

Welcome

to

Seven steps to circular procurement

Why?

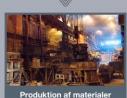
ENVIRONMENT

1,032,135	Forest loss this year (hectares)	[+]
1,389,532	Land lost to soil erosion this year (ha)	[+]
7,218,963,124	CO2 emissions this year (tons)	[+]
2,381,608	Desertification this year (hectares)	[+]
1,943,467	Toxic chemicals released in the environment this year (tons)	[+]
ENERGY		
207,862,559	Energy used today (MWh), of which:	[+]
176,944,348	- from non-renewable sources (MWh)	[+]
31,302,289	- from renewable sources (MWh)	[+]
1,302,477,126,319	Solar energy striking Earth today (MWh)	[+]
42,632,565	Oil pumped today (barrels)	[+]
1,444,738,802,835	Oil left (barrels)	[+]
15,067	Days to the end of oil (~41 years)	[+]
1,083,230,614,183	Natural Gas left (boe)	[+]
57,012	Days to the end of natural gas	
4,297,224,938,026	Coal left (boe)	[+]

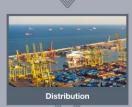
148,180 Days to the end of coal

Worldometer - real time world statistics (worldometers.info)

Udvinding af råvarer







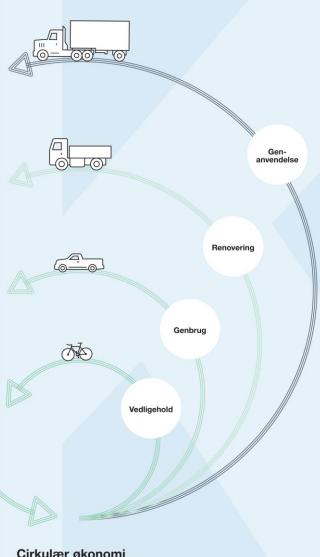




Lineær økonomi

Forbrænding

Vejen mod en hverdag uden affald



Cirkulær økonomi

Vores høje levestandard trækker på naturens ressourcer. Derfor skal vi kaste kritiske øjne på vores forbrug. Cirkulær økonomi er et opgør med den traditionelle lineære økonomi, hvor vi har udvundet råstoffer til et produkt, der er blevet solgt til forbrugeren, som efter noget tid har smidt produktet ud igen. Den cirkulære tankegang handler blandt andet om, at de ting, du køber, skal være

produceret af genbrugte materialer. Vi skal altså vænne os til, at alting ikke er spritnyt. Dermed kan vi spare både ressourcer og udledning af CO, i en cirkulær økonomi.





