



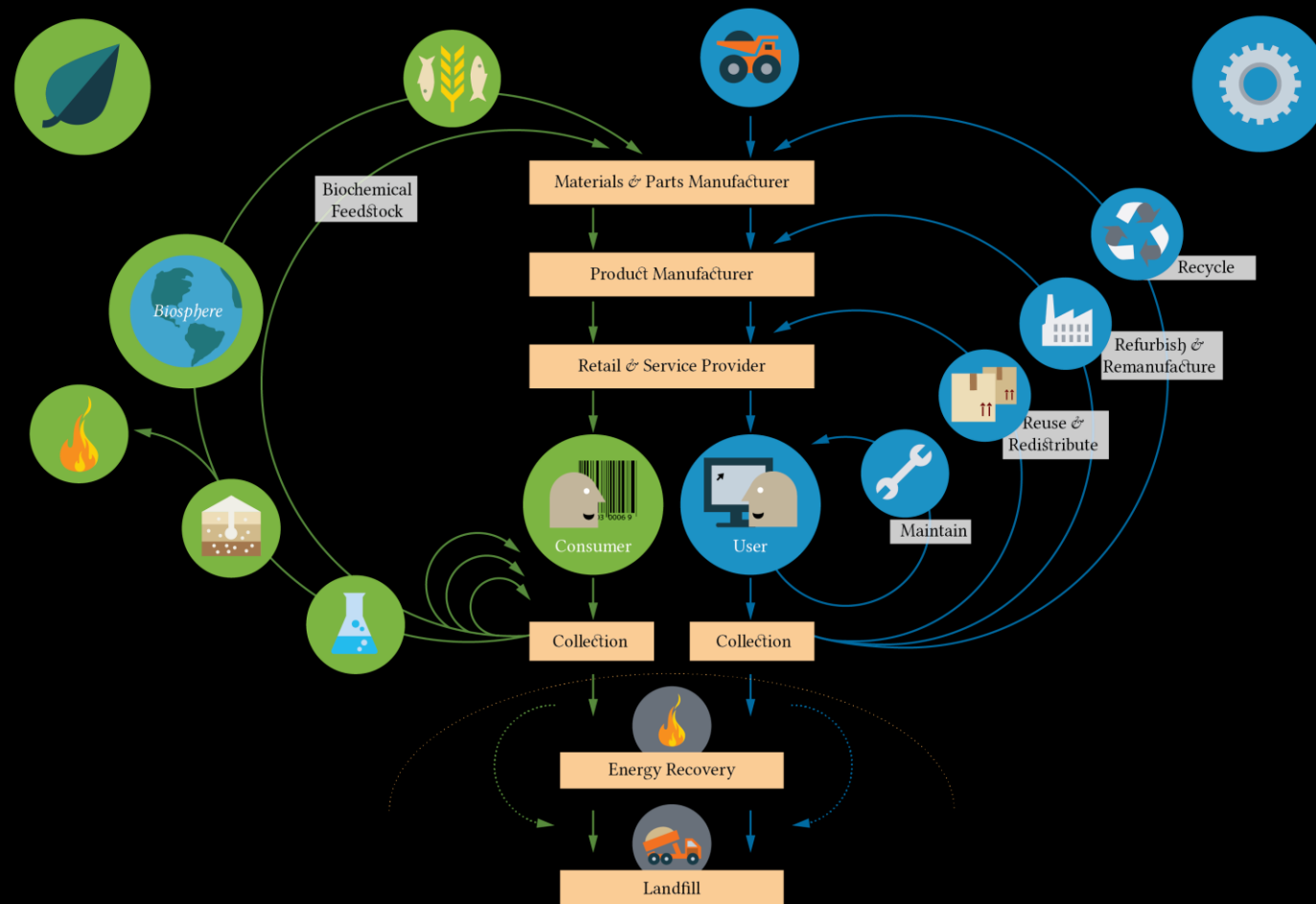
Trender och långsiktig utveckling

Material, innovation, hållbarhet

STII 2018

Cirkulär Ekonomi

Slutna kretslopp, Förnyelsebar energi



Cirkulärt / delningsekonomi

- Swedish government issues [tax deductions on repair work](#)
- Swedish Competition Authority [sets rules for sharing economy](#)
- Páramo - circular production with Japanese recycler
- Bergans repairs, [sells used gear](#) and starts rental in shop
- Houdini & Filippa K - [online rental booking](#) with Shing
- Klättermusen, Lundhags + [Rent-a-Plagg](#) for “mail rentals”
- Light My Fire starts [selling activities](#)



Materialval för hållbarhet

Några vägval/trender

Världens "renaste" jeans?

 **G-STAR RAW**



[\(LINK\)](#)

Denim is now Gold-Certified!

- G-Star partnered with DyStar and Artistic Milliners to develop the cleanest indigo dyeing process in the world, outputting 100% clean water
- Only 100% organic cotton is used in the denim
- There are no human or environmental risks in the fabric's chemistry
- The denim is produced using at least 50% renewable energy



[\(LINK\)](#)

C&A Presents World's Most Sustainable Jeans

Cradle to Cradle Certified™* Gold jeans available exclusively at C&A online store in August 2018

Återvinning/återvunnet av Polyester

- **Teijin EcoCircle (Japan)** - Retursystem är stoppat. Tyger av återvunnet polyester kan köpas.
- **Jeplan (Japan)** - ny aktör med varumärket BRING® på återvunnet tyg.
- **I:CO (Tyskland)** - Insamlare som jobbar med flera stora varumärken (tex H&M).
- **Perpetual (Indien)** - PET recycling – går mot textilåtervinning. Egna tyger under varumärke Polygenta.
- **Parley for the Oceans (US)** – blandade återvunna/nya fibrer med polyester insamlat i havet.
- **Worn Again (UK)** - Pilotprojekt som siktar på återvinning av blandade Polyester/bomullstyger.
- **Demeto (EU)** - multi-stakeholder utvecklingsprojekt för polyestertygsåtervinning, stora aktörer inblandade.
- **Resyntex (EU)** - ett annat stort utvecklingsprojekt för polyestertygsåtervinning.
- **Unifi, Toray, Libolon och Advansa** har post-consumer mekanisk återvinning som blandas med nya fibrer.
- **Ioniqa (NL)** - startup kemiföretag som levererar kemikalier för återvinning.

