

**From Data to Wisdom**  
in the **Global and**  
**Civilizational Context**  
**The Cognitive Perspective**  
**Portugal CENTERIS-2010**

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# Purpose

- To define *information*, mainly in terms of **cognition units**, and also to reveal other perspectives and images of **wisdom**.
- Such as **Global** and **Civilizational** perspectives

# The Cognitive Perspective of Information

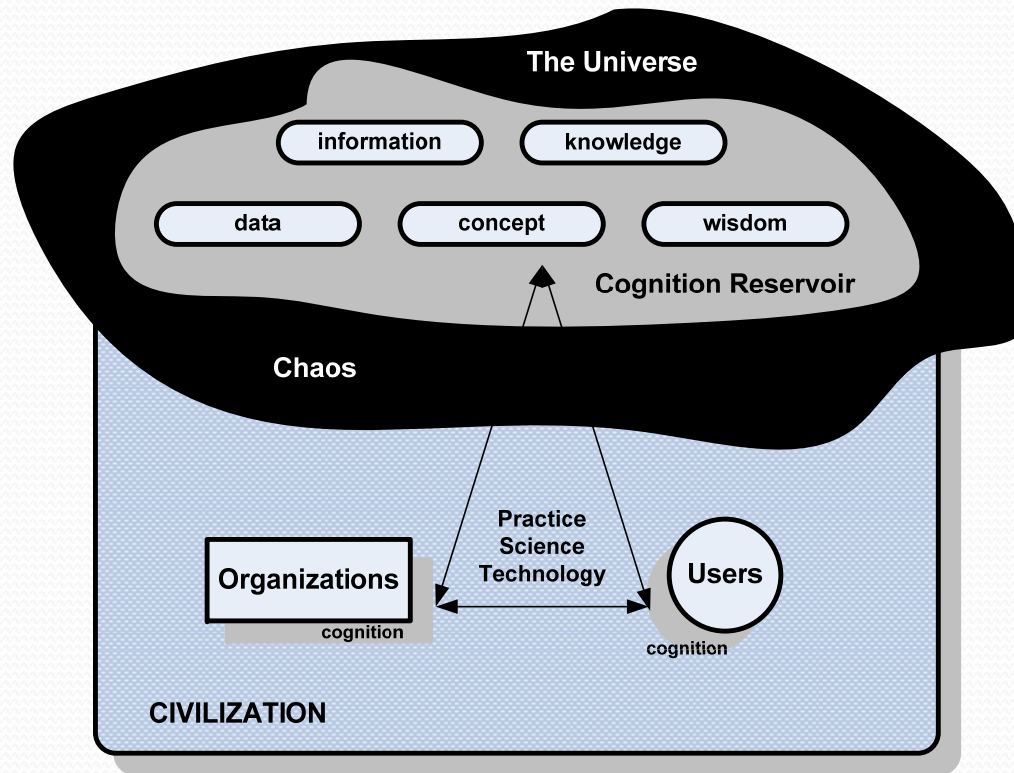


Fig. 1. The Cognition Reservoir of Civilization

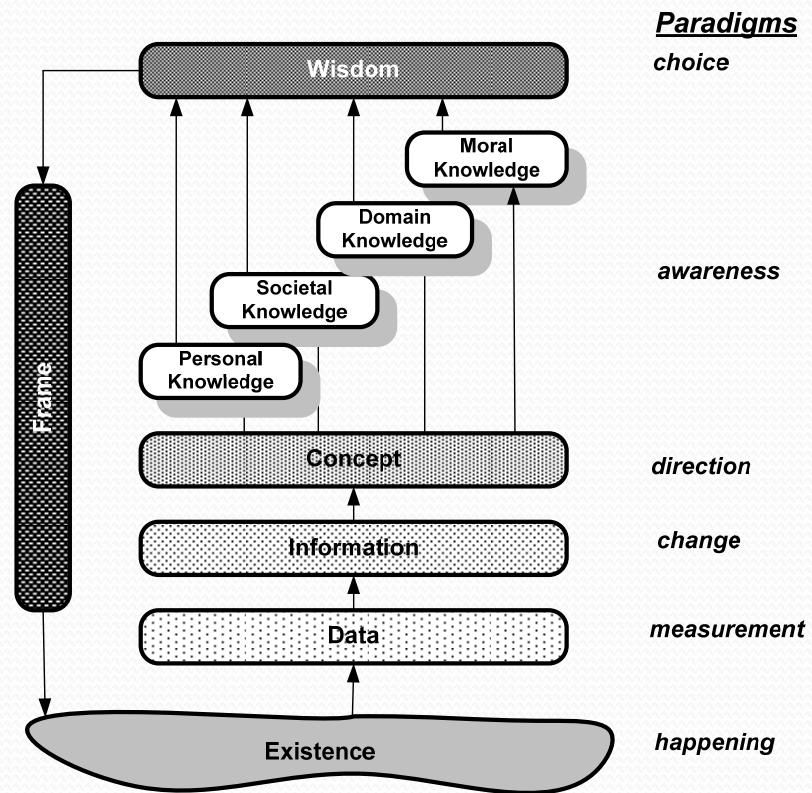


Fig. 2. The Semantic Ladder

# The Computer Perspective

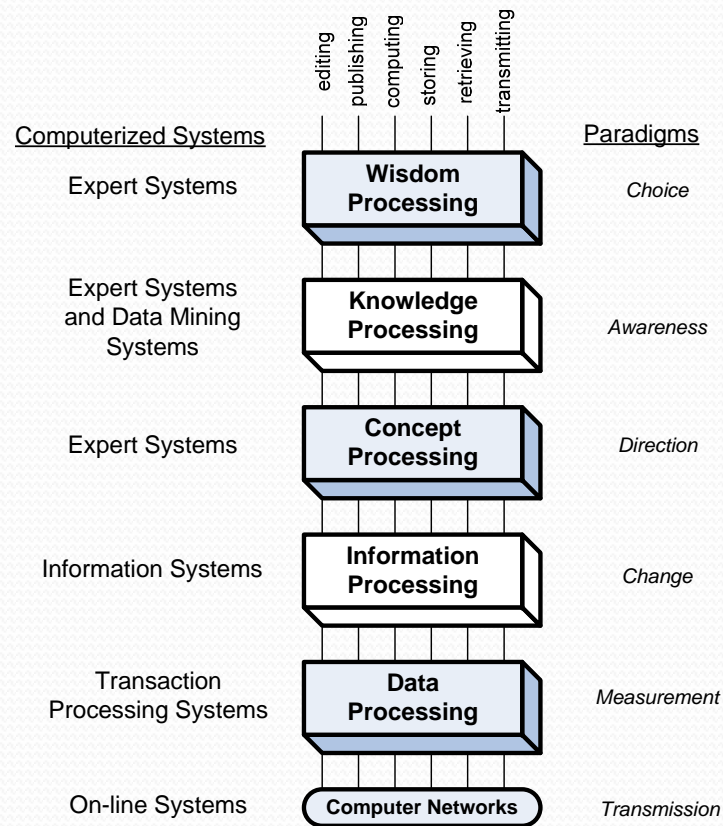


Fig. 3. The Hierarchy of Computer Cognition Systems

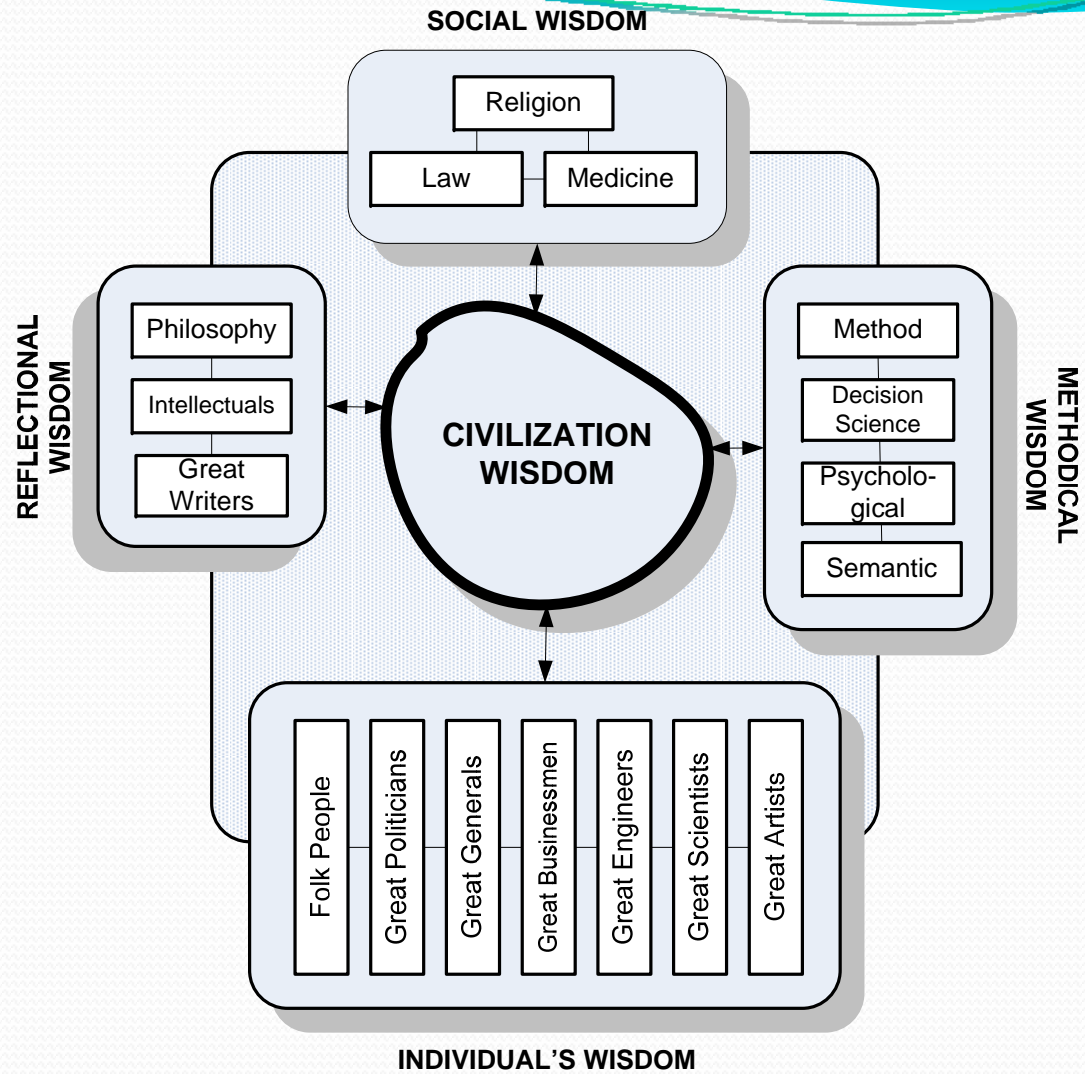


Figure 1-1 The Architecture of Civilization Wisdom

CRITERIA	WISDOM REFLECTED AS	MAIN SOURCE OF WISDOM	SUPPORTIVE SOURCE OF WISDOM	RESULT OF WISDOM	TIME FACTOR
<i>INDIVIDUAL'S WISDOM</i>					
Folk People	Conventional approach	Tacit knowledge	Life experience	Expected solutions	Contingency and pseudo-universal
Great Politicians	Strong conceptualization of ideas and will to implement it	Will and charisma	Sensitivity and conviction	Great and lasting policy and thoughts about next generations	Contingency and pseudo-universal
Great Generals	Deception and maneuvers through a big-picture conceptualization	Intelligence and charisma	Erudition and talent	Great and lasting victories	Contingency and pseudo-universal
Great Businessmen	Strong conceptualization of market and products and hard work through talented people	Desire	Intelligence, curiosity, and luck	Great and lasting business	Contingency
Great Engineers	Strong original conceptualization of solutions	Desire, fame, and responsibility	Intelligence, curiosity, and talent	Great and lasting solutions	Universal
Great Scientists	Original conceptualization of ideas and quest for truthful solutions	Strong curiosity and motivation	Intelligence, hard work, and luck	Great and lasting discoveries	Contingency and pseudo-universal
Great Artists	Genius and artistic knowledge	Strong dedication	Hard work and luck	Great and lasting art	Universal

