

## 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



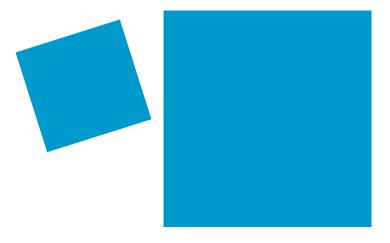
#### 02. A Down-Top-Reform

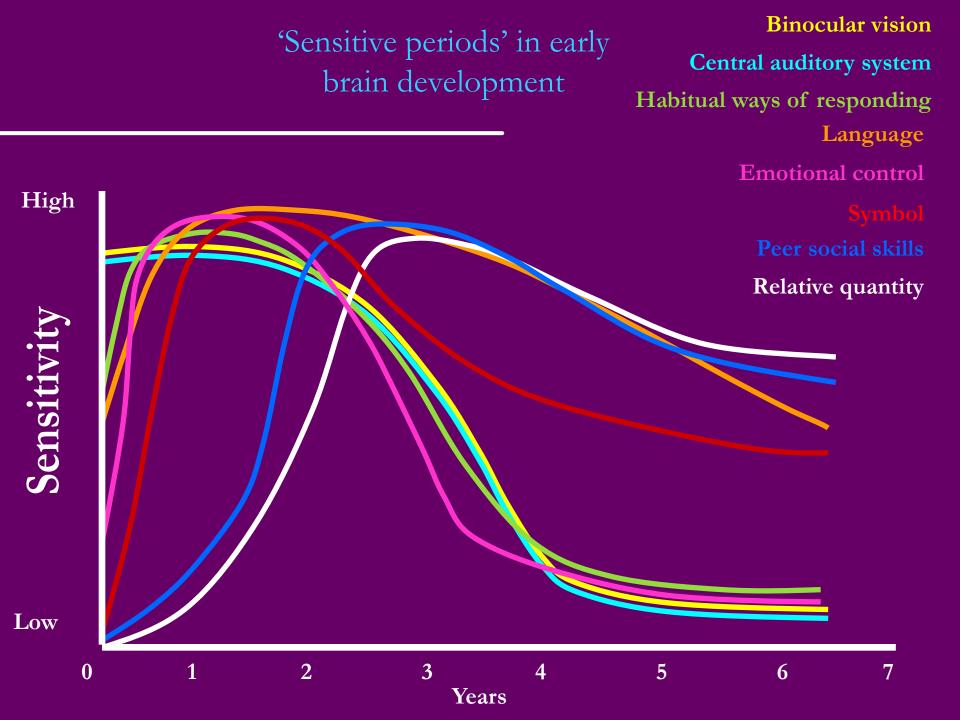




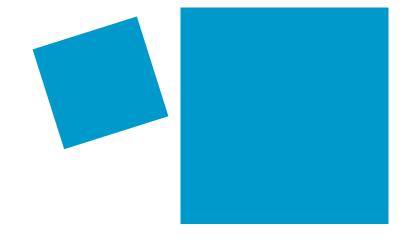
## New findings in the developmental psychology

