



MODEL FOR SUCCESSFUL COOPERATION BETWEEN THE MINISTRY OF ECONOMY, ACADEMIA AND BUSINESS

(DEVELOPING INNOVATION STRATEGY FOR SMART SPECIALIZATION OF BULGARIA 2014-2020)

Thessaloniki, 20 march 2015



Strategic documents

National Development Programme: Bulgaria 2020

Priority: Support for the development of highly productive industrial base and modern innovative infrastructure, stimulating innovation activities and research

Top priorities for science:

- Using science and innovation to modernize business
- Sustainable interaction "universities - business"
- Project financing and cooperation "business - science"
- High-tech parks and centers of excellence
- Joint research "NGOs - universities - enterprises"



What is the effective model?

Science

Business

?

Government



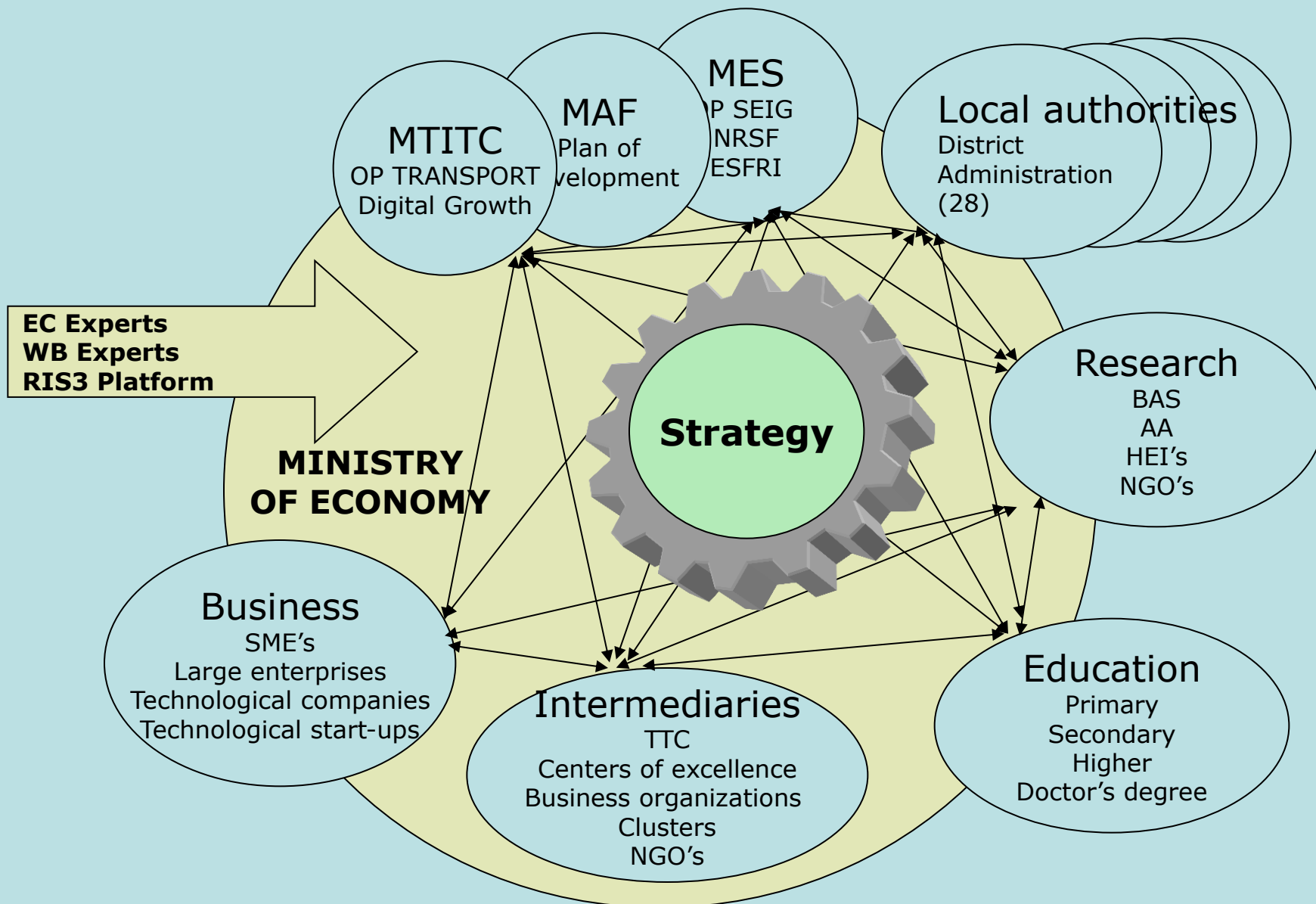
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Identification of stakeholders