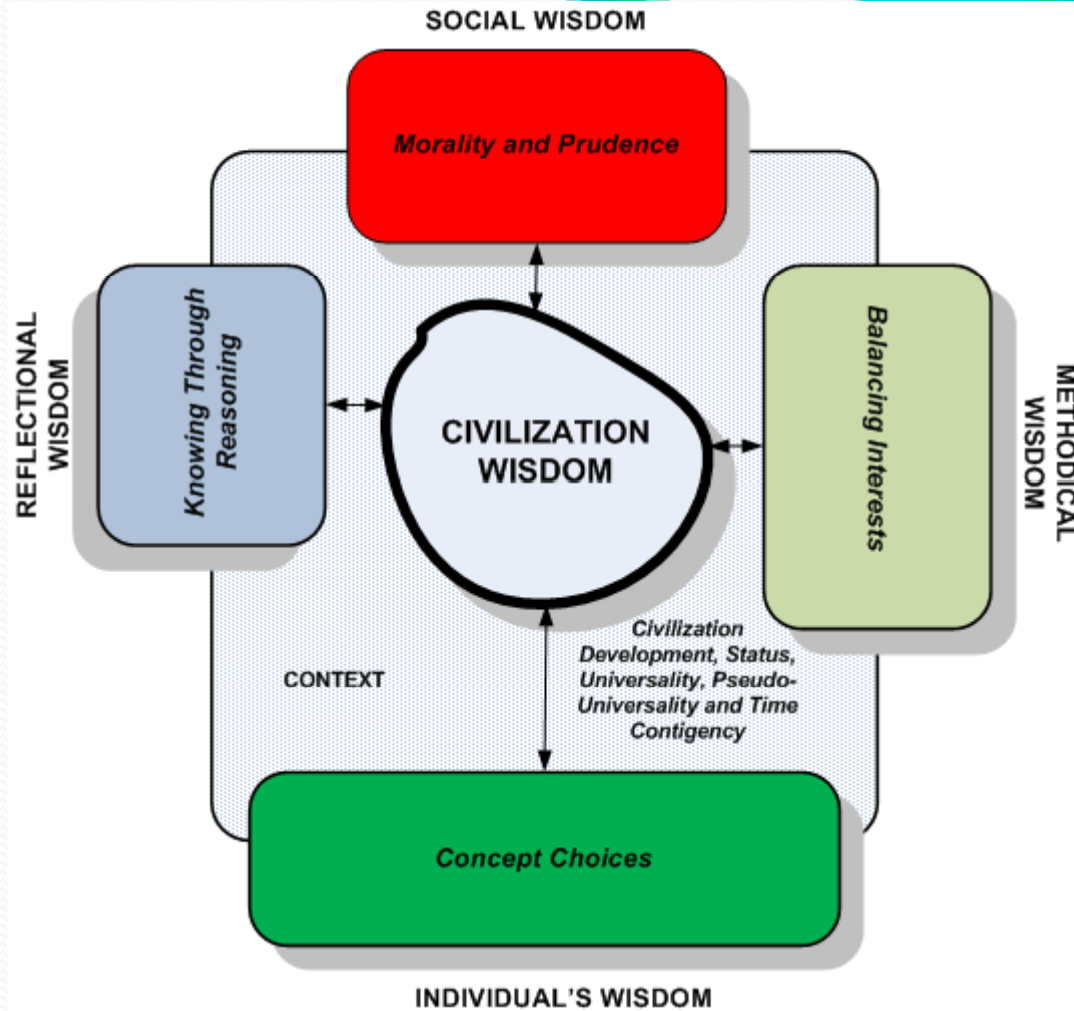


Figure 1-3 The Composition of Civilization Wisdom

# Information as Wisdom

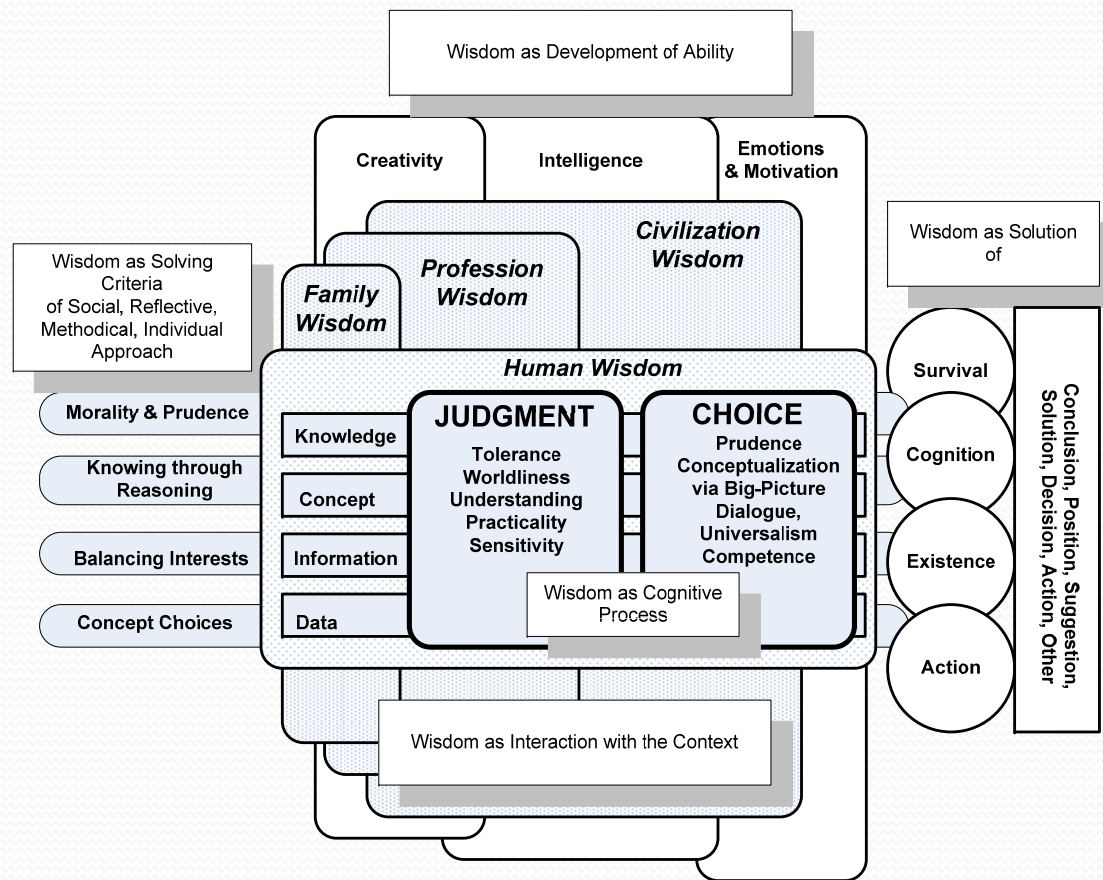


Fig.4. The Five Dimensional Model of Human Comprehensive Wisdom in the 21<sup>st</sup> Century

