



Integral Economics and Slovenia: *Visions and Strategies*

Dr. Darja Piciga
Slovenia

**Integral Green Slovenia: Prof. Ronnie Lessem,
Co-author of Integral Economics, in Slovenia.**

May 21 – 24, 2013

**INTRODUCTORY CONFERENCE: INTEGRAL
ECONOMICS IN THE WORLD – IN
SLOVENIA AS WELL?**

Ministry of Agriculture and the Environment
and partners, Ljubljana, May 21 2013

www.dpiciga.com

darja.piciga@gmail.com

**Ministry of Agriculture
and the Environment**

darja.piciga@gov.si

INTEGRAL
APPROACH
WORLDS



Prof. Ronnie Lessem

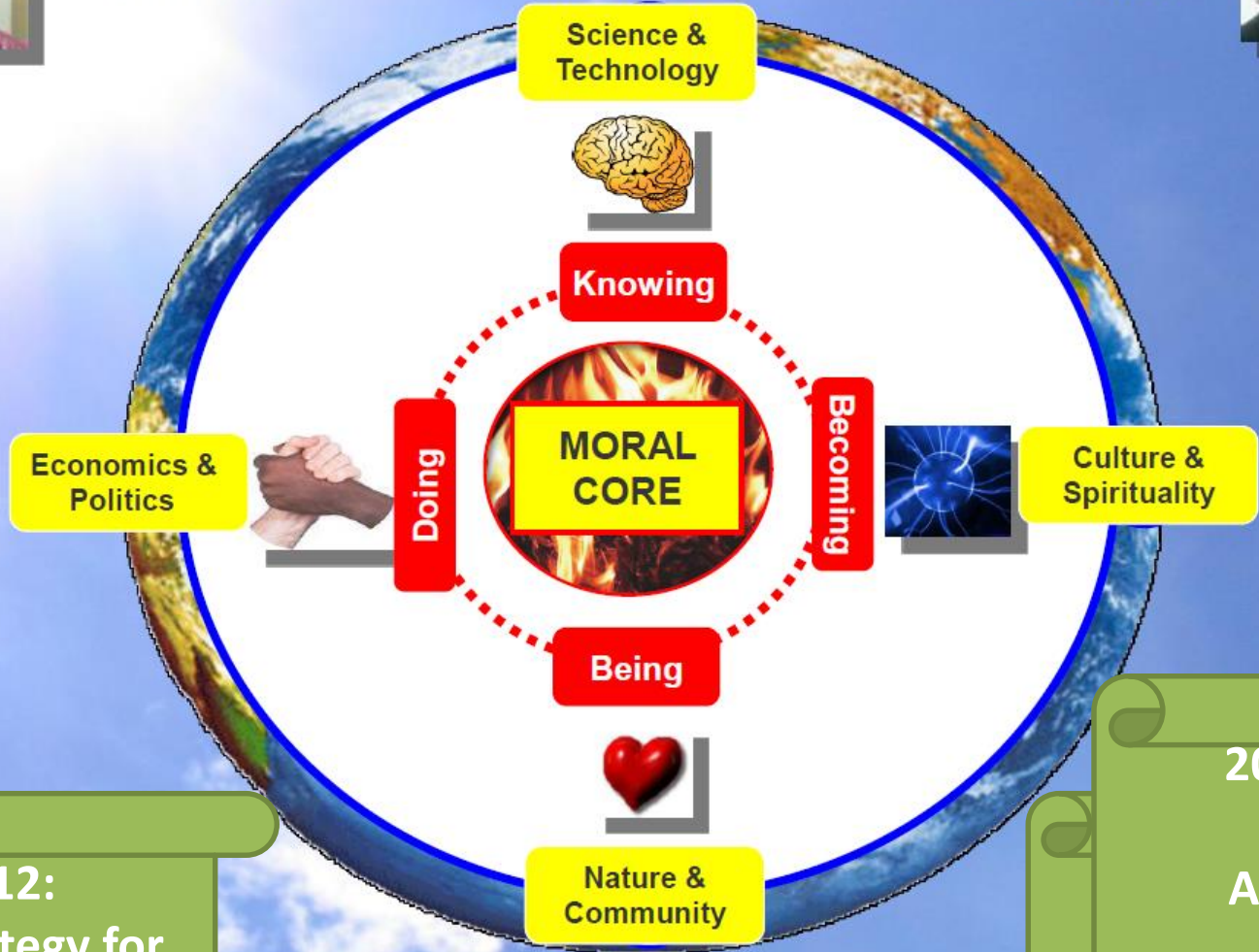
Rationalism
NORTH

Dr. Alexander Schieffer



INTEGRAL
ECONOMICS

WEST
Pragmatism



EAST
Holism

2011 - 2012:
Draft Strategy for
Transition of
Slovenia to a Low-
Carbon Society by
2050 - with
integral character!

