

Circular Business Models from the Client's perspective

RISE Circular |Business| Lab

Josefina Sallén

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Josefina Sallén: Transition to sustainable and profitable business models





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Superpower: Talk into action





























Today

- 1. Why is circular economy important? Why now?
- 2. -Resources will be the new Black © Not a question of if but how
- 3. (Climate, supply, digi/Al, legal)
- 4. What is it? AND what is a circular business model? And why is that important?
- 5. Value preservation. The CBM create, capture and preserve value. A shift of focus fo after the X.
- 6. And why is it relevant to be a "circular client"?



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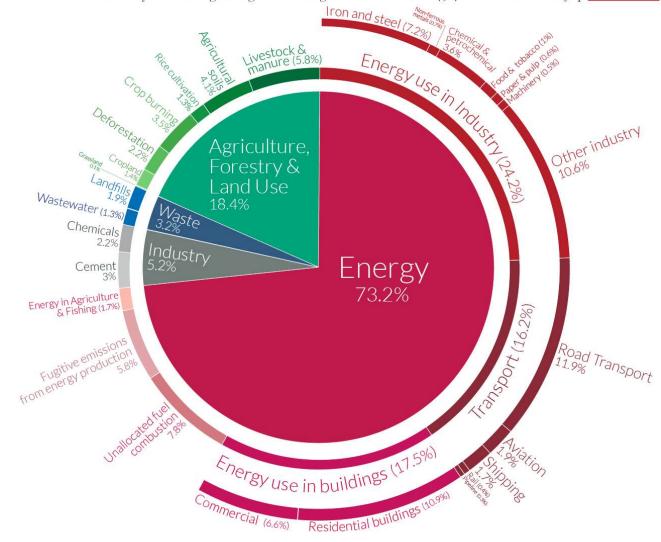
45%

55%

Global greenhouse gas emissions by sector



This is shown for the year 2016 – global greenhouse gas emissions were 49.4 billion tonnes CO₂eq.

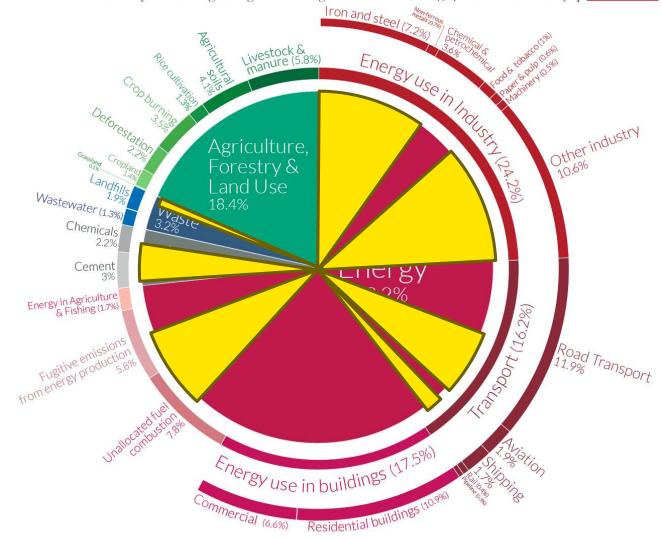




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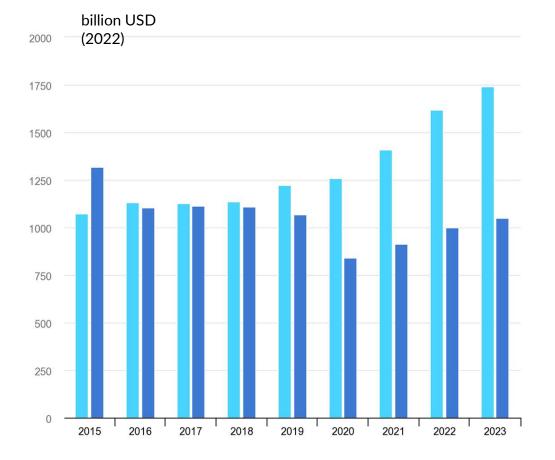
Half is energy embedded in physical artifacts = products



