

Circular Events 2021 Kickoff

**BUSINESS
FINLAND**



Agenda

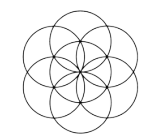
- **Finnish BioCircular Innovation Roadmap**
- **Circular Nordics 2021**
Einar Kleppe Holthe, Natural State
- **Governmental circular collaboration**
Inger Johanne Wiese, Norwegian Ministry of Climate and Environment
- **BioCircular Finland opening words**
Marika Ollaranta, Business Finland
- **Finnish BioCircular Innovation Roadmap**
Jarmo Heinonen, Business Finland
- **Future of biomaterials**
Jussi Manninen, VTT
- **Kick-start your bio-based business in Finland**
Helvi Väisänen, Business Finland
- **Bio-based solutions company cases:**
 - Pyroll Packaging by Tapani Holappa
 - NordShield by Emmi Kavander
 - Spinnova by Pia Qvintus
- **Nordic perspective on circular economy**
Cathrine Barth, Circularities
- **Circular industrial locomotives**
Susanne M. Nævermo-Sand, Celsa Nordic
- **Visual intelligence as fuel for circular innovation**
Hanne Wetland, Knowit
- **Panel discussion**
with Cathrine Barth (Circularities), Susanne M. Nævermo-Sand (Celsa Nordic), Hanne Wetland (Knowit) and Marthe Haugland (Nordic Innovation)
- **The Nordic Circular Hotspot Partnership Program**
Einar Kleppe Holthe, Natural State
- **Q&A dialogue with the audience**



Agenda



Klima- og miljødepartementet



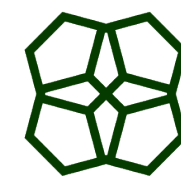
CIRCULARITIES
CIRCULAR STRATEGY AGENCY

SPINNOVA®



Nordic Innovation

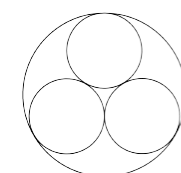
pyroll



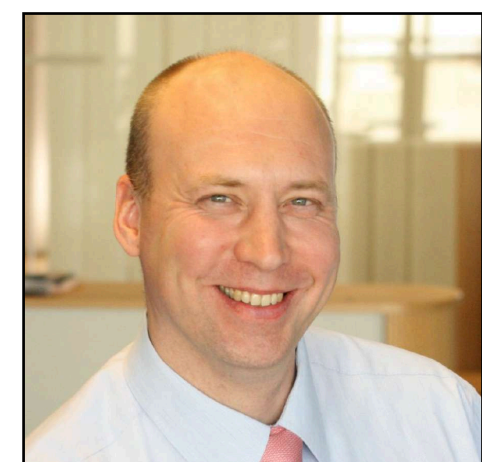
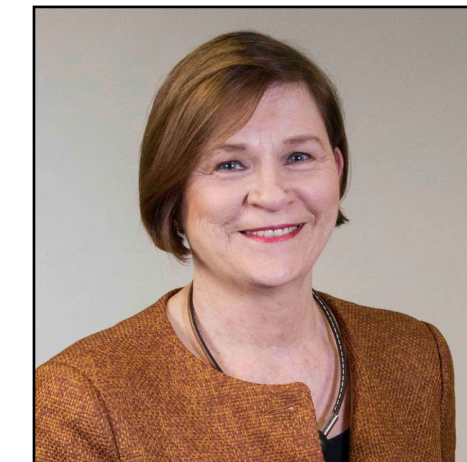
NordShield®
Protection by nature.