# Information as Wisdom in the **Global** Context

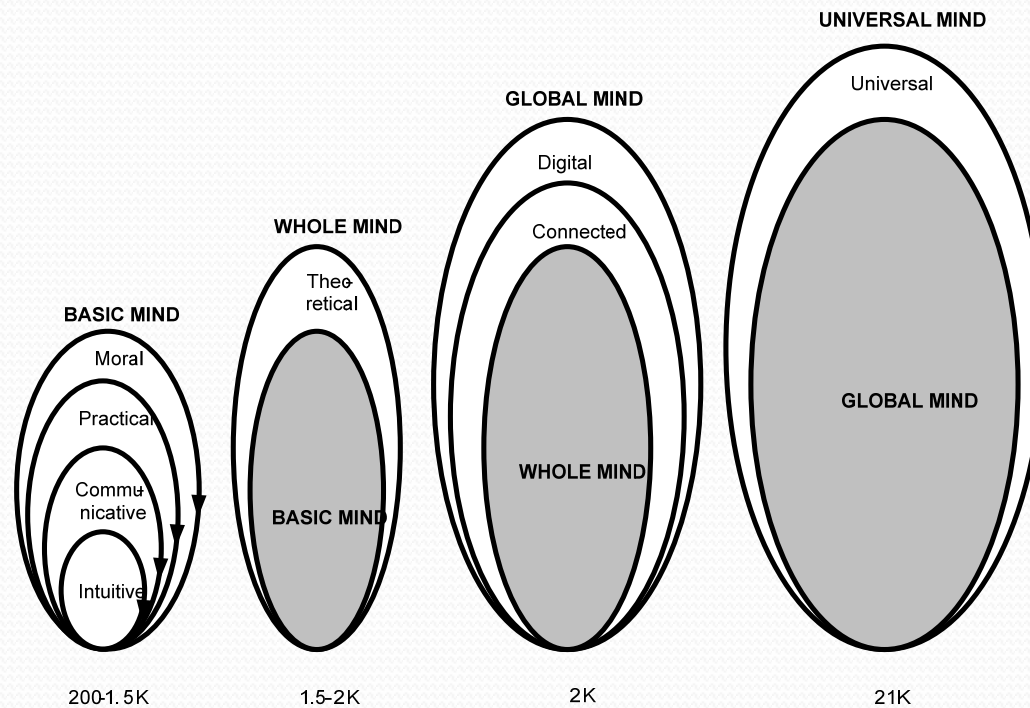


Fig. 5. The Evolution of Mind's Content

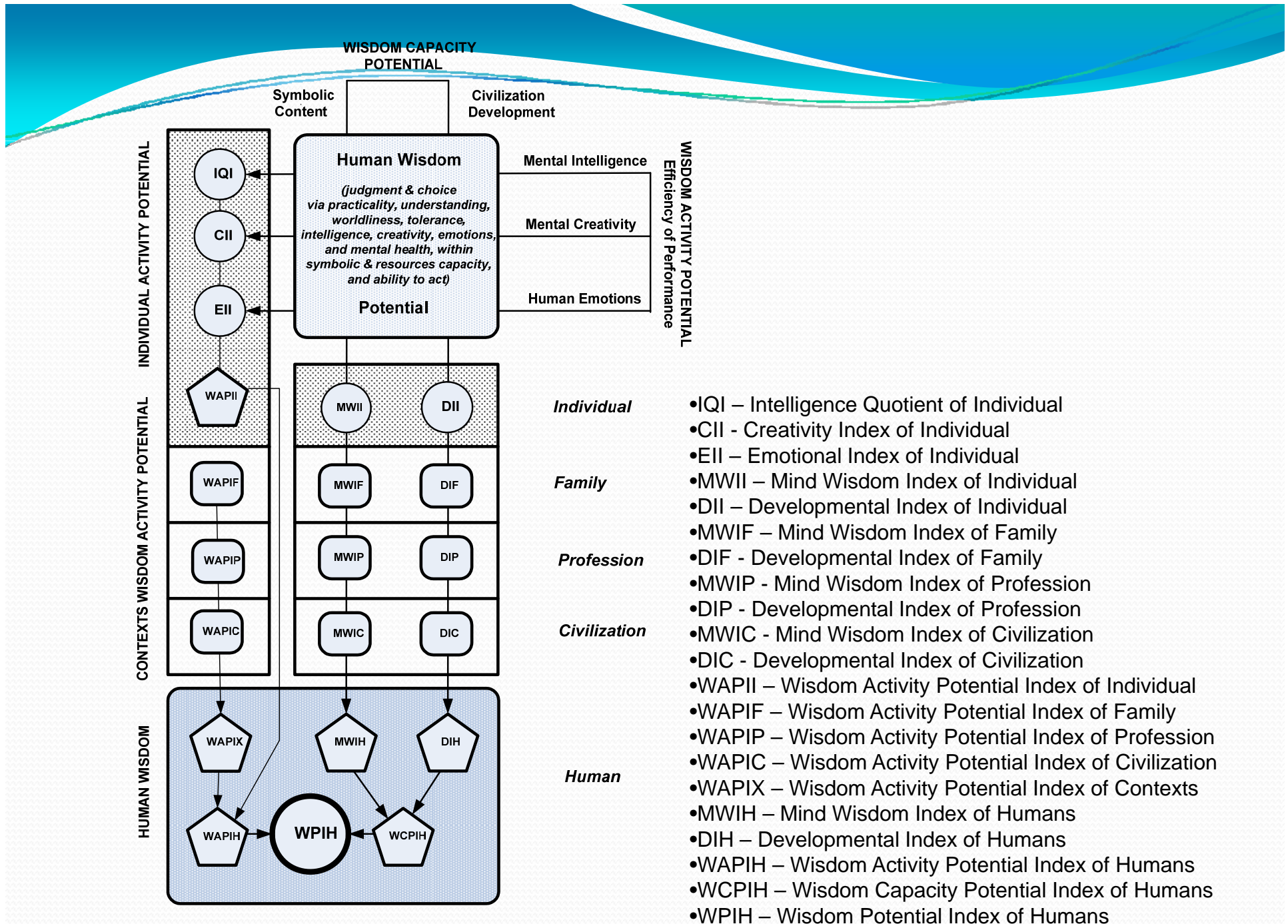


Figure 6-2 The Anatomy of Human Wisdom  
(acronyms are explained in the text)



# Wisdom

- *Human wisdom is a combination of individual, family, profession, and civilization wisdoms applying, according to the needs: BASIC, WHOLE, GLOBAL, and UNIVERSAL MINDS in order to provide practical, moral, theoretical and method-oriented worldliness and universality, proceeding to **prudent judgments and choices of concepts**. They are enhanced by data, information, and knowledge – supporting survival, cognition, existence, and action through wise conclusions, positions, solutions, decisions, actions and so forth, which are understandable, competent, and sensitive.*

# Information as Wisdom in the **Civilizational** Context

**Table 1.** The Wisdom Potential of Civilization (WPC)

CIVILIZATION	BASIC MIND	WHOLE MIND	GLOBAL MIND	UNIVERSAL MIND	Ranking
	WPC	WPC	WPC	WPC	
JAPANESE	4	27	80	477	1
WESTERN-WEST	1	9	65	459	2
WESTERN-CENTRAL	0.44	3	13	53	3
CHINESE	0.63	2	4	7	4
WESTERN-JEWISH	0.06	0.43	2	6	5
EASTERN	0.09	0.65	1	5	6
WESTERN-LATIN	0.02			2	7
BUDDHIST	0.05	0.14	0.4	0.4	8
HINDU	0.13	0.4	0.4	0.4	9
AFRICAN	0.003	0.002	0.01	0.05	10
ISLAMIC	0.02	0.02	0.03	0.03	11