Global investments in clean energy surpasses the ones in fossil fuels since 8 years

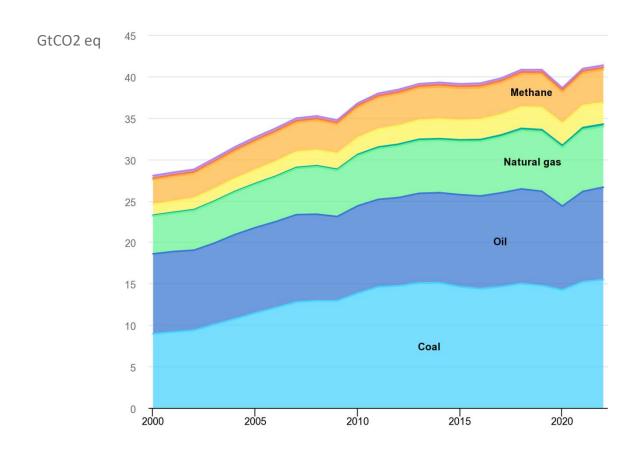


Clean energyFossil fuels





Despite 10 000 billion USD investments, during the past 8 years, GHG emissions continue to increase



IEA, Global energy-related greenhouse gas emissions, 2000-2022, IEA, Paris https://www.iea.org/data-and-statistics/charts/global-energy-related-greenhouse-gas-emissions-2000-2022, IEA. Licence: CC BY 4.0





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A look at resource usage



The triple planetary crisis

55% GHG 40% particle emissions 90% loss of biodiversity

Extraction of resources 3X since 1970...





