

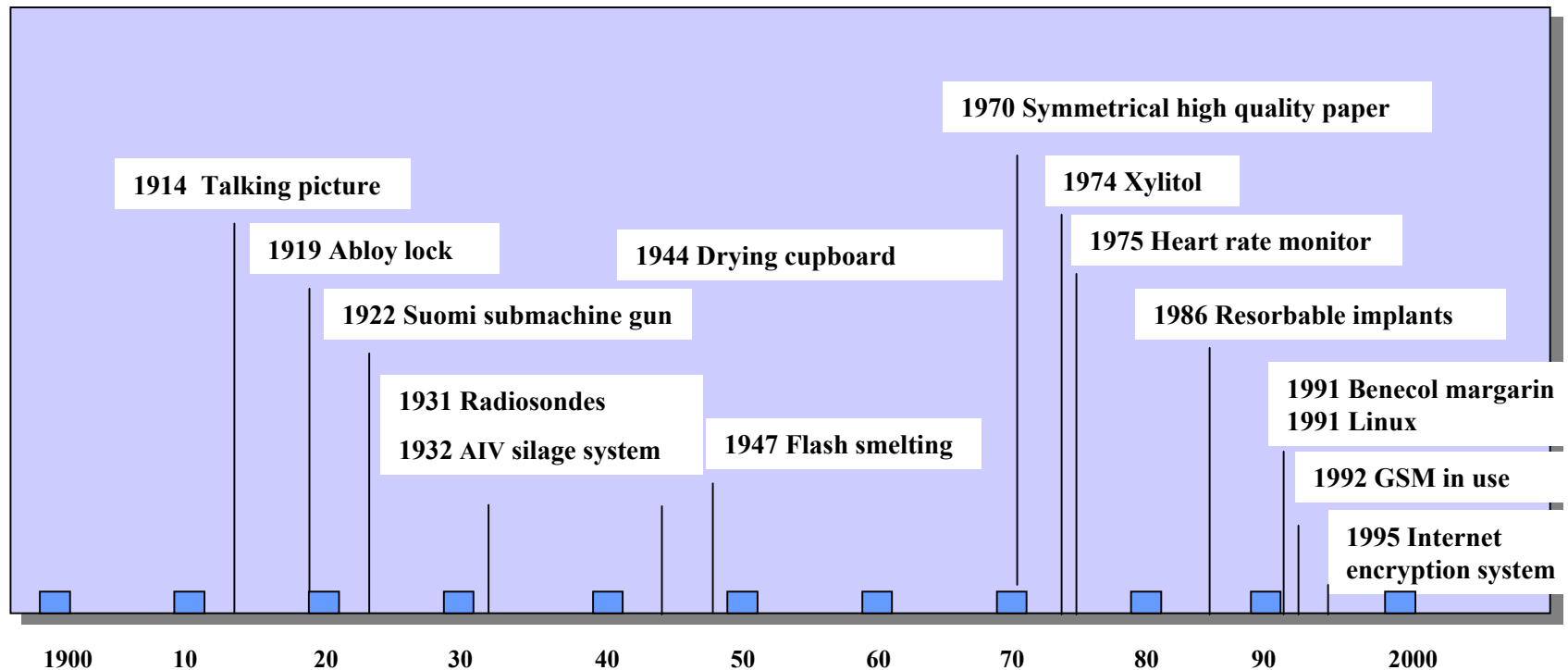


# FROM IDEAS TO INNOVATIONS

Juha Jutila  
Foundation for Finnish Inventions



# Some successful Finnish inventions





# Competitiveness 2000-2003

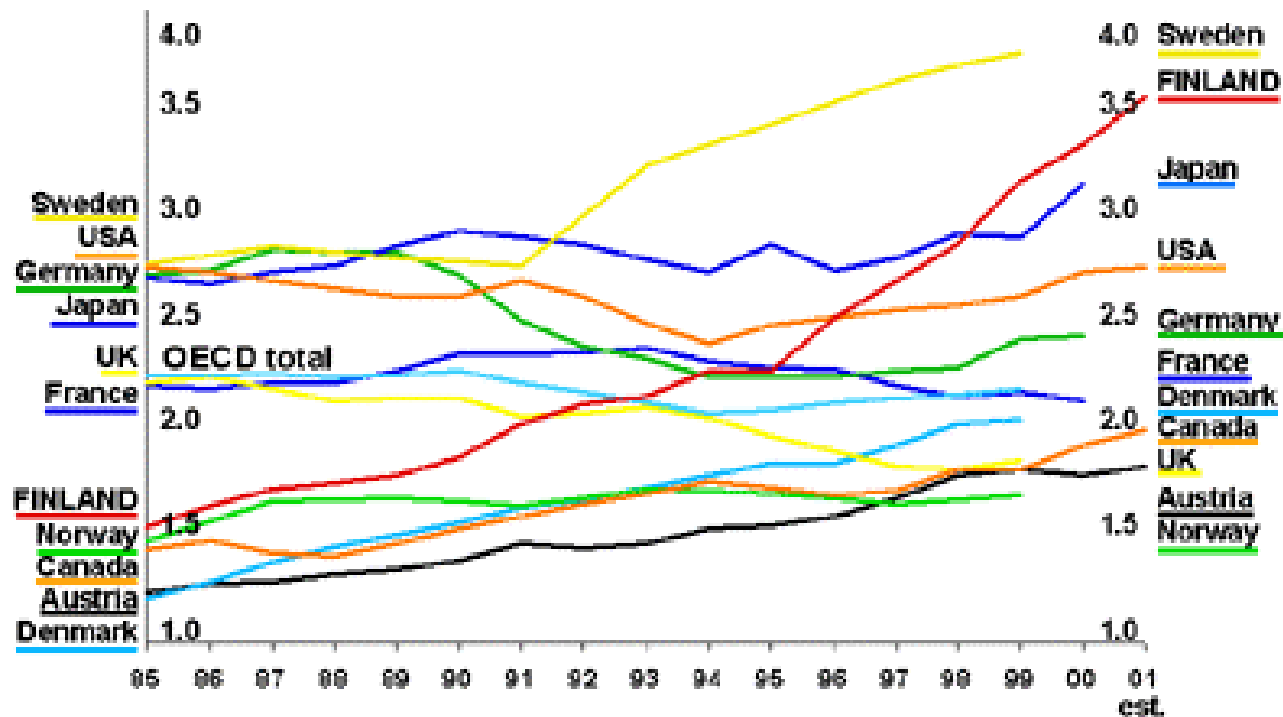
## Total ranking

	WEF Growth competitiveness				WEF Business competitiveness 2003	IMD Population over 20 mill. under 20 mill.	
	2003*	2002	2001	2000		2003	2003
<b>Finland</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>5</b>	<b>1</b>	-	<b>1</b>
<b>USA</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	-
<b>Sweden</b>	<b>3</b>	<b>5</b>	<b>9</b>	<b>12</b>	<b>3</b>	-	<b>7</b>
<b>Denmark</b>	<b>4</b>	<b>10</b>	<b>14</b>	<b>13</b>	<b>4</b>	-	<b>3</b>
<b>Taiwan</b>	<b>5</b>	<b>3</b>	<b>7</b>	<b>10</b>	<b>16</b>	<b>6</b>	-
<b>Singapore</b>	<b>6</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>8</b>	-	<b>2</b>
<b>Switzerland</b>	<b>7</b>	<b>6</b>	<b>15</b>	<b>9</b>	<b>7</b>	-	<b>5</b>
<b>Iceland</b>	<b>8</b>	<b>12</b>	<b>16</b>	<b>23</b>	<b>14</b>	-	<b>9</b>
<b>Norway</b>	<b>9</b>	<b>9</b>	<b>6</b>	<b>15</b>	<b>22</b>	-	<b>12</b>
<b>Australia</b>	<b>10</b>	<b>7</b>	<b>5</b>	<b>11</b>	<b>11</b>	<b>2</b>	-
<b>Japan</b>	<b>11</b>	<b>13</b>	<b>21</b>	<b>20</b>	<b>13</b>	<b>11</b>	-
<b>Netherlands</b>	<b>12</b>	<b>15</b>	<b>8</b>	<b>3</b>	<b>9</b>	-	<b>8</b>
<b>Germany</b>	<b>13</b>	<b>14</b>	<b>17</b>	<b>14</b>	<b>5</b>	<b>5</b>	-
<b>UK</b>	<b>15</b>	<b>11</b>	<b>12</b>	<b>8</b>	<b>6</b>	<b>7</b>	-