Mikroplast – partiklar, fibrer



Förnybara material


NATURE PRENE
100% ECO FRIENDLY GLUE



Lägre fossilanvändning

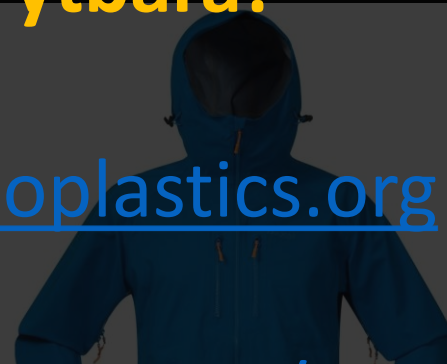
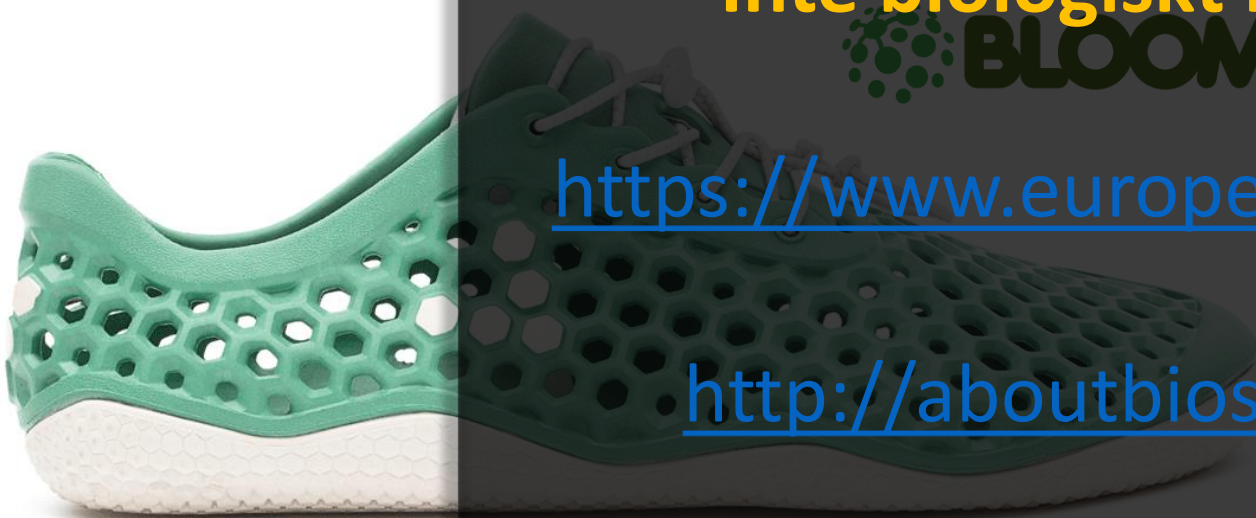
MEN

Inte biologiskt nedbrytbara!

 **BLOOM**

<https://www.european-bioplastics.org>

<http://aboutbiosynthetics.org/>



eco-dear
Plant-based Products Solutions



 **ingeo**TM

RADILON[®]
PLASTICS



Andra materialinnovationer



Verktygslåda

Några olika hjälpmedel i arbetet

Get informed on the latest ASI news & events

Over 70 members...certifications for ASI Performance Standard and Chain of Custody Standard...training events for auditors/members...translations of normative documentation...outreach into China... and much more. More info in the links below:

[More about ASI members...](#)[More about certifications...](#)[More about ASI events...](#)[Get the ASI Newsletter...](#)

Work with us to
**SET THE NEW
GLOBAL STANDARD**
for the steel industry

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<https://www.responsiblesteel.org/>

Det finns verktyg!

