Educating entrepreneurship

Insights into the entrepreneurship education research and practice in a school context

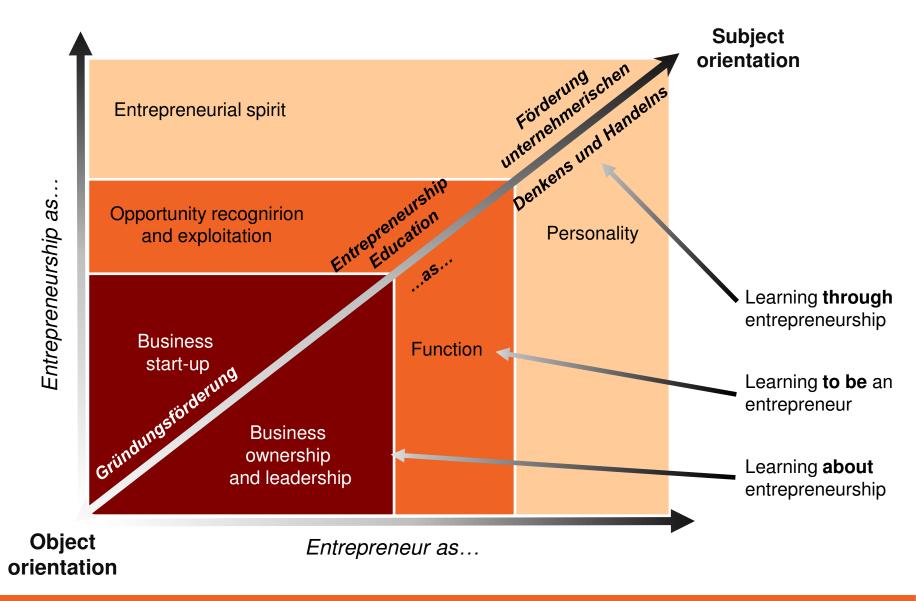
Kick-Off Workshop enterprise+ Ruhr Universität Bochum, 21.11.2014 Dr. Teita Bijedić

- 1. What do we mean by Entrepreneurship Education?
- 2. Why do we need Entrepreneurship Education?
- 3. What can we expect from Entrepreneurship Education?
- 4. How to meet the expectations?

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Entrepreneurship - Entrepreneur - Education

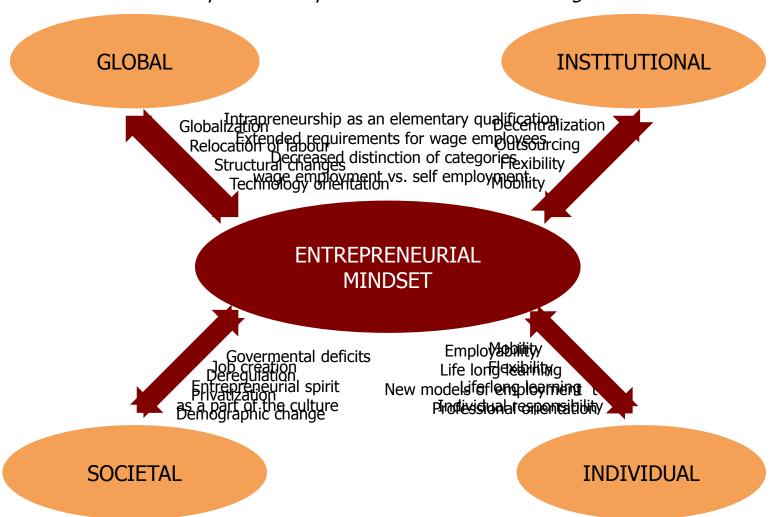


Bijedic (2013), S. 88.

- 1. What do we mean by Entrepreneurship Education?
- 2. Why do we need Entrepreneurship Education?
 - 2.1 Increased uncertainty requires new approaches
 - 2.2 Born or made empirical evidence for a development perspective
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Increasing complexity and uncertainty

Increasing complexity and uncertainty on different levels... Entrepreneurial spirit as answer to the challenges...



