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Technological Center

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Tallinn

INNOVATION – DRIVING FORCE FOR ECONOMIC DEVELOPMENT IN THE BALTIC SEA REGION



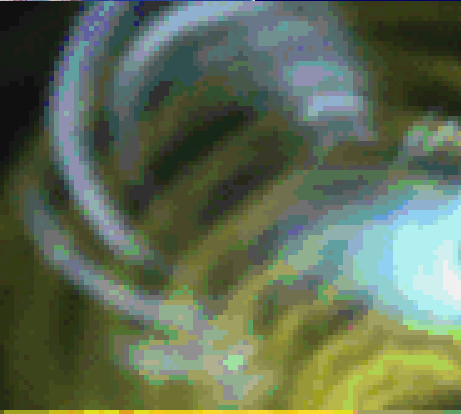
Bulletin of the European Union
Supplement 5/95

European
Commission

Green Paper on innovation

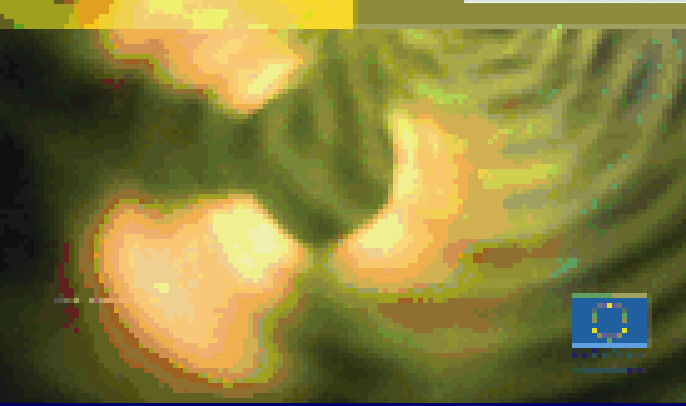


EN



Creating an Innovative Europe

Report of
the High Level
Group of Experts
on the Future of
Innovation in
Europe



INNOVATE AMERICA

December 2004

NATIONAL INNOVATION INITIATIVE REPORT
thriving in a world of challenge and change

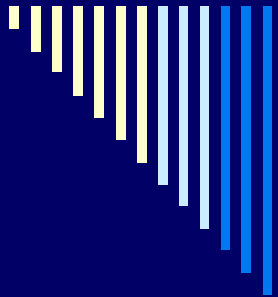


Department for
**Innovation,
Universities &
Skills**



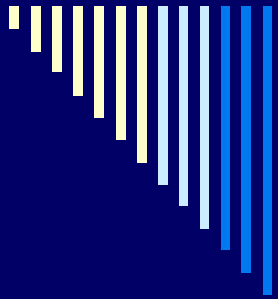
Innovation Nation

Unlocking talent



„Europe and its citizens should realise that their way of life is under threat but also that **the path to prosperity through research and innovation is open** if large scale action is taken now by their leaders before it is too late.“

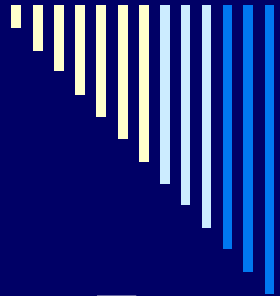
(Creating an Innovative Europe – Esko Aho report, ES, 2006)



We want to create an **Innovation Nation** because Britain can only prosper in a globalised economy if we **unlock the talents** of all of our people.

We aim to build an Innovation Nation in which **innovation thrives at all levels** – individuals, communities and regions.

(Innovation Nation – UK, 2008)



For the past 25 years, we have optimized our organizations for efficiency and quality.

Over the next quarter century, we must optimize our **entire society for innovation**

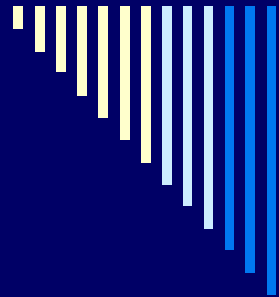
(Innovate America - USA, 2005)



**EUROPEAN
COMMISSION HAS
ANNOUNCED THE
YEAR 2009 AS A
YEAR OF
CREATIVITY AND
INNOVATION**

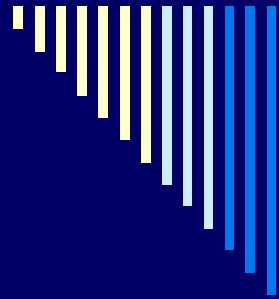
**Esko Aho, speech on the Opening
Conference of the European year
of Creativity and Innovation,
Prague, January 7, 2009**





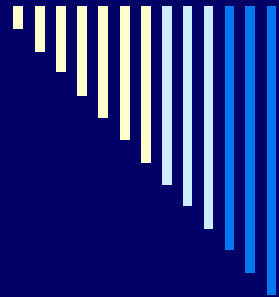
THE MAIN STATEMENTS – BASICS FOR INNOVATION POLICY – 1/3 *Esko Aho, 2009*