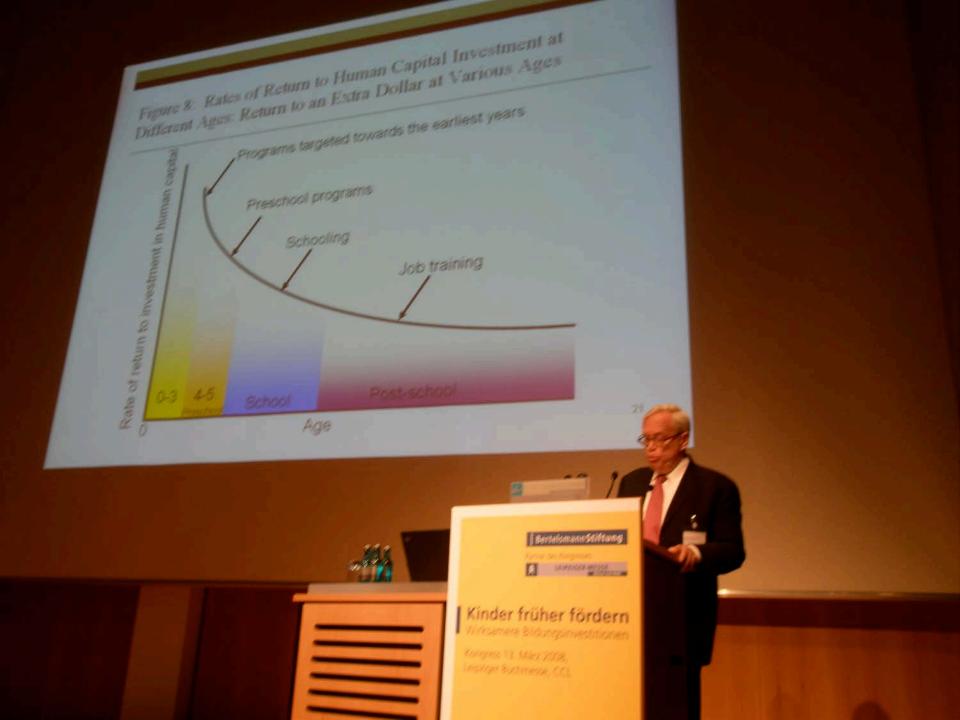






## Investment in educational systems: with high Profit?





#### 03.

#### Changing the theoretical position

- redefining learning processes -



#### **Theoretical Positions**

Child passive

Teacher passive

**Endogenistic Theories** 

Child active

Teacher passive

The Child as Constructor of his own Learning Biography



Teacher active

Exogenistic Theories
The Teaching Approach

Child active

Teacher active

Interactionistic Theories:
The Co-Construction Approach



4.

# 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**

Responsibly and value-oriented acting children

Children as creative and imaginative artists



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

#### **Emotional competencies**

for example:

- » to talk about emotions
- » to identify emotions

#### **Personal competencies**

for example:

- » self-esteem
- » positive self-concept

#### **Motivational competencies**

for example:

- » self-efficacy
- » self-regulation
- » curiosity

Individual-related competencies

#### **Cognitive competencies**

for example:

- » problem-solving skills
- » creativity
- » memory function

#### Competencies in relation to one's own body

for example:

» to take responsibility for the own health

## » 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

Competencies to act in the social context

#### Ability to take responsibility for something

for example:

- » for one's own actions
- » for other people
- » for the environment

#### **Development of values**

for example:

- » appreciation of diversity
- » solidarity



## How Children Learn to Learn





### Children's concepts of learning Ingrid Pramling Samuelsson

Learning as doing ??? Learning as knowing

### Children's concepts of learning Ingrid Pramling Samuelsson

Learning as knowing ???

Learning as understanding



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 child-rearing)

Positive peer-relationships

Positive role models





06.

## Focussing on STRENGTHS, not on WEAKNESSES

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** 



media

fine arts and performing arts

Children as creative and imaginative artists



music and dance

mathematics

technology



Children as active learners, reseachers and explorers



natural sciences

#### How to implement Curricula!



#### Project "Natur-Wissen schaffen"

Implementation of Curricula









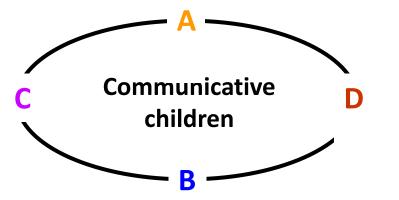




#### Educational goals: media

**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



Responsibly and valueoriented acting children



Society, economy and culture

**Environment** 



## 7. How to cope with Diversity











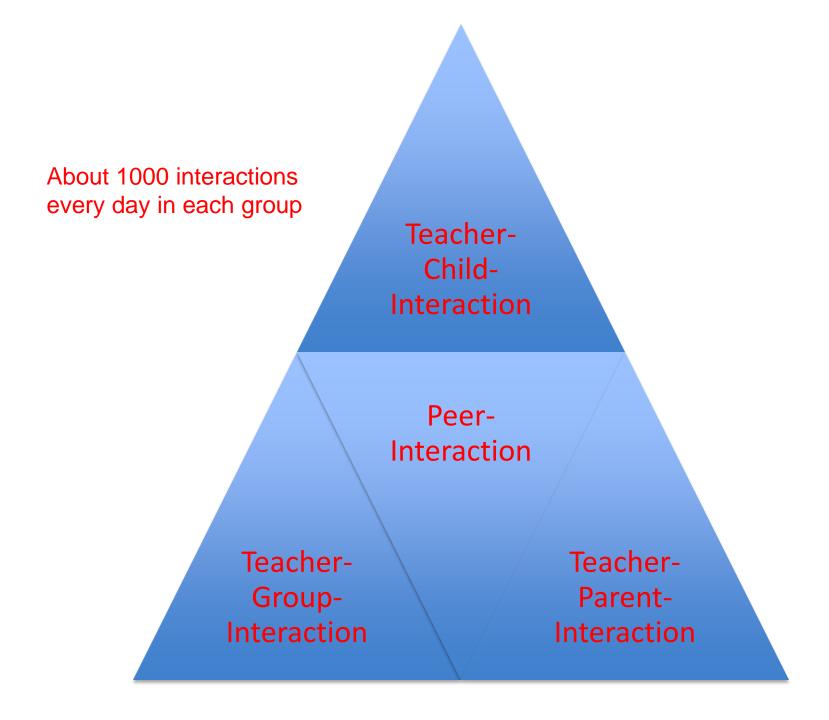


08.