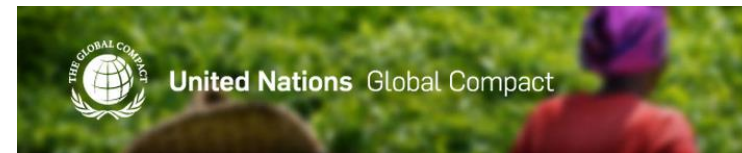
Outdoor - Textil



The Higg Index 2.0



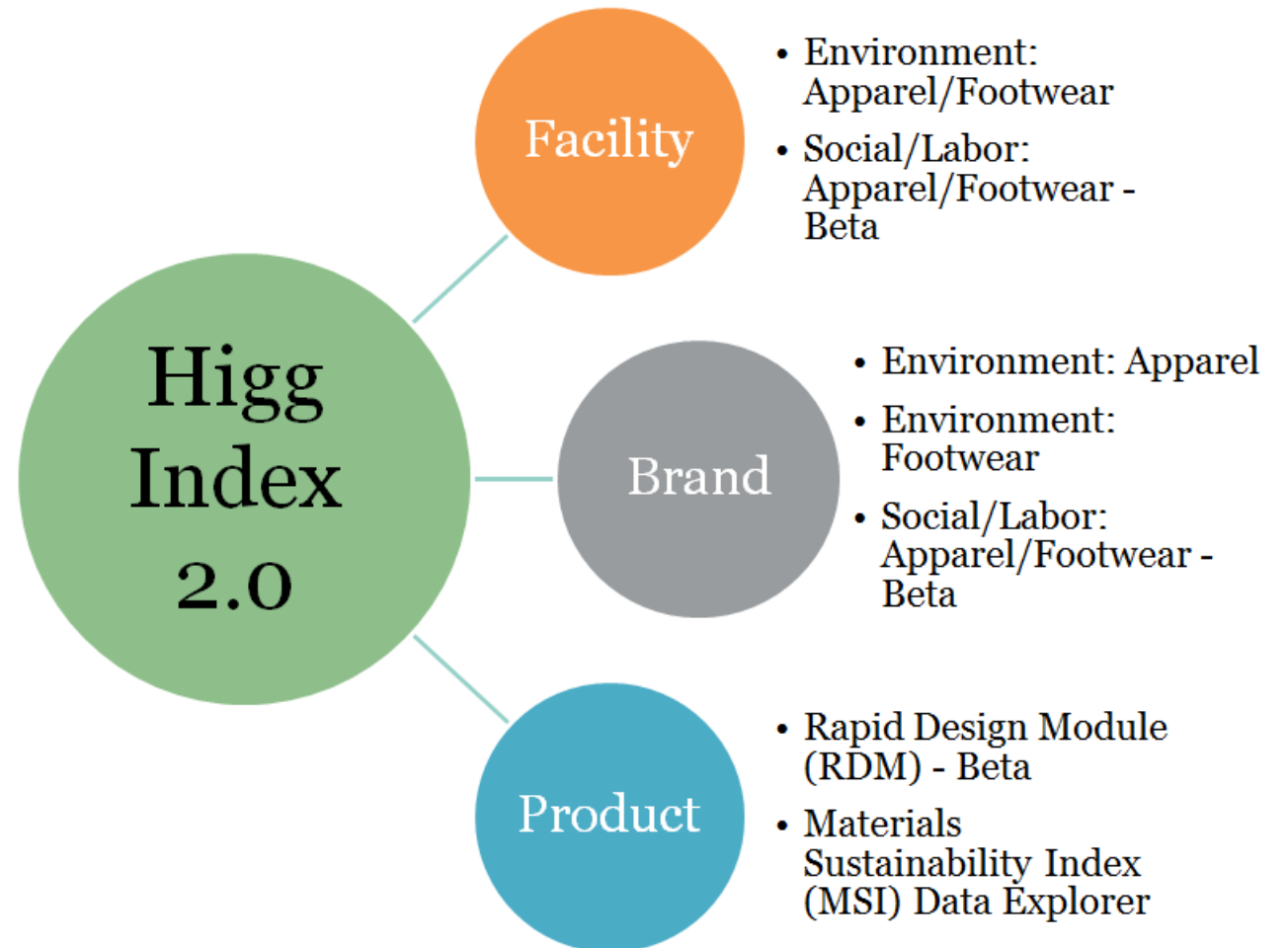
Generellt



Higg Index

- Mest heltäckande verktyget för textil
- 150 medlemmar; varumärken, leverantörer, NGO's.
- Modemärkena är med, flera inom sport och allt fler inom outdoor.
- Lättast att använda för större företag

www.apparelcoalition.org



Spårbarhet för biopolymerer



Roundtable on Sustainable Biomaterials

The Roundtable on Sustainable Biomaterials (RSB) is a global, multi-stakeholder independent organisation that drives the development of a new world bioeconomy through sustainability solutions, certification, innovation and collaborative partnerships.⁵⁶



International Sustainability and Carbon Certification (ISCC) for Biobased Products and ISCC+

ISCC is a globally leading certification system covering the entire supply chain and all kinds of feedstocks and renewables.⁵⁷



Organic Feedstocks

Organic feedstocks must be grown and certified to a standard approved in the IFOAM Family of Standards. The IFOAM Family of Standards allows multilateral equivalence between organic standards and technical regulations.⁵⁸



BonSucro Sugar Initiative

BonSucro provides both a production and a chain of custody standard. The Production Standard helps farmers and mills to measure their productivity and key environmental and social impacts.⁵⁹



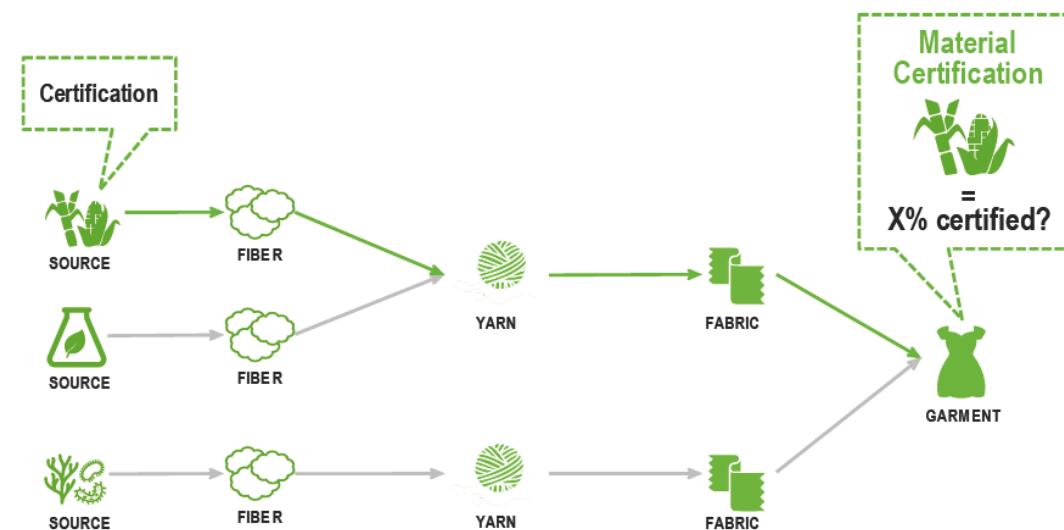
Forest Stewardship Council (FSC)

FSC forest management certification confirms that the forest is being managed in a way that is more sustainable. There is both a forest level, and a chain of custody, standard.⁶⁰



Chain of Custody

Biobased feedstocks produced to a sustainability standard can be traced through the supply chain using a chain of custody standard such as Textile Exchange's Content Claim Standard (CCS).⁶¹



<http://aboutbiosynthetics.org/>

Märkningar för bättre kemi

Syntet



Oeko-tex

bluesign®

bluesign



GOLD

C2C
certified



Svanen



Bra
Miljöval



GOTS



EU
ekol.



SA
ekol.

Natur

TEXTILE STANDARDS & LEGISLATION

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Password ?

Remember Me

Log in

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Welcome



Textile Standards & Legislation is the result of a unique partnership between MCL Global – the leading media platform for the textile supply chain – and the European Outdoor Group, which with over 80 brand and retail members, undertakes a number of innovative projects for the benefit of the whole European outdoor industry.

