Lifelong Learning in the field of the sustainable technologies

Vineta Srebrenkoska
Faculty of Technology
University Goce Delcev - Stip

Course development workshop 1 - Ohrid, MK
17th till 21st January 2011
LIFELONG LEARNING

KEY QUESTIONS!

"How much life have we lost in living? How much wisdom have we lost in knowledge? How much knowledge have we lost in technology?“
THE VALUE CHAIN

INFORMATION
META
DATA

KNOWLEDGE
META
INFORMATION

LEARNING
META
KNOWLEDGE

MEANING
META
LEARNING
- WHAT IS LIFELONG LEARNING
- WHY TO STUDY DURING THE ENTIRE LIFE
- NEW PEDAGOGOCAL APPROACHES
- FINANCING OF LIFELONG LEARNING
- CONSTRUCTION OF LIFELONG LEARNING
- STRATEGY FOR IMPLEMENTATION OF LIFELONG LEARNING
LIFELONG LEARNING IS DEFINED AS ALL LEARNING ACTIVITY UNDER TAKEN THROUGHOUT LIFE, WITH THE AIM OF IMPROVING KNOWLEDGE, SKILLS AND COMPETENCE, WITHIN A PERSONAL, CIVIC, SOCIAL AND/OR EMPLOYMENT-RELATED PERSPECTIVE.

Lifelong learning, also known as LLL, is the "lifelong, voluntary, and self-motivated" pursuit of knowledge for either personal or professional reasons.
Lifelong Learning (LLL) has the following objectives:

- To promote knowledge, skills and competence,
- To meet the needs of individuals / citizens, the needs of society,
- To increase employment opportunities.
Four ‘pillars’ of education for the future.

- **Learning to Be**
  - Interpretative Skills

- **Learning to Do**
  - Resolutive Skills

- **Learning to Know**
  - Cognitive Skills

- **Learning to Live Together**
  - Relational Skills

**An approach to learning that is flexible, critical and capable**

- acquiring and applying skills, including life skills

- exercising tolerance, understanding and mutual respect

- promoting creativity and personal fulfilment

Course development workshop 1 - Ohrid
# Traditional vs. Lifelong Learning

<table>
<thead>
<tr>
<th>Traditional learning</th>
<th>Lifelong learning</th>
</tr>
</thead>
<tbody>
<tr>
<td>• The teacher is the source of knowledge.</td>
<td>• Educators are guides to sources of knowledge.</td>
</tr>
<tr>
<td>• Learners receive knowledge from the teacher.</td>
<td>• People learn by doing.</td>
</tr>
<tr>
<td>• Learners work by themselves.</td>
<td>• People learn in groups and from one another.</td>
</tr>
<tr>
<td>• Tests are given to prevent progress until students have completely mastered a set</td>
<td>• Assessment is used to guide learning strategies and identify pathways for future</td>
</tr>
<tr>
<td>of skills and to ration access to further learning.</td>
<td>learning.</td>
</tr>
<tr>
<td>• All learners do the same thing.</td>
<td>• Educators develop individualized learning plans.</td>
</tr>
<tr>
<td>• Teachers receive initial training plus ad hoc in-service training.</td>
<td>• Educators are lifelong learners.</td>
</tr>
<tr>
<td>• “Good” learners are identified and permitted to continue their education.</td>
<td>Initial training and ongoing professional development are linked.</td>
</tr>
<tr>
<td></td>
<td>• People have access to learning opportunities over a lifetime.</td>
</tr>
</tbody>
</table>
Lifelong learning's core values of learning, exploring, and serving, realize benefits for the mind, body and spirit and make it an incredibly powerful tool for personal transformation and enhancement !!!!

Lists the top 10 benefits of lifelong learning as such:

- Lifelong learning helps fully develop natural abilities.
- Lifelong learning opens the mind.
- Lifelong learning creates a curious, hungry mind.
- Lifelong learning increases our wisdom.
- Lifelong learning makes the world a better place.
- Lifelong learning helps us to adapt to change.
- Lifelong learning helps us to find meaning in our lives.
- Lifelong learning keeps us involved as active contributors to society.
- Lifelong learning helps us to make new friends and establish valuable relationships.
- Lifelong learning leads to an enriching life of self-fulfillment.
Knowledge consists of different types:

