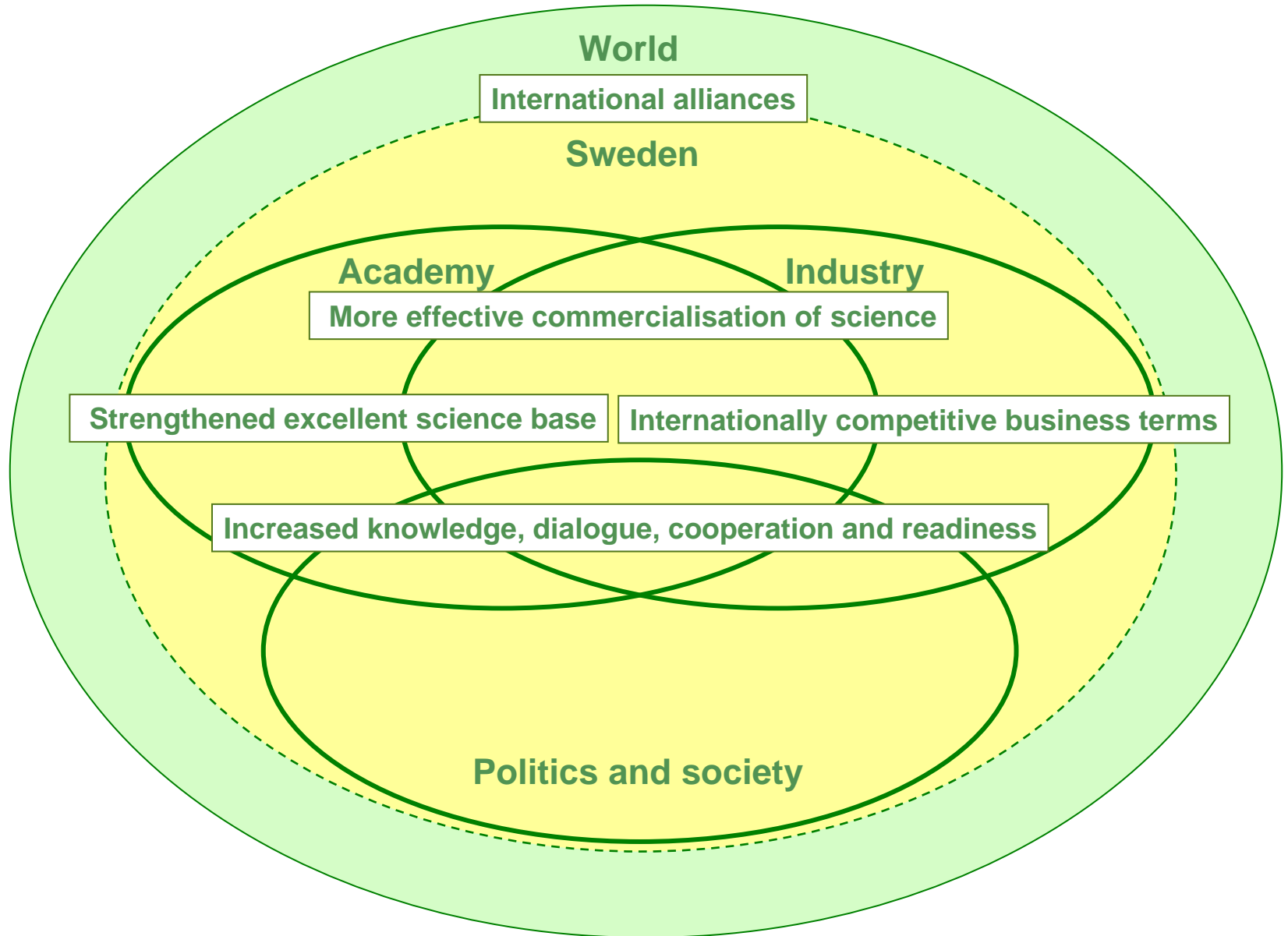


Development of a National Biotech Strategy

Examples of analyses used as input to the process...