These two organisations can now bring you this unique, fully searchable on-line tool – together with a printed

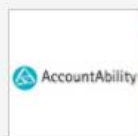


booklet – which combines all the best elements of the Eco-Textile Labelling Guide from MCL and the SIGNS tool developed by the European Outdoor Group.

If you want your business to comply with the relevant social and environmental issues, need to minimise risk in your supply chain, avoid reputable damage to your brand, or have decided to source your products in a more responsible manner – then you've come to the right place.

INSIGHT.
INNOVATION.
SUSTAINABILITY.

A-Z STANDARDS



AA1000 Standards

AA1000 are a set of three free to use standards that have been developed to improve the accountability, reporting and overall sustainability performance of an...

www.textilestandards.com

Find us on:



Explore

Geographic Region

Select

Life Cycle Stage

Select

Type of Standard

Select

Product

Select

Requirement

Select

Clear Search

Search



TOOLS

Marketplace >

SIN List >

SIN Producers >

SINimilarity >

SUBSPORT >

Textile Guide >



MARKETPLACE

Marketplace

The Marketplace is a free-of-charge business to business website where buyers and sellers of alternatives to hazardous chemicals can interact.

[GO TO MARKETPLACE](#)

[READ MORE](#)



SIN LIST

SIN List

The SIN (Substitute it Now!) List is a globally used database of chemicals likely to be banned or restricted in a near future.

[GO TO SIN LIST](#)

[READ MORE](#)



SUBSPORT

SUBSPORT is a free-of-charge, multilingual platform for information exchange on alternative substances and technologies, as well as tools and guidance...

[GO TO SUBSPORT](#)

[READ MORE](#)



TEXTILE GUIDE

Textile Guide

The Textile Guide walks you through the process of chemical management from a textile industry perspective.

[GO TO TEXTILE GUIDE](#)

[READ MORE](#)



SINIMILARITY

SINimilarity

SINimilarity shows if a substance is structurally similar to a substance on the SIN List, which in turn indicates similar problematic properties.

[GO TO SINIMILARITY](#)

[READ MORE](#)



SIN PRODUCERS

SIN Producers

The SIN Producers List is the only searchable database of companies that are producing or importing the most hazardous chemicals in Europe and USA.

[GO TO SIN PRODUCERS](#)

[READ MORE](#)

Green Chemistry

Everyone's Doing It!

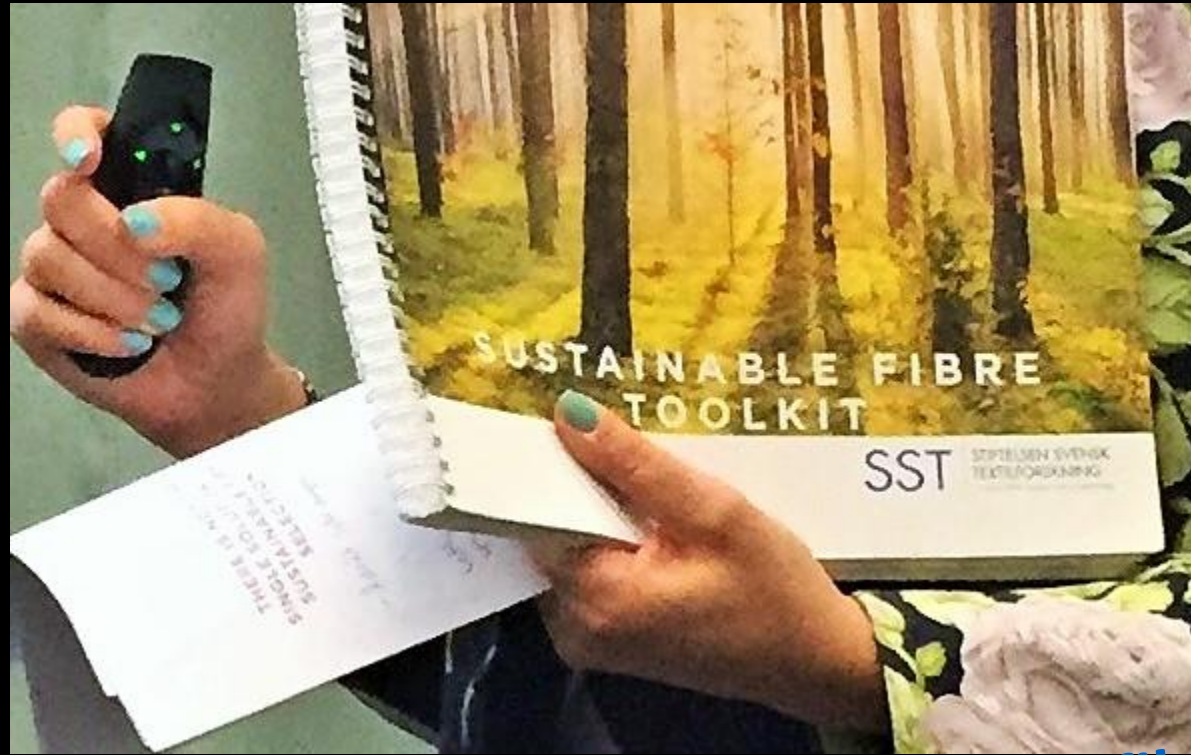
The 12 Principles of Green Chemistry

A framework for designing or improving materials, products, processes and systems.

1. Prevent Waste
2. Atom Economy
3. Less Hazardous Synthesis
4. Design Benign Chemicals
5. Benign Solvents & Auxiliaries
6. Design for Energy Efficiency
7. Use of Renewable Feedstocks
8. Reduce Derivatives
9. Catalysis (vs. Stoichiometric)
10. Design for Degradation
11. Real-Time Analysis for Pollution Prevention
12. Inherently Benign Chemistry for Accident Prevention

*Anastas, P. T.; Warner, J. C. *Green Chemistry: Theory and Practice*, Oxford University Press: New York, 1998, p.30.
By permission of Oxford University Press.