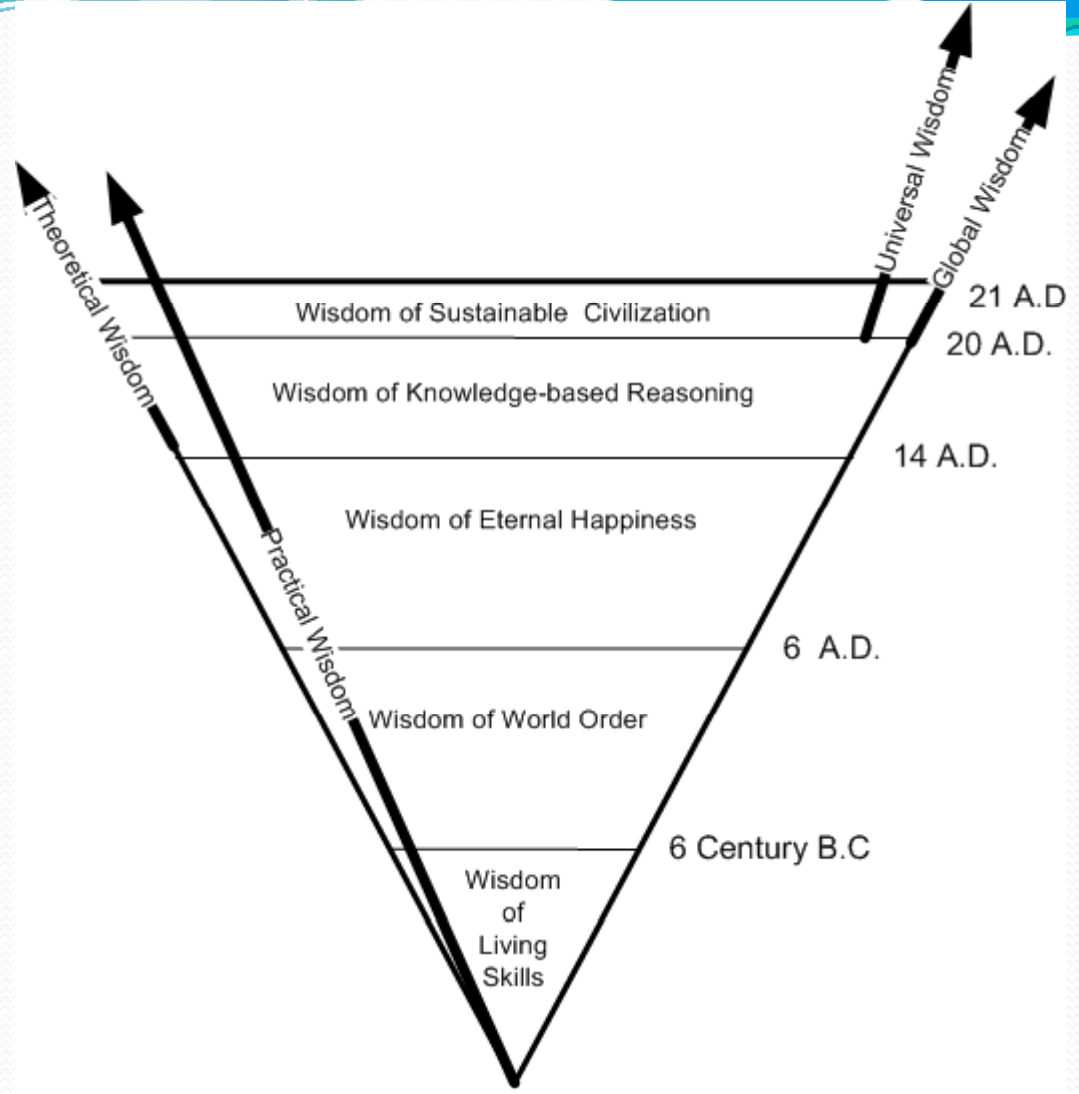


Figure 10-2 The Patterns of Wisdom in Civilizational Development

2050-2150

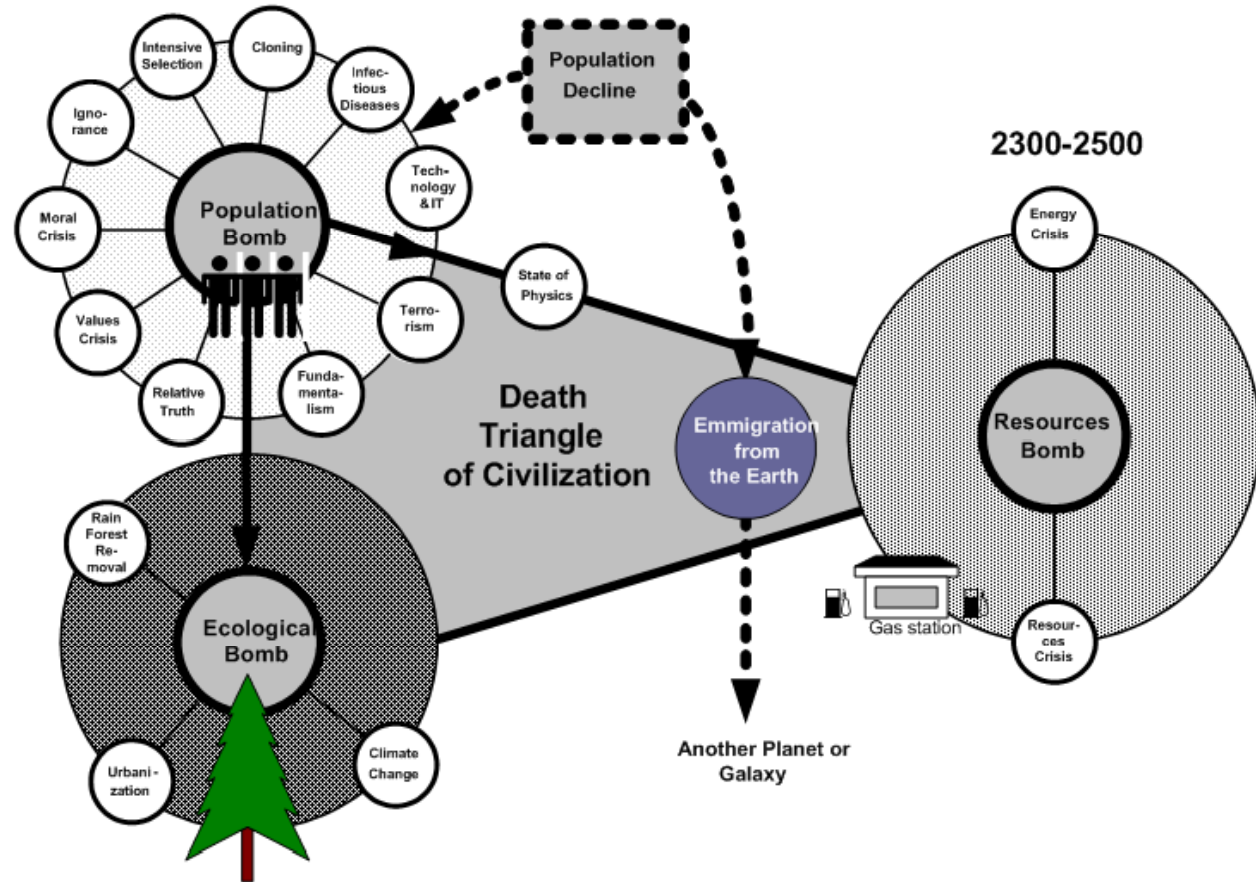


Figure 9- 7 The Death Triangle of Civilization

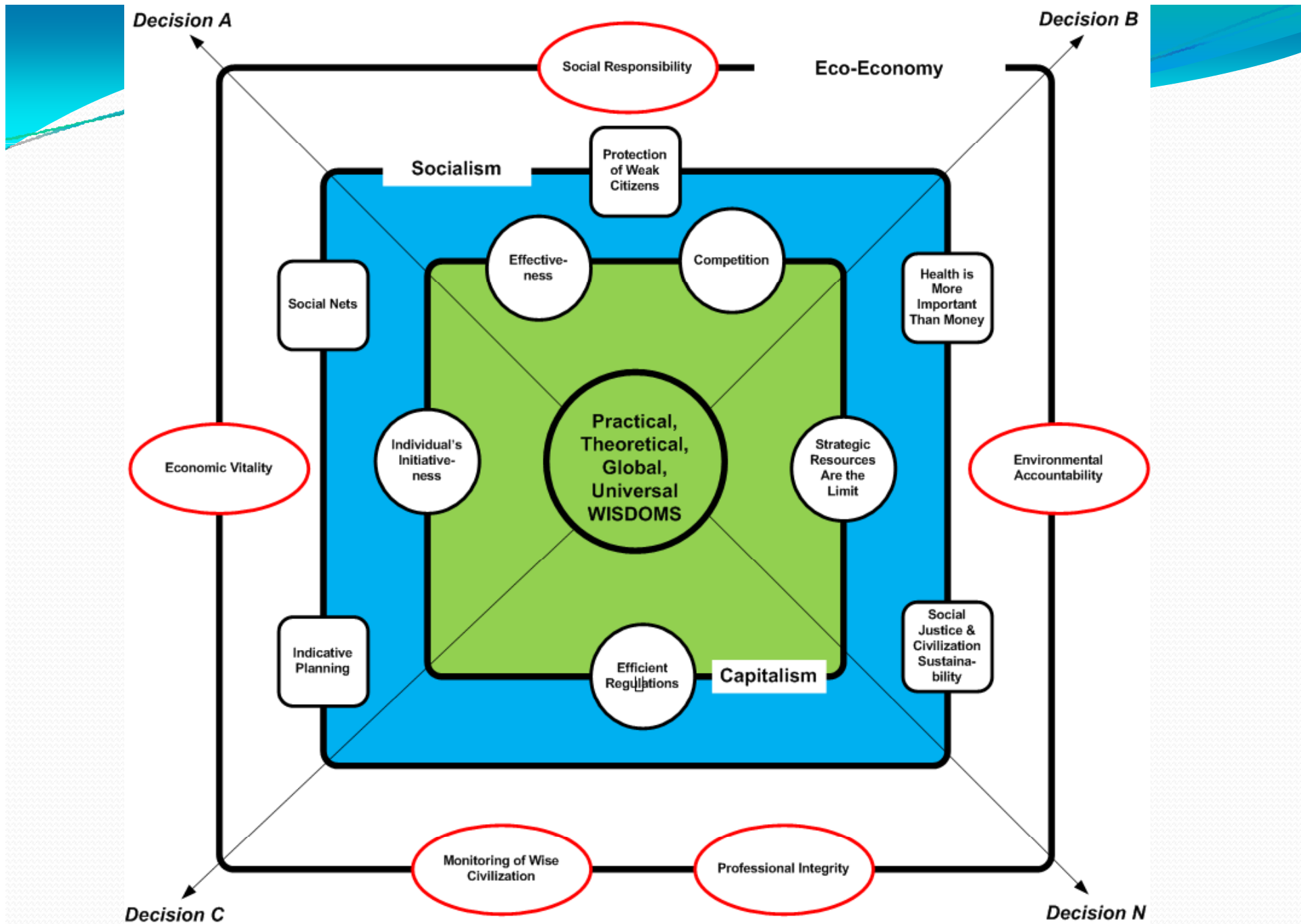


Figure 10-12 The Architecture of Deep Economy

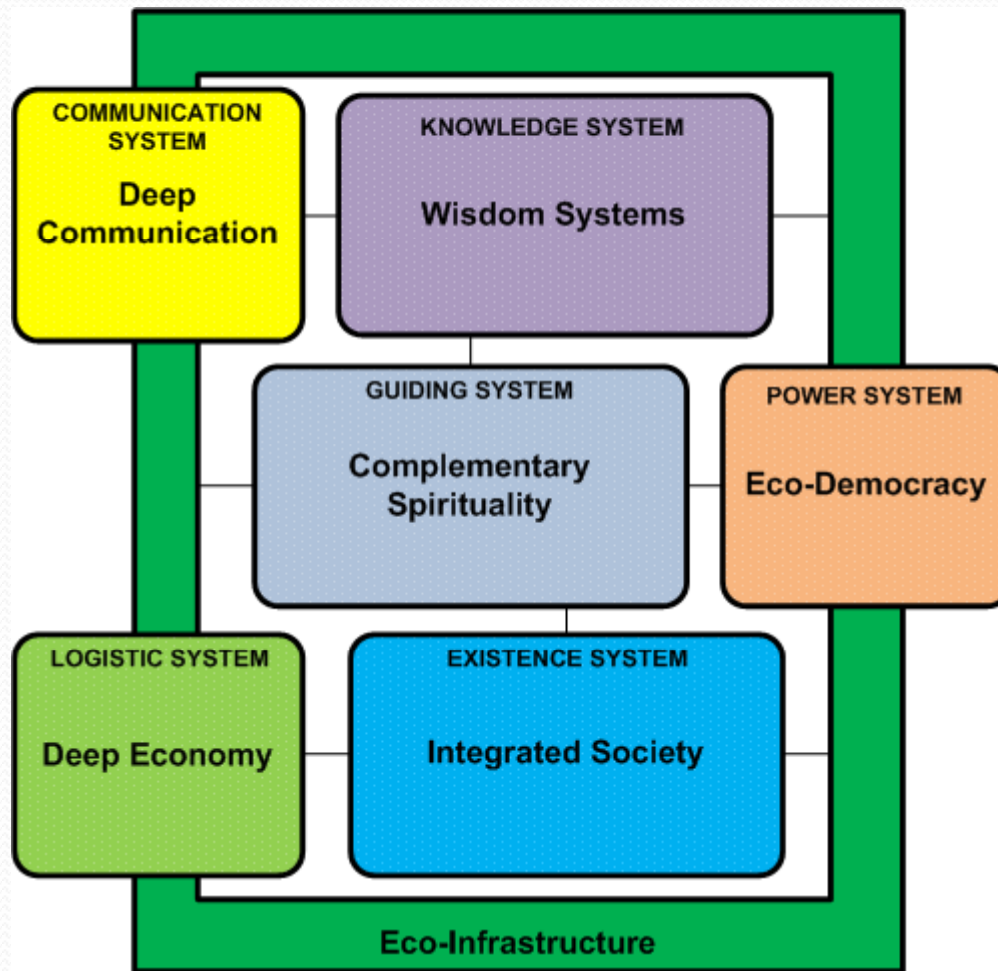


Figure 10-14 The Architecture of Wise Civilization

# Global Civilization in the 21<sup>st</sup> Century

# Universal Civilization

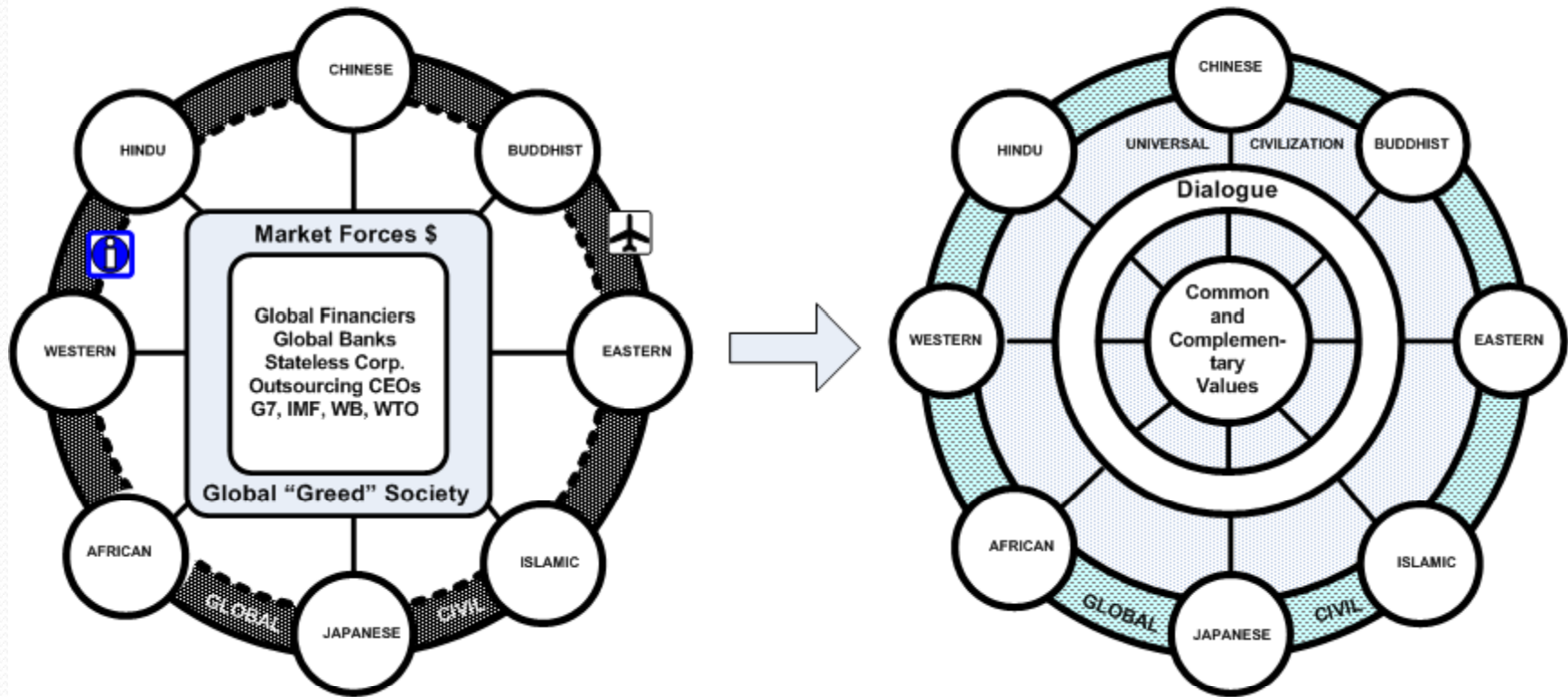


Figure 10-8 The Transformation of Global to Universal (Wise) Civilization

## Complementary Values

<b>Civilization</b>	<b>Contributed Values</b>
<b>AFRICAN</b>	<b>Ancestral Connection</b>
<b>BUDDHIST</b>	<b>Morality</b>
<b>EASTERN</b>	<b>Self-sacrifice</b>
<b>HINDU</b>	<b>Moderation</b>
<b>ISLAMIC</b>	<b>Reward and Penalty</b>