Strategy for growth – Biotechnology



5

variables

Drug discovery & Development

Drug delivery

Diagnostics

Biotech medical technology

CRO

CMO

Medical technology

Biotech tools & supplies

Bioproduction

Agrobiotech

Environmental biotechnology

Functional food

Broad R&D
Without – with – without – with product

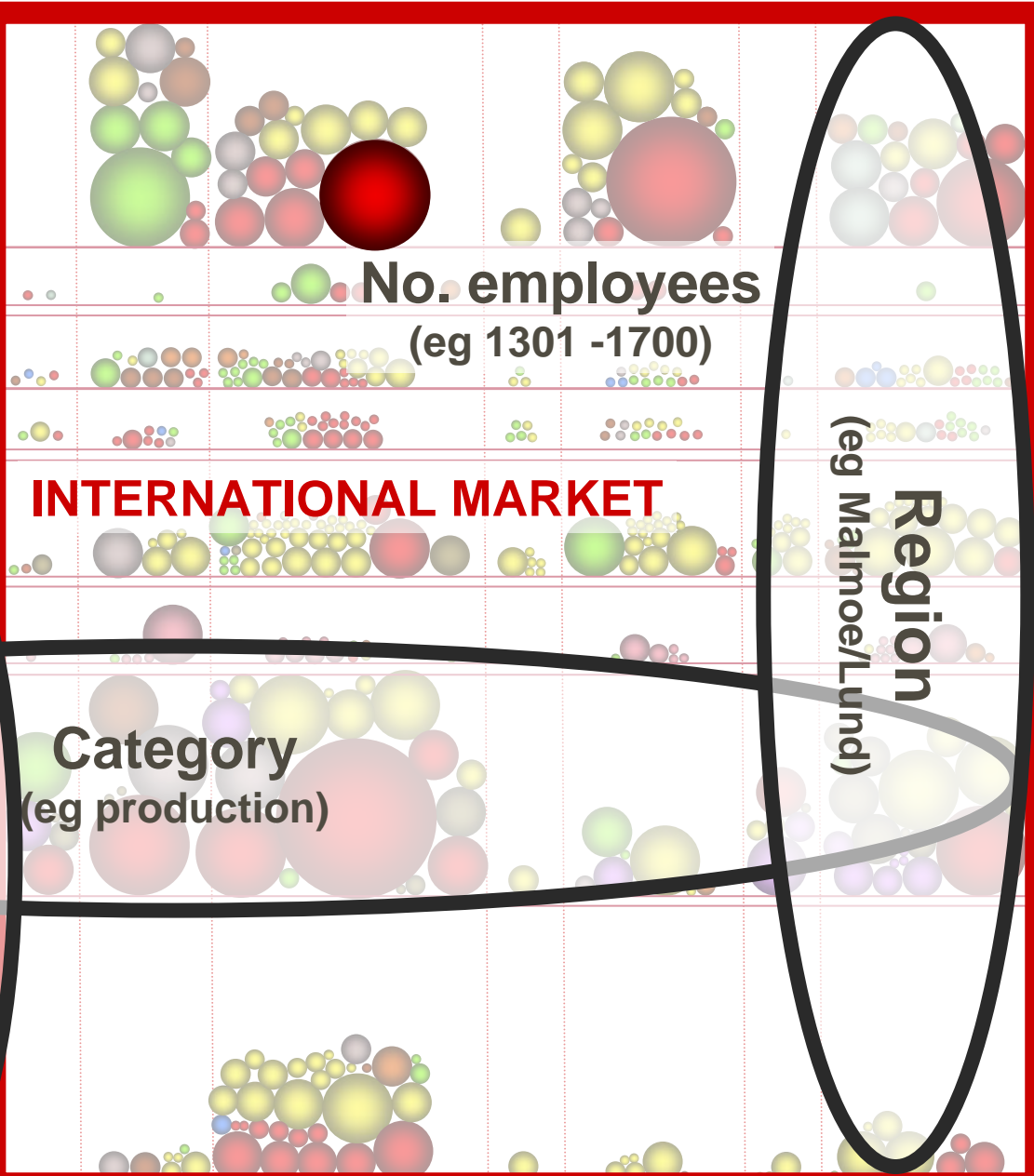
Narrow R&D

Product-
development

Consul-
tancy

Production

Marketing
& sales



No. employees
(eg 1301 -1700)

NATIONAL MARKET

INTERNATIONAL MARKET

Category
(eg production)

Region
(eg Malmö/Lund)