THE STAKEHOLDERS





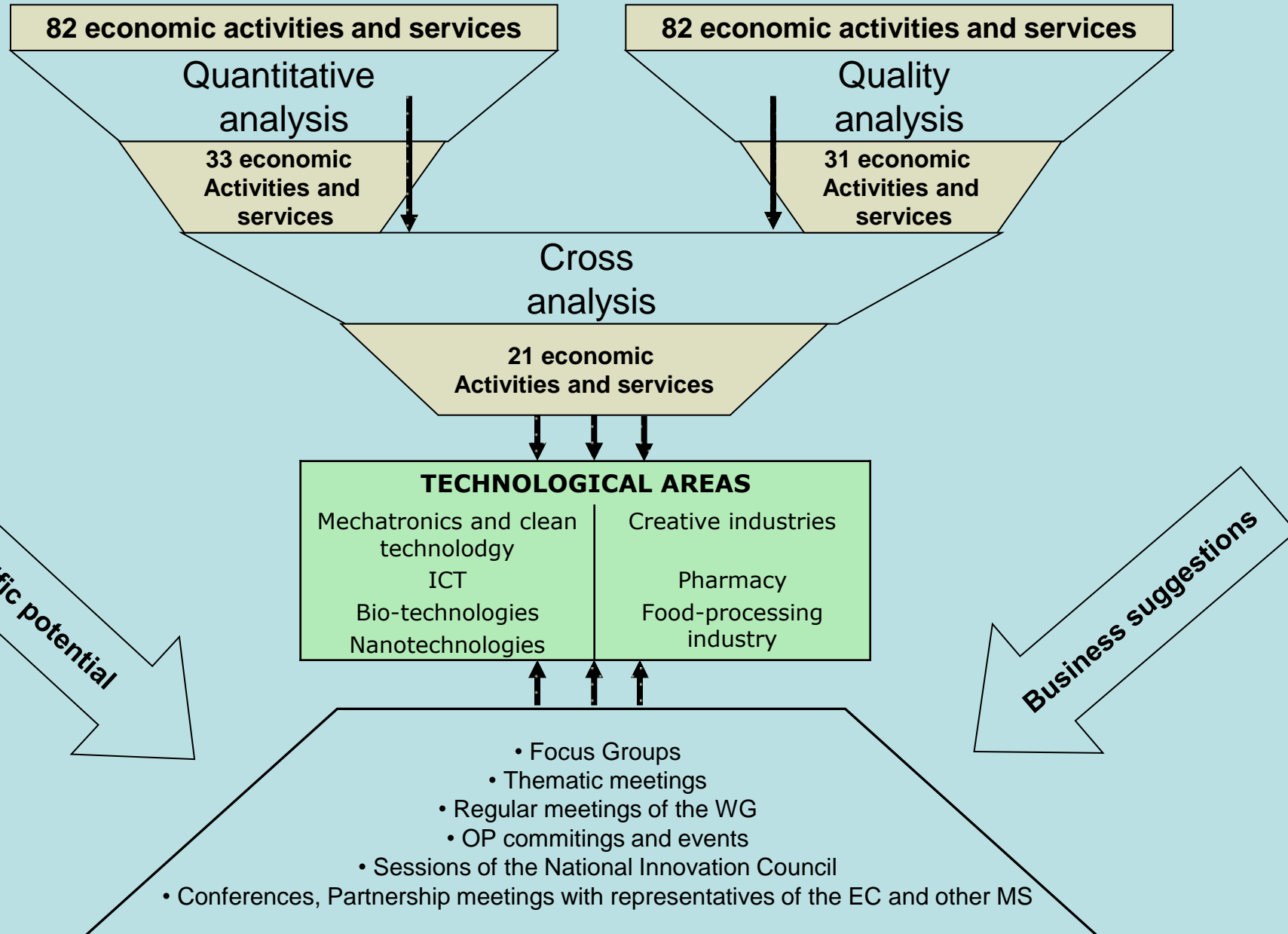
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2

Analysis of the available information ,
identification of technology
areas ,
discussion with stakeholders