- creativity and innovation are the key elements of **the future of Europe**
- the **crisis** is simultaneously a great opportunity to make reforms necessary for **the future of Europe**
- **education is a key factor** for creation of the knowledge-driven society in Europe; our education system is still tailored for **industrial society** and it is important to reform radically our education system so that it can meet the requirements of **knowledge-driven society**



THE MAIN STATEMENTS – BASICS FOR INNOVATION POLICY – 2/3 *Esko Aho, 2009*

- cutting R&D&I spending in today's economic situation is like **eating seed potatoes**
- we need more **collaboration** and more partnerships between academia-business –government (triple helix) **on local and international level**
- **innovation includes always a risk** – doing things in a different way includes always a risk



THE MAIN STATEMENTS – BASICS FOR INNOVATION POLICY – 3/3 *Esko Aho, 2009*

- we have to understand that **innovation requires certain freedom of action** and certain flexibility; **bureaucratic obstacles should be removed**
- one of my **favorite interpretations** what is a real essence of innovation is the story I heard from Sweden VINNOVA president used that phrase, he said that there is one major difference between R&D spending and innovation: **R&D spending is actually transforming money to knowledge and innovation is transforming knowledge to money, but not only money but well being and good human life as well.**

RESEARCH

Knowledge

Global knowledge flow

Research

Commercialization of knowledge

Science

Entrepreneurship

Education

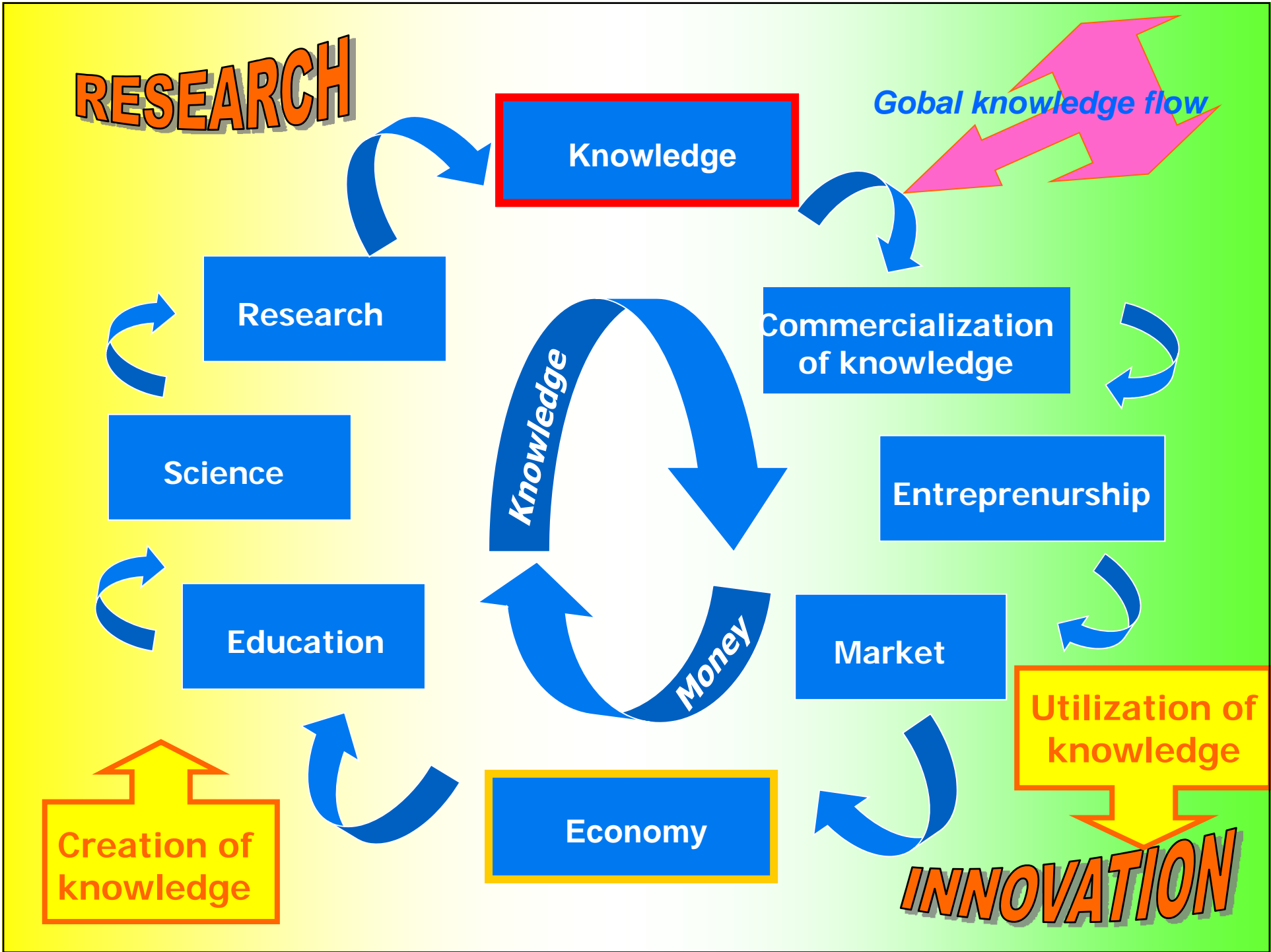
Market

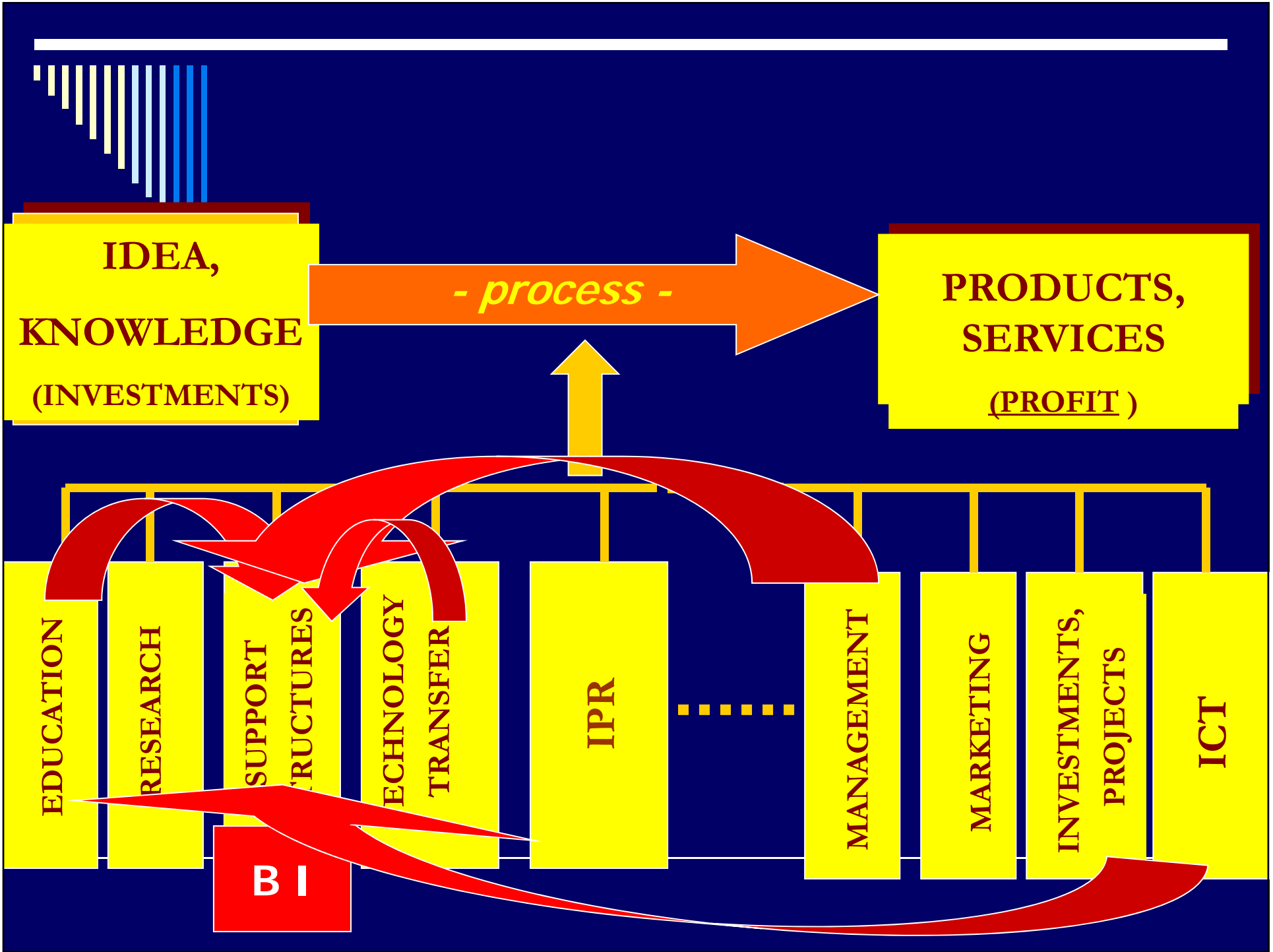
Utilization of knowledge

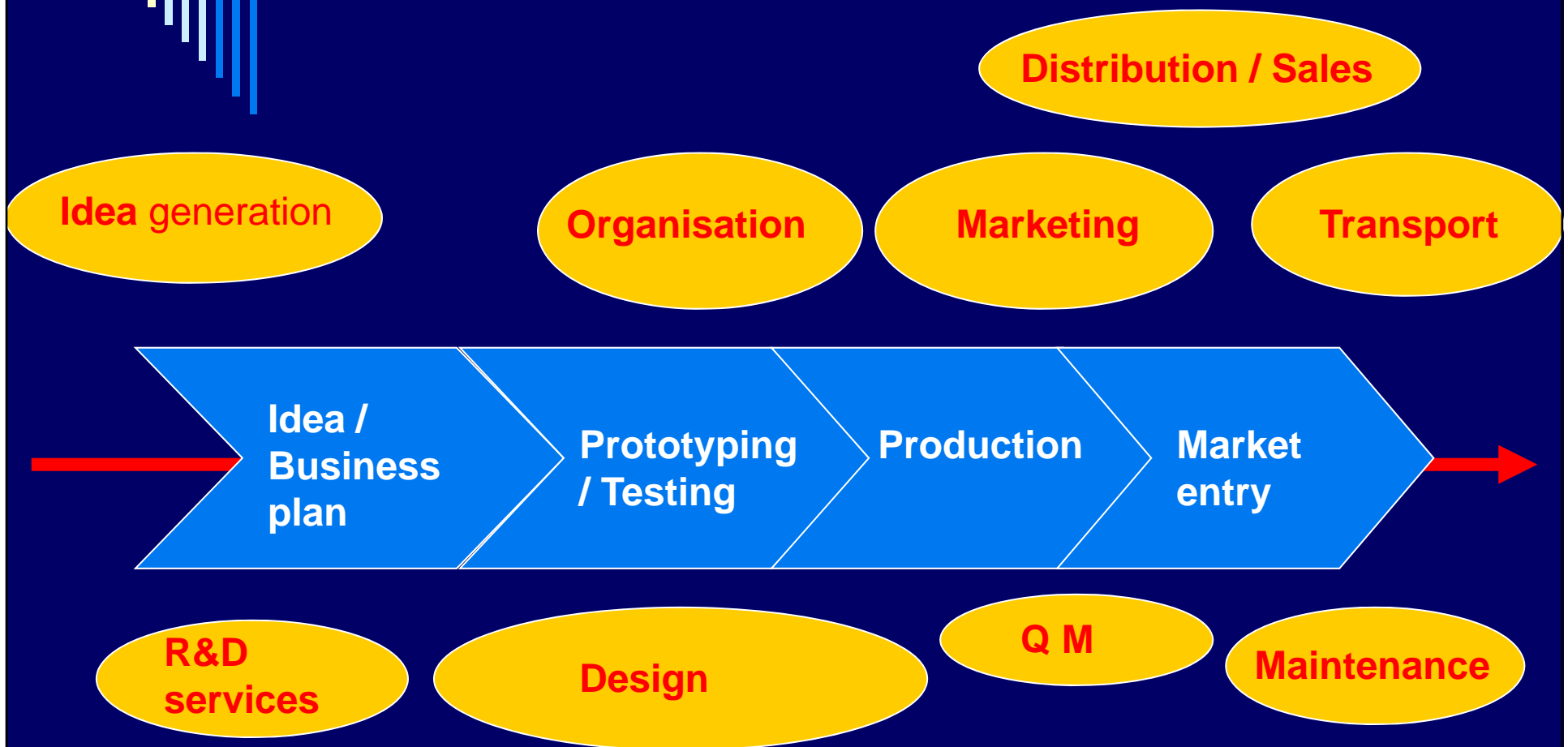
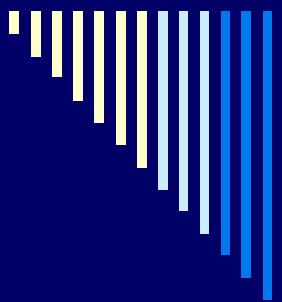
Creation of knowledge