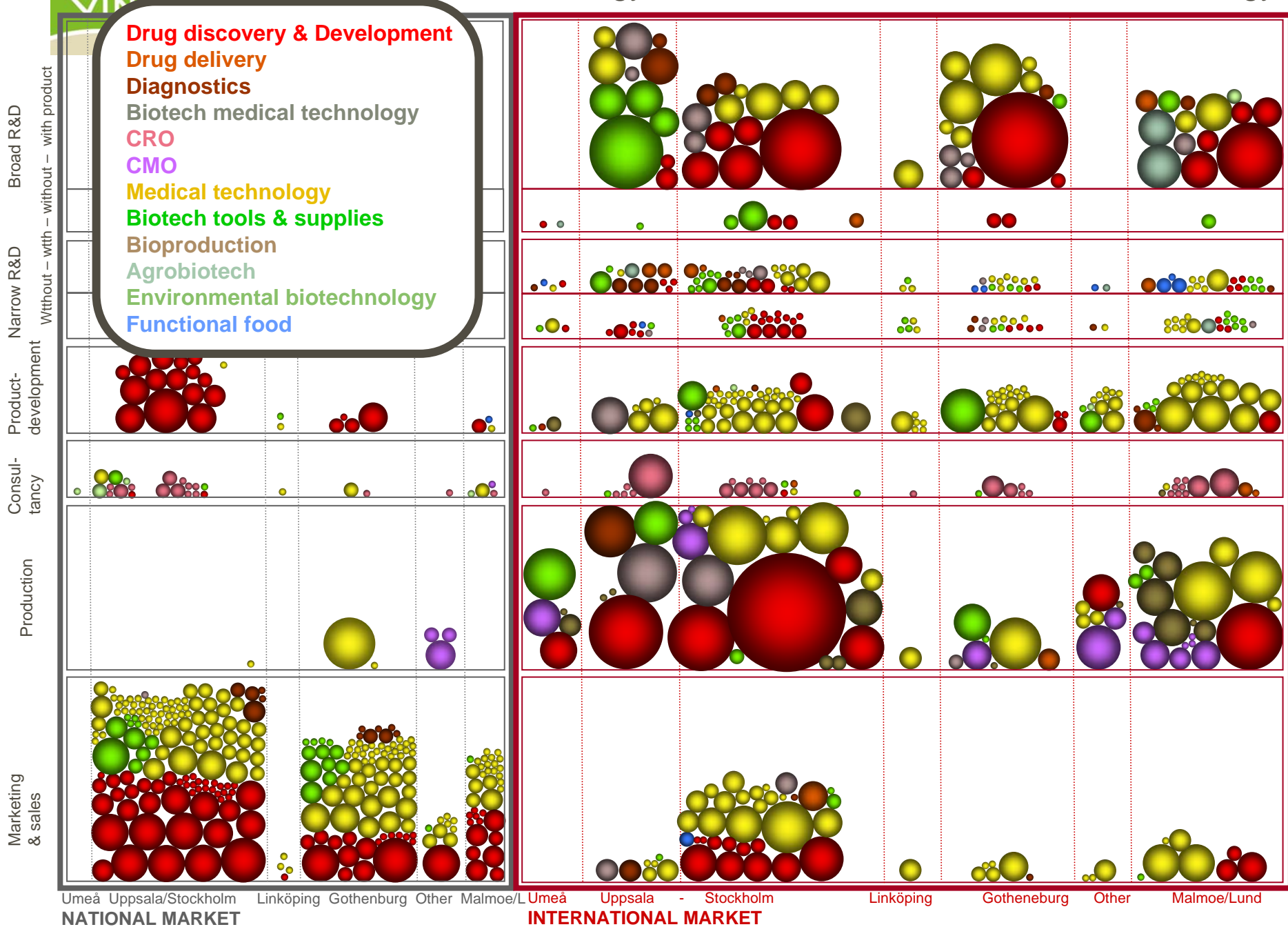
Region
(eg Malmö/Lund)

Umeå Uppsala/Stockholm Linköping Gothenburg Other Malmö/Lund Umeå Uppsala - Stockholm Linköping Gothenburg Other Malmö/Lund