Process of identification of technology areas





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3

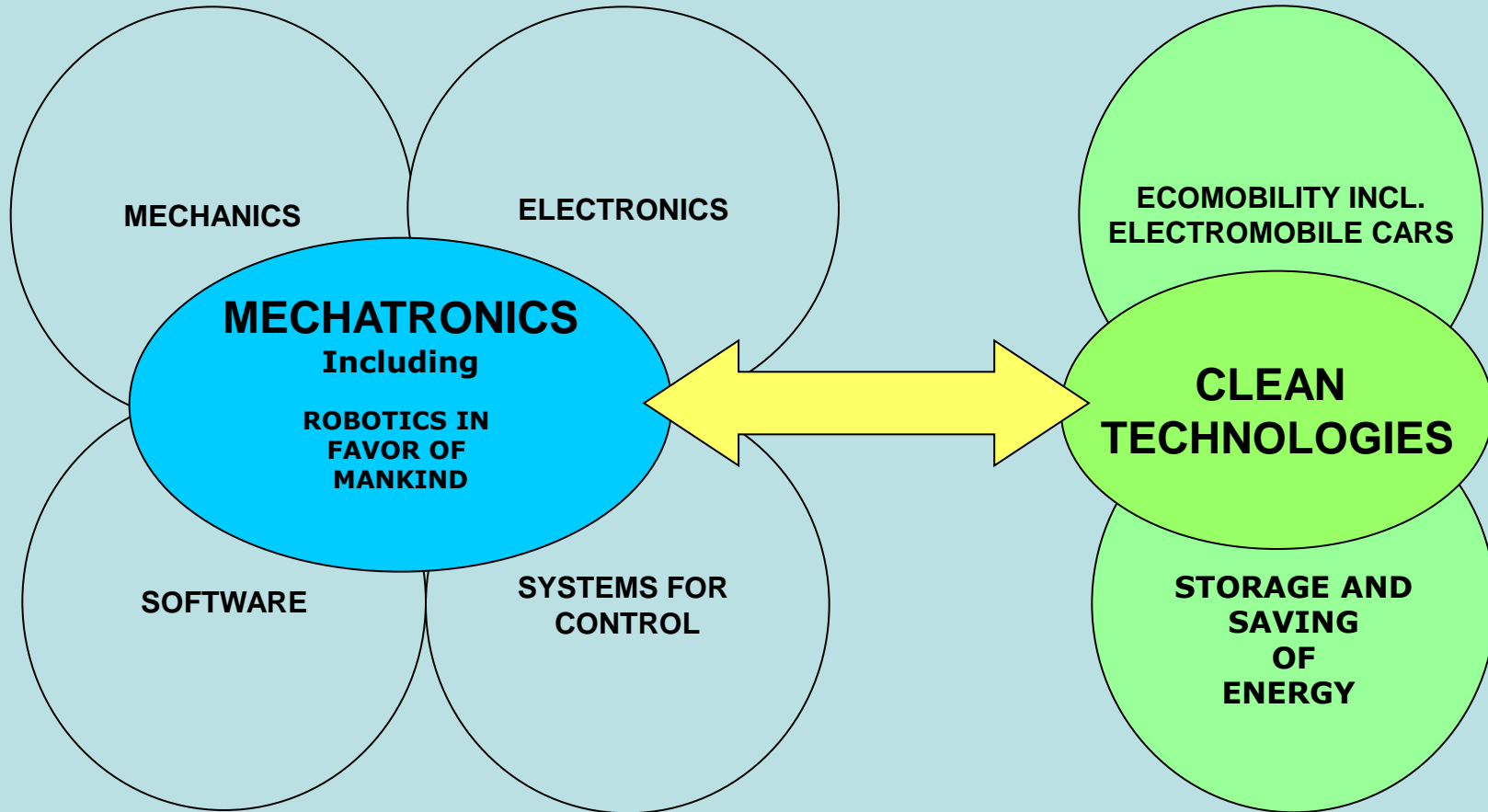
**Focusing of investments for
smart specialization in
thematic areas**



