



The Limits to Growth: Sustainability and the Circular Economy

Lecture 10: Beyond the Circular Economy I

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INTRODUCTION





Introduction CE Recap

• Goals of the CF:

- Maintain natural resources and minimize the discharge of substances that are harmful to health and nature
- Ecological modernization of the economy to increase resource efficiency, e.g., by technical innovation and digital solutions
- Products/services designed and constructed in such a way, that they can be returned to the economic and material flows at any time with little financial and energetic effort
- Increase/maximize utilization of resources, e.g., Performance Economy

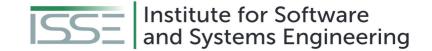




Introduction CE Criticism

- Replace the LE with circularly oriented forms of consumption and production
- CE focus mostly on earned value management ("Wertschöpfungsmanagement"), product-service systems, product/business model innovations within existing power asymmetries
- Decouple economic growth and consumption of natural resources





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 - → But why do we need never ending economic growth and why is it good to consume as many goods and services as possible?





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- Decouple economic growth and consumption of natural resources
 - → But why do we need never ending economic growth and why is it good to consume as many goods and services as possible?
- Alternatives:
 - Sufficiency strategies and lifestyle changes
 - Question the prevailing entrepreneurial orientation towards the shareholder concept
 - Deconstruction of existing power and hegemonic relations





ECO-SUFFICIENCY





Eco-Sufficiency Eco-Efficiency - Definition

Eco-Efficency →





Eco-Sufficiency Eco-Efficiency - Definition/Example

<u>Eco-Efficency</u> \rightarrow Minimise the material input required to achieve a certain economic result, i.e. to improve the ratio between the use of resources and the production of goods.

• Example:





Eco-Sufficiency Eco-Efficiency - Definition/Example

<u>Eco-Efficency</u> \rightarrow Minimise the material input required to achieve a certain economic result, i.e. to improve the ratio between the use of resources and the production of goods.

 Example: A car that consumes 3 liter per 100km is 2x more ecologically efficient than a car that consumes 6 liter.





Eco-Sufficiency Eco-Consistency - Definition

Eco-Consistency →





Eco-Sufficiency Eco-Consistency - Definition/Example

<u>Eco-Consistency</u> \rightarrow *Ecological consistency is based on the damage intensity and environmental impact of the resources used. Instead of reducing their quantity, their nature or the product design should be optimised so that no emissions or waste are produced, regardless of the level of consumption* \rightarrow i.e., Circular Economy

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Example: A battery electric vehicle (BEV) that runs on green energy (e.g., solar/wind/etc.)





Eco-Sufficiency Efficiency + Consistency - Example

- Example:
 - First, minimize the fuel/energy consumption of a car
 - Second, operate the car with carbon-neutral fuel/energy









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Sufficiency → **All you need is less**





Scenario:

- Size: 120m²

Heat demand: 130 kWh pro m² and year





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- Consistency: Minimize ecological damage by choosing the most sustainable way of heating
- Sufficiency: Live in a smaller apartment (or utilize less space per person)





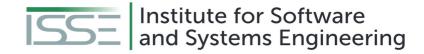
- Problem(s):
 - Efficiency and consistency allow us to either:
 - a) continue living a nice life using less resources
 - b) Live even more comfortably using the same amount of resources



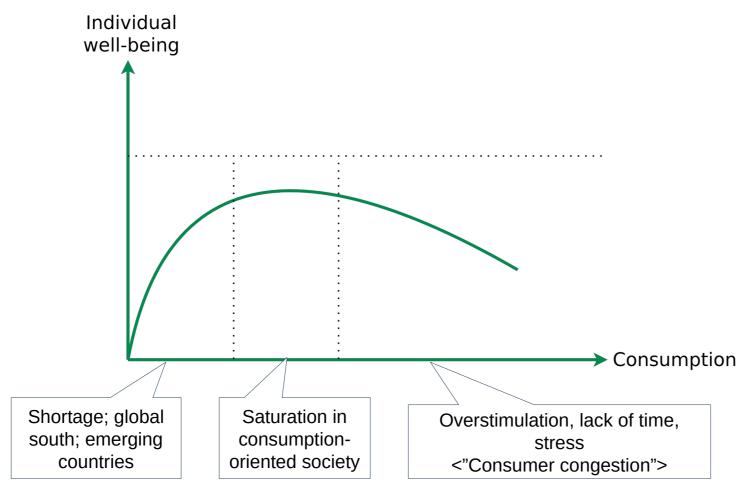


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 - Efficiency and consistency allow us to either:
 - a) continue living a nice life using less resources
 - b) Live even more comfortably using the same amount of resources
 - They promise to maintain your individual freedom (of choices) by fixing ecological challenges/downsides using technological/political action
 - Also personal responsibility by buying yourself out of this mess → just buy high-prices eco-friendly products and everything will be fine. No need to consume less.





Eco-Sufficiency Sufficiency vs. Overconsumption







DETOUR





Detour Sustainability

Sustainability → **Consume less**

Consume less → Less money spend, i.e. lower living costs?