NATIONAL MARKET

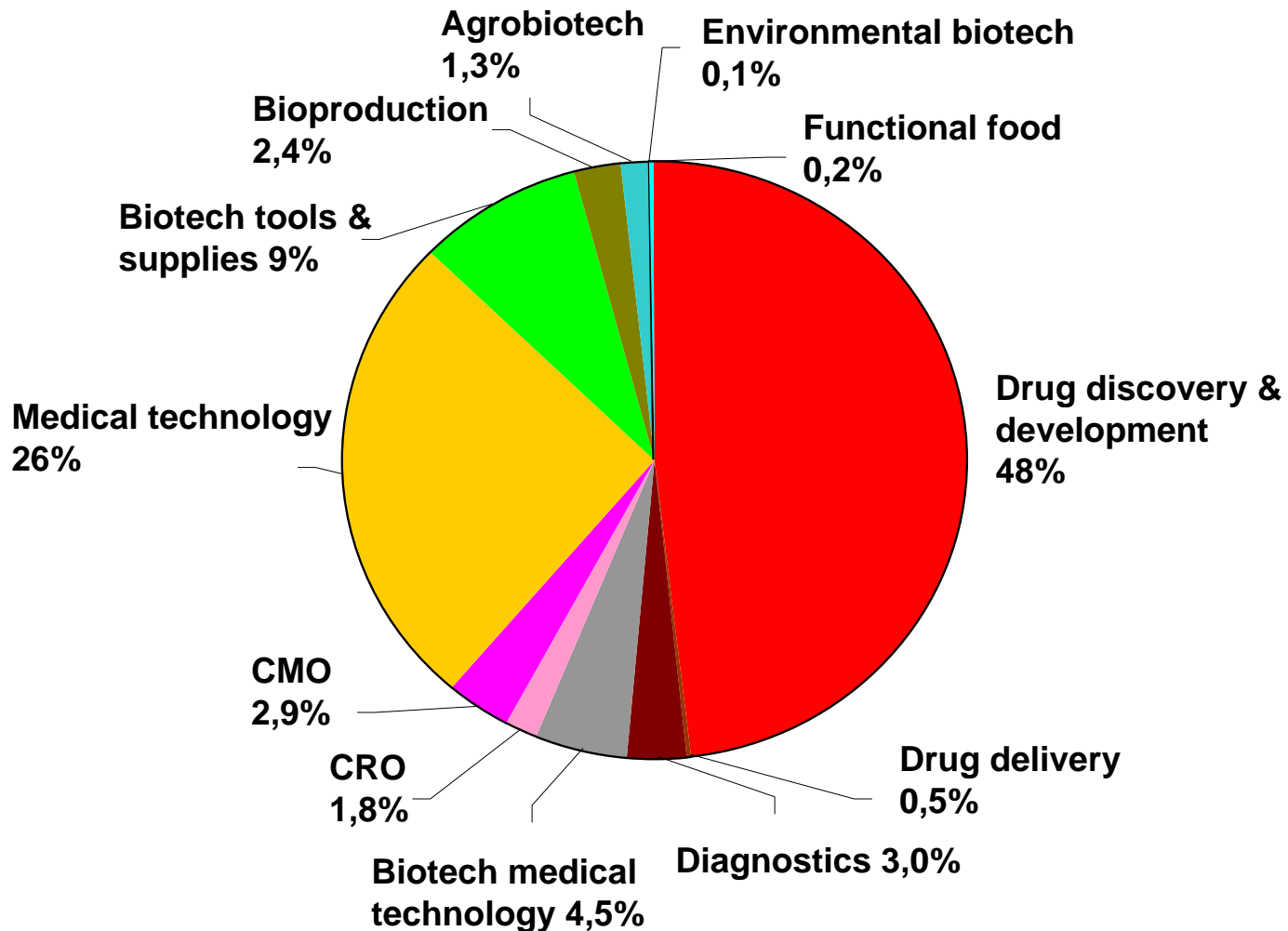
INTERNATIONAL MARKET

Cluster profile Sweden - Biotechnology, Pharmaceuticals and Medical Technology