SOCIAL RESPONSIBILITY
(moral core)
GREEN ECONOMY
SOCIAL ENTREPRENEURSHIP

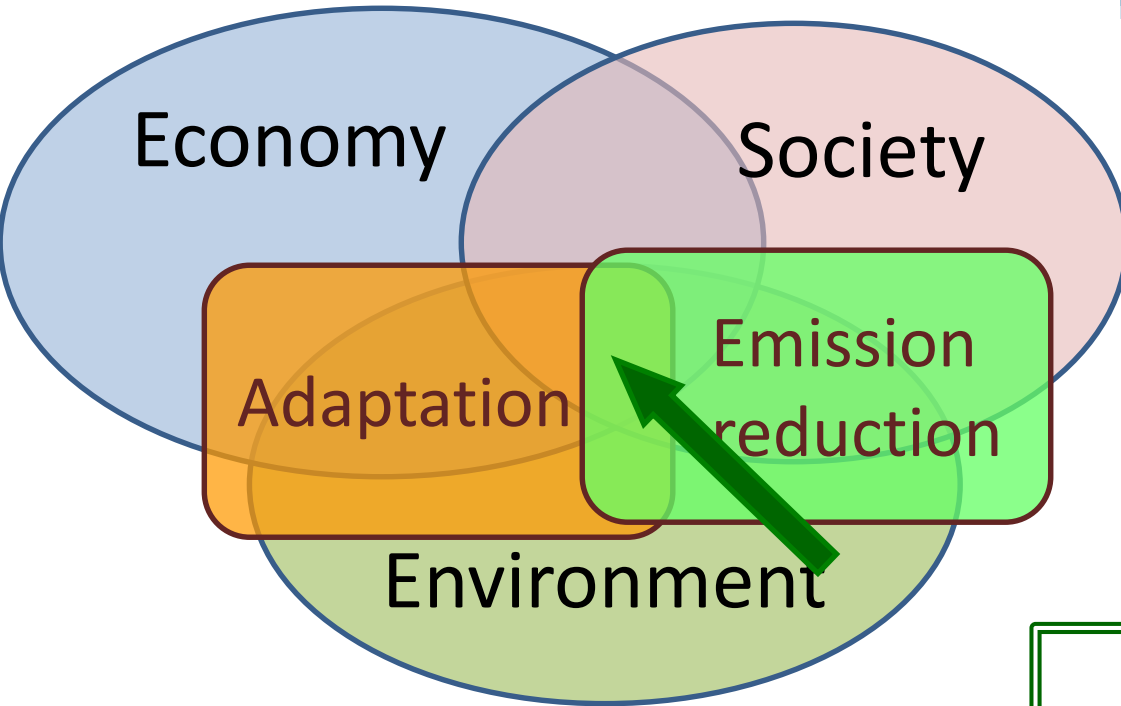
2012 - 2013:
Integral
Approach in
Slovenia's
Industrial Policy
& Slovenia's
Development
Strategy (Draft)
for 2014 - 2020!

Dr. Darja Piciga
Integral Economics and Slovenia:
Visions and Strategies

1. Holistic Vision of a Low-Carbon Future: Slovenia

Low-Carbon Society = society (or economy),

- 🌿 of which the greenhouse gas emissions are lower than the absorption capacity of the global ecosystem,**
- 🌿 and at the same time based on the principles of sustainable development.**