From technology to the thematic areas of smart specialization



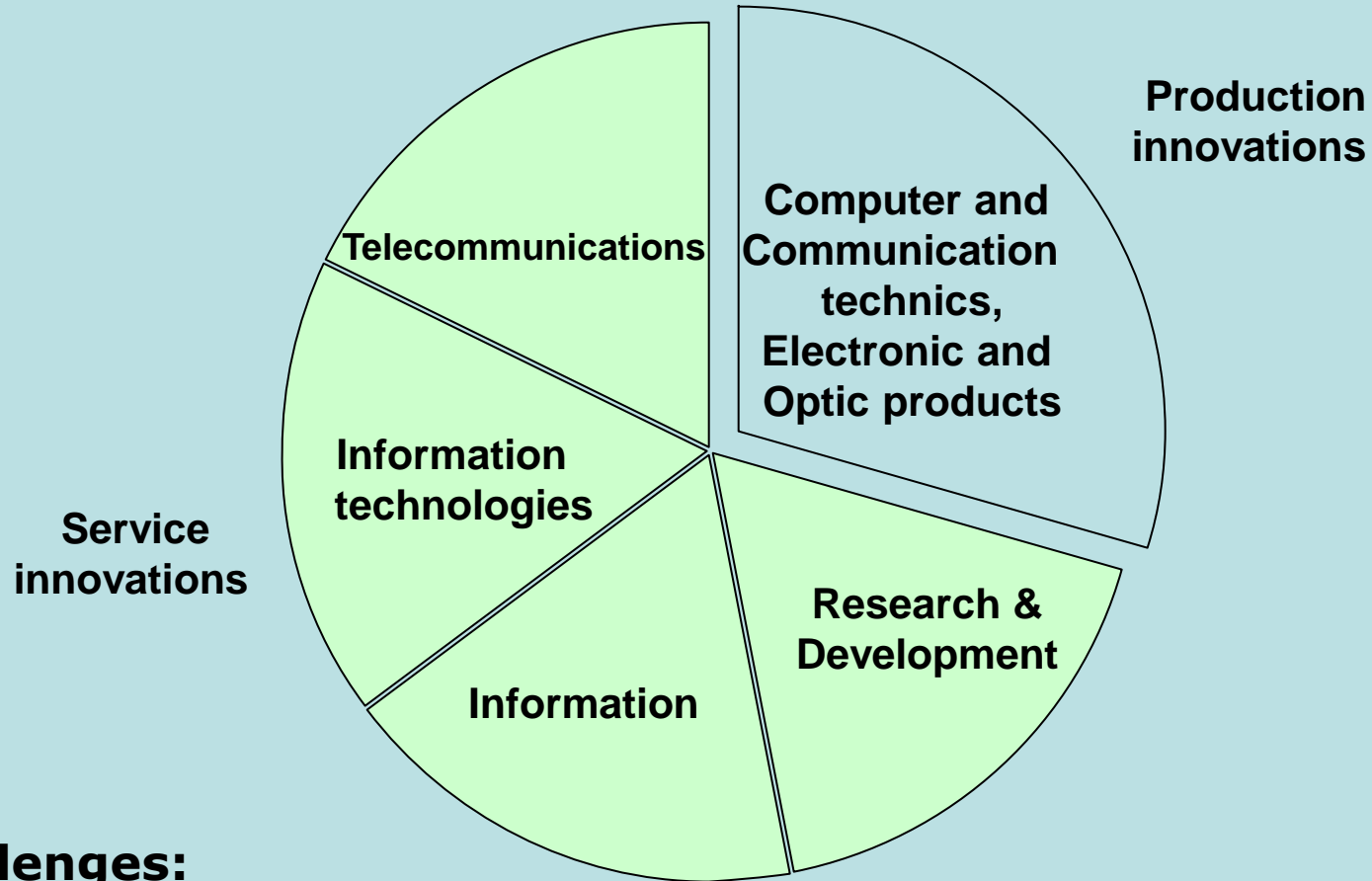
MECHATRONICS AND CLEAN TECHNOLOGIES



Challenges:

- Introduction of advanced technologies in production
- Study and search for new markets
- Increasing the efficiency of the overall activity of the companies

