

RE:

SOURCE

Mätetalet C

Hur mycket av den här produkten har cirkulerat?

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Who?



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Statistiska centralbyrån
Statistics Sweden



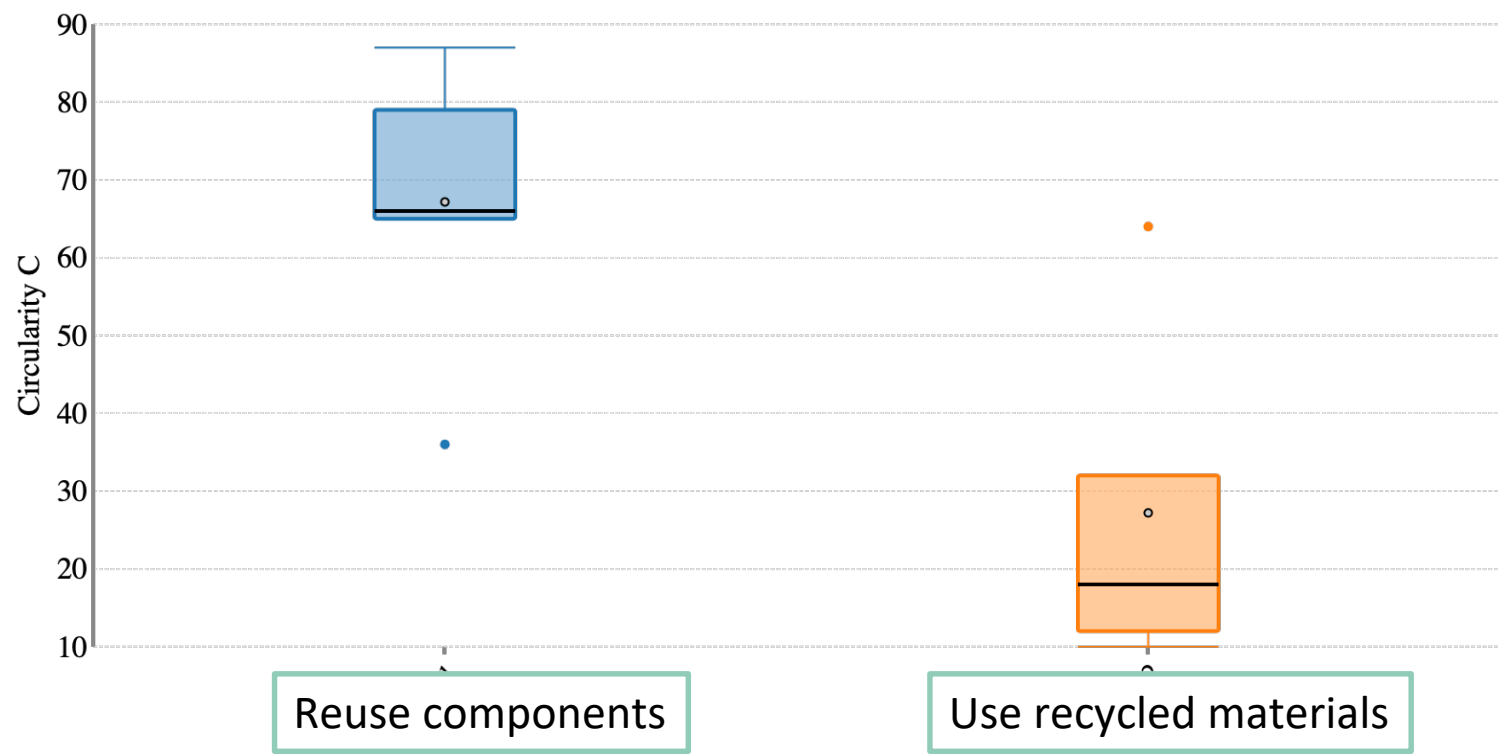
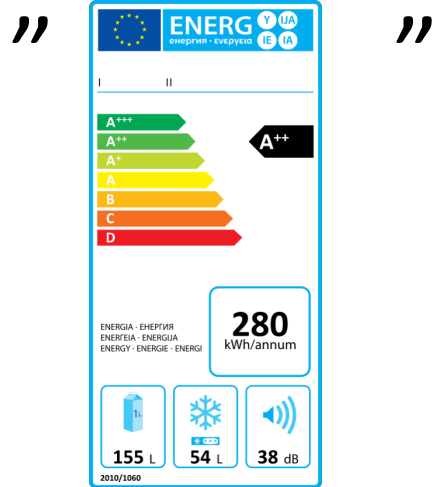
+ Marianne och Marcus Wallenbergs forskningsstiftelse
+ RISE Cirkulär omställning