\* Applying 2003 formula



# R&D input (percentage of GDP) in some OECD countries

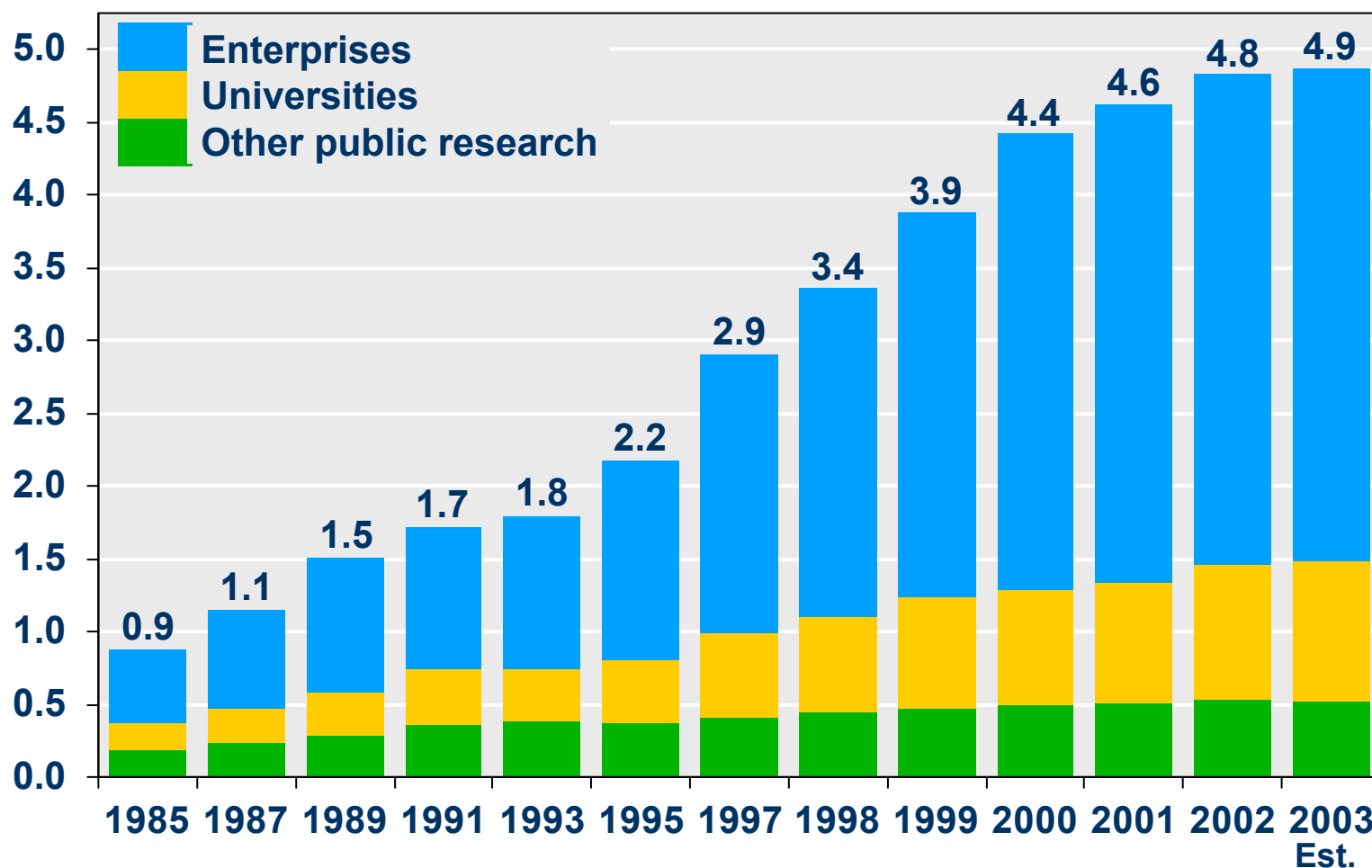


Source: OECD, Main Science and Technology Indicators Database.