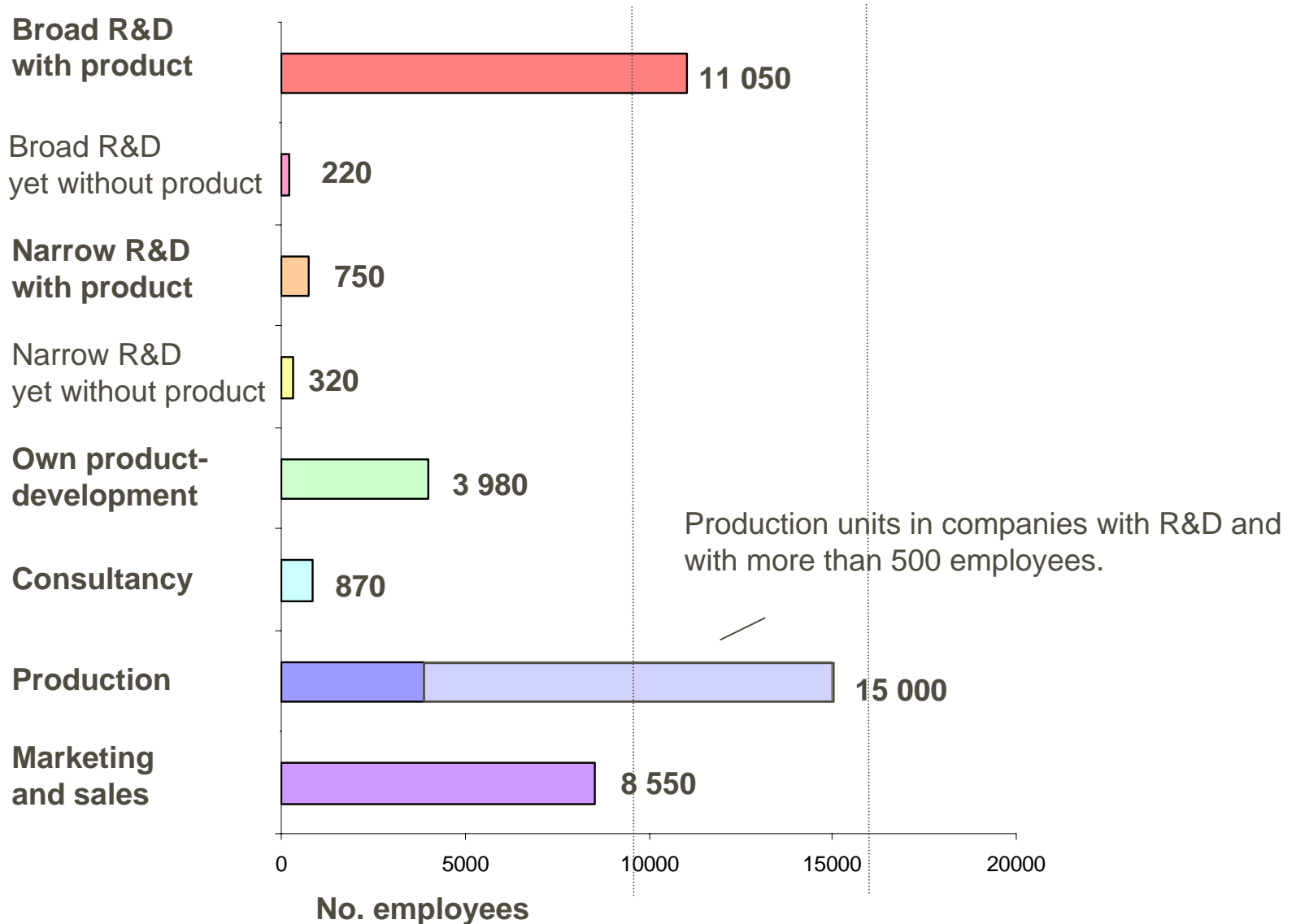


Share of employees in different business segments

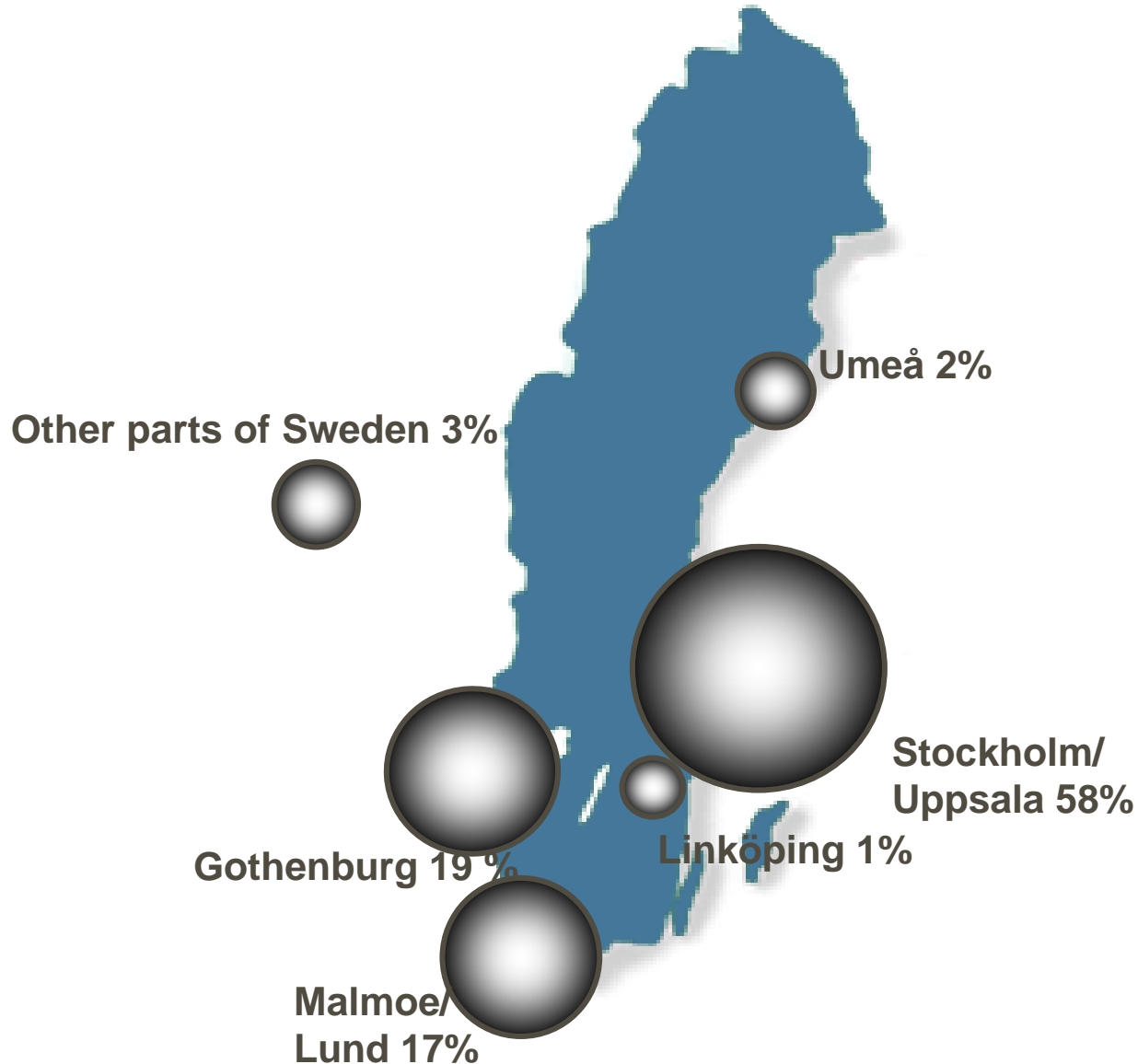
40 700 employees in total