**DRAFT STRATEGY FOR
THE TRANSITION OF SLOVENIA TO A
LOW CARBON SOCIETY
BY 2050**

www.svps.gov.si

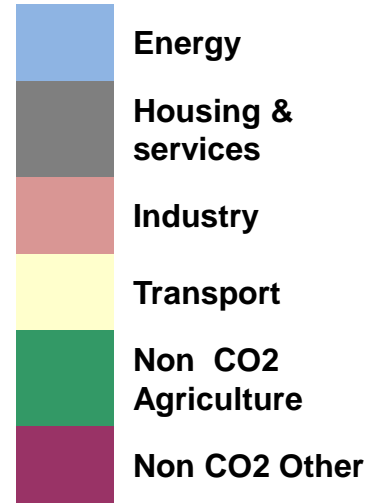
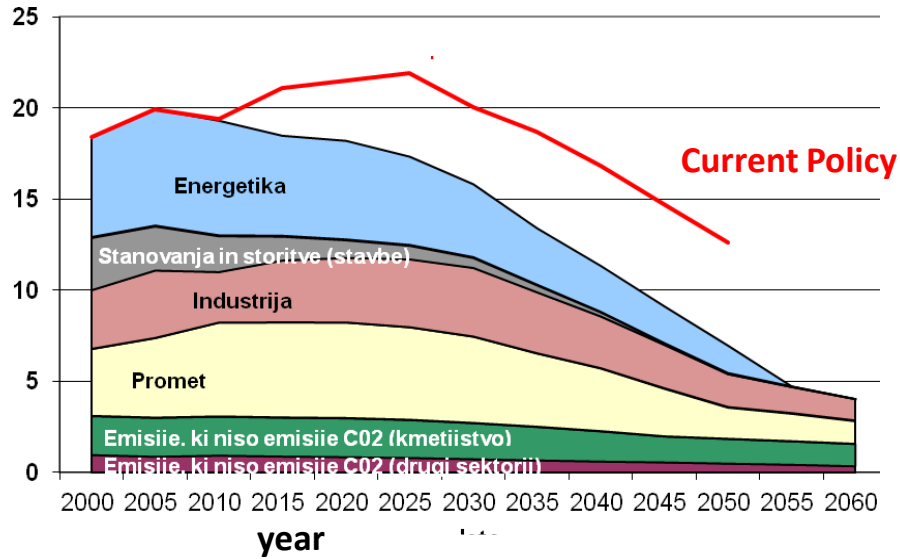
SWOT

- ✚ A small, open, export-oriented economy
 - ✚ with a relatively good educational structure and
 - ✚ preserved natural environment
- represents a relatively favourable starting position for the transition to a low carbon society.

***The vision of Slovenia as
a low carbon society in 2050
is a highly integrated and inclusive
society with
an excellent business sector
and a high quality of life, space
and natural environment.***

Slovenia 2050: 67 % 2060: 80%

emissions [Mt CO2 eq]



S T R A T E G I C	A P P R O A C H	Reducing emissions through green growth	Green Growth
			Green Taxes
			Public Expenditure
			Green Tax Reform
		Adaptation	Improving predictions and assessment of vulnerability
			Integration of adaptation objectives into sectoral policies
			Funding
		Horizontal strategies	Innovation and Education
			Local and Regional Initiative
			Awareness and Communication
			Active Role in International Community

Thematic area	Emission reduction	Adap-tation
Energy	✓	✓
Transport	✓	✓
Low carbon technologies	✓	✓
Buildings	✓	✓
Industry	✓	✓
Services	✓	✓
Agriculture	✓	✓
Solid waste	✓	✓
Spatial planning	✓	✓
Forests, sinks, biodiversity	✓	✓
Waters	✓	✓
Health	✓	✓
Natural disasters	✓	✓

OPPORTUNITIES FOR GREEN ECONOMY – INTEGRATED POLICY AREAS

- Energy efficiency including intellectual services, equipment, building insulation and energy efficient buildings.
- Renewable energy including production and installation of equipment (hydro and solar power, biomass, geothermal), their management and maintenance.
- Construction including renovation and energy restoration of buildings, renovation and construction of railways, rehabilitation of road network with the objectives of energy efficiency and the promotion of public transport.
- Metal processing, electronic and electric industry with low-carbon products ranging from components for electric vehicles to smart energy grids - sectoral green growth strategy by 2020 already developed.
- Agriculture and forestry establishing supply networks in sustainable food and energy wood.
- Related health-spa, recreation, catering and tourism that build on natural and cultural heritage of Slovenia.
- Local communities providing local services (including kindergartens, schools, care for the elderly ...) that reduce the demand for transport.