# R&D in Finland

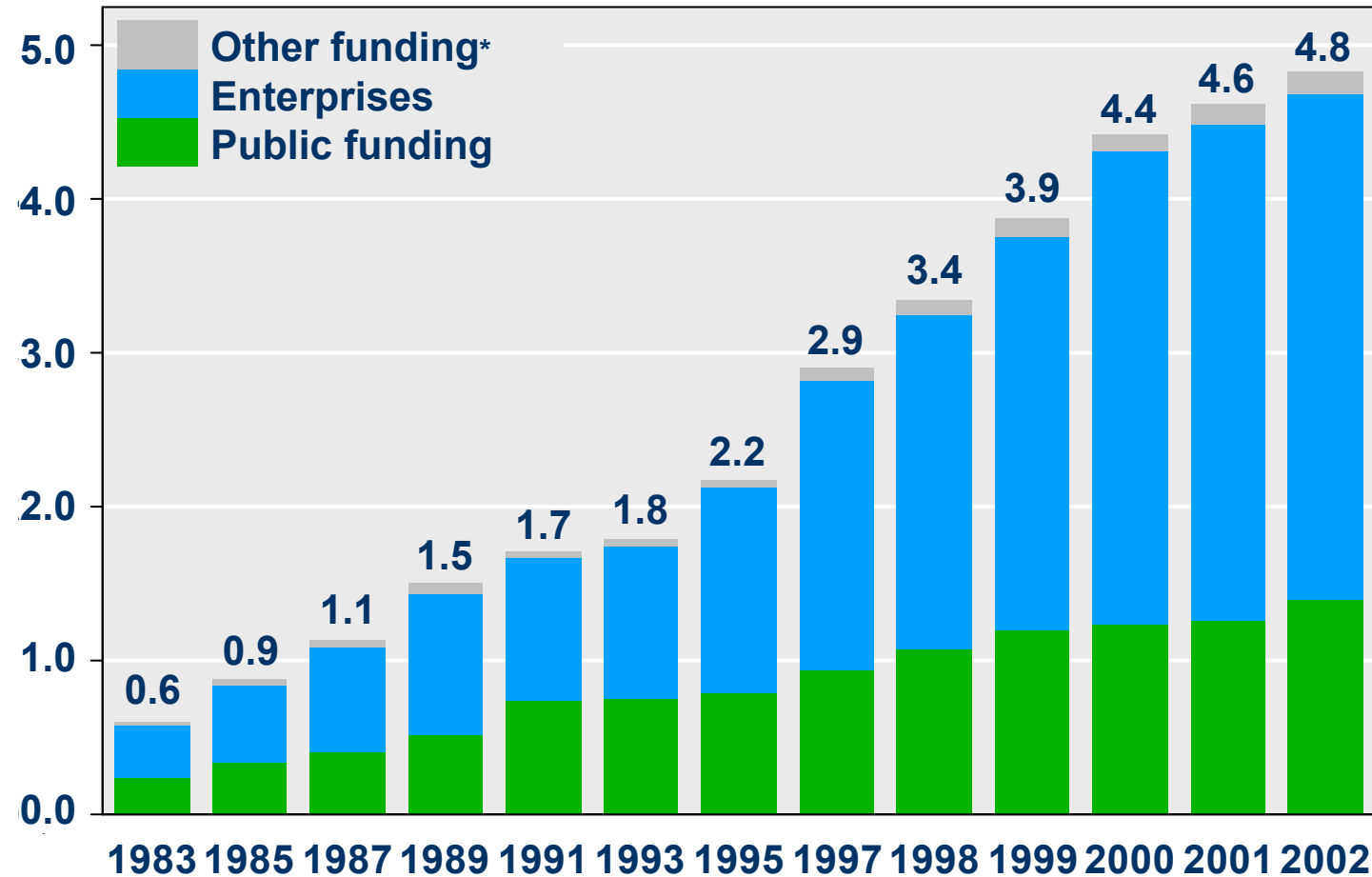
Billion euros





# Funding of R&D expenditure

Billion euros



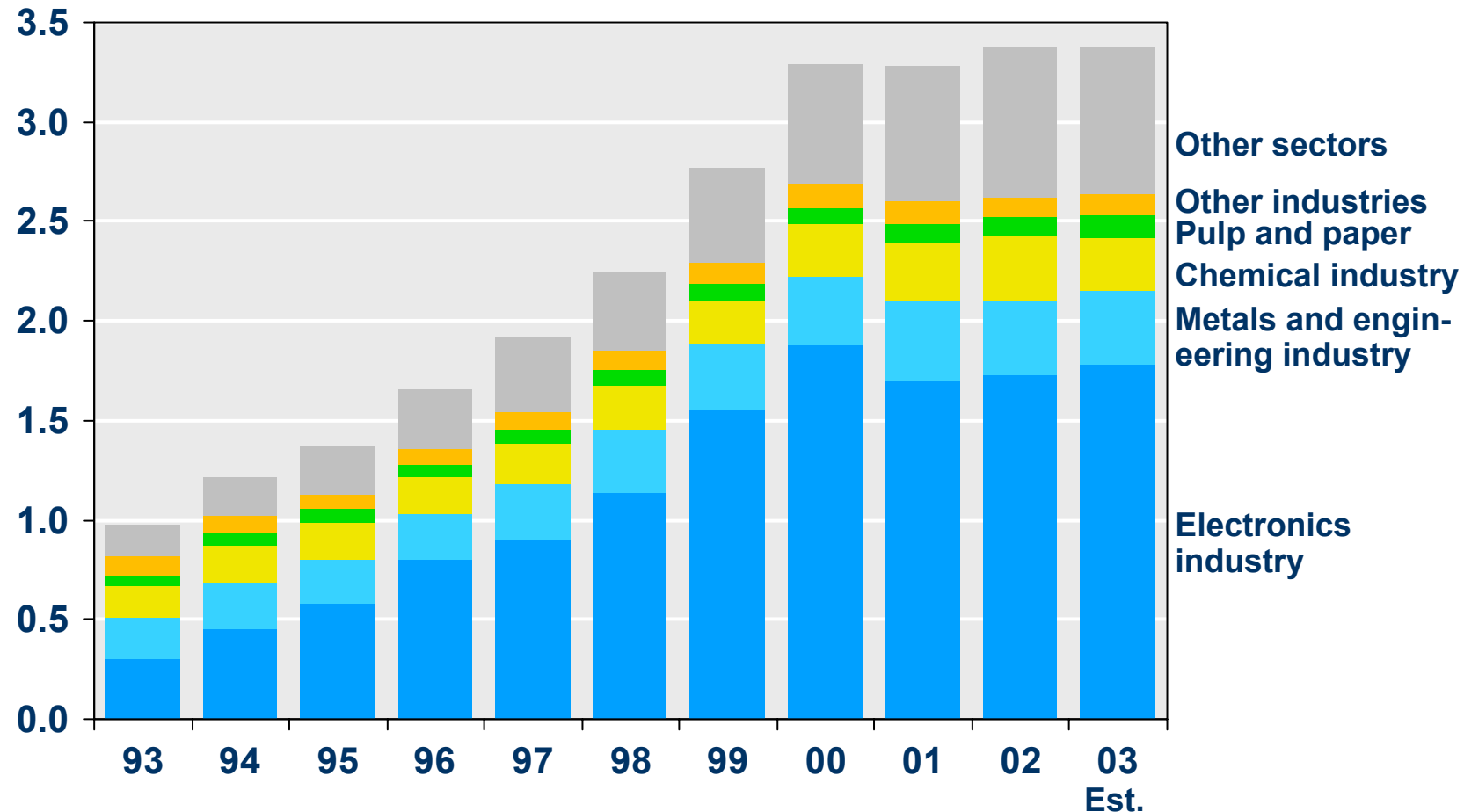
\* Funding from abroad excluding foreign enterprise funding, foundations, own funds of universities, other sources.