Resultat

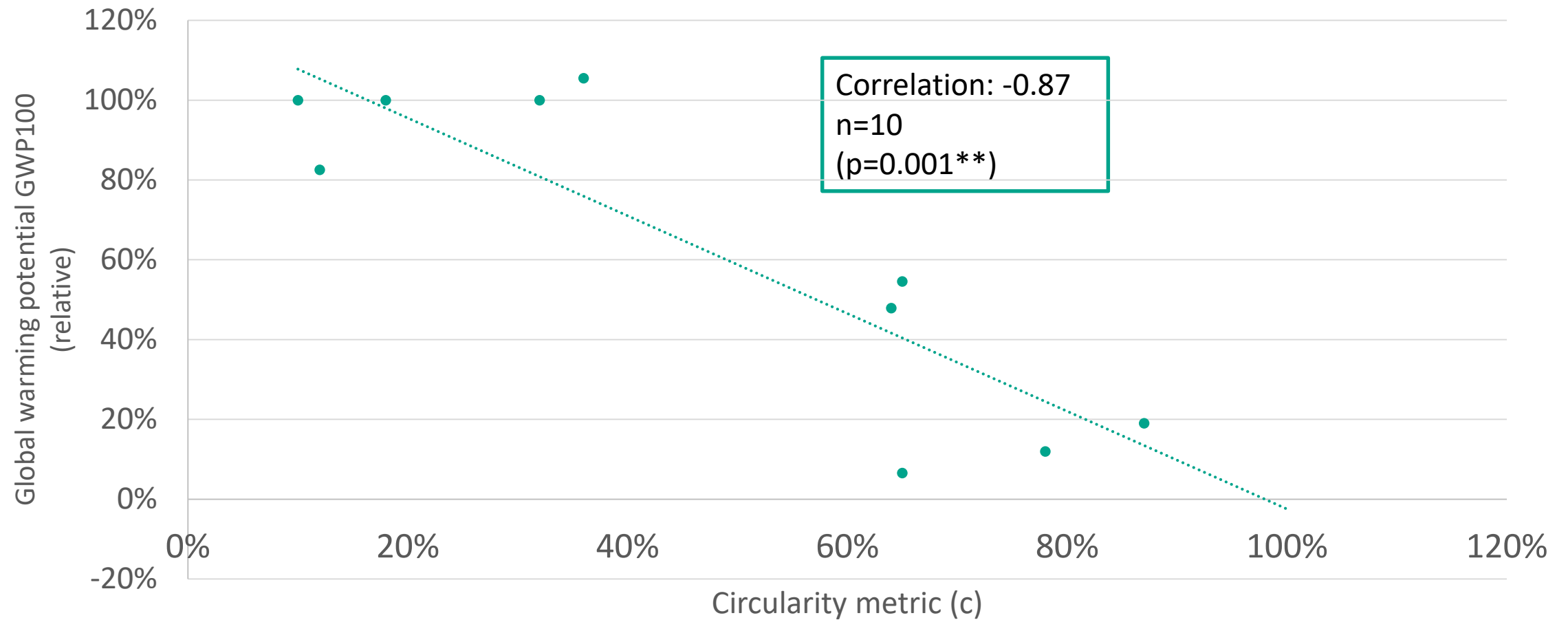
- 17 did a C-estimate
- 14 did a "complete" C-estimate
- 14 completed streamlined LCA
- 11 did both complete C and LCA
- (3 did an extended circularity calculation, LFR)



What types of circularity was rewarded by C?



5. Results: Relation to LCA



När verkar C "funka" som tänkt?

- Produkt med återvunnet material
- Återtillverkning, renovering, omfattande reparation & "enkel" produkt
- Det är väldigt många komponenter med olika cykler (exempelvis en buss)
- Mycket hemlighetsmakeri i värdekedjan (exempelvis batterier)
- Delnings- och hyrtjänster (exempelvis hyrbilar)
- När hela varan återbrukas rakt av (exempelvis bil efter leasing)

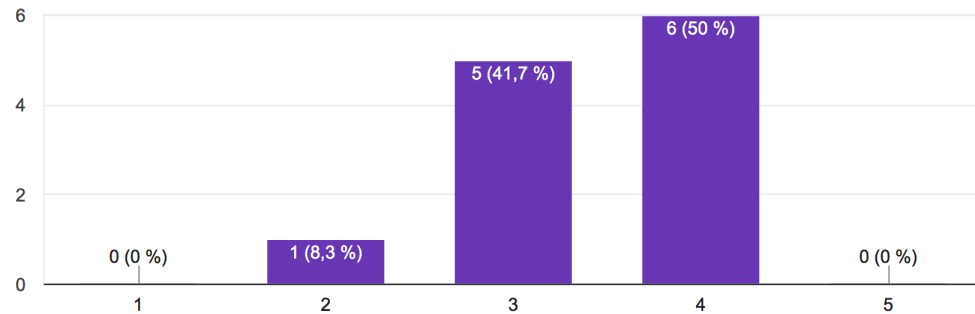
Resultat

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18. I think the metric adequately measures the circularity of the evaluated offering