Dr. Darja Piciga

Integral Economics and Slovenia:

Visions and Strategies

2. The integral character of the Draft Low-Carbon Strategy

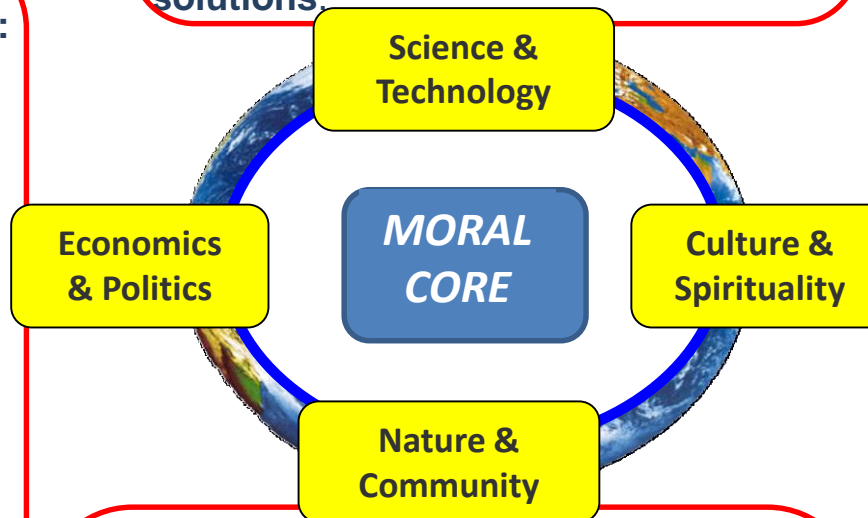
Integral character of the Draft Low Carbon Strategy Strengths - Opportunities Vision

FINANCE & ENTERPRISE:

-In Slovenia, there are a number of sectors that are already part of or have the potential for green growth; in the following decades the policy of greening of all sectors is strongly promoted.

-Slovenia is in 2050 attractive for investment and living and is a lead developer of selected low carbon technologies.

-Slovenia is in 2050 distinguished by a high educational level of population, i.e. possesses high intellectual capital.
- Development breakthrough was achieved by 2050 through innovation and investment in sustainable technological and non-technological solutions.



-Healthy and biologically diverse ecosystems are adapted to climate change through natural processes and sustainable management. Preserved nature, including water quantity and quality, sustainable forests and biodiversity, provides ecosystem services.
-Slovenia is in 2050 a welfare society and the land of equal opportunities with high social cohesion, individuals and organizations are connected with the social environment.

-Building on Slovenia's cultural heritage and the rich diversity of cultural influences.
- Supply networks in sustainable food and energy wood; related health-spa, recreation, catering and tourism build on natural and cultural heritage of Slovenia.
-Improved educational structure allows strengthening of civil society with strong social capital.
- Slovenia is actively participating in international efforts for sustainable development both through helping other countries but also by accepting "climate refugees".

Integral character of the Draft Low Carbon Strategy Strengths - Opportunities Vision

FINANCE & ENTERPRISE:

- In Slovenia, there are a number of sectors that are already part of or have the potential for green growth; in the following decades the policy of greening of all sectors is strongly promoted.
- Slovenia is in 2050 attractive for investment and living and is a lead developer of selected low carbon technologies

Economic & Politics

- Slovenia is in 2050 distinguished by a high educational level of population, i.e. possesses high intellect. capital.
- Development breakthrough was achieved by 2050 through innovation and investment in sustainable technol. and non-technol. solutions.

Science & Technology

MORAL CORE

- * Acceptance in principle of the values of sustainable development, high population awareness on climate change and the degree of motivation to act for the common good.*
- * Slovenia is in 2050 a society with a developed value system and conscious/enlightened holistic individuals and organizations.*

Culture & Spirituality

- Building on Slovenia's cultural heritage and the rich diversity of cultural influences.
- Supply networks in sustainable food and energy wood; related health-spa, recreation, catering and tourism build on natural and cultural heritage of Slovenia.
- Improved educational structure allows strengthening of civil society with strong social capital.
- Slovenia is actively participating in international efforts for sustainable development both through helping other countries but also by accepting "climate refugees".

Nature & Community

- Healthy and biologically diverse ecosystems are adapted to climate change through natural processes and sustainable management. Preserved nature, including water quantity and quality, sustainable forests and biodiversity, provides ecosystem services.
- Slovenia is in 2050 a welfare society and the land of equal opportunities with high social cohesion, individuals and organizations are connected with the social environment.

**INTEGRAL,
LOW-CARBON
SLOVENIA
A Vision**

A relevant knowledge creation climate, supporting through science & technology the climate vision of society and beyond.