...while productivity is on a constant level





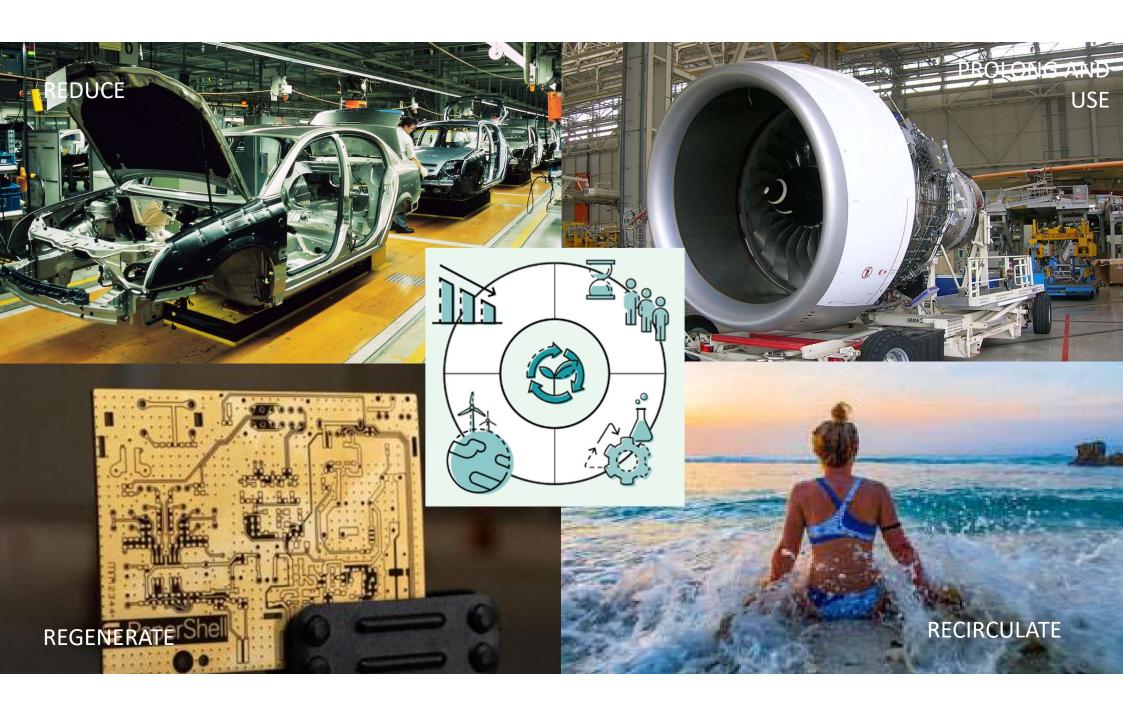












Airconditioning – an illustration on how we use the world's resources

- By 2050, it is expected that there will be 1 billion air conditioning units in India alone. Worldwide installations could increase from 2 to 6 billion.
- Fans and air conditioning account for 20% of global electricity consumption, with Mumbai at 40%.
- Air conditioning is responsible for 9% of global GHG emissions today.
- These systems often underperform due to poor management, with a global average of 20-40%.
- Not unusual with 35-50% of installations never used because the need was overestimated.

Climate change, increased prosperity, and poor use of IoT/AI for management and forecasting lead to drastically poor resource utilization and strain on global resources.

Source: IEA, EMF, INSEAD



A circular business model

Generates revenue through preserving value over time, and encourage high usage of the resources

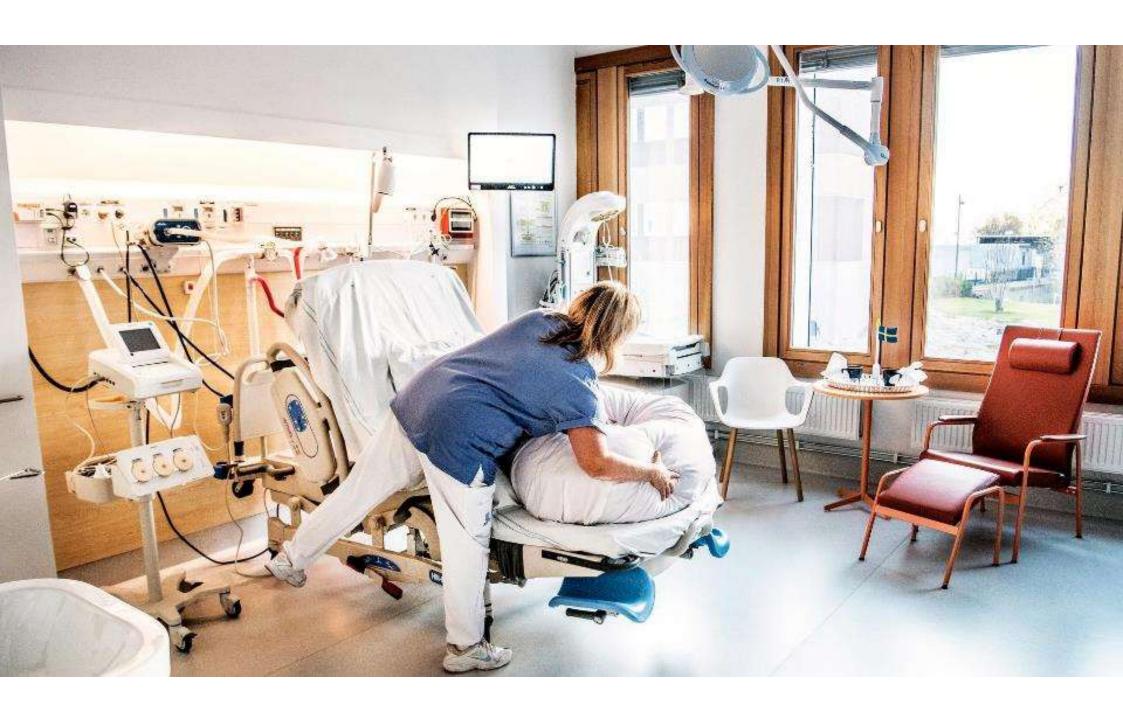
Eg PAAS, take-back, subscription, sharing



