

Session 2 Education and Teaching – Basis for Industry and Research

Educational Systems need the Reform: Early Education in a Technological and Increasingly Globalized World

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Perspectives for Reform

01.

A new legitimisation of the educational system: strengthening development and competencies und preparing the child for the challenges of the 21th century



02. A Down-Top-Reform





New findings in the developmental psychology





'Sensitive periods' in early brain development Binocular vision Central auditory system Habitual ways of responding Language Emotional control Symbol Peer social skills Relative quantity



Investment in educational systems: with high Profit?





BertelsmannStiftung LA MARKAR MCCCA

03.

Changing the theoretical position - redefining learning processes -



Theoretical Positions



Re-Conceptualisation of Learning and a new Didactic Approach: Co-Contruction





The child as co-constructor of its one learning biography. Learning as dialogic approach and in cooperation with parents, teachers and other

children.

A new conceptualisation of learning using an interactional approach: the generation of knowledge and the construction of meaning as the result of interactions and discourses. All co-constructors of child's development organise the learning processes implementing the same pedagogical principals.

05. Supporting development – strengthening competencies

The need of a taxonomy and a new understanding of competencies for the 21th Century



The Concept is focusing on child's development und learning, its structure implicates three different levels: **»The visions**

»The competencies

»The learning areas



EDUCATIONAL VISIONS



Children as active learners, reseachers and explorers

Communicative children

Compentencies

Individual-related competencies

Competencies to act in the social context

Competencies in dealing with change

Metacognitive competencies

» INDIVIDUAL RELATED COMPETENCIES



» COMPETENCIES TO ACT IN THE SOCIAL CONTEXT

 Ability to democratic participation for example: » to keep to rules in discussions » to contribute the one's position in a discussion » to reconsider one's own position 	Social competencies for example: » empathy » ability to work in a team » ability to communicate
Ability to take responsibility for	ncies to act cial context
in the soc	Development of values
Ability to take responsibility for something	Development of values for example:
Ability to take responsibility for something for example:	Development of values



How Children Learn to Learn





Children's concepts of learning Ingrid Pramling Samuelsson



Children's concepts of learning Ingrid Pramling Samuelsson





Strengthening Resilience



Problem-solving abilities

Belief of selfefficacy

Positive self-image



High social competencies

Ability for self-regulation

Internal belief in controlling

Active/ flexible coping-behavior

Stable, emotional relationship to a person

Positive experiences in educational institutions



Open, supportive climate of education (authoritative style of childrearing)

Positive peer-relationships

Positive role models





Focussing on STRENGTHS, not on WEAKNESSES

06.

Individualisation and differentiation

of learning processes





emotionality and social relations

to conduct everyday life



Strong children



health

sports and exercise

language and literacy



Communicative children





fine arts and performing arts



Children as creative and imaginative artists



music and dance

mathematics





Children as active learners, reseachers and explorers



natural sciences

How to implement Curricula !



Project "Natur-Wissen schaffen"

Implementation of Curricula



Shangearing Drd Ummannes anna Gar



Bidangsverlag EINS



Bildungsverlag BINS



Likagooig (R) Proster





Bidungsverlag EINS



Line particular and the Part

Educational goals: media

Experiences and practical knowledge in dealing with media

Processing and reflexion of own contact and own experiences with media



Knowledge and reflexion of the making and function of media

Use of media for own concerns, questions and for social exchange

Religiousness and value-based concept

Democracy and politic





Society, economy and culture

Environment



7. How to cope with Diversity












08.

High quality of interaction: the key for high educational quality and for high efficacy of the educational system







How to optimize the interaction between teacher and child

How to organize learning processes





09.

An Ecological Approach in the Educational System: Building new partnerships



Map 4.7.2: Vulnerability on Any Scale and Socioeconomic Status



Equality of Educational Opportunity 1966

Children and Their Primary Schools, 1967

















Glenn Olsen Mary Lou Fuller





Family Involvement Network of Educators University of Harvard

FINE



10. A new Architecture of the Educational System





A Coherent Educational System

1. Consistency in the principles and the educational aims

2. Consistency in coping with transitions

3. Consistency in the educational processes



New Places for Learning and the Reform of Professionalisation

Learning is a treasure that will follow its owner everywhere.

Chinese Proverbs



















Reform of the Profesionalisation of Pedagogues

The Competency-Model von Fthenakis et al. 2014

My vision: Education as part of the responsibility of the society at whole !

The political vision ?

Developing the Country/the City as a great place of lifelong learning, offering a fair chance to every child



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