12 svar

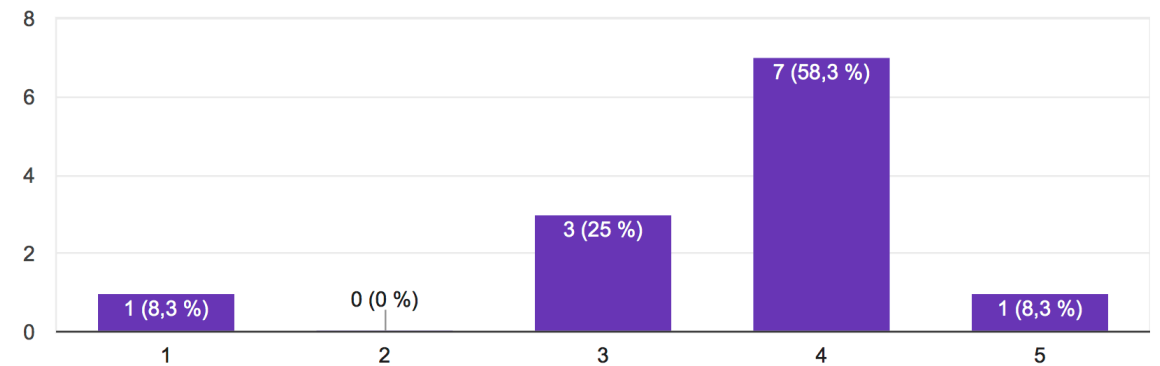


Disagree

Agree

28. My company will likely continue to use the metric (beyond the project)

12 svar



Disagree

Agree

SWEDESE

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Insights (2)

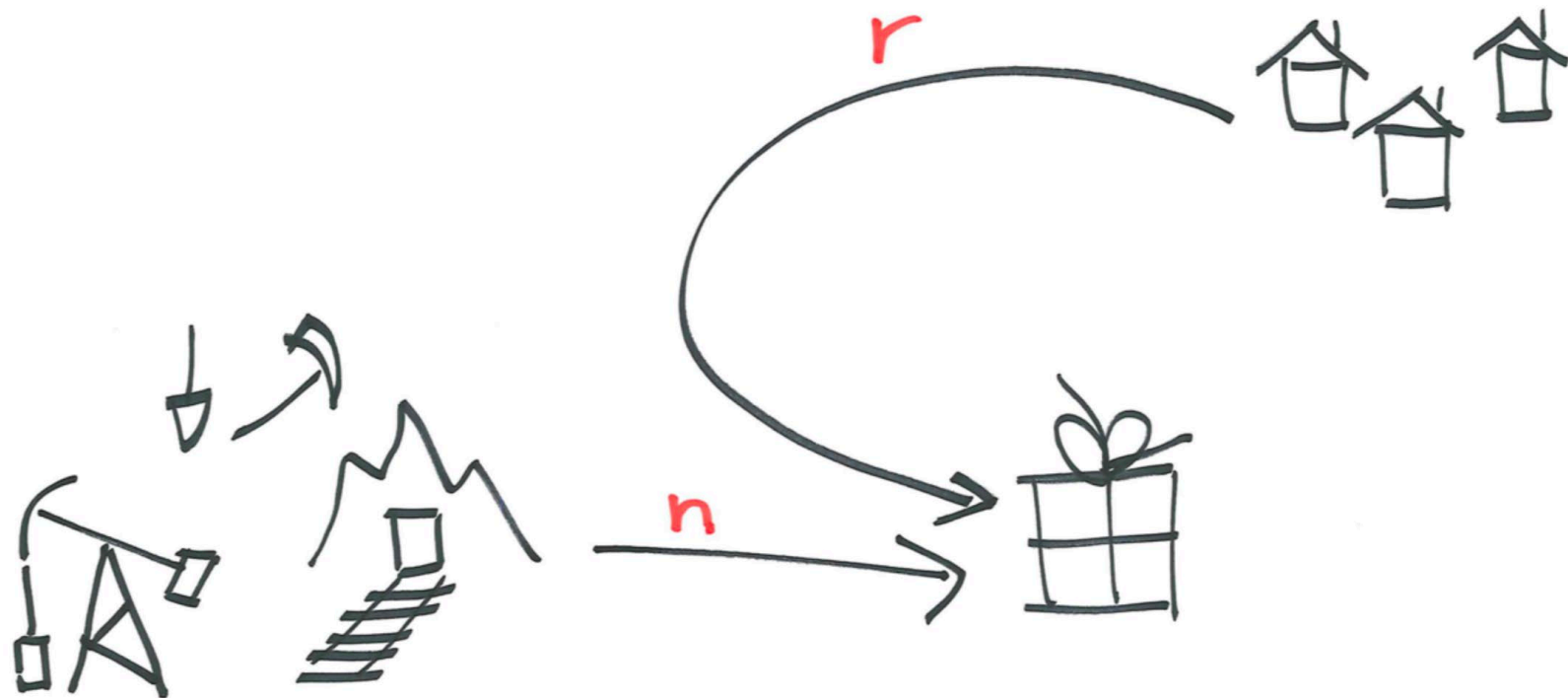
- Swedese are planning to use a C-calculation of circularity for our furniture
- All furniture should have C-value for circularity, for comparison.
- Current C-metric takes no regard to time before recirculation.