Science & Technology



The engagement and unleashing of Slovenia's own moral (economic) core thereby touching on our innermost belief systems.

Economics & Politics



Culture & Spirituality

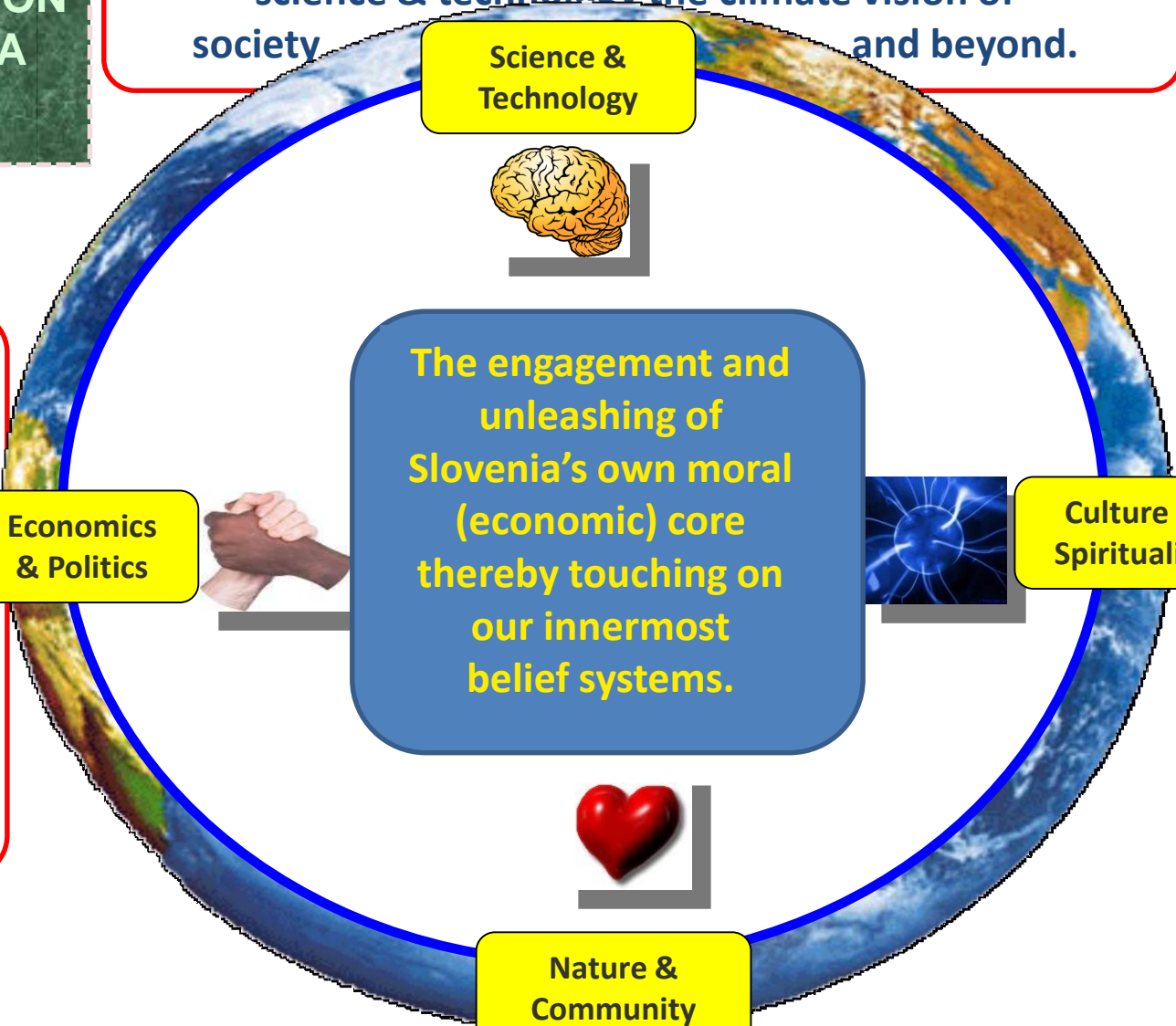
An open cultural and spiritually infused climate of dialogue and co-creation.

A new living economy with a conducive and sustainable business climate.

Nature & Community



A new environmental and social climate.

