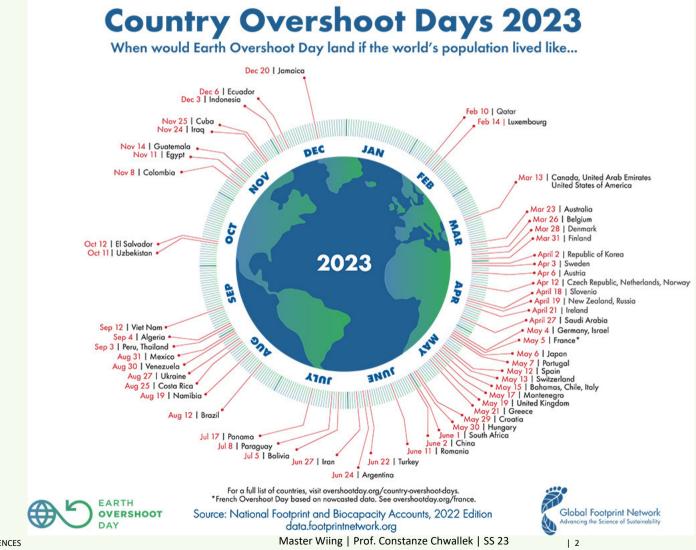
Sustainable Entrepreneurship teaching tools in practice

-Sharing thoughts from Aachen, Gemany-

Prof. Dr. Constanze Chwallek & Lara Nawrath

We have to take Action



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Different Approachs and Mindsets

Public Sector

Manager of well-established Companies

Re-election oriented

Gailmard et al. (2012): ...neglect investing in the future

High Bureaucracy

O'Toole Jr., (2011): ...lack of innovation and slow progress

Risk Aversion

Gailmard et al. (2012): ...avoiding failure

Lack of Competition

Moynihan (2013): ...lack of incentive for improvement

Entrepreneurs

Market Opportunities

Wiklund (1998) : ..taking advantage of opportunity

Out of the Box Thinking

Stevenson et al. (1990) ... without regard to the resources they currently control

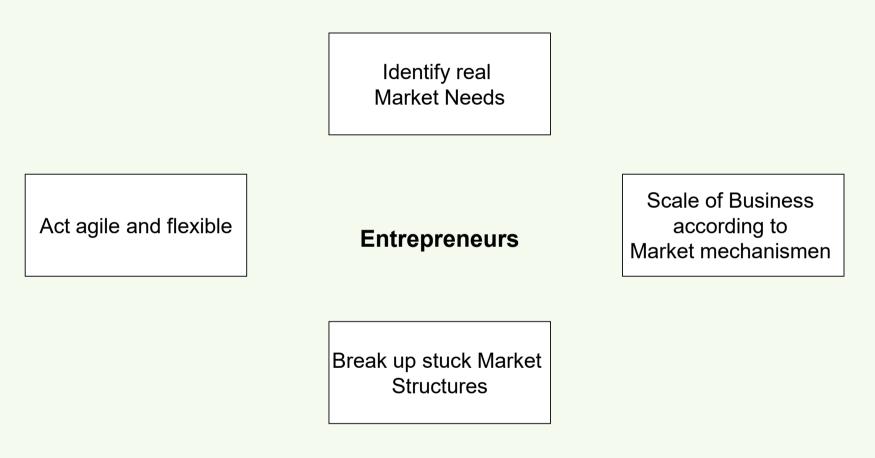
Facing Risk

Zimmerer et al. (2005): ..face of risk and uncertainty

Innovation (Disruption)

Schumpeter 1934: .. "creative destruction"

Entrepreneurship is very well suited to meet the major Challenges



BUT: How can we turn Entrepreneurship to Sustainable Entrepreneurship in our Teaching?

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Two Approaches:



How can the topic of **Sustainability** be taken into Account when developing Business Models? (Constanze)



How can **Sustainability** be the Core of new Business Ideas? (Lara)

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BMC & Sustainable Business Models



How can the topic of Sustainability be taken into **Account when Developing Business Models?**





Extended model of the Business Model Canvas with social and ecological Costs and Gains Osterwalder & Pigneur (2011)



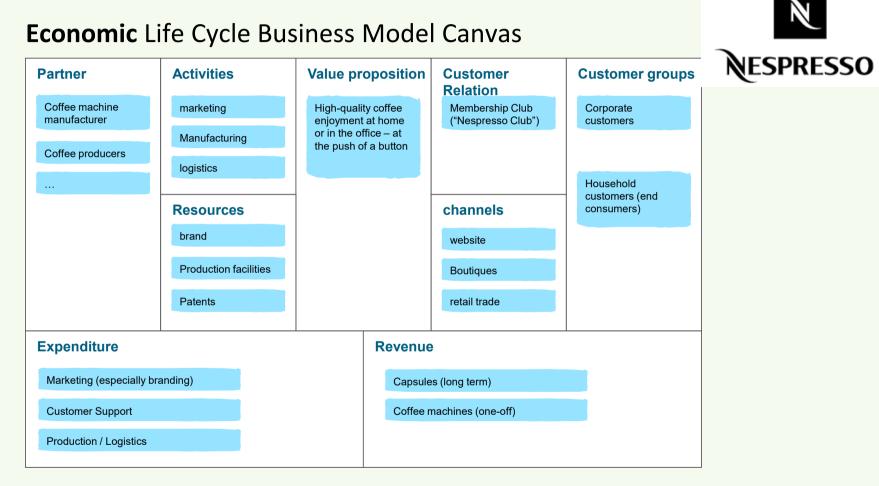
Business Model Canvas for Sustainability Cardeal et al. (2020)