SWEDESE

Insights (3)

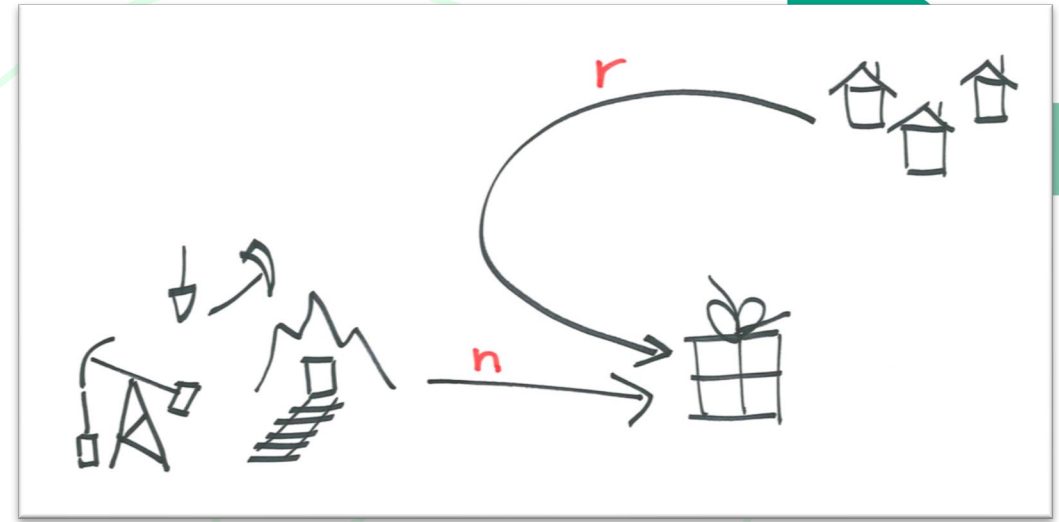
- My advice is to know your product, and take your calculations from there.
- The calculations give you a perfect tool for product development and improvement.

SWEDESE



Snapshot: Ingoing circularity

$$c = \frac{r}{r+n}$$





Indium

Vs.

Iron



Iron

Vs

Starter engine

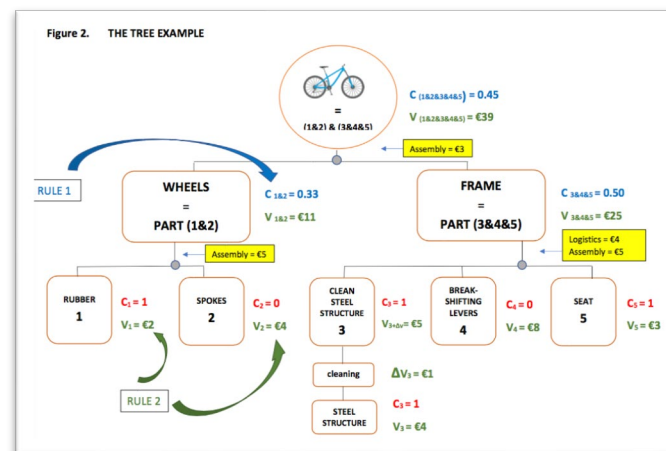


$$c = \frac{\text{economic value of recirculated parts}}{\text{economic value of all parts}}$$

GUIDELINES FOR IMPLEMENTING CIRCULARITY METRIC & RELATED ENVIRONMENTAL INDICATORS

PROJECT:
MEASURING PRODUCT CIRCULARITY AS A MEANS TO PROMOTE RESOURCE PRODUCTIVITY

Emanuela Vanacore & Marcus Linder – RISE
Hanna Ljungkvist & Lisbeth Dahllöf – IVL Svenska miljöinstitutet



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