14. Kongress für Wirtschaftspädagogik

The Potential of Massive Open Online Courses in Stimulating Intrapreneurship

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What do we know so far? What did we miss? Why bother?

The return of intrapreneurship

- Employees innovating within established organizations Pinchot 1985; Gawke et al. 2017; Bosma et al. 2021
- **Potential** to overcome innovation dilemma Bierwerth et al. 2015; Felicio, Rodrigues & Caldeirinha 2012;
- "Renaissance" of individual level & call for integrated approach Amo 2010; Badoiu et al. 2020; Baruah & Ward 2014; Blanka 2018; Ireland et al. 2009; Neessen et al. 2019

• Intrapreneurship Training

- Agreement on importance e.g. Bacigalupo et al. 2016; Boon at al. 2013; Molina & Callahan 2009; Kuratko & Morris 2018; Thornberry 2001; EC 2016
- Some studies indicate potential e.g. Durand 1975; Nicholson, Shen & Nicholson 2019; Santos & Spann 2011; Thornberry 2003
- however missing conceptual clarity (unclear mix of attributes, complexity, and as "limited" version of an entrepreneur) and no evidence to digital training approaches yet

The advent of Massive Open Online Courses (MOOCs)

- Massive & scalabe Egloffstein & Ifenthaler 2017; Mohamed & Hammond 2018, increased openness & interactivity Chen, Lee & Hsiao 2018; Fidalgo-Blanco, Sein-Echaluce & García-Peñalvo 2016
- On the rise since 2012, now discovering the business learners and corporate elearning Ong & Jambulingam 2016; Park, Jeong & Ju 2018; e.g. Adidas, Audi, Deutsche Telekom, Erste Bank, Google, L'Oréal, McAffee, SAP
- In 2020:
- 110 mio learners & 13,500 courses Shah 2020a
- re-accelerated by the pandemic Rindlisbacher 2020
- +500 entrepreneurship MOOCs Class Central, March 2021
- Research in its infancy Zhu, Sari & Lee 2018: different streams, more empirical research lately, however, no peer-reviewed study on effect of entre- or intrapreneurship MOOCs yet



EDUTAINMENT – OR MORE? In which ways can MOOCs stimulate intrapreneurial intentions on individual-level (employees)?

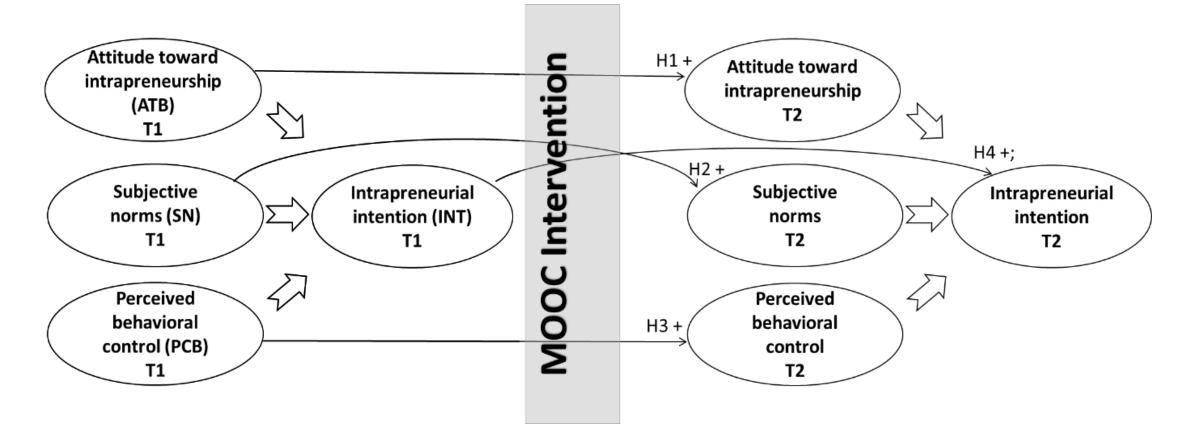
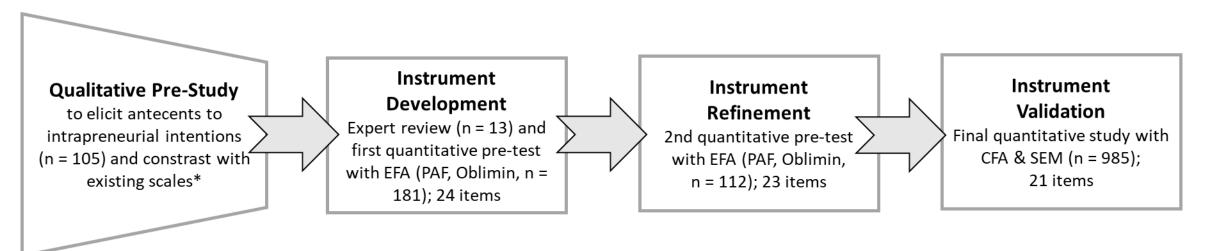


Figure 1 Integrative Model of Assessing the Impact of a MOOC on Intrapreneurial Intention embedded in the Theory of Planned Behavior; T1 = first measurement point at course start; T2 = second measurement point at course end. Source: adopted from Ajzen 1991, vol. 50, p. 182.