Economy

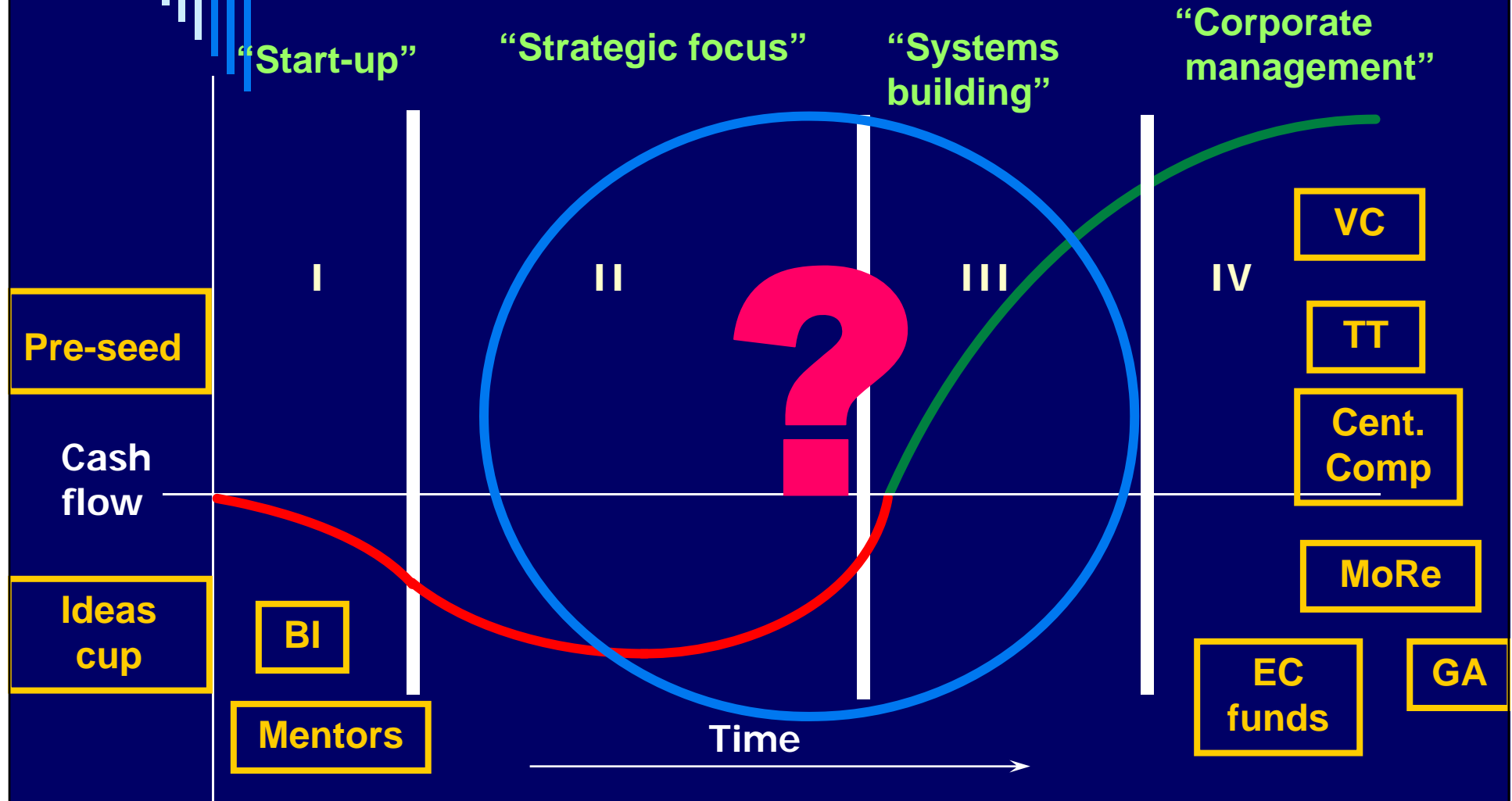
INNOVATION



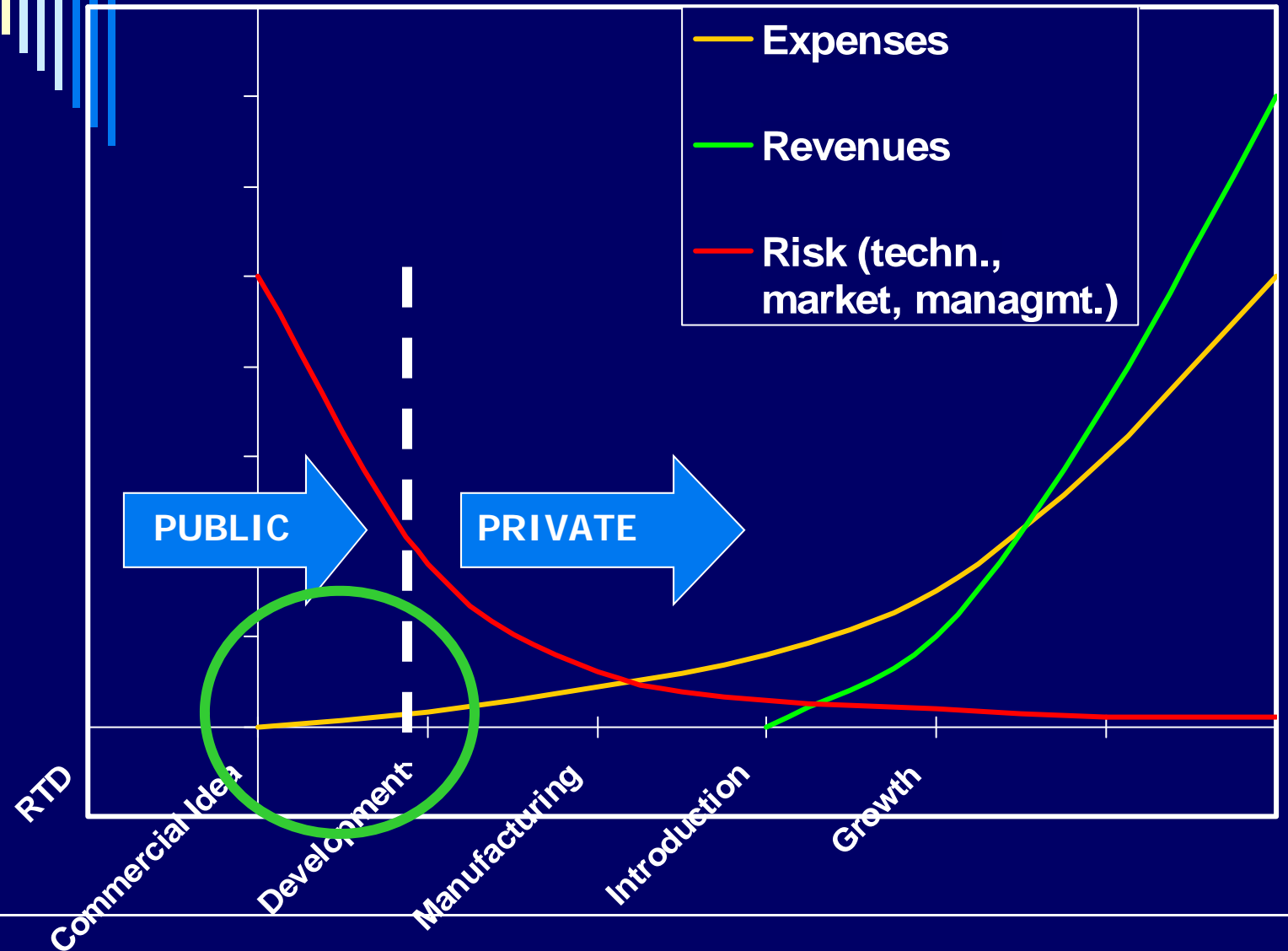
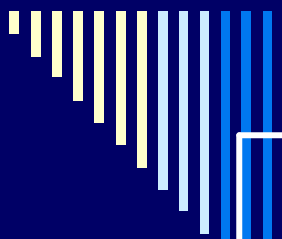