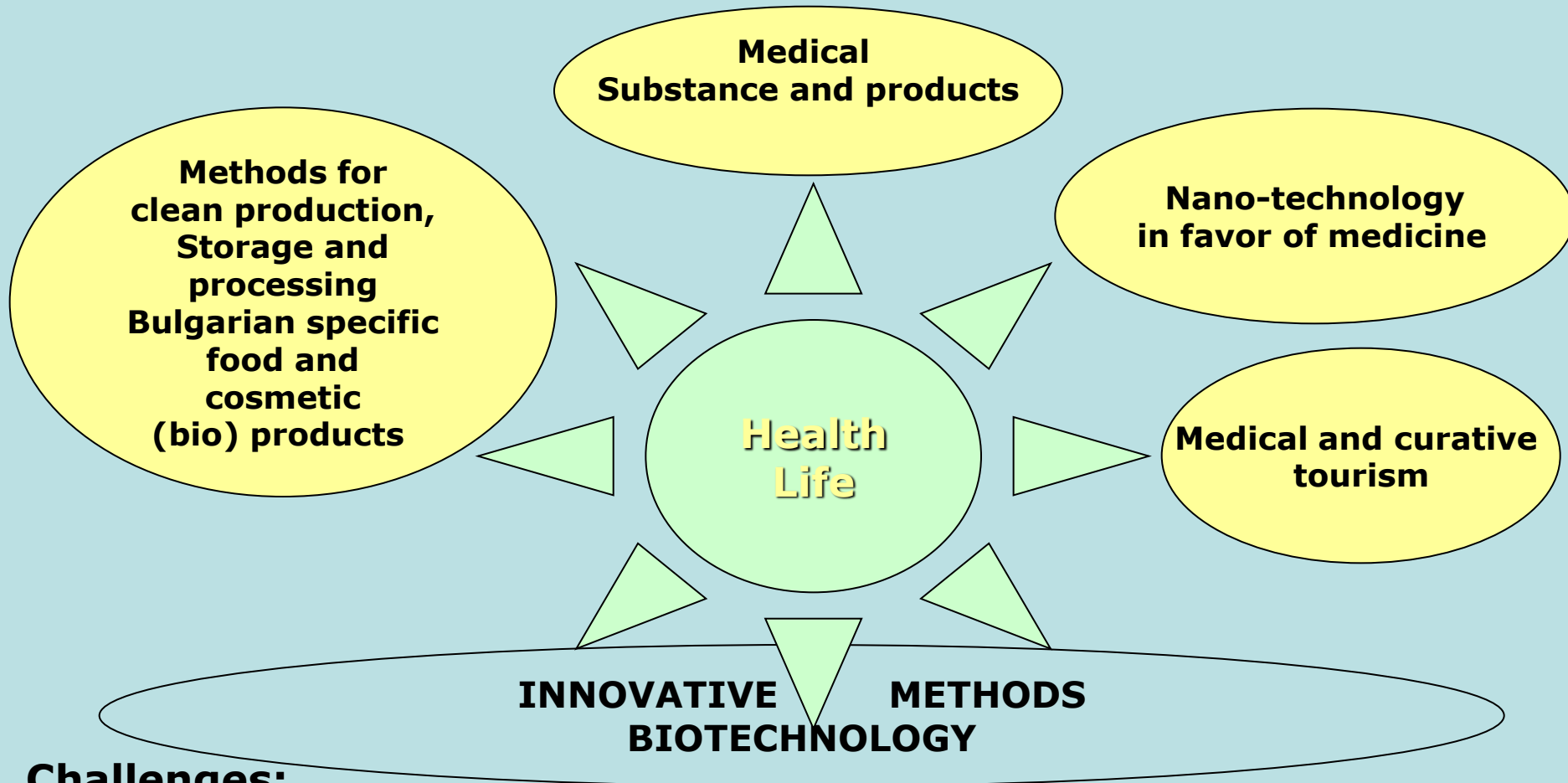
ICT AND INFORMATICS



Challenges:

- Insufficient entrepreneurial and management skills, particularly in SMEs.
- Especially favorable environment for foreign investment in the ICT sector
- Existence of "gray" (hidden) economy in the ICT sector

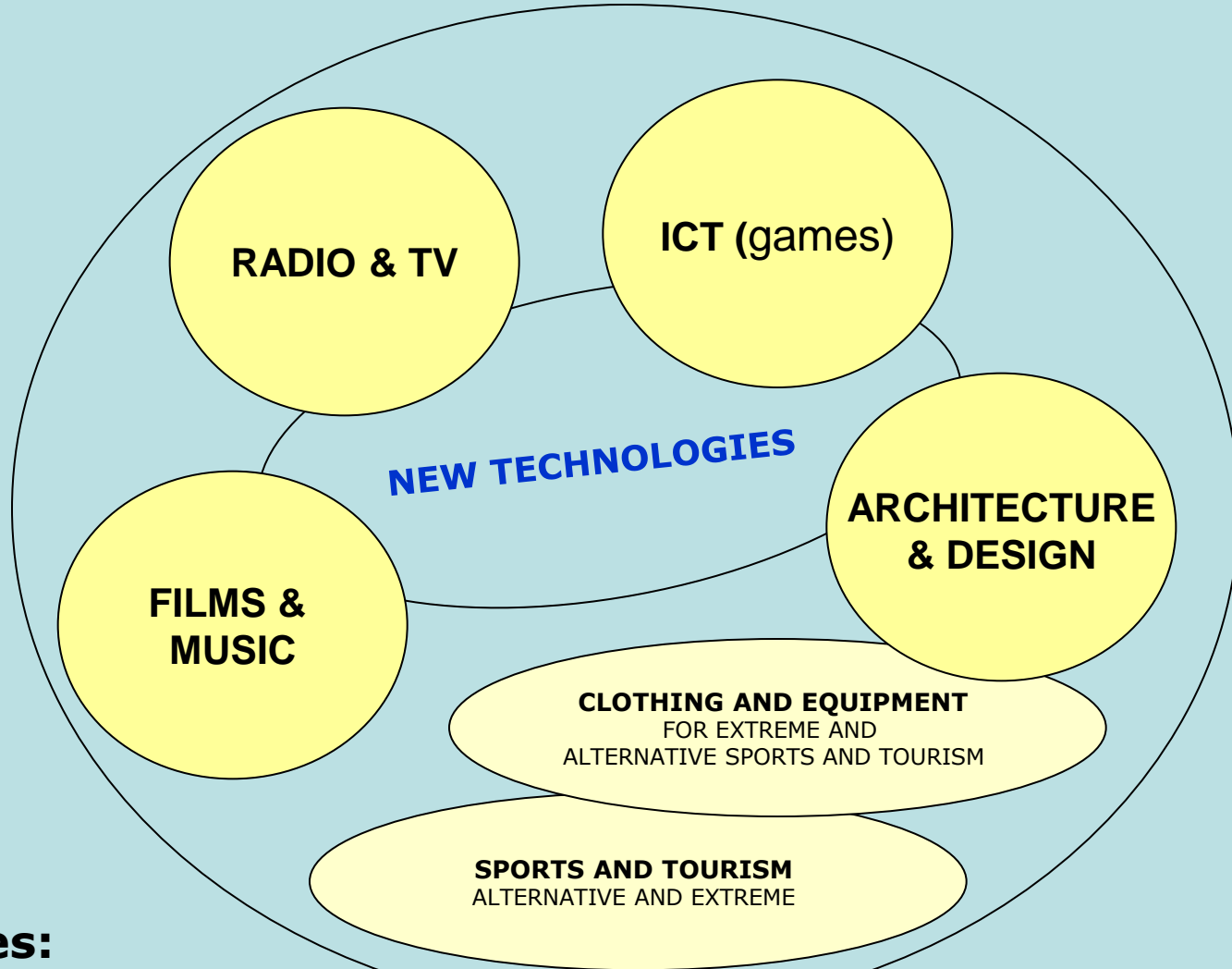
HEALTH LIFE AND BIOTECHNOLOGY INDUSTRIES