**Knowing about** - news events, basics of a field, introductory concepts

**Knowing to do** - drive a car, solve a math problem, code a program, conduct research

**Knowing to be** - to embody knowledge with humanity, to be a doctor or psychologist, to be an ethical person, to be compassionate, to relate, to feel

**Knowing where** - to find knowledge when needed, web search, library, database, an organization, knowing who to approach for assistance

**Knowing to transform** - to tweak, to adjust, to recombine, to align with reality, to innovate
THE WAY TO INCLUSIVE KNOWLEDGE

CLASSICAL APPROACH

What to teach
How to teach

Initial Education
for a lifetime

Status-ridden
Knowledge

NEW APPROACH

Where to learn
When to learn

Flexible Learning
throughout life

Inclusive
Knowledge
LIFELONG LEARNING required

- Cyclical approach to learning throughout life
- New equipment for teaching

According to the National Education Act B.E. 2542 (1999) Lifelong education means education that integrates formal, non formal and informal education in order to create opportunities for continuous lifelong development of quality of life.

It is a continuous lifelong process from birth to end of our lives, starting with learning in families, communities, schools, institutions, jobs, etc..

Never too late to learn!
<table>
<thead>
<tr>
<th>FORMAL LEARNING</th>
<th>NON FORMAL LEARNING</th>
<th>INFORMAL LEARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>learning of 6-24 age in educational institutions, from primary and secondary to higher levels.</td>
<td>Learning during the working life of 25-60 age informally through the use of instructional media, mostly from their professions, jobs, colleagues, media, information technology, environment and nature.</td>
<td>Learning in old age (over 60 years) Elderly people can learn a lot from the activities appropriate to their age, i.e. art, music, sport for the elderly, handicrafts and social work.</td>
</tr>
</tbody>
</table>
METHODS OF LIFELONG LEARNING

- Face to face / distance learning / mixed methods
- Self Learning
- Interactive learning
- Learning to work
- Team learning
CATEGORIES OF HUMAN ADVANCEMENT NEEDS

1. PERSONAL AND CULTURAL DEVELOPMENT

2. SOCIAL AND COMMUNITY DEVELOPMENT

3. PROFESSIONAL DEVELOPMENT AND SUSTAINABLE EMPLOYABILITY
LIFELONG LEARNING FOR ALL
FOUR STRATEGIC DEVELOPMENTS

STUDY-TIME
ENTITLEMENTS
SCHOOLING

TEACHERS AT THE CENTRE OF LEARNING OPPORTUNITIES

THE DUAL SYSTEM: OVERCOMING THE “TRUST GAP” BETWEEN COMPANIES AND SCHOOLS

NETWORKED LEARNING AND PARTNERSHIPS FOR LIFELONG EDUCATION
ELEMENTS OF STRATEGY FOR LIFELONG LEARNING

1. Partnership working
2. Insight into the demand for learning
3. Adequate resourcing
4. Facilitating access to learning opportunities
5. Creating a learning culture
6. Striving for excellence
ADAPTIVE “OLD” LEARNING

• Responding to environmental change
• Coping with threats
• Reacting to symptoms
• Capturing trends and incorporating early signs of change
• Eliciting flexibility as prime value

GENERATIVE “NEW” LEARNING

• Expanding capabilities
• Enhancing creativity
• New ways of looking at the environment
• Addressing underlying causes
• Thinking differently
• Anticipating futures
THE THREE “EYES” OF LEARNING
PERSONAL AND SOCIAL TRANSFORMATION

• **EYE OF SENSE**
  * perception, empirical, subject to “expansion”

• **EYE OF REASON**
  * rational, conceptual, subject to “perfectioning”

• **EYE OF CONTEMPLATION**
  * intuititive, emotional, subject to “deepening”
Three kinds of progress are significant for culture: progress in knowledge and technology; progress in the socialisation of man; progress in spirituality.

The last is the most important...technical progress, extension of knowledge, does indeed represent progress, but not in fundamentals. The essential thing is that we become more finely and deeply human.
RIGHTS AND DUTIES

EDUCATION AS A RIGHT

LEARNING OR STUDY CREDITS

LEARNING AS A DUTY

WORK AND LEARNING CONTRACTS
Sustainable future for the country can be provided if the citizens have the key skills and functional literacy that determine global competitiveness, social cohesion and healthy environment.

"Not the strongest species survive, nor the most intelligent, but those who respond quickly to change” - Charles Darwin

Only nations acquire knowledge and effective use can be winners in the modern world.
Thank you for your attention!