Sustainable Fibre toolkit - TEKO



<https://www.teko.se/hallbarhet/sustainable-fibre-toolkit/>

THE CIRCULAR DESIGN GUIDE



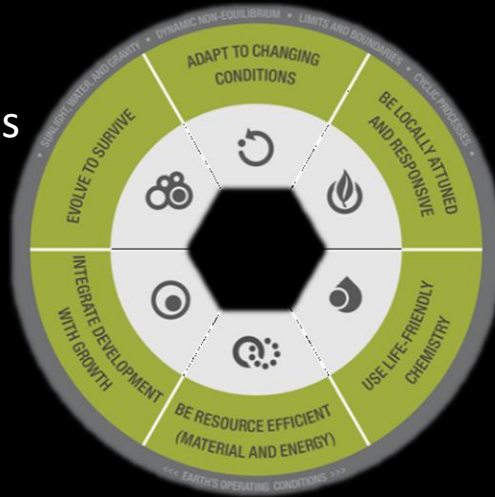
Innovationsverktyg: Biomimik

Funktioner

Koncept

Detalj/lösning

Life's Principles



www.biomimicry.net

www.asknature.org

Innovationer

Verktygslåda

Tips för att välja verktyg

Verktyg - Syfte

- Kontroll av ursprung
- Kontroll av leverantörs löfte
- "Bevis" för miljöuttalanden
- Designhjälp
- Expertstöd
- Grupptillhörighet
- Samverkan/samarbete
- Säljstöd – "Label"

Prioritera!

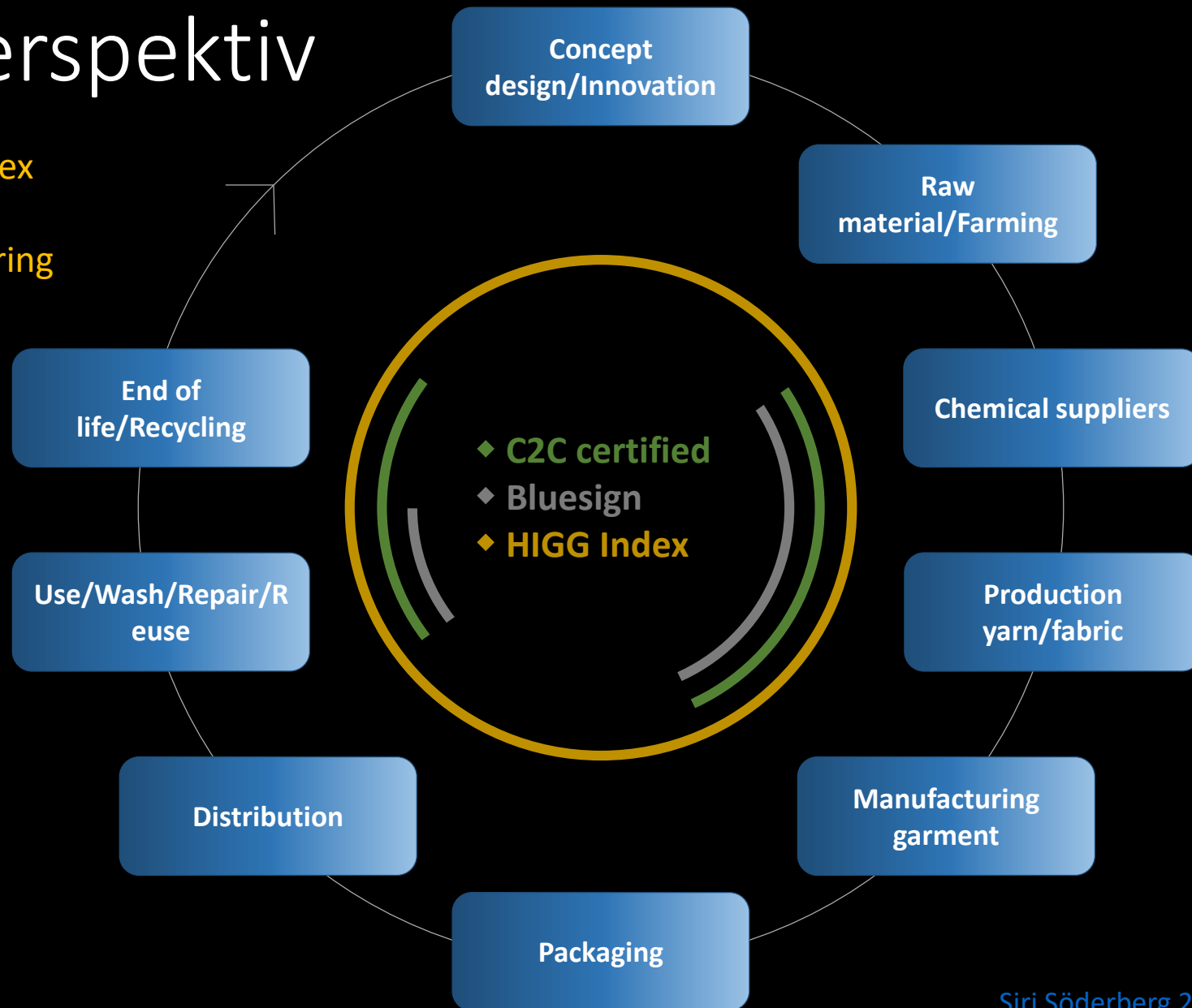
Vad är viktigast – intern kontroll, designstöd eller extern "label"?

Behöver ni hitta kompetens, samarbeten, påtryckning?