: Bijedic (2013), S. 78.

Entrepreneurship as educational goal

- European Commission states entrepreneurship as an education goal
- Requirements of the labour market
 - Intrapreneurship
 - Entrepreneurial mind-set as a premise for entrepreneurial behaviour in different contexts
- GEM (2012): Germany's educational system lacks entrepreneurial spirit
 - Barely represented in text books and curricula
 - Inconsistent image of entrepreneurs
 - Deficient early awareness is highest barrier for entrepreneurial propensity

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Born or Made – Personality Research

- Results from Twin Studies
 - Genes and environment impact the personality in multiple, complex and inseparable interactions
 - Genetic predispositions come to effect dependent on environmental influences
 - Similar in personalities = similar genes + similar environment
 - Non-shared environment has a stronger impact on personality development than shared environment
 - Personality development is observable even in adult age, dependent on the depth of the personality trait, age and extent of developing treatment

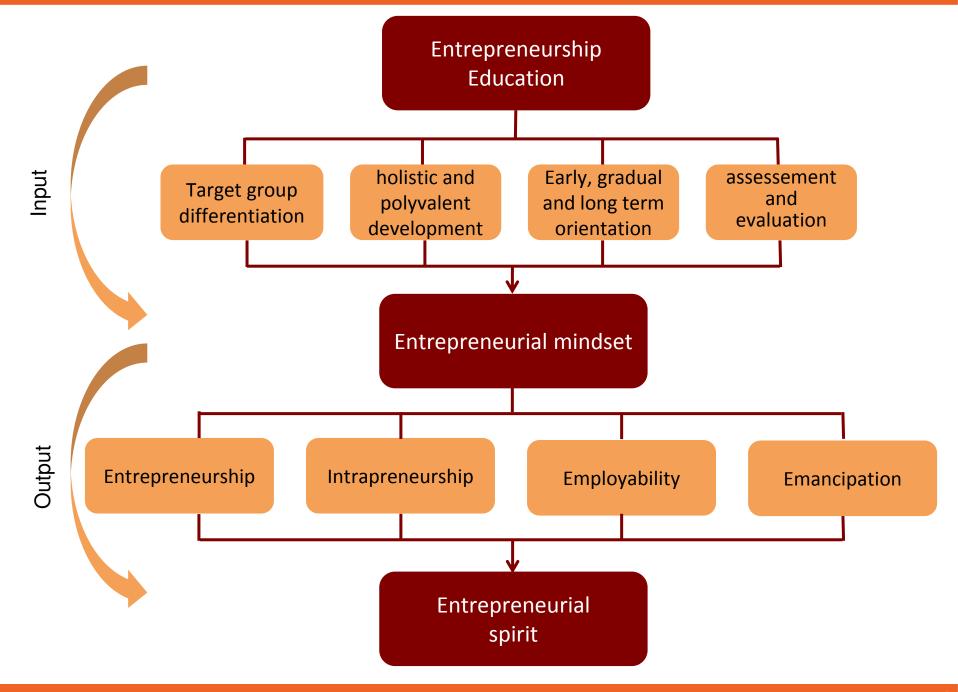
Born or Made – Entrepreneurship Research

- Selection hypothesis vs. adaption hypothesis
- Earlier research favored selection hypothesis, but studies bear methodological deficits:
 - Lack of longitudinal research
 - Disregard of environmental influences

Born or Made – Entrepreneurship Research

- Empirical support for adaption hypothesis:
 - Cultural differences within entrepreneurial personality traits as well as in the definition of entrepreneurial personality
 - Significant effect of methodical trainings for some traits (e.g. need for achievement, self-efficacy, biased cognitive patterns)
 - Development is dependent on the depth of the particular trait and possible until early adulthood
 - Socialization during childhood and adolescent years as most striking influence
 - Longitudinal studies report entrepreneurial personality development during the entrepreneurial activity
- Conclusion: short-term stability and long-term development potential of entrepreneurial personality

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 - 3.1 Desiderata for a holistic entrepreneurship education approach
 - **3.2** Current entrepreneurship education programmes and their evaluation
- 1. How to meet the expectations?