# R&D input in Finland by sectors

**Total 3.4 billion euros in 2003**

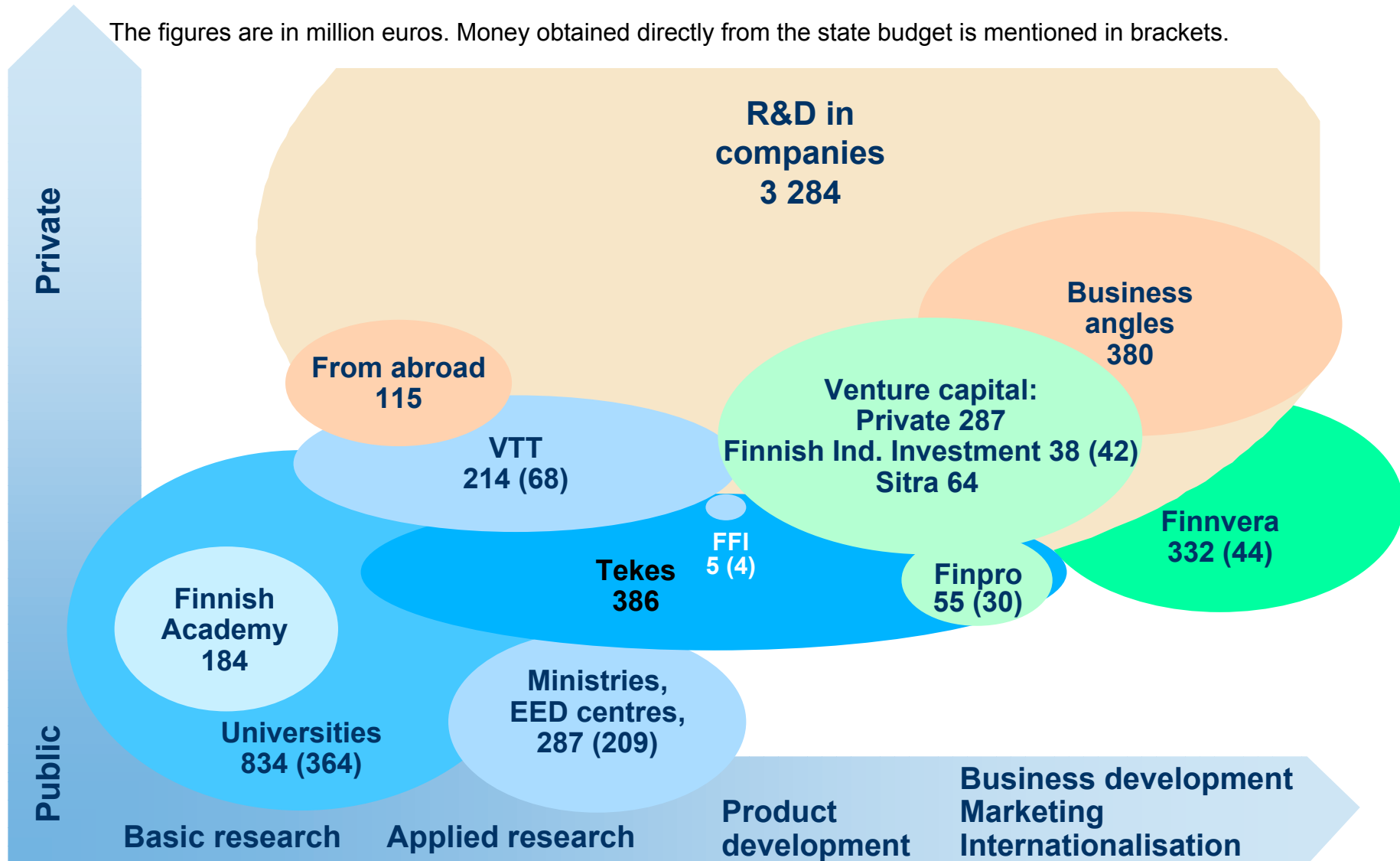
Billion euros





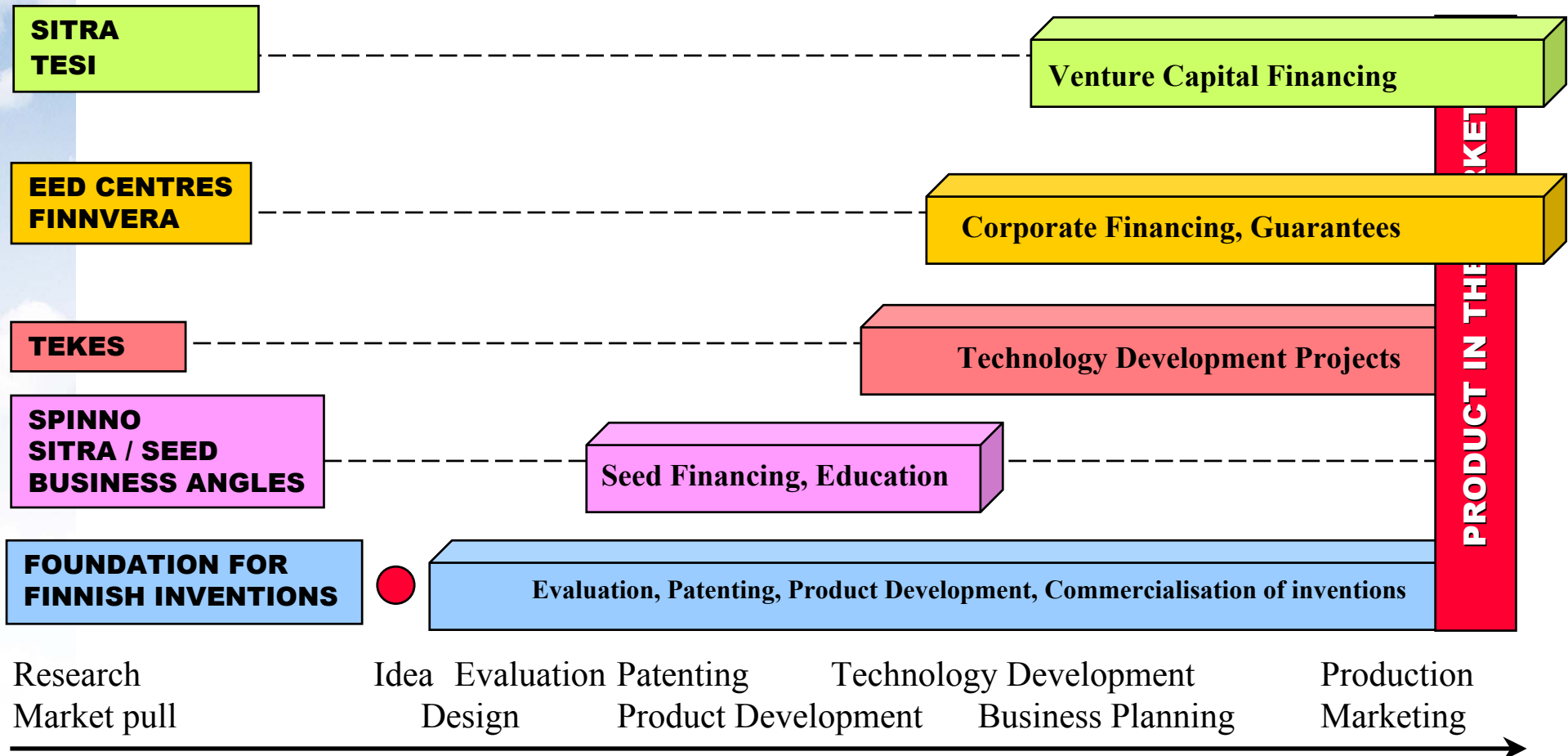
# Volumes of innovation actors in 2001

The figures are in million euros. Money obtained directly from the state budget is mentioned in brackets.