No. employees in different categories



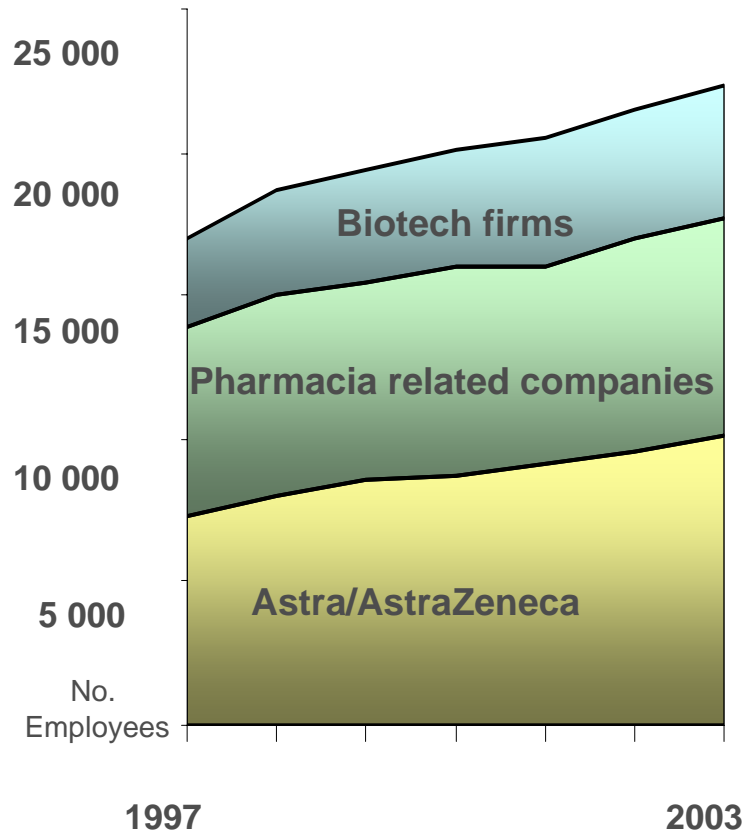
Regional distribution of the Swedish Life Science industry