Impacts

- Continuation-



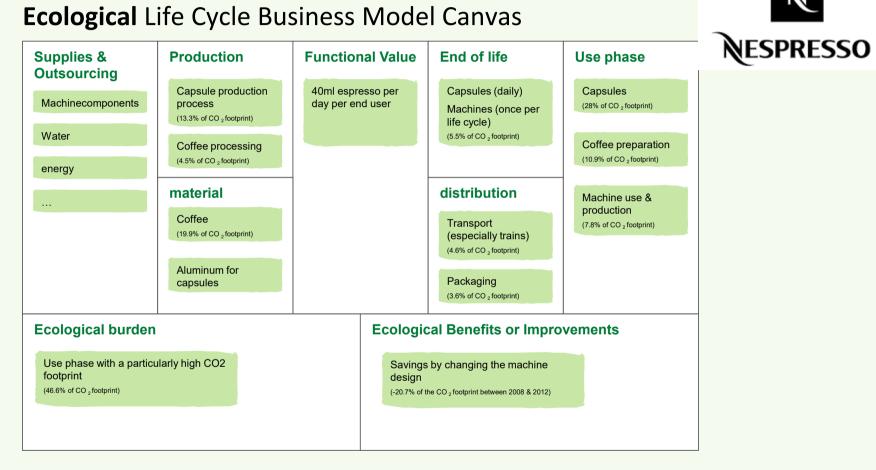
Source: Joyce, A., Paquin, R. (2016). The triple layered business model canvas: A tool to design more sustainable business models. Journal of Cleaner Production, Vol. 135 1474-1486

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-Continuation-



Source: Joyce, A., Paquin, R. (2016). The triple layered business model canvas: A tool to design more sustainable business models. Journal of Cleaner Production, Vol. 135 1474-1486

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-Continuation-

Social Stakeholders Business Model Canvas

Independent						
department	Improving the quality of life of end customers through a tasty and healthy drink		Individuality & flexibility	Taste experience		
Transparent decision-making processes			Responsibility programs	Feeling of warmth		
Employees		• •	Range	Caffeine boost		
Positive workplace with >90 nationalities represented			60 countries world- wide with >300 stores	("wake-up effect")		
Strong relationships with customers(70% customer-facing)			Further training and promotion of the supply chain			
		Social benefits or improvements				
Potential caffeine addiction			Community building that improves the guality of life of participants			
Potential displacement of traditional agriculture and crops			ping farmers through training			
ſ	decision-making processes Employees Positive workplace with >90 nationalities represented Strong relationships with customers(70% customer-facing)	Transparent drink decision-making Developin processes Developin Employees Developin Positive workplace with >90 nationalities represented Strong relationships Strong relationships with customers(70% customer-facing) Developin	Transparent decision-making processes drink Employees Developing mutually valuable and long- term relationships with coffee farmers Strong relationships with customers(70% customer-facing) Developing mutually valuable and long- term relationships with coffee farmers Strong relationships with customers(70% customer-facing) Developing mutually valuable and long- term relationships with coffee farmers Strong relationships with customers(70% customer-facing) Developing mutually valuable and long- term relationships with coffee farmers Strong relationships with customers(70% customer-facing) Commu quality of Developing	Transparent decision-making processes drink Responsibility programs Employees Developing mutually valuable and long- term relationships with coffee farmers Range Strong relationships with customers(70% customer-facing) 60 countries world- wide with >300 stores 60 countries world- wide with >300 stores Strong relationships with customers(70% customer-facing) Further training and promotion of the supply chain Further training and promotion of the supply chain Social benefits or improvement quality of life of participants Community building that improves the quality of life of participants		

Source: Joyce, A., Paquin, R. (2016). The triple layered business model canvas: A tool to design more sustainable business models. Journal of Cleaner Production, Vol. 135 1474-1486

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Two Approaches:



How can the topic of **Sustainability** be taken into account when developing Business Models?



How can **Sustainability** be the Core of new Business Ideas?