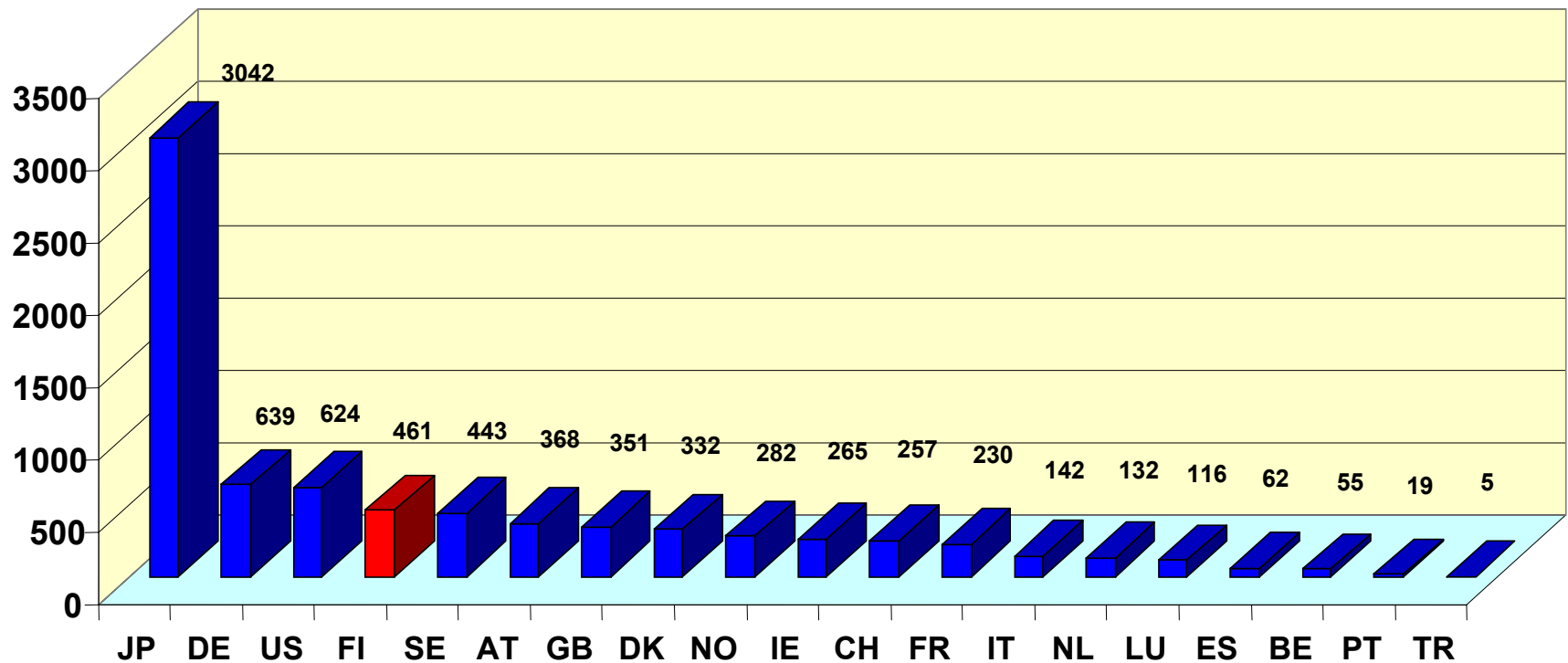


# Public supporters and financiers of inventions and enterprises in Finland



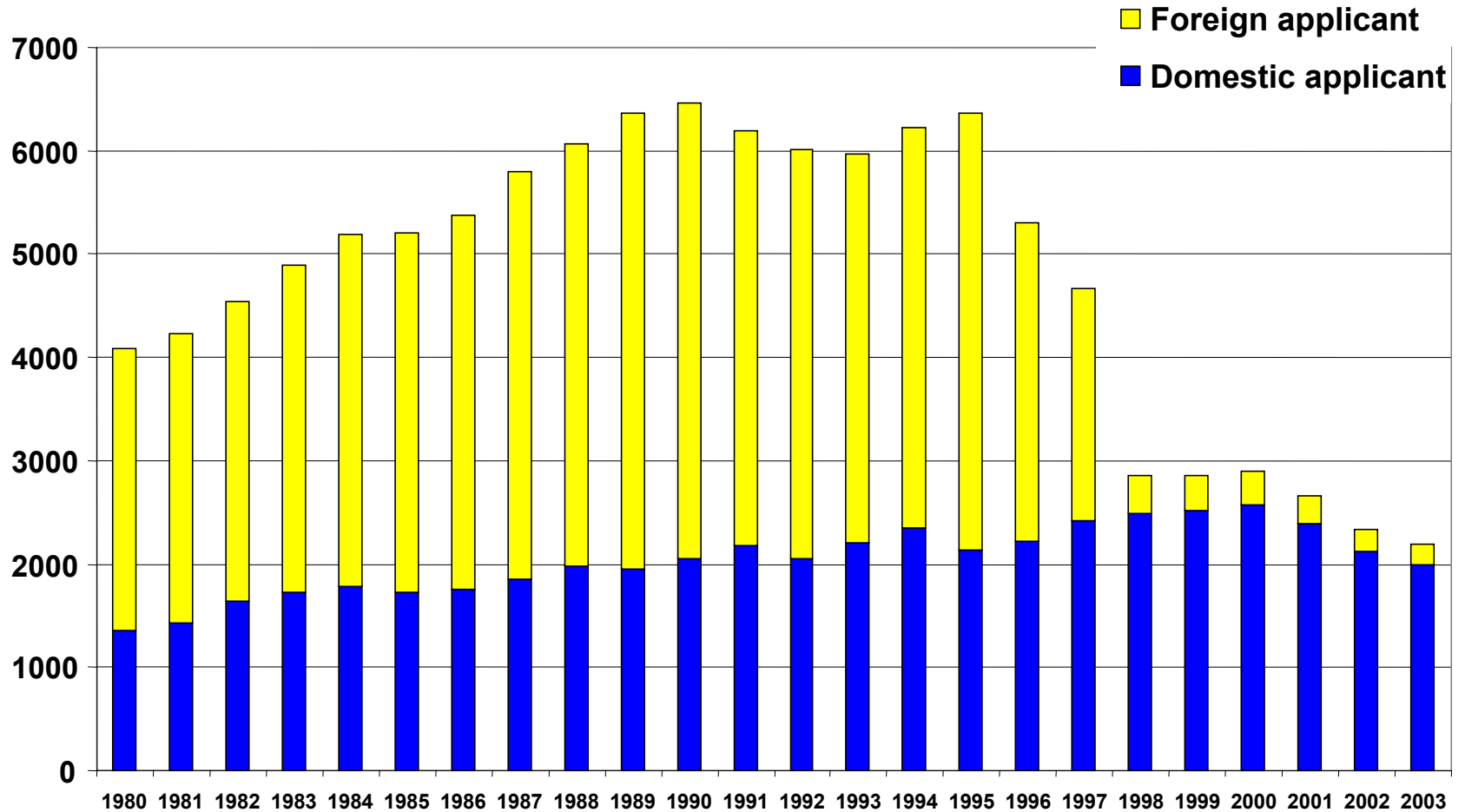


# Domestic patent applications per millions of inhabitants in 2001





# Applications in Finland





# REMARKABLE FINNISH INNOVATIONS

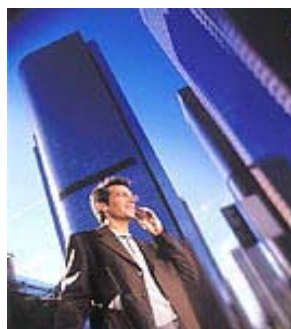


Kuva: Satakunnan Kansu



# NOKIA

CONNECTING PEOPLE



**NOKIA  
8850**

Muoto ja sisältö



**Nokia 9110  
Communicator**

Yhteydenpidon  
helpoin tapa





## Hannu Salovaara / YOSA, functional food





## Kari Ulvio / Ultralight and easy loupe



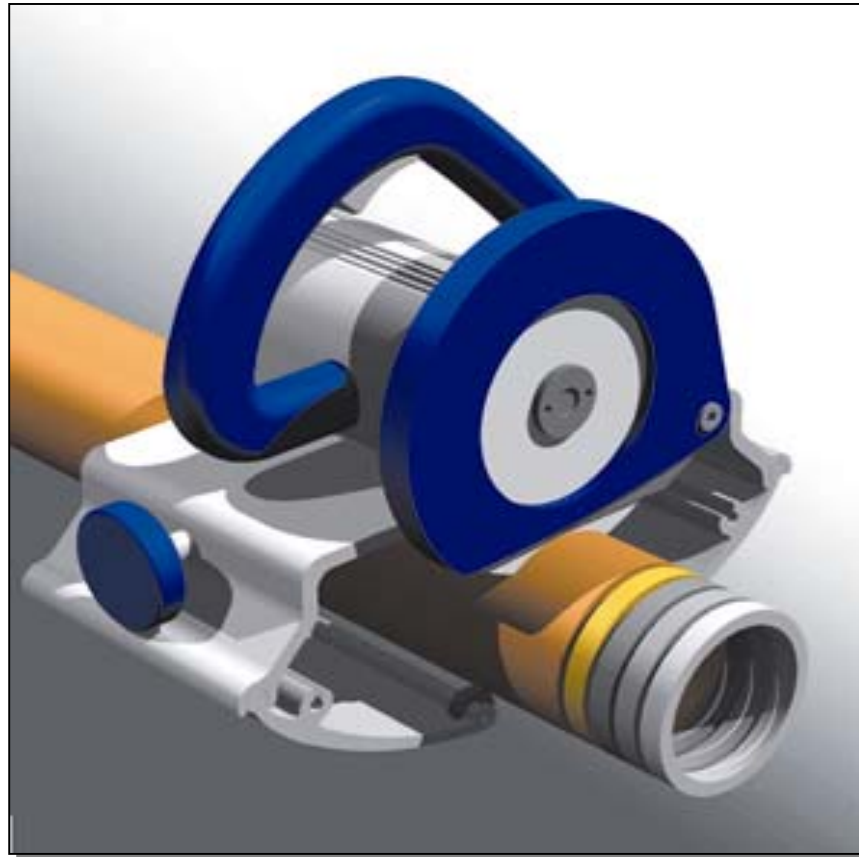


## Polar Electro Oy / Heart rate monitor





## Seppo Makkonen / Exact Pipecutter





# Juha Lappalainen / PickPen™ Immobilised enzymes





# Foundation for Finnish Inventions

Supports and helps private individuals and entrepreneurs to develop and exploit invention proposals.



## Risk financing

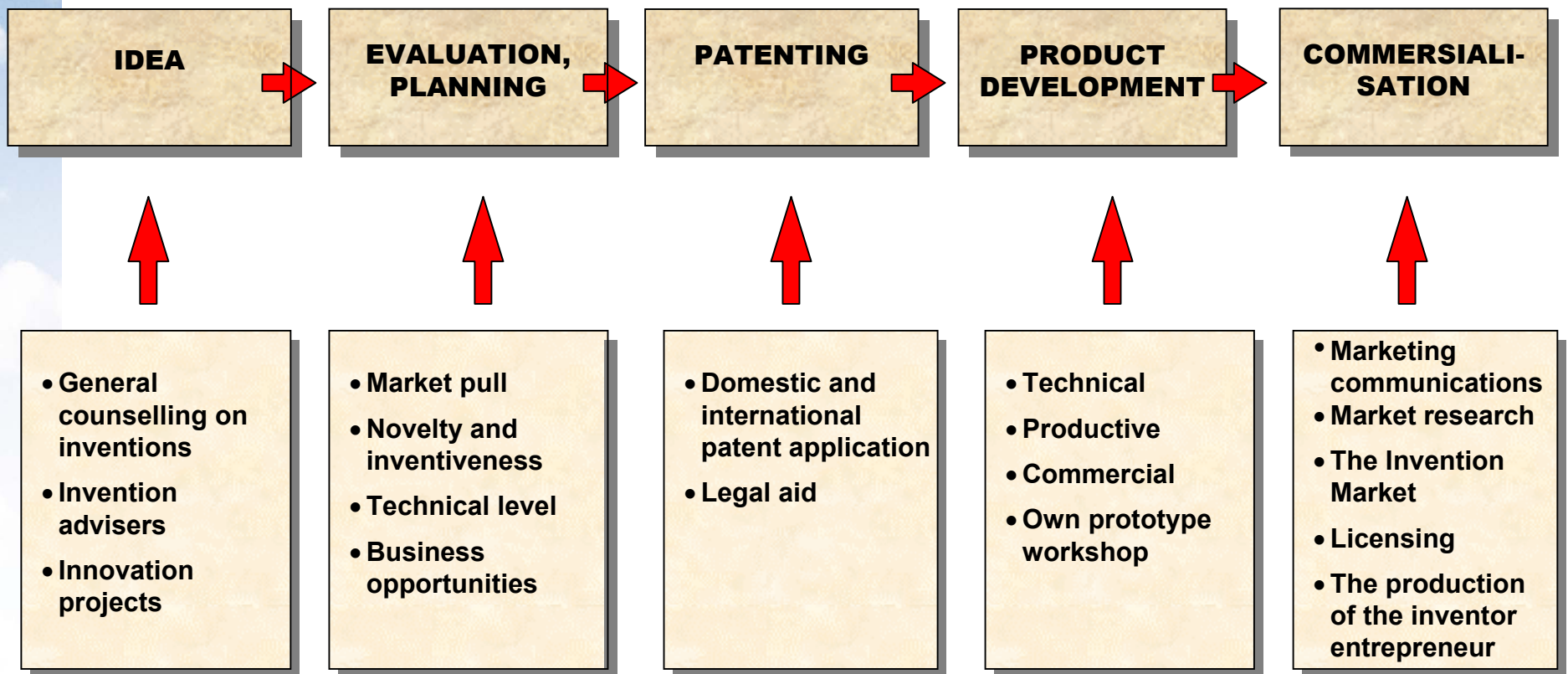