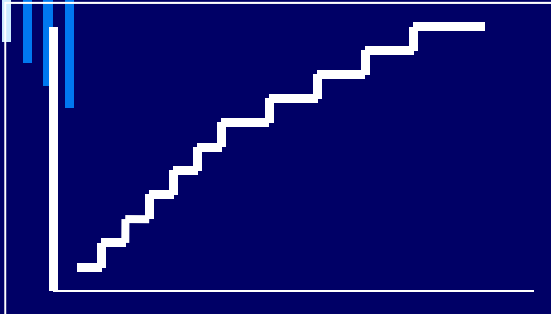
4 Development Stages



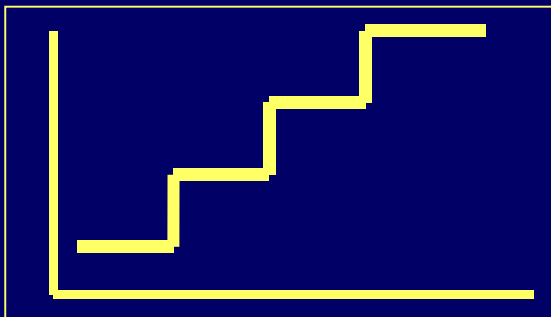
Source: Presentation on the IASP Conference by Prof. Jerome S. Engel, University of California at Berkeley, Lester Center for Entrepreneurship and Innovation



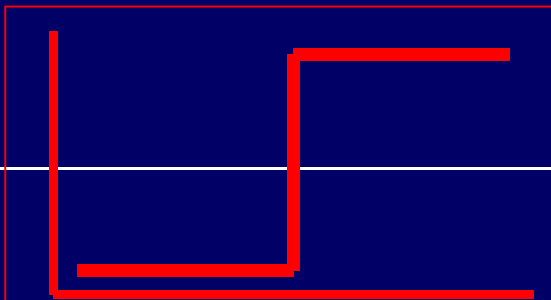
DYNAMICS OF INNOVATION



1 – *Incremental innovation* (*improvement of products in small steps – 3-5 innovations per year; typical development of SMEs*)



2 – *progressive innovation* (*development in larger steps - 1-2 years; considerable improvement of products, e.g., fuel injection, air bags, CD, e-banking, etc.*)