Challenges:

- Less final, combined and complex products
- Low degree of cooperation between enterprises in the sector
- Inadequate information on the status and trends in international markets

NEW TECHNOLOGIES IN CREATIVE AND RECREATIONAL INDUSTRIES



Challenges:

- Shortage of entrepreneurial and managerial skills
- Digitization of cultural and historical heritage for widespread
- International presence of leading companies in Bulgaria

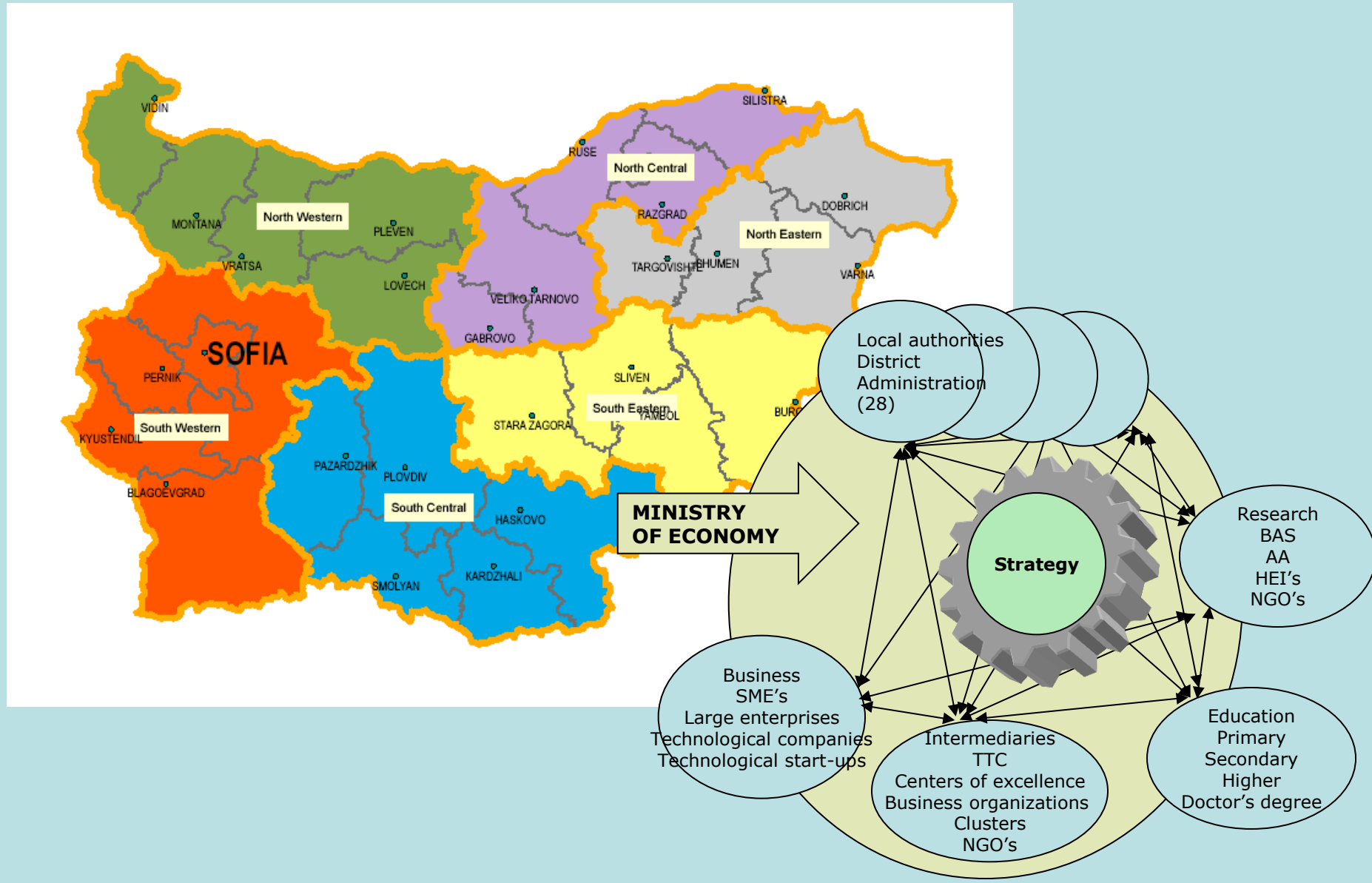


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4

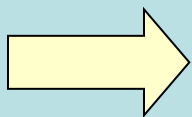
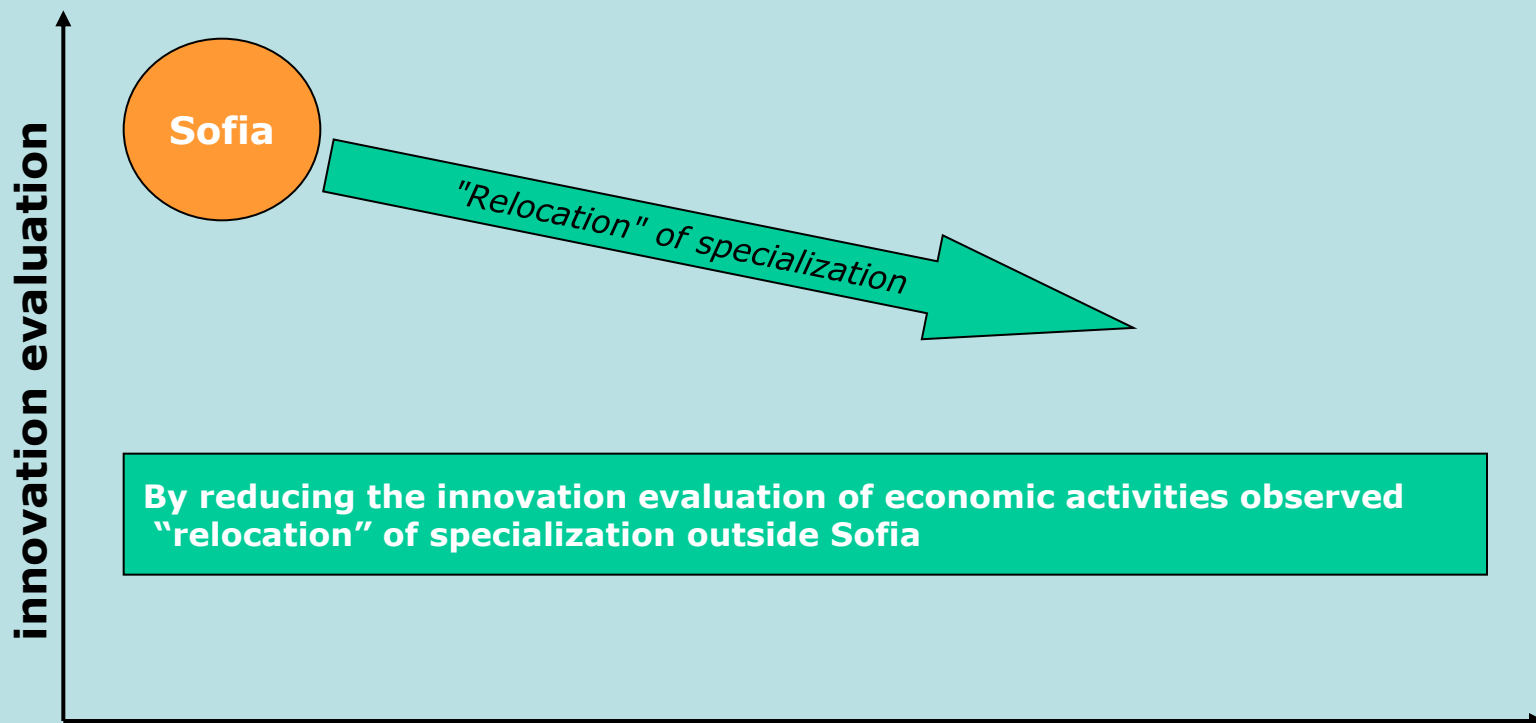
**Identification of stakeholders
and innovation capacities by
regions**

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Trend



Available capacity for regional specialization in leading innovative activities is primarily located on the diagonal Southwest Bulgaria - Central Bulgaria - Northeast Bulgaria

Regional capacity for specialization in the leading innovative activities

Southwest region (Sofia excluded)



South Central Region



leading innovative activities

1	R & D in the natural, medical, agricultural and engineering sciences
2	Software publishing
3	R & D in the field of social and humanities sciences
4	Satellite telecommunications activities
5	Production of medicinal products
6	Activities in the field of information technology
7	Wireless telecommunications activities road
8	Activities of news agencies
9	Creation and broadcasting of radio programs
10	Creation and broadcasting of television programs
11	Manufacture of pesticides and other agrochemicals
12	Manufacture of radio, television and communication equipment
13	Manufacture of computers
14	Manufacture of instruments and appliances for measuring, testing and navigation, watches
15	Architectural and engineering activities



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Financial Framework



Financial simulation model

(expenses necessary to achieve the national target)