- The funding provided by the Foundation is risk financing.
- No securities are needed.
- Foundation can cover 100% of the costs.
- No interest or multiples

## Forms of financing

- Grants
- Grants with conditional repayment
- Loans



# From ideas into products on the market





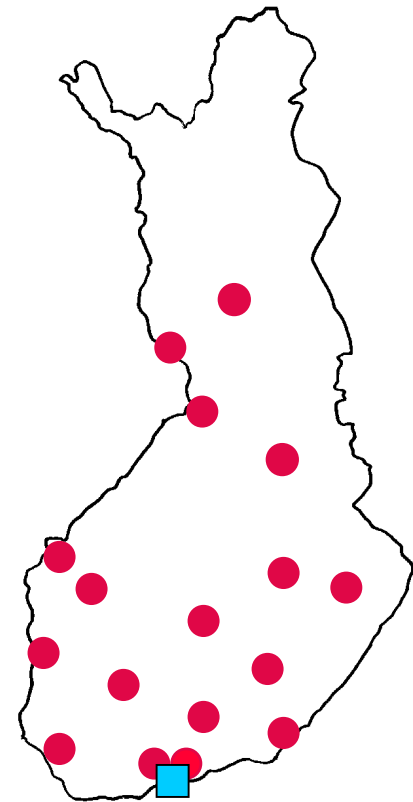
## FFI, personnel

1) Technical and commercial experts, back-office, management (Innopoli 1)	23 persons
2) Invention advisers in universities	12 persons
3) Invention advisers in Employment and Economic Development centers	<u>15 persons</u>
total:	50 persons



# Foundation covers whole of Finland

- Espoo / HUT (2)
- Helsinki
- Helsinki / univ. (3)
- Helsinki / HSE
- Joensuu
- Jyväskylä
- Jyväskylä / univ.
- Kajaani
- Kemi
- Kuopio
- Kuopio / univ.
- Lahti
- Lappeenranta
- Lappeenranta / LUT
- Mikkeli
- Oulu / univ.
- Oulu
- Pori
- Rovaniemi
- Seinäjoki
- Tampere / TUT
- Turku
- Turku / univ.
- Vaasa