CO2















Effect

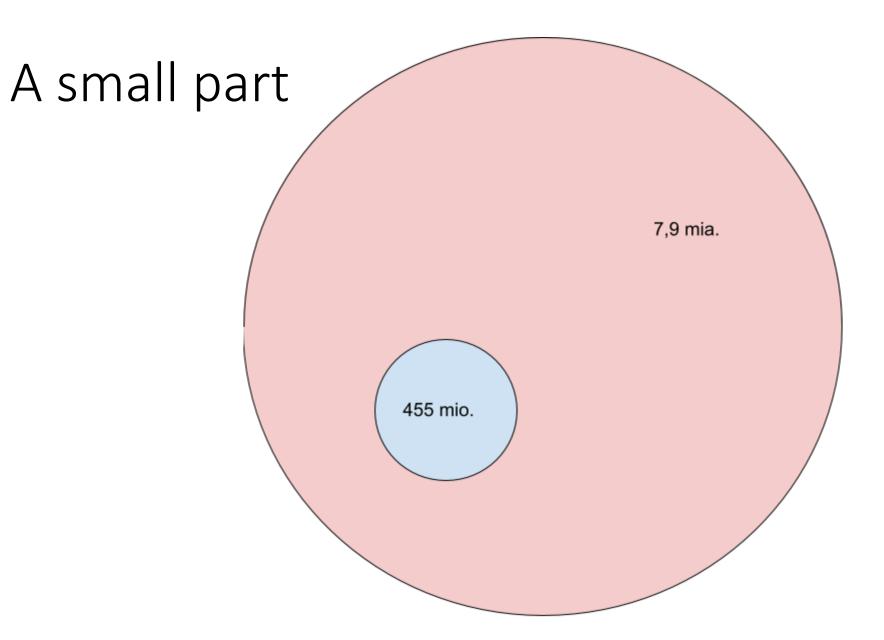














Supplier demands 7,9 mia. 455 mio.



Supply chains 7,9 mia. 455 mio.



Supply chains 7,9 mja. 455 mio.



The chain makes the difference

- Biodrgradable is good right?
- What is the most likely user scenario?
- Why?

Et spørgsmål til jer mine skarpe kollegaer: hvordan sorteres denne pose? Stregkode kan ikke pilles af





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Rapport (forbrugerombudsmanden.dk)

Choice change markets





- Choice of goods
- Dialog with suppliers





Challenges

...about circular transitions



ProCirc Minimum Circular Requirements

Seven steps to circular procurement



The buyers journey



- 1. Creating a support base in your organization
- 2. Setting requirements
- 3. Market engagement
- 4. Specification & engagement
- 5. Evaluation of the offers
- 6. Contract management
- 7. Evaluation

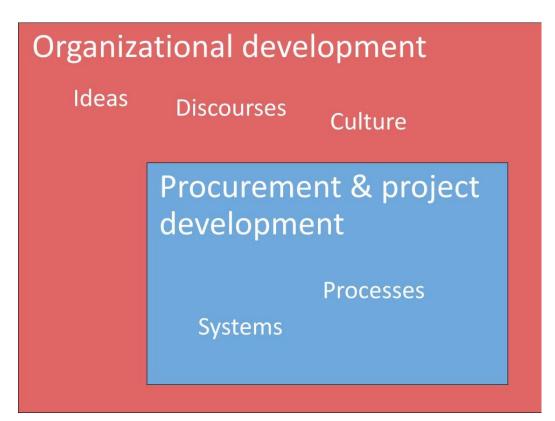


The buyers journey



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Two main phases



If we're not moving forward, we are falling behind



The buyers journey

Kolding Kommune en del af trekantomraadet

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Organizational development

- 1. Creating a support base in your organization
- 2. Setting requirements
- 3. Market engagement

Procurement and project development

- 4. Specification & engagement
- 5. Evaluation of the offers
- 6. Contract management
- 7. Evaluation



Organizational development



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Four opportunities for developing ideas, discourses & culture

- Pre project
- Design process
- Execution
- Implementation



Creating a support



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 Align circular procurement with the values og the agent whos support you want.

Case: Rethinking the Waste Station & New office building



Setting requirements



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North Sea Region

Two very different standards

- We want more sustainability in our construction project
 - Rethinking the Waste Station
- 100% of the building materials must be recycled
 - New office building

These requirements affect every future aspect of the project. Vague requirements can benefit flexibility and experimentation, put clear and ambitious criteria create out of box thinking, far better results and better contract management and evaluation.

Market engagement



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North Sea Region

- Focusing on price and good basis for collaboration with no clear criteria for sustainability at this point.
 - Rethinking the Waste Station
- Setting the conditions for the project before going into a market dialog, to force ourselves and the suppliers to collaborate on how to solve the challenge.
 - New office building

The requirements guide the questions you ask your advisors and suppliers, and this in turn affect the project outcome.