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- Lower living costs → Less work hours required cover costs, e.g., 20h work week?





Detour Sustainability

Sustainability → **Consume less**

- Consume less → Less money spend, i.e. lower living costs?
- Lower living costs → Less work hours required to cover costs, e.g., 20h work week?
- Technological advances reducing workload even further?





Detour 15h Work Week

John Maynard Keynes predicted a 15h work week in his 1930 essay "Economic Possibilities for our Grandchildren"





Detour

Why am I working 40+h a week?

- Lively debates pertaining to Keynes prediction especially among economists.
- Main problem: Keynes did not account for the massive increase in consumerism → Majority of people chooses more toys and pleasure over less work hours





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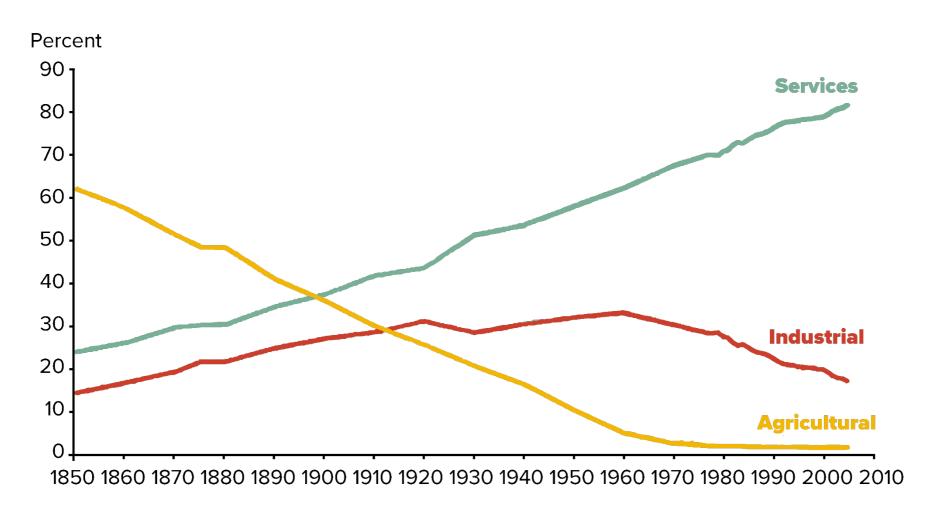
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 \leftrightarrow

Contradicts our sustainability paradigm (consume less).



Detour Shift in Labor Force 1850 - 2010







Bullshit Job - Essay and Book by David Graeber

Essay: On the Phenomenon of Bullshit Jobs: A Work Rant (2013) - Link

Book: Bullshit Jobs: A Theory (2018)





Detour Bullshit Job - Definition

"Form of paid employment that is so completely pointless, unnecessary, or pernicious that even the employee cannot justify its existence even though, as part of the conditions of employment, the employee feels obliged to pretend that this is not the case."

D. Graeber (2013) - On the Phenomenon of Bullshit Jobs - Essay - Link





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→ Inefficiencies in capitalism?





Detour Bullshit Jobs - Categories





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• <u>Flunkies:</u> Serve to make their superiors feel important, e.g., receptionists, administrative assistants, door attendants, store greeters, makers of websites whose sites neglect ease of use and speed for looks





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- <u>Taskmasters:</u> Create extra work for those who do not need it, e.g., middle management, leadership professionals

D. Graeber (2018) - Bullshit Jobs: A Theory





Detour Bullshitization

Transition of a meaningful job into a bullshit job through corporatization, marketization or managerialism.





Detour Changes in full-time staff size and student enrollment (1976-2011 and 1976-2018)

	1976	2011	% change 1976–2011	2018	% change 1976–2018
Faculty	434,000	762,114	+76%	832,119	+92%
Executive/Administrative	97,003	231,602	+139%	255,881	+164%
Other Professionals	150,319	699,867	+366%	830,189	+452%
Nonprofessional Staff	630,511	742,445	+18%	631,675	+0.19%
Student Enrollment	11,012,137	21,010,590	+91%	19,645,918	+78%









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Detour Bullshit Jobs - Why?

Assumption → Capitalism does not allow for inefficiencies





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(Oxford Dictionary)



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 - The pains of dull work as a justification for the ability to fulfill consumer desires
 - Fulfilling those desires → Reward for suffering through pointless work
 - Bullshit jobs also serve political ends, in which political parties are more concerned about having jobs than whether the jobs are fulfilling.
 - Also → Populations occupied with busy work have less time to revolt

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Detour Bullshit Jobs - Now What?



Detour Bullshit Jobs - Now What?

 Graeber's solution → Universal Basic Income (UBI) → Livable benefit paid to all, thus letting people work at their leisure

D. Graeber (2013) - On the Phenomenon of Bullshit Jobs - Essay - Link





Additional Resources

- Manfred Folkers, Niko Paech (2020) All you need is less
- David Graeber. Debt: The First 5000 Years (2011).
- David Graeber. On the Phenomenon of Bullshit Jobs Essay (2013) <u>Link</u>.
- David Graeber. Bullshit Jobs Book (2018).





Questions?