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Summer School "Sustainable Entrepreneurship"



Target group: international students from any university



Duration: one week during lecture-free period in summer



Goal: students should learn about the topic of sustainable entrepreneurship and how to build a sustainable startup



Teamwork: participants work in teams that are as interdisciplinary as possible

Summer School "Sustainable Entrepreneurship" - Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
9-10		Design Thinking & Ideation	Exchange of Results	3D Printing and Lasercutter	Exchange of Results
10-11	Welcome	Workshop	Pitch Training	Workshop	Working Phase
11-12	Get to know each other				
12-13	Lunch	Lunch	Lunch	Lunch	Lunch
13-14	Introduction Sustainable	Interview Guide	Exchange with Experts	Working Phase	Finalization
14-15	Entrepreneurship	City Rally &	Working Phase		
15-16	Problem to	Interviews			
16-17	Solution Workshop				Pitches
Evening	City Tour Aachen			BBQ	
Programme	Sustainable Entrepreneurship				

Summer School "Sustainable Entrepreneurship" – Design Thinking method



Method to create innovative business ideas on your solution concept



A problem is nothing bad, it's a chance

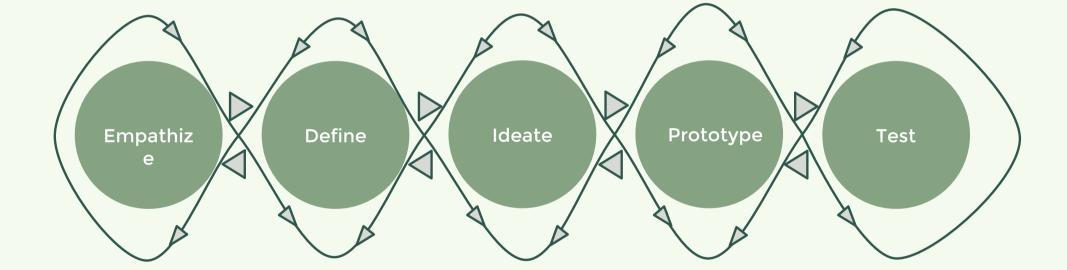


Focusses on creative openness, thinking out of the box and user-centered thinking



Agile process with fixed steps and helpful models and methods

Summer School "Sustainable Entrepreneurship" – Design Thinking method



Summer School "Sustainable Entrepreneurship" – **Design Thinking method** Problem Problem Test Definition Ideate & Prototype **Empathize & Define**

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Summer School "Sustainable Entrepreneurship" - Timetable

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Programme	Sustainable Entrepreneurship				

Summer School "Sustainable Entrepreneurship" – Feedback and Learnings



What did you like the best?

- collaborative atmosphere where we all were able to exchange ideas
- Practical application and workshops
- The processes to understand the problem and diving deep into
- great experience of hands-on learning



What was your key learning?

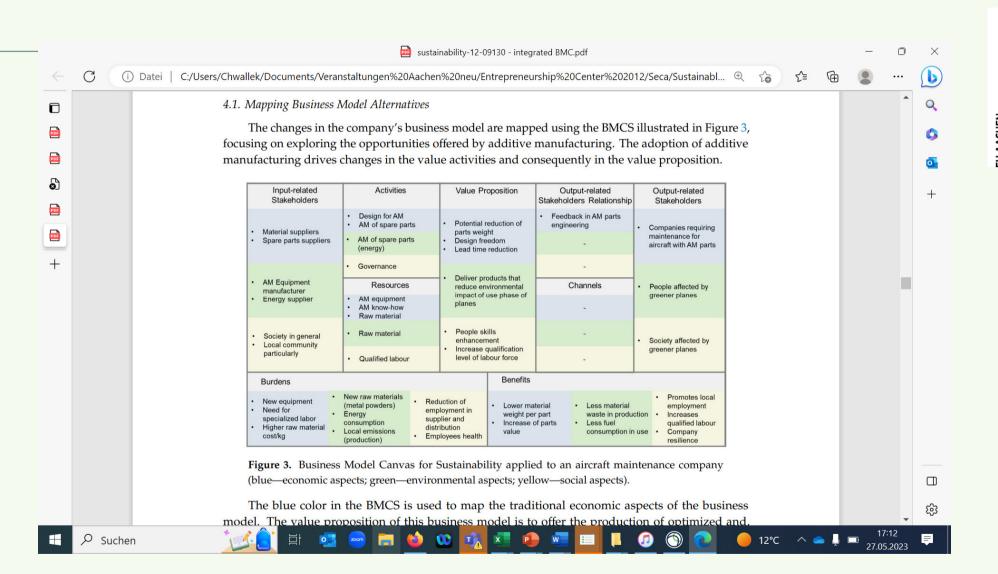
- Developing concrete ideas from broad themes
- Thinking better and deeper and from different perspectives
- Building a business/start up for beginners in the simplest way as possible
- Entrepreneurship is as much about the idea as it is about the people implementing the idea

Summer School "Sustainable Entrepreneurship" – Impressions



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Entrepreneurship is very well suited to meet the major challenges



Market Opportunities: Consumers are increasingly **demanding sustainability** and are willing to pay a premium for appropriate products and services.



Less bureaucratie: Entrepreneurs are not need **to navigate complex political** systems and win elections. They can be more pragmatic and adaptable.



Scaling possibilities: Entrepreneurs can scale their business via market returns and Investors. Market allocation principles at Customer- and Investor side)



Driver for Disruption: push **promising new technologies** that are fostering sustainability.

BUT: how can we turn Entrepreneurship to sustainable Entrepreneurship in our teaching?

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