INTELLECTUAL POTENTIAL AND CREATIVE ENVIRONMENT OF SUSTAINABLE INNOVATIVE DEVELOPMENT

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Nowadays innovative activities in the conditions of so called knowledge economy can be distinguished from those held during early industrial era. Innovative development today is the result of cooperation of brilliant creative individuals with each-other or their groups with different organisations and institutions involved in this collective innovation process of social capital application [1] mostly within its intellectual aspect. As a result, a permanent flow of recently appeared knowledge and information becomes naturally crucial factor for innovatively targeted development in the knowledge economy. In everyday working life it means mutual exchange of professionals and intellectually creative people among innumerable innovation processes. It may be pointed out in accordance with many scholars that big cities and large scale diversified companies of research institutions may play a special role as knowledge, intellectual and innovation nodes. So intellectual potential of business, administrative or regional socio-economic-environmental systems becomes a factor to be included into strategic decision making in the conditions of knowledge economy.

The modern environment of business activities as the main field for innovative development is characterised by:

- Rapidly changing technological conditions of market competition.
- Growing awareness and sophistication of customers.
- Shift of competition towards secondary and tertiary values of products (e.g. service activities before and after purchasing the product).
 - Increasing dynamics and uncertainty of corporate decision making. [3]

Taking this into account, the separation of managerial knowledge used by top administrators to develop general strategy and technological knowledge used by middle level managers and executors to implement emerging innovations into working process within the frames of accepted strategies may be an example of a growing theoretical and paradigmatic gap between natural, life and social sciences and research. The managerial perspective must be also based on a deep understanding of technological processes. So the practical challenges between social sciences and technology in the knowledge civilisation age require just the opposite, an integration of these two managerial perspectives.

Each knowledge creation process depends critically on the intellectual heritage of humanity. The individual, group and heritage knowledge – elements of the social dimension of knowledge creation processes – can again be classified as rational, intuitive, and emotive. This three-by-three Creative Space [2] matrix we tried to fill with elements of socio-economic-environmental systems innovative development (see Table 1).

The concept of Creative Environments [3] is related to systems of tools that support creativity It includes both the informational technologies aspect and the social aspect, referring both to social interaction in knowledge creation (with the fundamental role of the intellectual heritage of humanity) and to the participation of future users of this knowledge system.

Applying mentioned tools for studying special elements included into this model we may more deeply investigate the role of intellectual potential in the economic-environmental system for its sustainable innovative development.

Table 1 – The Elements of Knowledge Creation Process in Socio-Ecolo-Economic Innovative Development

KNOWLEDGE	Dimensions		
Levels	Emotional	Intuitive	Rational
Individual	Personal socio-	Ideas and	Inclusion into
	economic-	inventions	everyday routine
	environmental	appearance,	with personal
	preferences, motives	implementation	adaptation r even
	and choices as a	or support	improvement
	result of real-life		
	experience		
Group	Commonly shared	Acceptance and	Current
	emotions, opinions	distribution of	strategies and
	regarding local	the most	tactics
	socio-economic-	attractive	formulation,
	environmental	responses to the	specification,
	situations and	socio-economic-	monitoring of
	motivations for	environmental	implementation
	being included into	issues with	process and
	common action	sharing of the	improvement for
		most valuable	further decision-
		and validated	making

		ideas of the time	
Heritage	Accumulation of	Level of	Accumulation of
	emotive and	commonly	large scale
	experience heritage	shared ideas and	factual patterns
	of different socio-	images before	and formulating
	economic-	their scientific	global
	environmental	rationalisation	development
	systems		priorities

References:

- 1. H. Westlund Social Capital in the Knowledge Economy: Theory and Empirics, Springer Verlag, Berlin, Heidelberg, 2006.
- 2. A. Wierzbicki, Y. Nakamori Creative Space: Models of Creative Processes for the Knowledge Civilisation Age, Springer Verlag, Berlin-Heidelberg., 2005.
- 3. A. Wierzbicki, Y. Nakamori Creative Environments: Issues of Creativity Support for the Knowledge Civilization Age. Studies in Computational Intelligence, Volume 59 Springer Verlag, Berlin-Heidelberg., 2007.