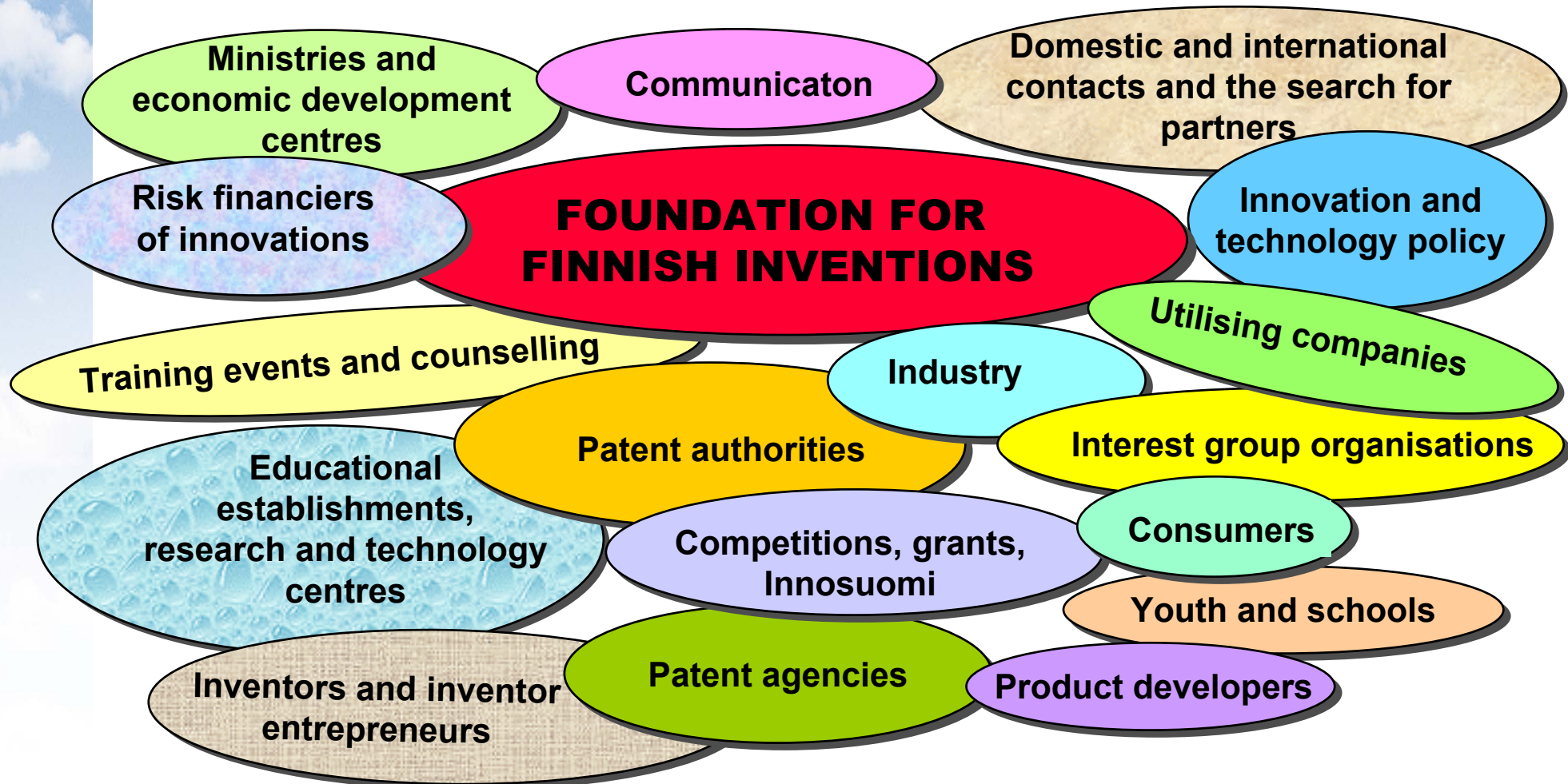


# Foundation for Finnish Inventions in 2003

- **Budgetary resources** 5,5 m€
  - **Advisory services** 18 000
  - **Invention proposals** 2500
  - **Funding applications** 800
  - **Risk financing, projects** 250
  - **Projects commercialised** 40
- 
- **The average amount of funding per invention is 8.000 € (2.000 -100.000 €).**