Procurement



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Three approaches to developing systems and processes in projects and circular procurement

- Incremental
- Radical
- Developmental



Specification & engagement



- <u>Incremental</u>: Using standard contracts with price as the defining factor. Focusing on sustainability in the process and not in the tender itself.
 - Rethinking the Waste Station
- Radical: Setting the conditions for the tender high to narrow the number bidders to the businesses with the most sustainable processes. Thus rewarding businesses that strive to achieve better results.
 - Insulation waste tender
- <u>Developmental</u>: Setting criteria in the contract that focus on development. This
 will bring every bidder to the desired level of sustainability by the end of the
 contract.
 - Still need testing in Redux



Evaluation of the offers



- <u>Incremental</u>: Looking at price as the sole determining factor.
 - Rethinking the Waste Station
- <u>Radical</u>: Using a standardized formula to evaluate the different criteria, using standardization to make both price and qualitative evaluations comparable. Good documentation is very important here if you are a public entity.
 - Purchasing a suction system for hazardous waste facility & New office building
- <u>Developmental</u>: Looking at price as the sole determining factor, but with funds set aside as a reward for satisfactory contract completion. It is also an option to include a penal structure for failure to complete certain deliverables on time.
 - Still need testing in Redux



Contract management



- <u>Incremental</u>: Focusing on budget management and looking for opportunities to include sustainability ad hoc. This makes it difficult to produce a high level of sustainability in the project, but affords a high level of flexibility for experimentation.
 - Rethinking the Waste Station
- Radical: Focusing on the criteria and deliverables already set in the contract. This creates a high level of sustainability, but with less project flexibility.
 - New office building
- <u>Developmental</u>: Using milestones or clear deliverables as determining factors for rewarding or penal action. There can be no doubt or loop holes on deliverability completion, as this incentivize continuous struggles and debates.
 - Still need testing in Redux



Evaluation



- <u>Incremental</u>: Successful project completion is the overall goal here. Staying inside the allotted parameters of budget, quality and time. Evaluation the project deliverables and criteria for success in the classic project fashion.
 - Rethinking the Waste Station
- <u>Radical</u>: Sustainability (or whatever key criteria was used) takes precedence over the classical project measurements. The key is to understand how this new approach affects the classical project measurements to create better predictability in the future.
 - New office building
- <u>Developmental</u>: Deliverables and milestones are surly important here, but focus will be on improving supplier development along with the process of contract management.
 - Still need testing in Redux



Next steps



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North Sea Region

- ProCirc will continue to develop this model and the end result is a tool that can be used by procurers.
- By mapping needs, risks and solutions from real projects, the tool is firmly grounded in praxis.
- Current work focuses on making all of this information easy to comprehend and understand.
- The goal is to make it easy to become aware of the needs for each phase, be aware of likely risks and how to mitigate them, and find a tool that can help.

How to get started?



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Evaluate your starting position and take the first/next step

- 1. How do you create a support base in your organization?
- 2. How do you set better requirements?
- 3. How can you improve market engagement?
- 4. How do we create better specification & engagement?
- 5. How can we evaluate the offers better?
- 6. How can we improve our contract management?
- 7. How do we improve evaluation?





Working with circular procurement

Use the tools in you company.

Assignment 1 – 5 minutes



- 1. How do you create a support base in your organization?
- 2. How do you set better requirements?
- 3. How can you improve market engagement?
- 4. How do we create better specification & engagement?
- 5. How can we evaluate the offers better?
- 6. How can we improve our contract management?
- 7. How do we improve evaluation?



Assignment 2: 25 minutter

How can you begin setting demands with the guide to basic circular procurement

<u>EU-project ProCirc – Get</u> <u>started with circular</u> <u>procurement (kolding.dk)</u>