Development 1997 - 2003

216 companies with 22 400 employees





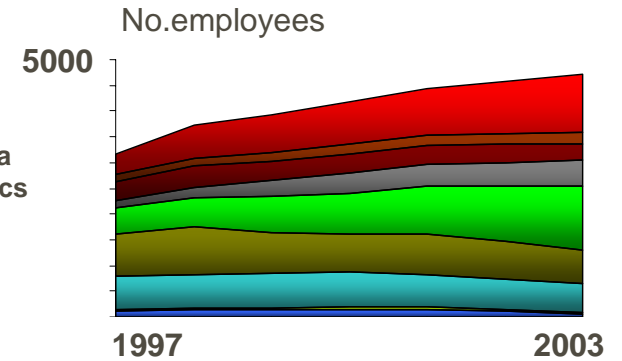
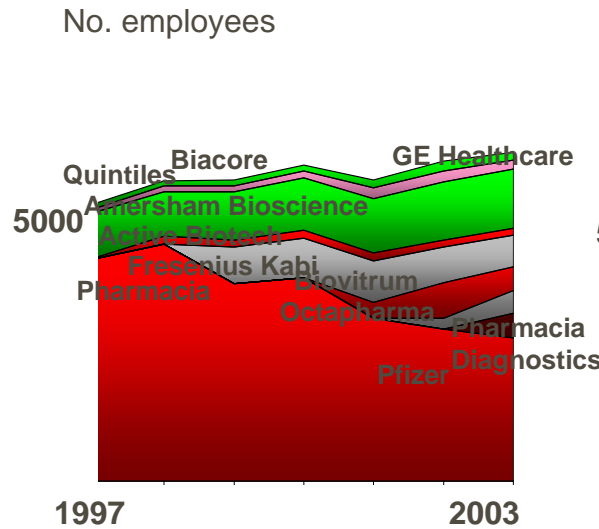
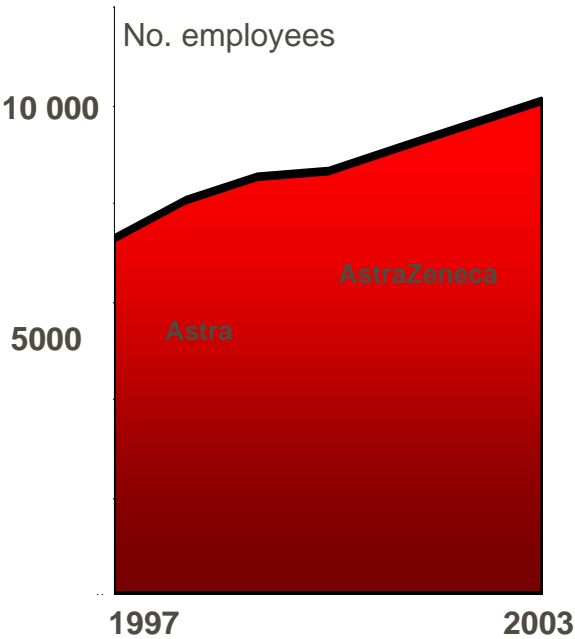
Biotech + Astra/AstraZeneca & Pharmacia related companies

216 companies with 22 400 employees (2003)

Astra/AstraZeneca

Pharmacia related companies

Other biotech companies



Growth of the number of employees 1997 - 2003

+ 5,5 percent/year,
Total + 38 percent

+ 3,0 percent/year,
Total + 19 percent

+ 6,2 percent/year,
Total + 43 percent

Cluster Profile, SWEDEN – Biotechnology, Pharmaceuticals

Medical Technology (Excluding national market and marketing/sales)