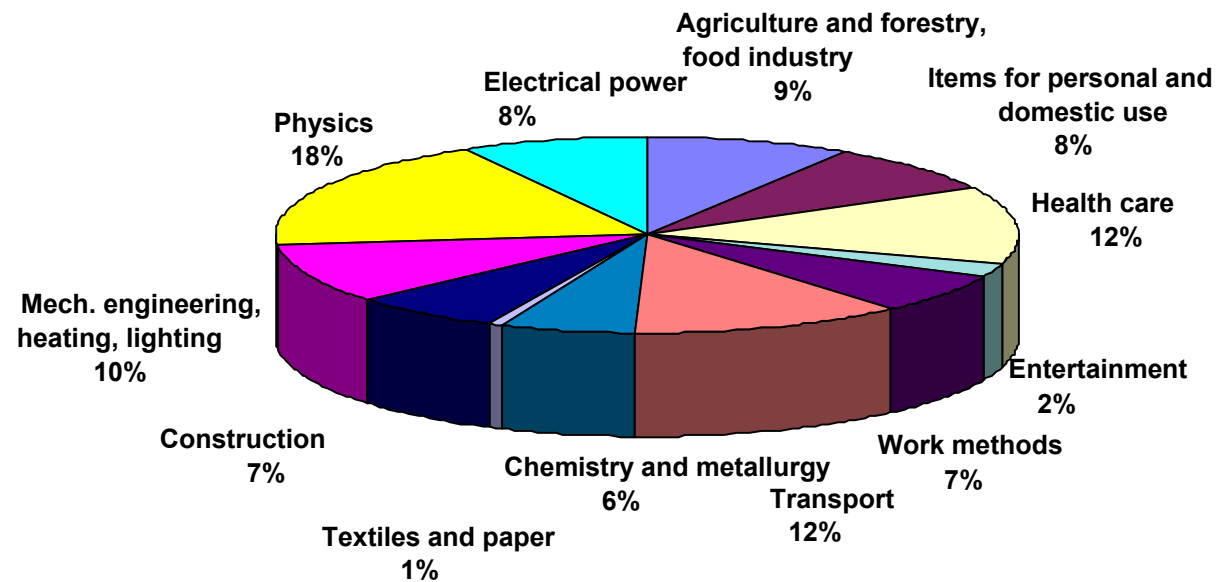


# Contacts and partners of FFI



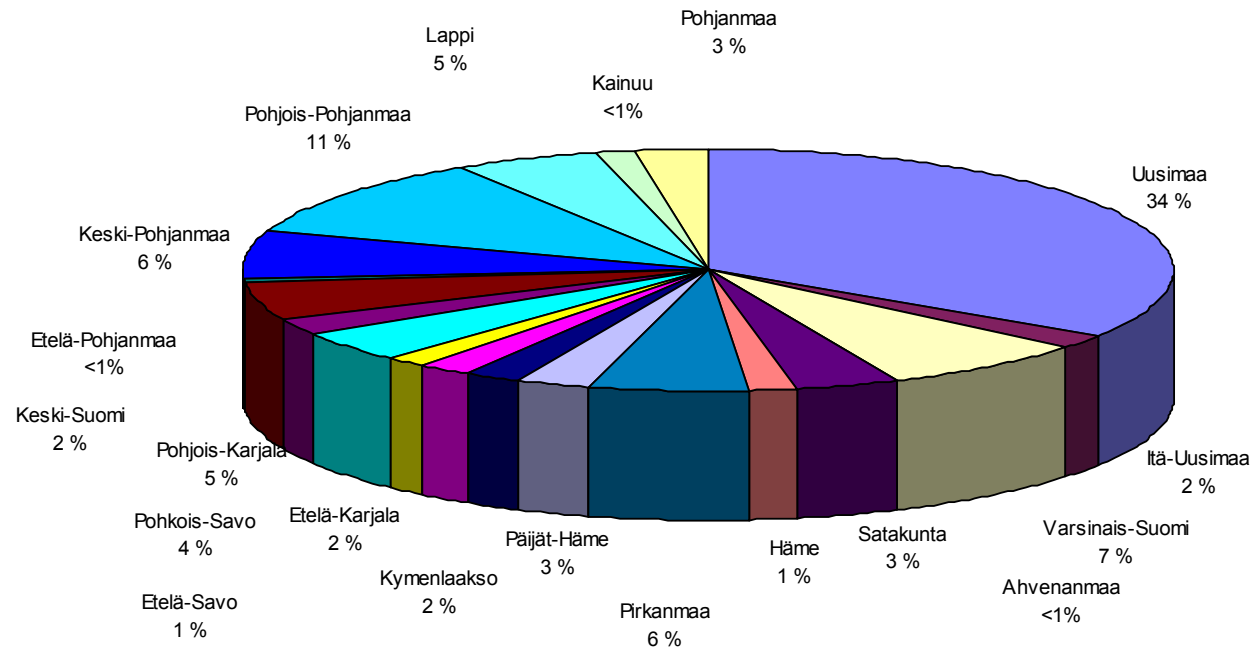


## Applications by industrial segments in 2002



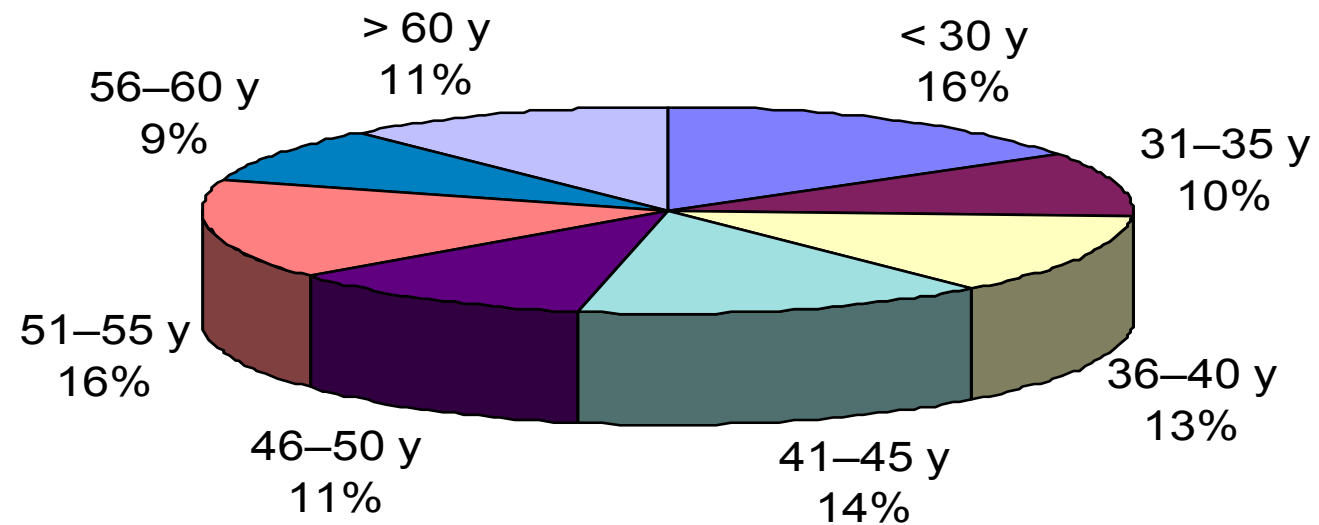


## Applications by origin in 2002



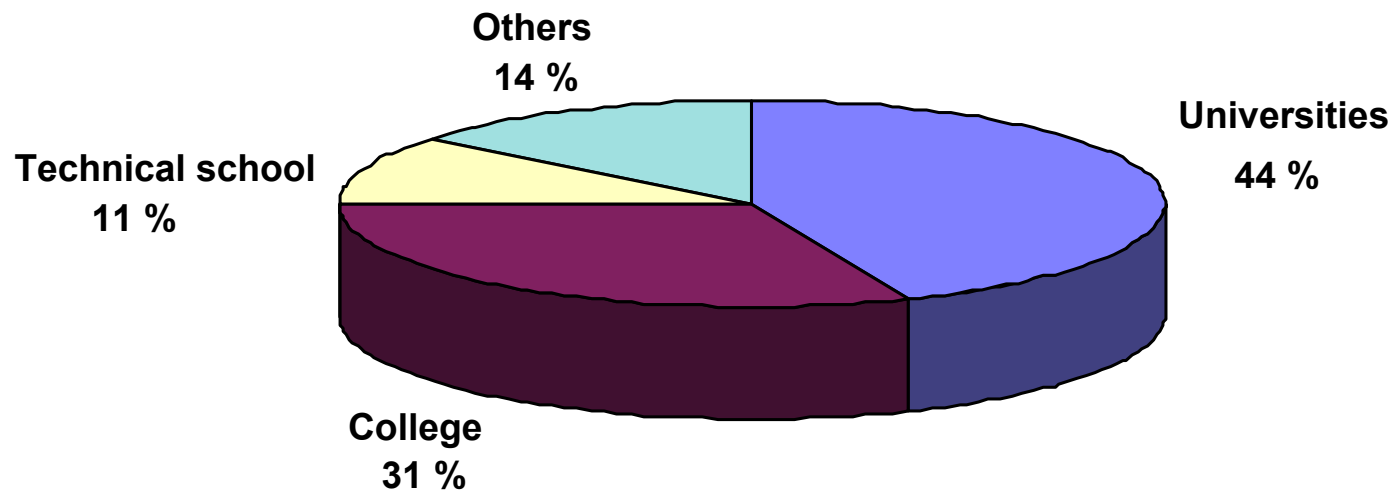


## Age of inventors, 2002



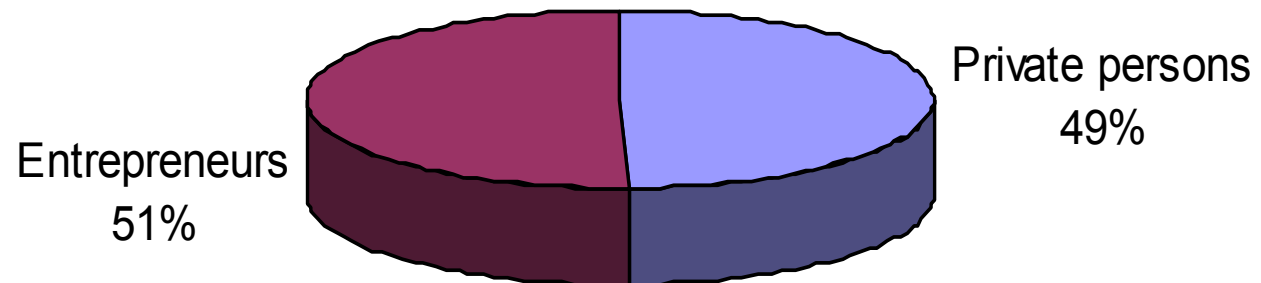


## Basic education of inventors, 2002





## Shares of private persons and entrepreneurs, 2002





# Information

**[www.innofin.com](http://www.innofin.com)**