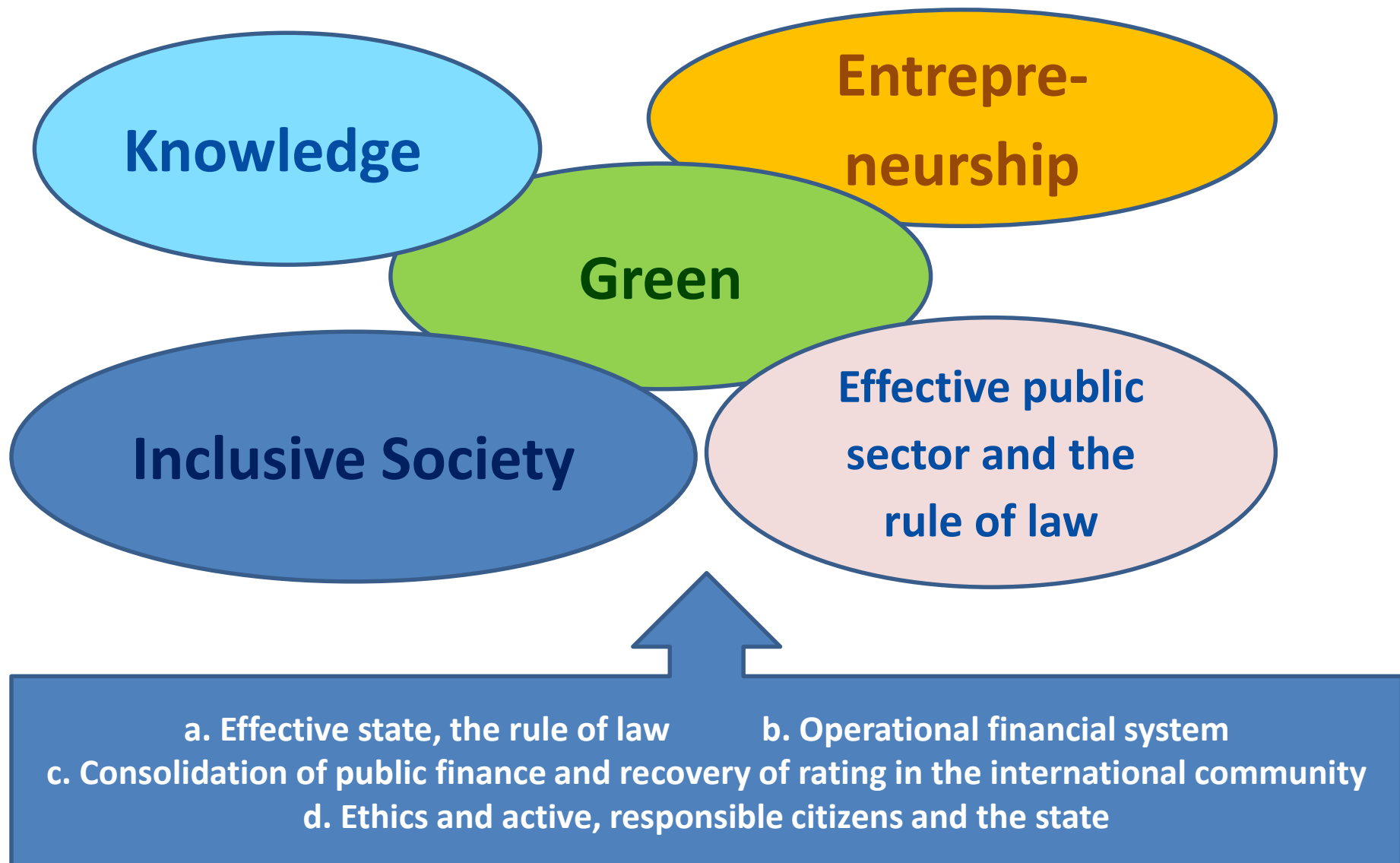


Dr. Darja Piciga

Integral Economics and Slovenia:
Visions and Strategies

3. Development Planning for 2014 - 2020

Slovenia's Development Strategy 2014 – 2020 (draft): Identified Priorities



Slovenian Industrial Policy – SIP for 2014 – 2020

Adopted by: The Government of the Republic of Slovenia in February 2013

The responsible body: Ministry of Economic Development and Technology

SLOVENIAN INDUSTRIAL POLICY GUIDELINES FOR ECONOMIC DEVELOPMENT:

- **IBE: IMPROVING THE BUSINESS ENVIRONMENT (3.1.) (38 guidelines - G):**
 - Functioning of the rule of law
 - Friendlier administrative environment
 - A more flexible labour market and education adapted to the economy
 - An encouraging tax environment
 - **Environmental, energy and spatial policy**
 - Comprehensive business innovation support environment
 - Improving access to affordable sources of finance
 - Creating an environment which encourages creativity, entrepreneurship and innovation (CEI)
 - Effective management of companies, especially state-owned enterprises
 - **Encouraging corporate social responsibility.**

- **EI: STRENGTHENING ENTREPRENEURSHIP AND INNOVATION - FOCUSING SUPPORT ON NEW, INNOVATIVE AND GROWING COMPANIES (3.2) (8 G)**

- **PITA: RESPONSE TO SOCIAL CHALLENGES - ORIENTATION OF SUPPORT TO PROMISING INDUSTRIAL AND TECHNOLOGY AREAS (3.3) (3 G):**
 - PTI: Priority technology areas**
 - KIS: Key industrial sectors**

- **LDI: ACTIVITIES FOR THE LONG-TERM DEVELOPMENT OF INDUSTRY (3.4) (7 G)**

Integral elements of the Slovenian Industrial Policy – SIP for 2014 - 2020

PITA:

Response to social challenges - orientation of support to promising industrial and technology areas

Science &
Technology

IBE/8:

Comprehensive promotion of creativity.

LDI:

Promoting tourism in accordance with the

Slovenian Tourism Development Strategy

Culture &
Spirituality

Nature &
Community

IBE/5: Environmental, energy and spatial policy

IBE/7: Promoting entrepreneurship for young people, women, social entrepreneurs and micro-entrepreneurs.

Economics
& Politics

EI:

Strengthening entrepreneurship and innovation - focusing support on new, innovative and growing companies .

MORAL CORE

IBE/10: ENCOURAGING CORPORATE SOCIAL RESPONSIBILITY

- *Formation of priority areas and measures*
- *Formation and exchange of good practices*
- *Considering social responsibility in the allocation of resources*

Table 3: Identified challenges and opportunities and focus on priority technological and industrial areas

Challenge	Priority technology areas*	Key industrial sectors*
Environmental-energy challenge and efficient use of natural resources, based on sustainable production and consumption	Environmental technologies (technologies for the efficient use of energy, including the economical use of energy, renewable energy technologies, technologies for increasing material efficiency etc.)	Energetics / 'Smart' systems
		Sustainable construction
		Manufacturing (especially wood-processing, metal and electrical industry and electronics)
		Chemical and process industry
Sustainable mobility	Technologies for sustainable mobility	Automotive industry
Food, health and ageing population	Biotechnology and other challenge-related technologies	Pharmaceutical industry
		Food-processing industry and sustainable food production
		Sustainable tourism
Potential KET - Key Enabling Technologies	Nanotechnology, micro- and nano-electronics, photonics, biotechnology, advanced materials, advanced manufacturing and process technologies	ICT
		Electrical industry and electronics
		New materials
		Metal-processing industry, engineering and tool-making

Dr. Darja Piciga

Integral Economics and Slovenia:
Visions and Strategies

4. and Good Practices ...



LOCAL & REGIONAL DEVELOPMENT

ECONOMIC GROWTH: provides social, cultural and environmental sustainability:

- the process of **planning** local and regional development (SUSTAINABLE TOURISM!)
- inclusion in national, international and EU programs
- build on and by integrating **cultural and natural heritage**
- Over 80% of Solčavsko include protected areas (two regional parks, Natura 2000)
- Center Rinka - a multi-purpose center for sustainable development of Solčavsko (works since 2011, awards for architecture, perfectly accepted between locals and visitors)



SOLČAVSKO – THREE VALLEYS IN UNISON



Promoting production chains:

- **TIMBER** - from tree to furniture (Solčava mountain wood)
- **WOOL** - from sheep to clothing (Jezerško-Solčava sheep)
- **CUISINE** - from nature on plate
- **SOLČAVA MARBLE** – from stone to vase



Good participatory planning and action at the local level enables the integration of multiple sectoral targets and provides multi-functional results (synergies, multifunctionality).