Input parameters of the simulation model					Achieving the national target under these assumptions	
Expected average annual growth rates of R & D expenditure during the programming period 2014-2020 r. (%)						
		Growth (%)	Period		1.5%	
	State	15	2014	2020		
	Higher Education	16	2014	2020		
	European funds - 1.2 billion. Euro	10	2014	2020		
	R & D expenditure of enterprises	16	2014	2020		
	Non-profit organizations	10	2014	2020		
Summary results, including					Thousand levs	Thousand euro
Necessary expenditures in 2014-2020, to reach the target of 1.5% of GDP in 2020, including					8 841 850	4 520 766
	Public expenditure, including				4 795 435	2 451 867
	State				1 895 812	969 314
	Higher Education				527 830	269 875
	European funds				2 371 793	1 212 678
	Private expenditure, including				4 046 415	2 068 899
	Non-profit organizations				73 500	37 580

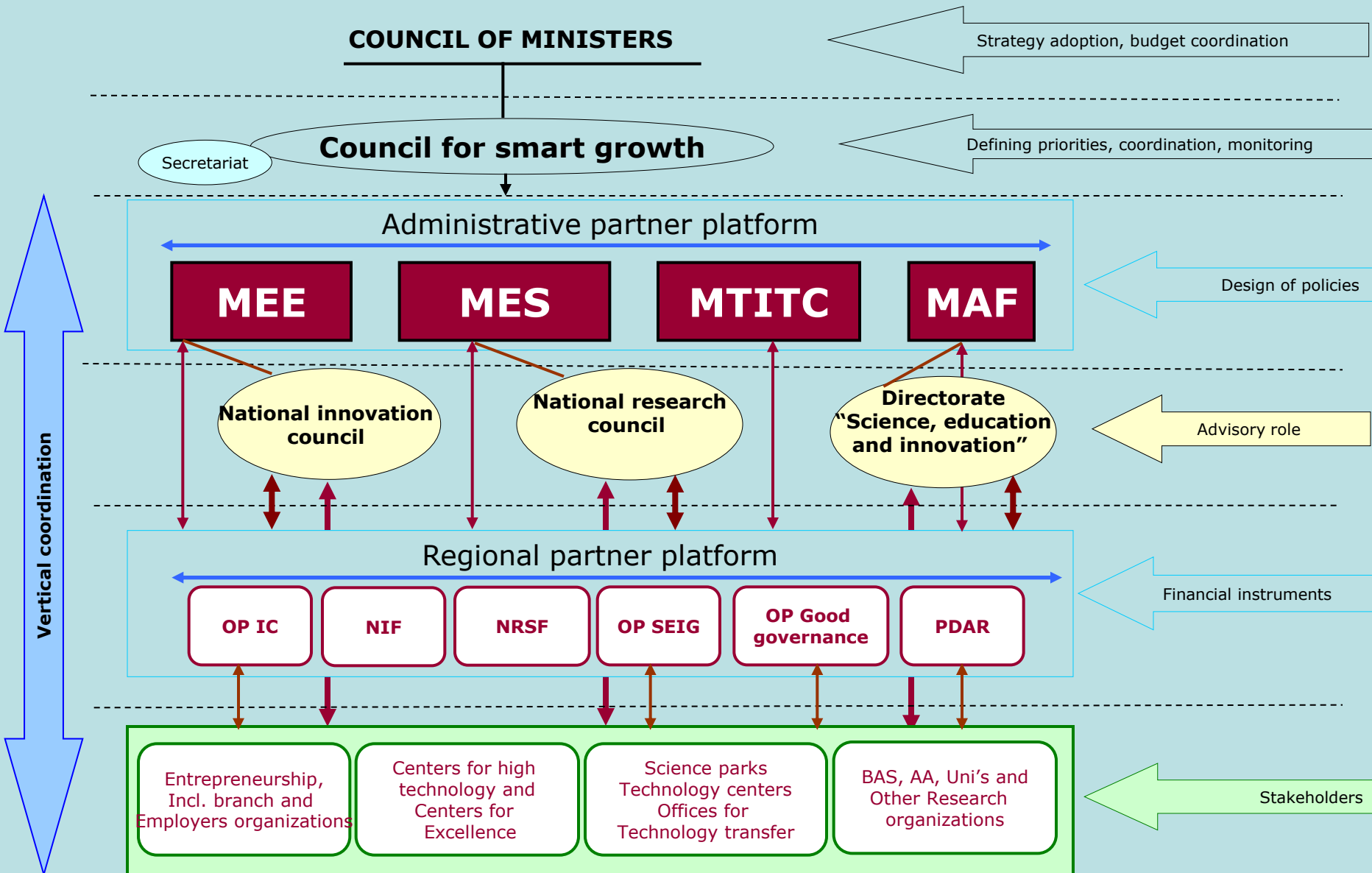


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6

System Management of the Strategy

Governance of the Innovation strategy for smart specialization



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**Model of
entrepreneurial
discovery**

Thank you!

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