Bijedic (2013), S. 102.0

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Entrepreneurship Education in German schools

- German secondary schools:
 - since late 1990
 - Heterogeneous durations and methods
 - Action oriented programmes
 - Well established within the extra-curricular repertoire
- Goals in secondary schools:
 - multi-disciplinary skills
 - vocational training and orientation
 - entrepreneurial mindset
 - additional qualifications

Evaluation of current Entrepreneurship Education programmes in schools

Students:

- Experiental learning and practical orientation
- Time consuming

Teachers:

- + Suitable alternative for existing programmes for vocational orientation
- + Soft skills
- Action and application oriented economic education
- Time consuming preparation, realization and organization
- Deficient support for implementation

Josten/van Elkan (2010).

Evaluation of Entrepreneurship Education in schools

Positive effects towards:

- Image of entrepreneurship and small business ownership
- Self-efficacy
- Problem solving strategies
- Entrepreneurial propensity

Critical remarks:

- High methodical complexity
- Time consuming and short-term oriented
- Timing does not meet requirements for curricular use
- Strenuous and non-incentivized efforts for teachers
- Action orientation without reflection bears the risk of overconfidence

Josten/van Elkan (2010).

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Don'ts

- Contents
 - Mono disciplinarity
 - Invariable lessons
 - "One concept fits all"
- Methods
 - Action orientation without reflection
 - Action orientation without factual input
 - Factual lectures without practical reference

Don'ts

- Goals
 - No pre-defined goals
 - Non-verifiable goals
 - Output orientation (e.g. start up frequency or propensity)
- Assessment
 - No assessment
 - Assessment without links to goals

Dos

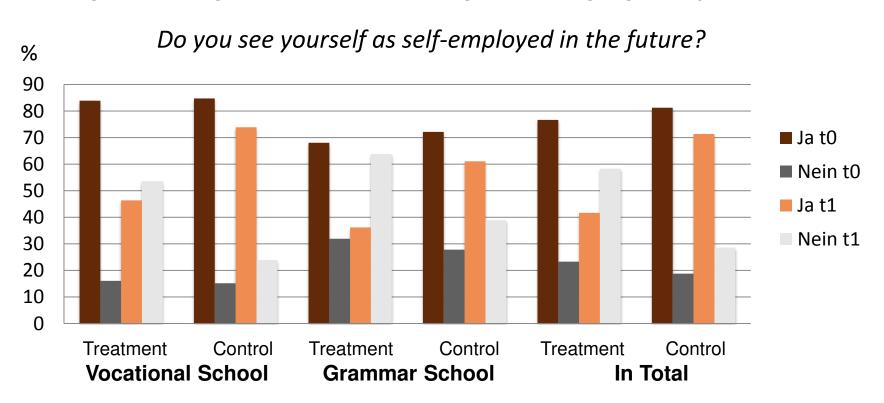
- Contents
 - Modular concepts
 - Modifiable lessons for different groups
 - Contents with links to different subjects
 - Curricular timing
- Methods
 - Method mix suitable for the goals and contents
 - Methods are means to an end, not an end in themselves

Dos

- Goals
 - Subordinate goals according to contents
 - Verifiable goals
- Assessment
 - Valid and standardized assessment methods
 - Education in assessment and treatment effects

Some examples for non-obvious effects

Entrepreneurship education and entrepreneurial propensity



Development of interdisciplinary skills using action orientation:

- Lower rates in the experimental group by self-assessment
- Higher rates in the experimental group by teachers' assessment

Bijedic (2013), S. 340.

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Thank you!

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