<b>JAPANESE</b>	<b>Cooperation and Nature Cult</b>
<b>CHINESE</b>	<b>Authority Cult</b>
<b>WESTERN</b>	<b>Freedom and Technology</b>
<b>GLOBAL</b>	<b>Free Flow of Ideas, Goods, Services and People according to <i>Pax Orbis</i></b>
<b>UNIVERSAL</b>	<b>Wisdom, Goodness, Access, Dialogue, Agreement (on main principles), Human and Civil Rights, International Law, Green and Self- sustainable Planet</b>



# Conclusion

- Today humans perceive rising role of **cognition** in the **information** model.
- In the information-driven **CIVILIZATION** we want to be **wiser** in controlling of events, with the **desire to cognize more (computing more?)** and more.
- The future of civilization depends on **human wisdom (rather than data)**, which comes along with more **knowledge-based** and positive experiences of **wisdom's applications**.
- Portuguese navigators in the 15 century already applied data, information, concepts, knowledge and wisdom in globalizing and integrating civilizations?

## Cognitive Informatics and Wisdom Development Interdisciplinary Approaches

Wisdom is the ultimate human virtue, its application is important for human civilization.

*Cognitive Informatics and Wisdom Development: Interdisciplinary Approaches* argues that wise civilization cannot function without wise and, that wise people cannot function without positive conditions for development of wise civilization. Using the cognitive informatics approach as a basis for the investigation of wisdom, this book offers solutions on how to study and evaluate the state of wisdom in 21<sup>st</sup> century society and the mechanisms for wise civilization and its monitoring systems.

Andrew Targowski is a professor of Information Systems at Western Michigan University. He has published many books and 25 books on information technology, business, philosophy, and civilization in English and Polish. He is a pioneer of business information systems and inventor of INFOSTRADA (1972), which triggered the Information Superhighway wave in the U.S. in the 1990s. He investigates the role of information technology in organizations and civilization. He is Chairman of the Advisory Council of the International Information Resource Management Society (2003) and is President of the International Society for the Comparative Study of Organizations (2007-2013).



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Cognitive Informatics and Wisdom Development:  
Interdisciplinary Approaches



# Cognitive Informatics and Wisdom Development

## Interdisciplinary Approaches



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