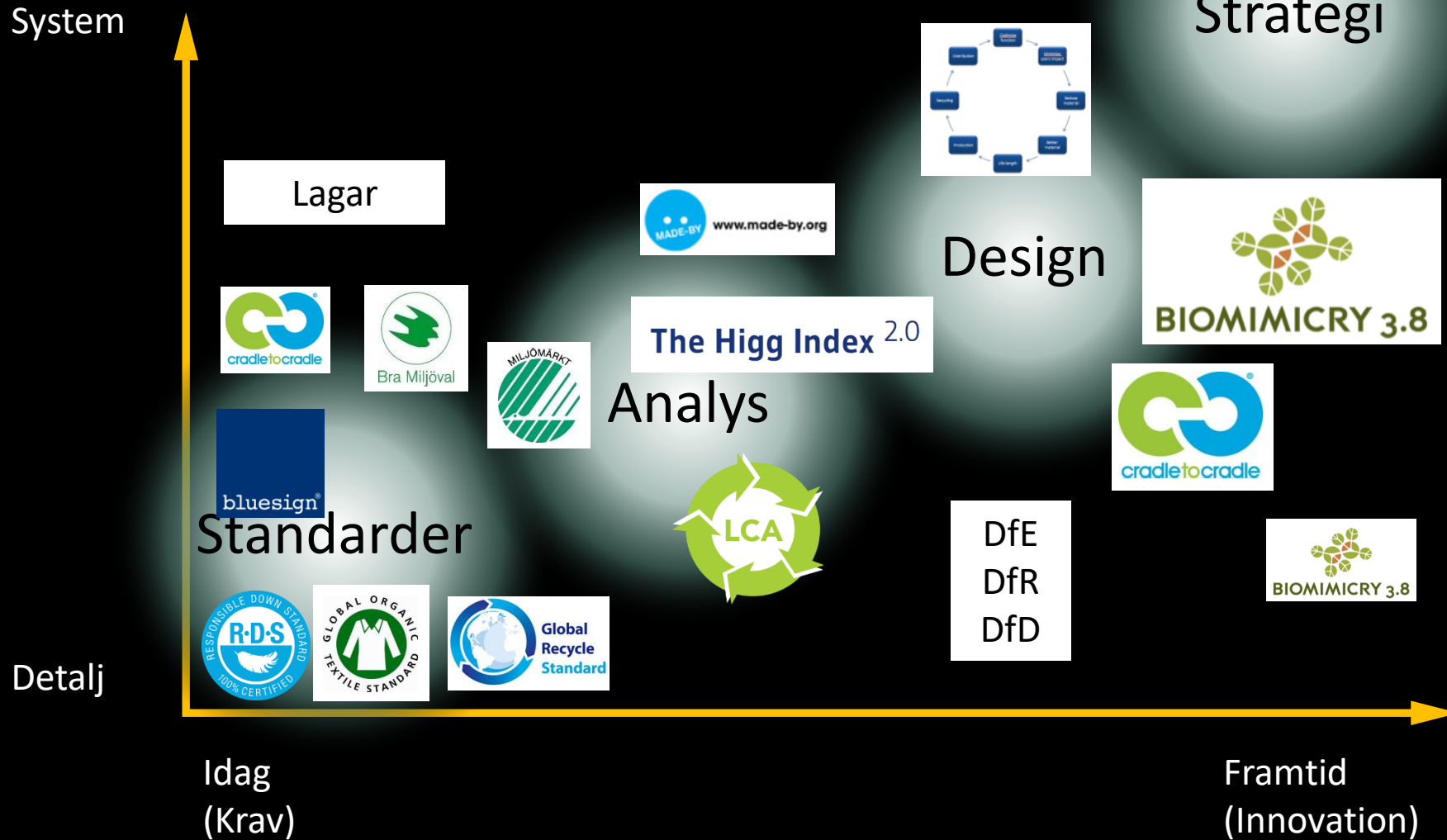
Vilka frågor ska ert verktyg hantera? Bredd/djup?