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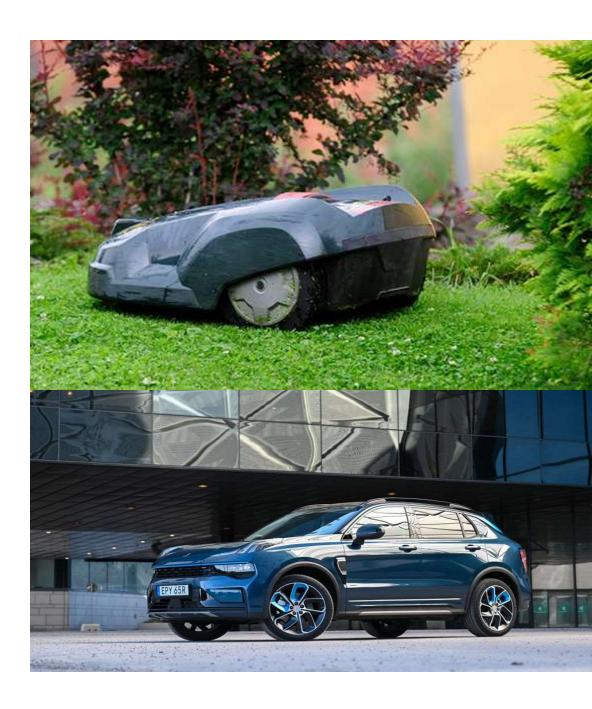
From the client's perspective





Simplicity

- Hassle free ownership
- Service offering better, easier, better organised (because the company owning the product WANT it to be served and WANT the interaction with the user)



Down time reduction

- Key components
- Data collection and advanced analysis
- Close collaboration





Flexibility

- Modifications over time
- Technical development over time
- Variation in need/use over time eg seasonal variations



Short contracts

- Subcontractors that have contracts that might alter over time
- Need to move equipment around
- Varying volymes of equipment required





Avoid investment – Capex to Opex

- Limited access to financing
- Targets
- Reduce balance sheet
- Access not possible to buy



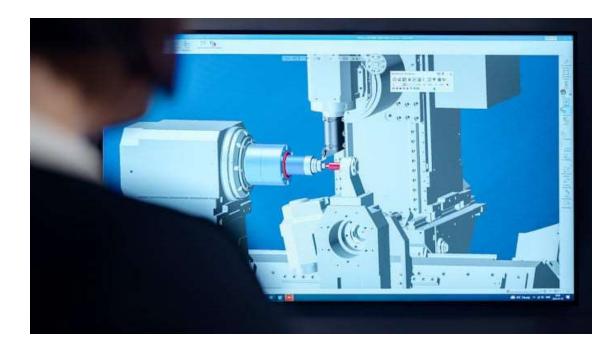
Innovations and new technology

- Risk reduction with possible fast development
- Test new usage and surrounding work procedures



Usage optimisation

- Data collection
- Adaptive learning over time for optimised usage







Some examples of successful circular business models



M-Use

- Elevator as a service
- Replace the initial high investment cost with a defined running annual fee
- Reduced risk for high renovation costs





Philips 25% of revenues from circular offerings 2025

Our ambitious circular economy objectives for 2025

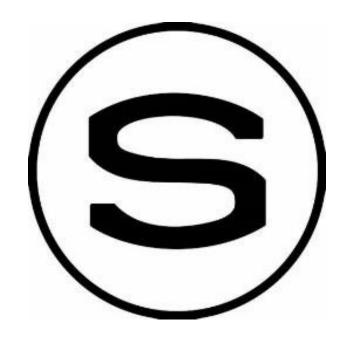
We have set ourselves a number of challenging targets for 2025

- Generate 25% of our revenue from circular products, services and solutions
- Close the loop by offering a trade-in on all professional medical equipment, and taking care of responsible repurposing.¹
- Further embed circular practices at our sites² and send zero waste to landfill





Sustainable coffee machines - Scanomatic









When to go for a circular offer – pay for value

Flexibility

- Modifications over time
- Technical development over time
- Variation in need/use over time eg seasonal variations

Hassle-free

- Service, support etc included
- Modify when needed

New technology/innovation

- Risk reduction in uncertainties eg fast product development
- Test/try out solution

From Capex to Opex

• If you can not afford the investment to buy eg equipment, apartment, car

Optimised use

 When data of usage is captured and the equipment can be optimised for the use



Josefina Sallén

Josefina.sallen@ri.se +46 72-208 93 60