Research Design

"In which ways can MOOCs stimulate intrapreneurial intentions among employees?"



Preparation of instrument (study 1 and study 2)

Figure 2: Exploratory sequential mixed methods research design for the instrument development.

* Scales adapted: Corporate Entrepreneurship Assessment Instrument (Hornsby et al. 2002; 2013); Employee Intrapreneurship Scale (Gawke et al. 2019), Entrepreneurial Intention Questionnaire (Liñán & Chen 2009)

Study 3: Implementation in MOOC

- Wilcoxcon signed rank-test (n = 412)
- Longitudinal SEM
- Controlling for initial levels, non-response bias, prior experience

MOOC Intervention: "Intrapreneurship: Employee-driven innovation" on openSAP (11 Feb 2020 - 18 March 2020)

Course Statistics

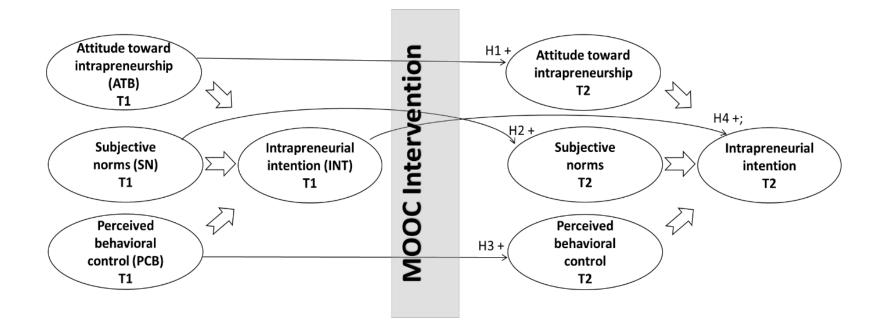
- 2,990 learners enrolled at course start
- 4,596 learners enrolled at course end (grew to 6,311 in self-paced mode)
- 1,075 respondants to pre-course survey
- 485 respondants to post-course survey
- 414 matched data sets (70% of course completers)
- 592 records of achievement (32.4% based on half-way attendance/active learners)
- 850 certificates of completion
- 480 answers to course satisfaction survey: positive learner feedback > 98.3% being (very) satisfied with the course content, net promoter score +62.7 (range from -100 to +100) and an overall course rating of 4.54 out of 5

Demographics

- Average age: 37.3 years
- 92 countries, top 3 India (26.5%), Germany (15.0%) and United States (9.2%).
- Gender: 73.4% male, 24.2% female
- Job levels: employees (35.66%), middle managers (18.32%), trainees (12,39%), lower level managers (11.86%), top-level managers (7.61%), other (5.92%), associates (5.84%) and unemployed (2.39%)

Selected results

- Largest increase in *perceived behavioral control* (+ 28%), especially knowledge-related items (H4 accepted) > more than edutainment?
- Increases in *intentions* and *attitude*, although high at course start and perceived to be more stable (H1 & H2 accepted) > MOOC also a massive pre-selection instrument?
- Non-significant changes in *subjective norms* (H3 rejected), despite co-workers and other departments > changed perception and benefit of interaction?
- Controlled for prior experience, initial levels at course start (autoregressive paths), reciprocal causations only for perceived behavioural control



Limitations: single case study, control group, common method bias

Further research: other courses and formats, MicroCredentials, longitudinal analysis

MOOCs as massive pre-selection instrument?

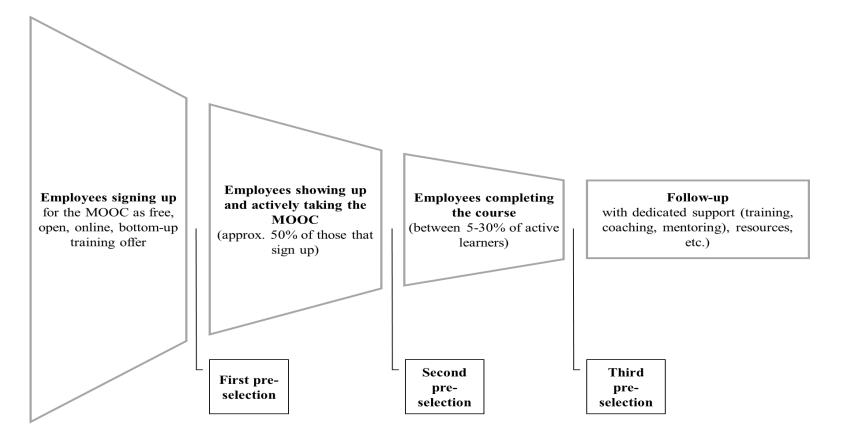


Figure 4: Proposed integrative, massive self-selection and promotion funnel with MOOCs for the self-identification, self-selection and subsequent nurturing of potential intrapreneurs.

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