Livscykelperspektiv

Ramverk / index
VS
Produktcertifiering



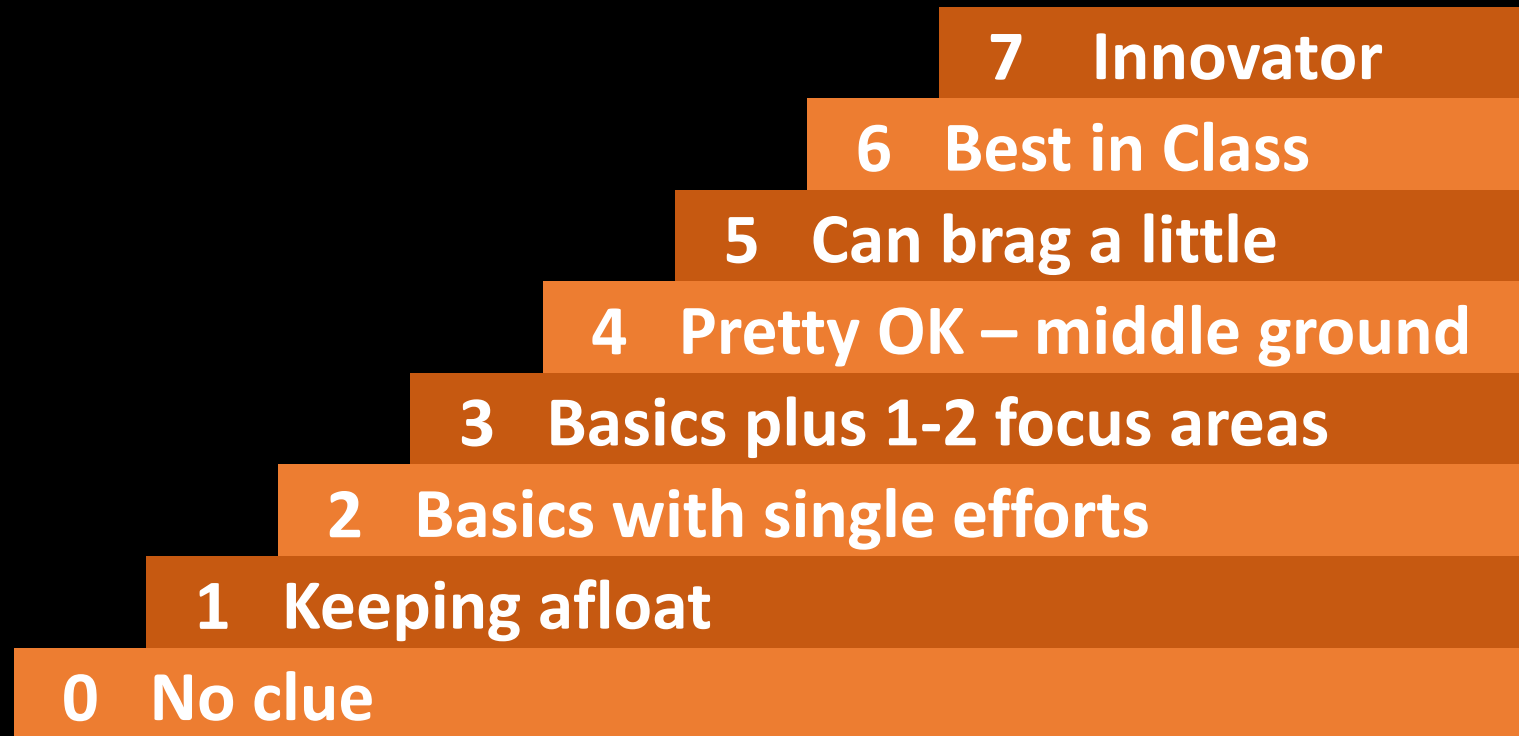
Tid och omfattning



Strategisk planering

Att utveckla för idag – och imorgon

Företagets hållbarhetsambitioner

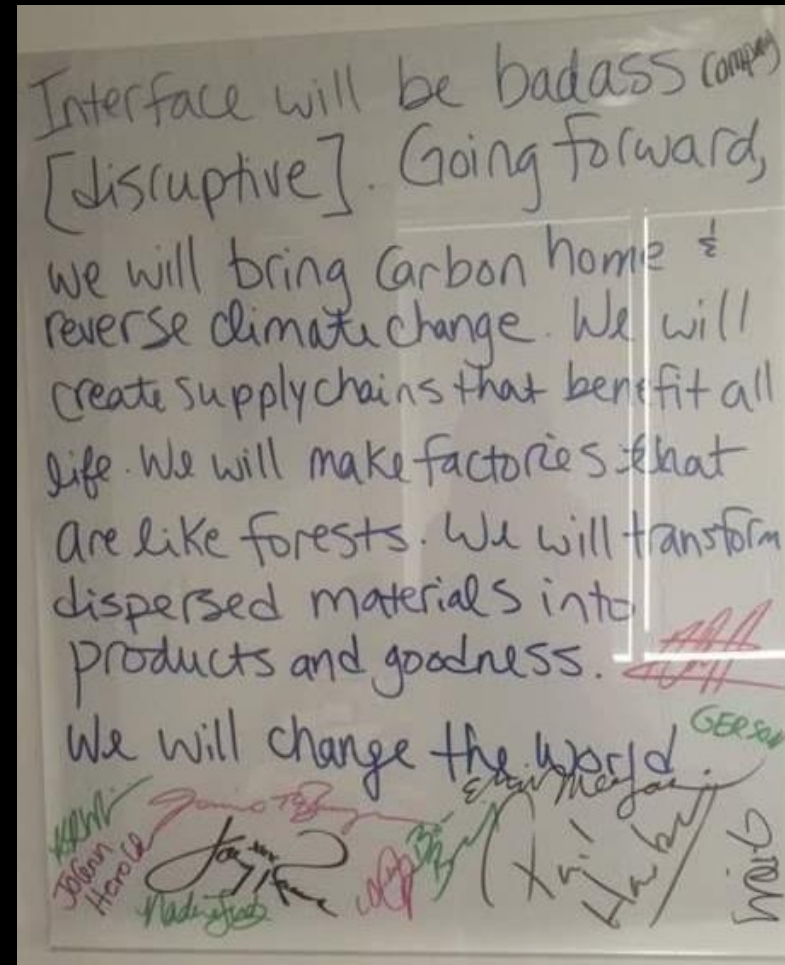


Interface

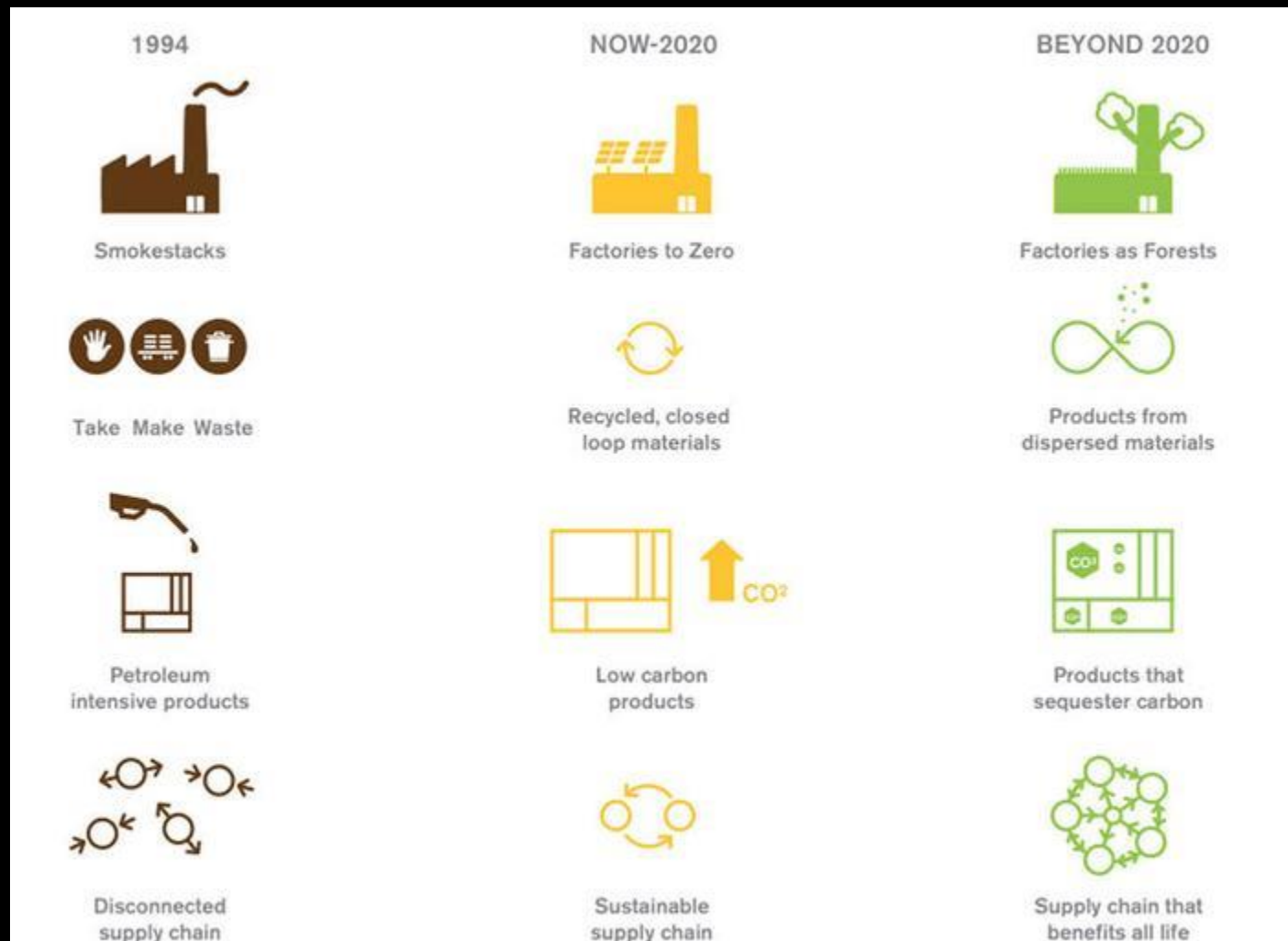
The B A H G
From "Mission Zero"
To "Climate Take Back"