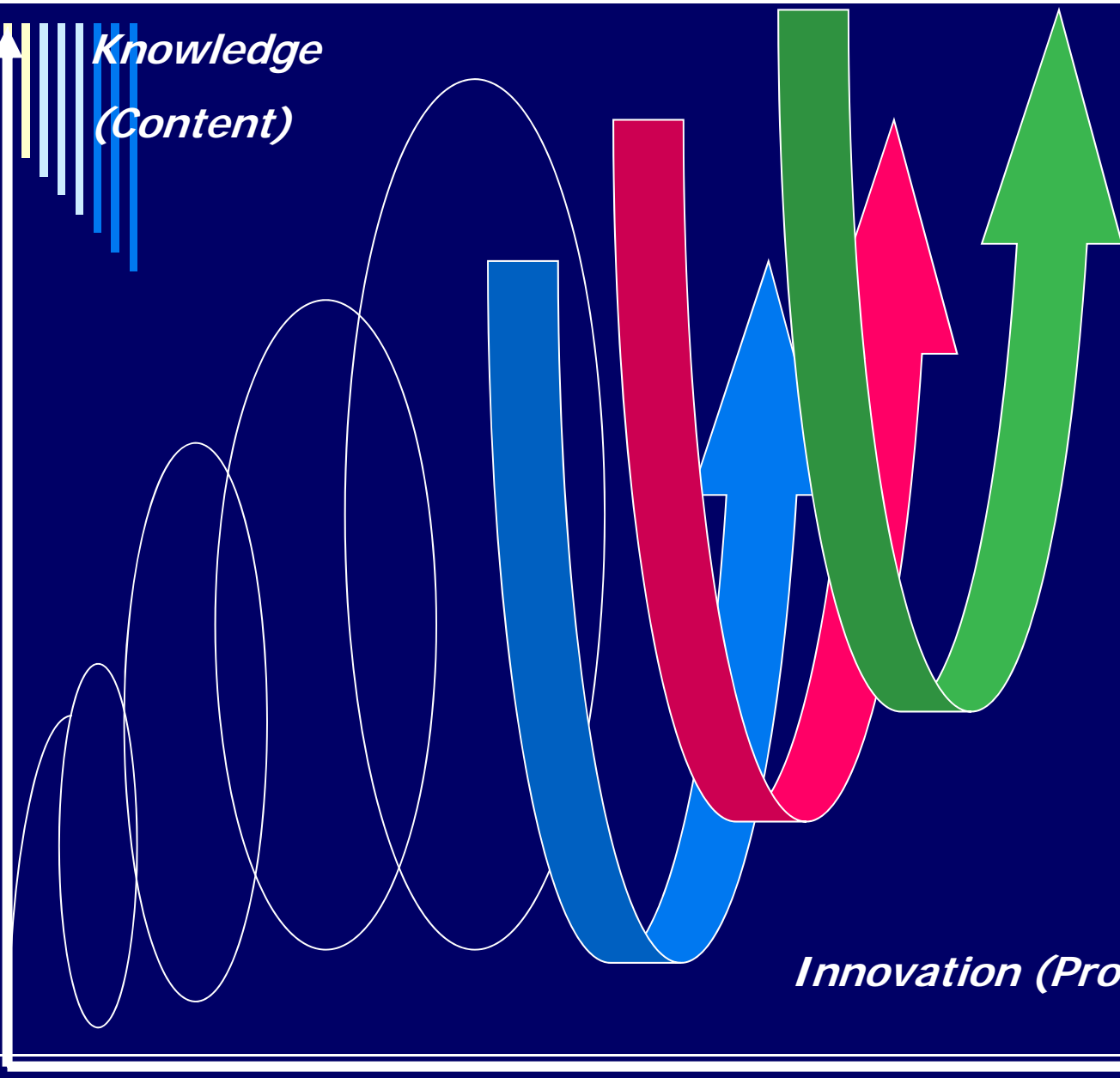


3 – *radical innovation* (*development in one through 5-10 years, new product is created, e.g., transistor, microprocessor, internet, GPS, new vaccines – penicillin, etc.*)

*Knowledge
(Content)*

**TRIPLE HELIX
MODEL
(Public-
Private-
Academia)**

Innovation (Process)