INTEGRAL
APPROACH
WORLDS



Prof. Ronnie Lessem

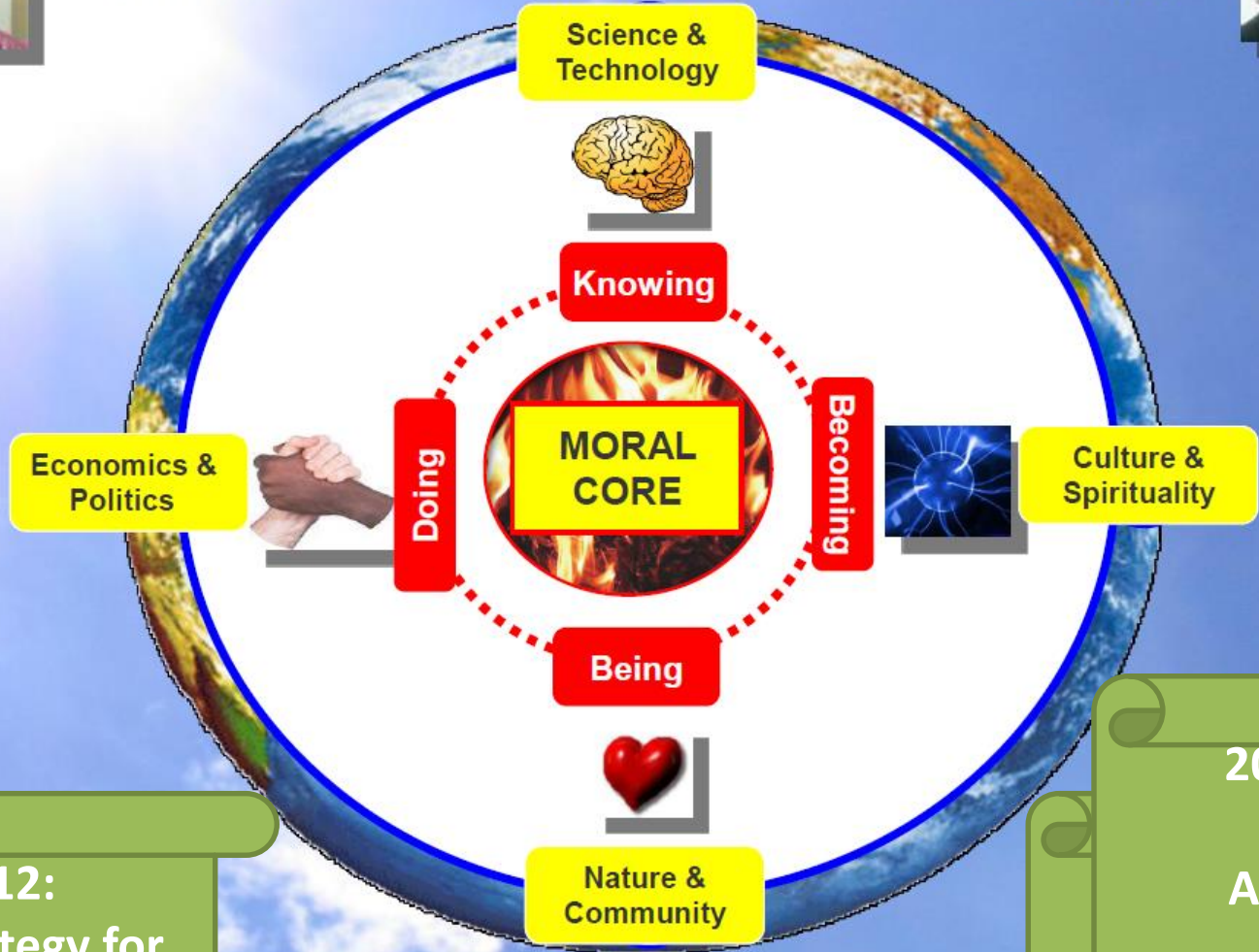
Rationalism
NORTH

Dr. Alexander Schieffer



INTEGRAL
ECONOMICS

WEST
Pragmatism



2011 - 2012:
Draft Strategy for
Transition of
Slovenia to a Low-
Carbon Society by
2050 - with
integral character!

SOCIAL RESPONSIBILITY
(moral core)
GREEN ECONOMY
SOCIAL ENTREPRENEURSHIP

2012 - 2013:
Integral
Approach in
Slovenia's
Industrial Policy
& Slovenia's
Development
Strategy (Draft)
for 2014 - 2020!