<http://www.thenaturalstep.org/project/interface/>

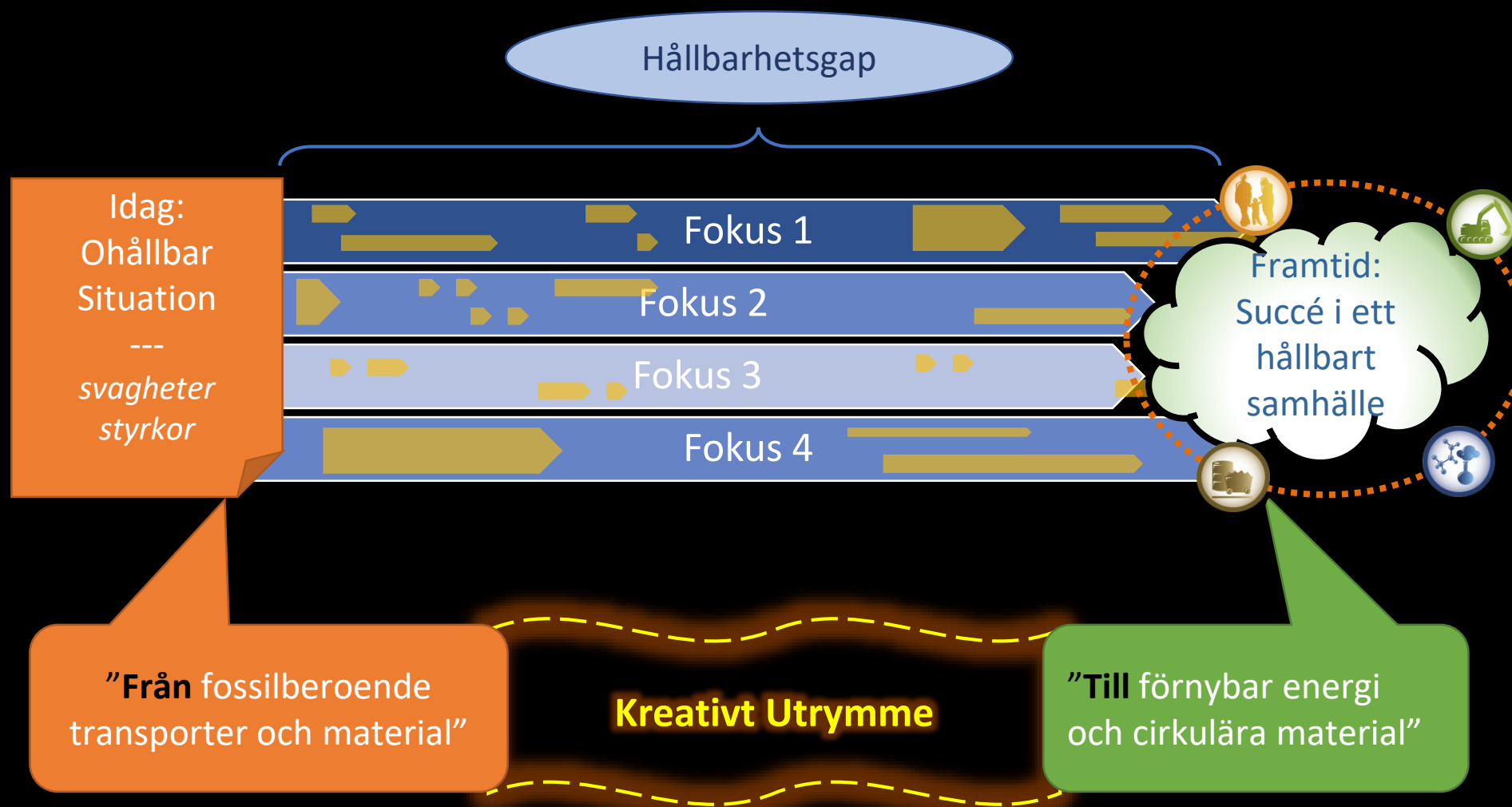
<https://www.greenbiz.com/article/inside-interfaces-bold-new-mission-achieve-climate-take-back>



Interface: *Climate Take Back*



Hållbarhetsstrategi



Fyra principer för hållbarhet

Det hållbara samhället bygger på att:



Inte förorena naturen
- med ämnen från **berggrunden**



Inte förorena naturen
- med ämnen skapade av **samhället**



Inte tränga undan naturen **fysiskt**



Inte hindra **människor** att tillgodose sina behov
(Hälsa, Inflytande, Kompetens, Opartiskhet, Mening)



Peak Innovation

TOURISM SPORTS OUTDOOR

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Skype [joel.svedlund](https://www.skype.com/people/joel.svedlund)



joannes polgnant
FOTO | VIDEO | VISUELL KOMMUNIKATION