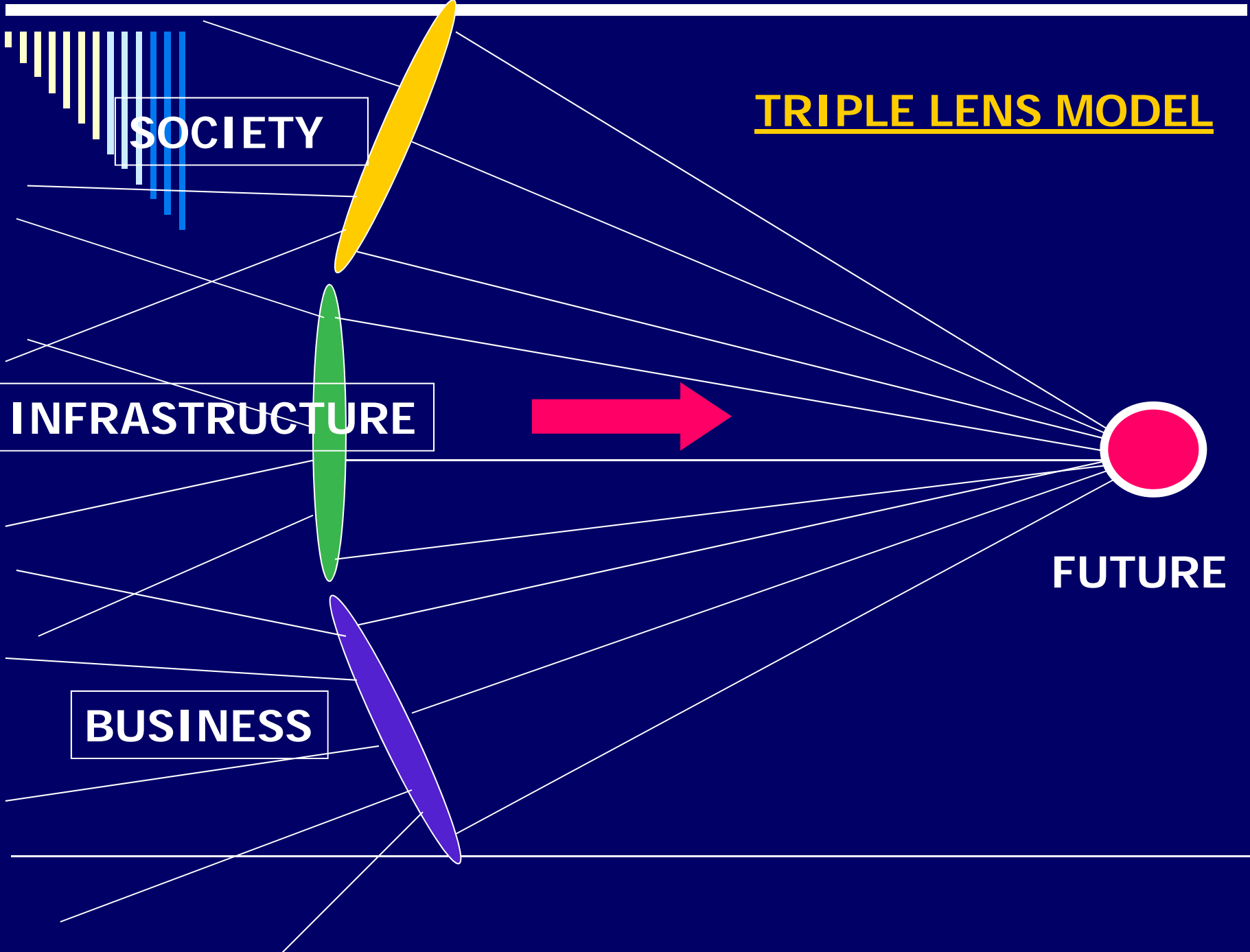
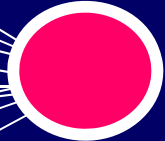
TRIPLE LENS MODEL

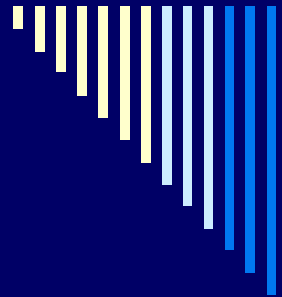
SOCIETY

INFRASTRUCTURE

BUSINESS

FUTURE





World Summit on Innovation – Dubai, UAE, 2008

**Innovation is not about technologies – it
is about people**

**Innovation is what differentiates a leader
from a follower**

I³ = intuition x intellect x innovation

*Baltic
Dynamics 2010*



LATVIAN TECHNOLOGICAL CENTER

invites you to participate and make contribution to the
15th Annual International Conference on Innovation "Baltic Dynamics 2010"

KNOWLEDGE FLOW IN INNOVATION SYSTEM: FROM IDEA TO ACTION

September 15 – 17, 2010
Reval Hotel Latvia, Riga, LATVIA

The following topics will be under discussion:

- Sustainable Development of Innovation System on National, Regional and Local level
- Education and Research as Components of Innovation System
- Technology Transfer as a Catalyst for Efficient Knowledge Flow from Knowledge Creators to Business
- Instruments to Support Added Value Production (Science/Technology Parks, Technology/Innovation Centres, Business Incubators, Technology Oriented Business Support Programmes, Science Communication, Financing Innovation, etc.)
- The Role of Cooperation (Associations, Networks, Clusters, etc.) in the Development of Innovation System

The Conference is supported by the Ministry of Economics of Republic of Latvia, Ministry of Education and Science of Republic of Latvia, Investment and Development Agency of Republic of Latvia, Municipality of Riga, International Association of Science Parks (IASP), European Business and Innovation Centre Network (EBN), International Science Park and Innovation Center Expert Group (SPICE), Baltic Association of Science/Technology Parks and Innovation Centers (BASTIC), Latvian Association of Technology Parks, Centers and Business Incubators (LTICA).



Ministry
of Education and Science
Republic of Latvia



Ministry
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More information on <http://www.balticdynamics.com>

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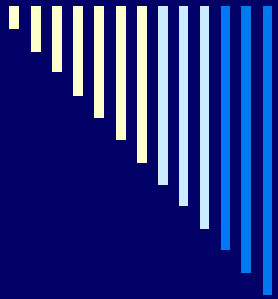
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The world is moving to a new rhythm. To be at the forefront of this new world, Europe needs **to become more creative and innovative.**

To be creative means to imagine something that did not exist before and to look for new solutions and forms.

To be **innovative** means to introduce change in society and **in the economy.**



The need for change is urgent. Europe and its Member States must give **full attention to creativity and innovation** now in order to find a way out of the current stalemate

Manifesto. European Ambassadors for Creativity and Innovation, 2009