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

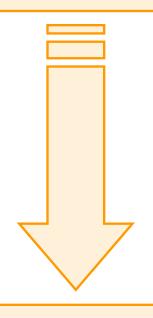




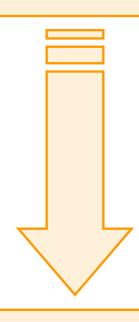


### How to optimize the interaction between teacher and child

### How to organize learning processes







Specific educational methods

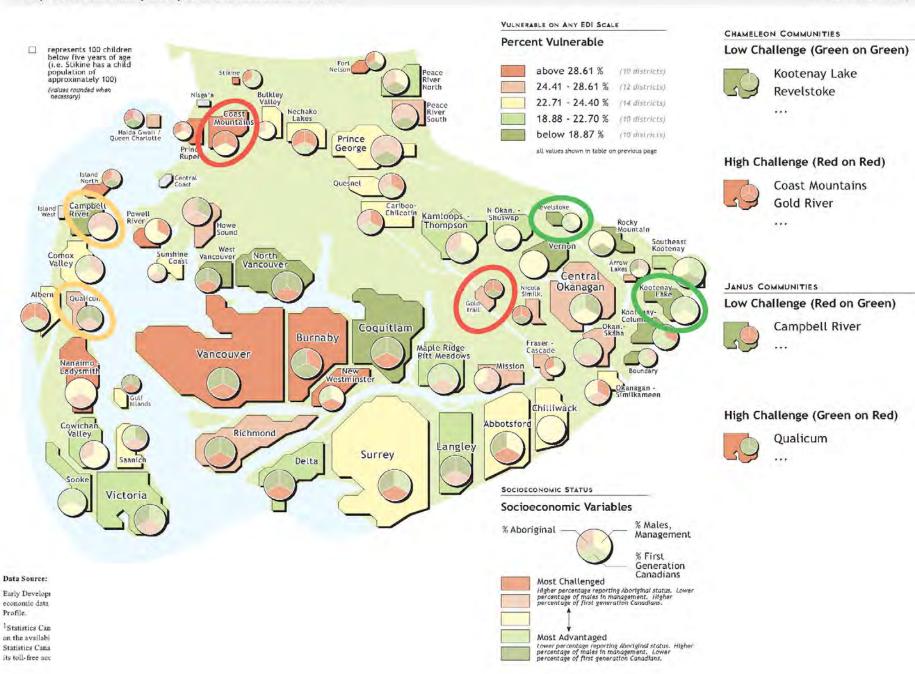
General educational methods



09.

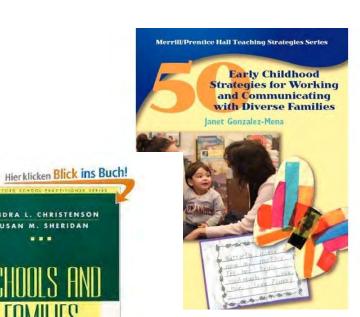
An Ecological Approach in the Educational System: Building new partnerships

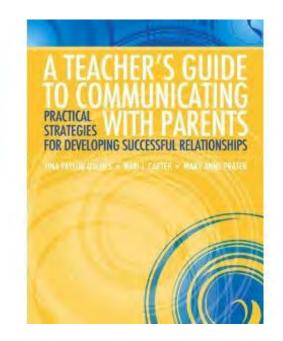




Equality of Educational Opportunity 1966

Children and Their Primary Schools, 1967





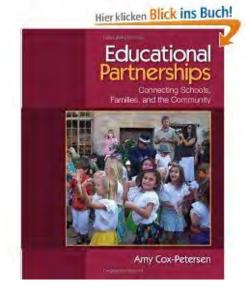


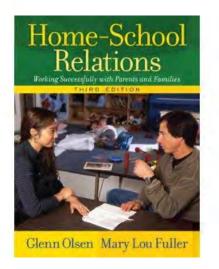
SANDRA L. CHRISTENSON SUSAN M. SHERIDAN ...

> Creating Essential Connections

for Learning

...









### FINE

Family Involvement Network of Educators University of Harvard



## 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





















### Reform of the Profesionalisation of Pedagogues

The Competency-Model von Fthenakis et al. 2014

### My vision: Education as part of the responsibility

equeation 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















#### Contact

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