Guide til grønne indkøb Design Indtænk Vi har reduceret, eller helt Jeg har undersøgt Produktet er lavet af Produktet kan indstilles Der er allerede et produkt Tilbud er indhentet på Produktets levetid kan undgået, dette indkøb. brugernes behov for at bæredygtige materialer så det kan tilpasses den i organisationen, der kan basis af den totale økonomi forlænges (ikke-teknologisk) Vi fandt ud af, at indkøbet sikre, at produktet matcher (materialer, der ikke enkelte bruger og/eller bruges til formålet, så det for produktets levetid i gennem reduceret og/eller er ikke nødvendigt at købe forhold til fx indkøb, ikke længere tjener et formål behovet. indeholder skadelige tiltænkt brug. bedre brug. stoffer for hverken eller at vi kunne forbedre reparation og vedligehold (TCO eller Total Cost of mennesker eller miliø) processen eller logistikken Den totale økonomi for Jeg har været i dialog med Produktet er designet, så Ownership). omkring den opgave, det produktets levetid (indkøb, var tiltænkt relevante aktører på det er nemt at vedligeholde Det giver mening at købe reparation og vedligehold) markedet for at afdække Produktet er lavet af og reparere. produktet brugt. er bedre end ved cirkulære potentialer og fornybare materialer (fx træ Teknologi og/eller datakonkurrerende produkter eller andre vedvarende Produktet kan købes som samarbeide om at matche indsamling kan integreres brugernes behov. ressourcer en service (for at kortlægge korrekt Produktet er designet på Produktet kan sælges en måde, der gør det nemt brug, optimere vedligehold, Det er muliat at opgradere brugt, når det er en fordel tilgængelighed, lokation, og optimere produktet efter Produktet kan lejes/lånes Produktet er CO2-neutralt. Jeg har undersøgt, om der at gøre dette. er lettere at genanvende. varedeklaration mm.). køb for at imødekomme for en kortere periode. er andre brugere med nye behov i fremtiden. samme behov og været i Produktet har en positiv dialog med dem om mulig-Når produktet er udtjent, Produktet er lavet af Brugeren af produktet skal Produktet kan lejes som en CO2-effekt. heden for fælles indkøb. kan det genanvendes, da Produktets reklamationsre genanvendelige materialer. oplæres for at fremme den "pay per use"-løsning det er lavet af genhar så lang tidsperiode, at korrekte brug og undgå anvendelige materialer. den matcher produktets feilanvendelse Produktet, samt Jeg har fået cirkulære Når produktet er udtient. forventede livstid. Produktet kan købes med produktion og transport indkøbseksperter til at lave kan det genanvendes, da en cirkulær tilbagetagningsen analyse for bedre at af dette lever on til det er lavet af genanvendeordning. Dette kan også kunne udnytte de cirkulære organisationens Produktet har en reklamalige materialer. være i producentens overordnede visioner for potentialer. tionsret, der også dækker interesse, da det bidrager den grønne omstilling. udskift af dele samt til en grøn profil. vedligehold.





Rethinking the recycling station



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91/97 lamps converted to LED

35% recycled asphalt rather than the norm of 30%

60 reused windows

Former office building was reused in constructing the new building

100 % of the isolation, 85 % of the wood, most doors and windows

I have researched the needs of the users to ensure that the product matches this.

I have been in dialogue with relevant players in the market, to uncover circular potentials and collaborate to match users' needs.

48

The product is made from "healthy" materials i.e. materials containing no harmful substances (e.g. to humans or environement).

200

The product can be adjusted so that it can be adapted to the individual user and / or the intended use.

1 The product is produced

from recycled material.

1

Digital technoloy and/or data collection can be integrated (e.g. for mapping usage and maintenance optimization, accessibility, positioning, wear, material content etc.).



Procurement of electric vehicle



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Needs analysis showed that the car was in use 35,8% of the workday on average.

Max 67,1% - minimum 14,3%

Change praxis around vehicle use and avoided procurement.

We have limited or avoided the purchase, because we found out that it no longer provided a benefit or because we improved the process, logistics or job it was intended for.

I have researched the needs of the users to ensure that the product matches this.



How can you start creating better criteria for success with the tool?



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Chose something you are working on now or something you buy often as a case.





Next steps

25 minutter

Assignment 3 – 5 minutter



- Which three small steps can you take, to start using the knowledge you have aquired today in you organization?
- Think about what you can get done in a week in two weeks and within a month.





Thank you