Broad R&D
with product

Broad R&D
yet without prod

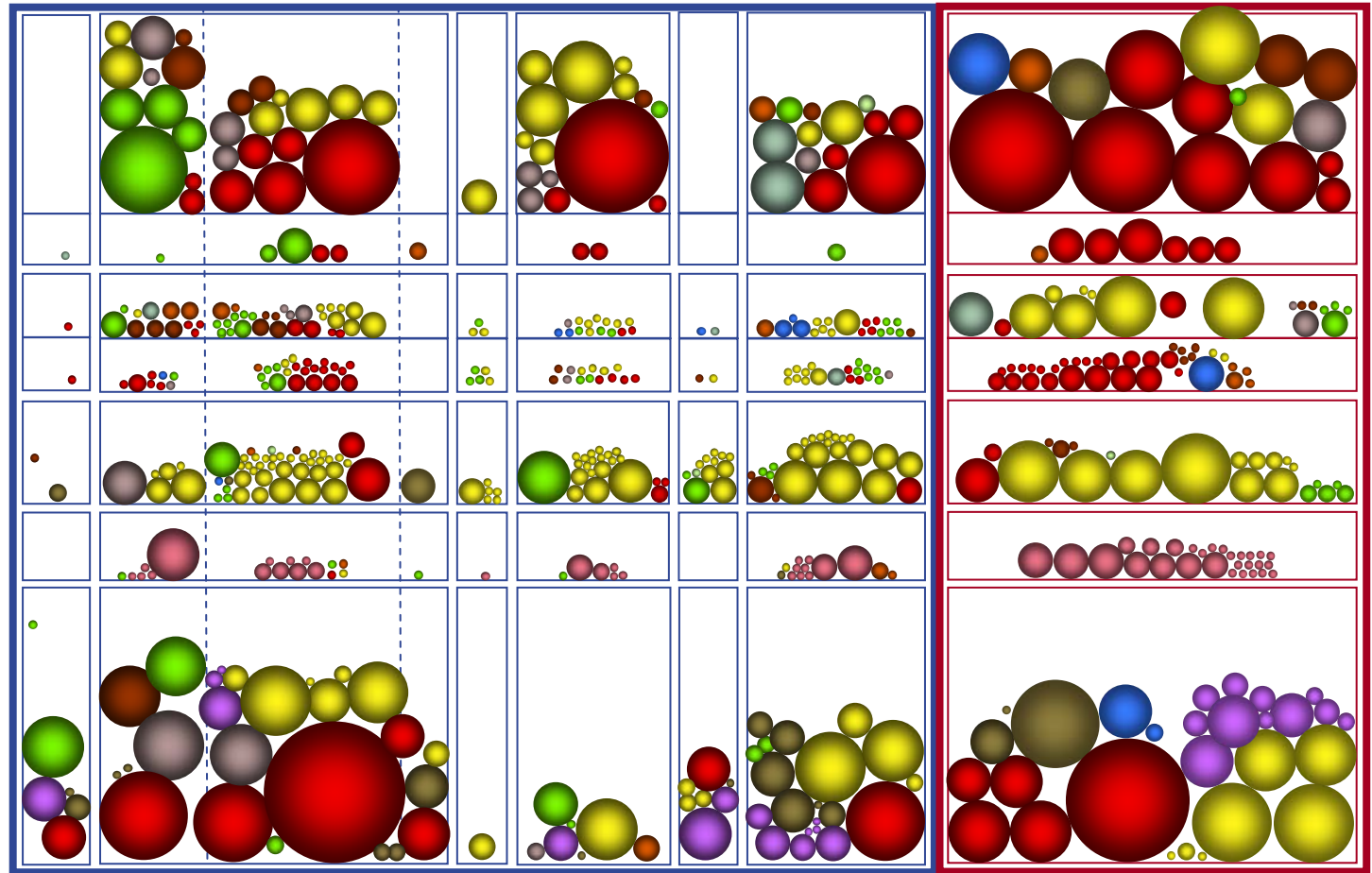
Narrow R&D
with product

Narrow R&D
yet without prod

Own product
development

Consultancy

Production



Umeå Uppsala–Stockholm–Strängnäs Linköping Gothenburg Other Malmö/Lund

Copenhagen

Business segments:

Drug discovery & development

Drug delivery

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Environmental biotechnology

Functional food

Medicon Valley