knowit

VTT

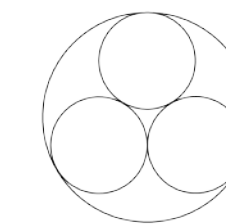
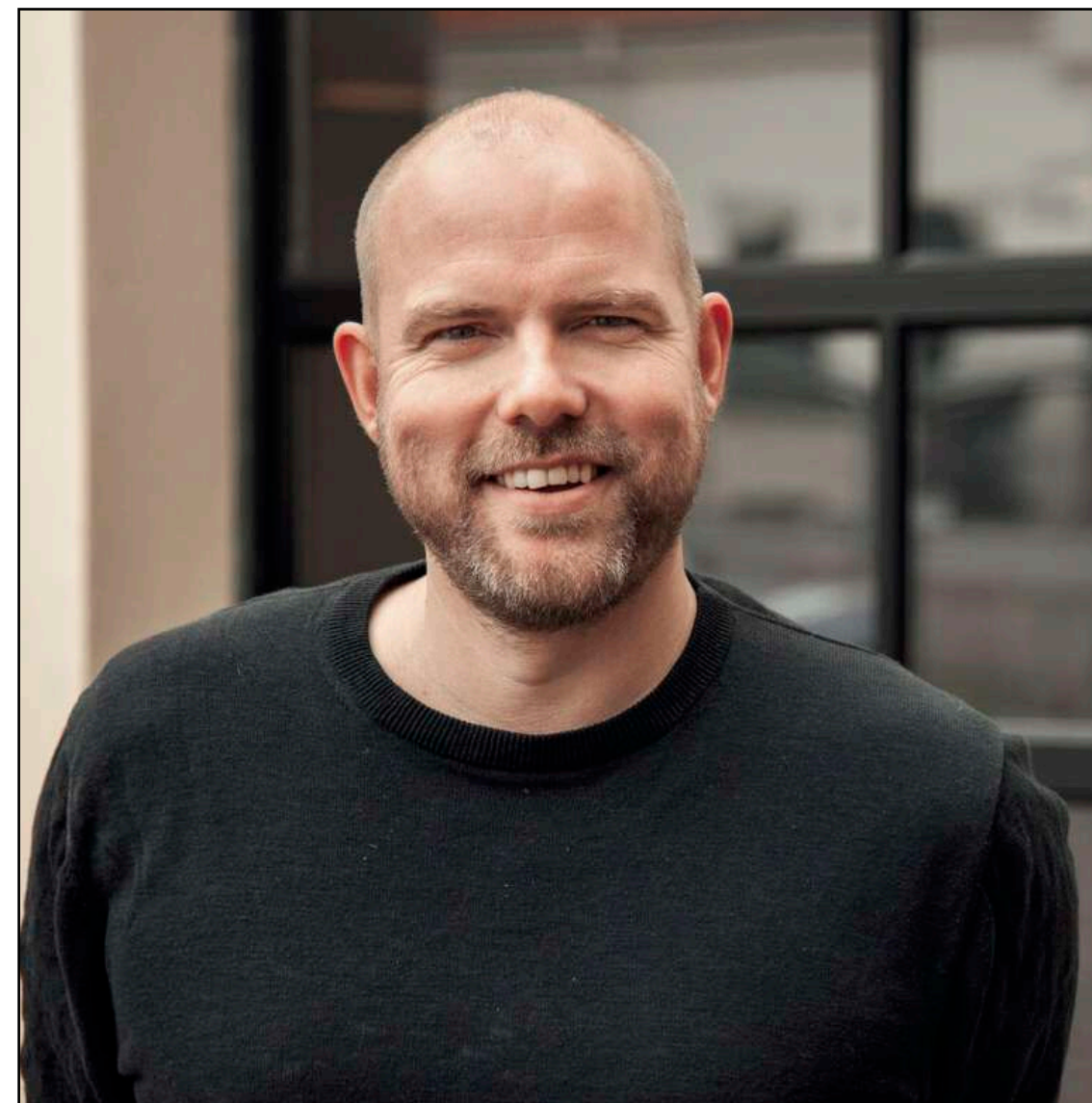


Natural State



Circular Nordics 2021

Einar Kleppe Holthe
Founder & CEO
Natural State

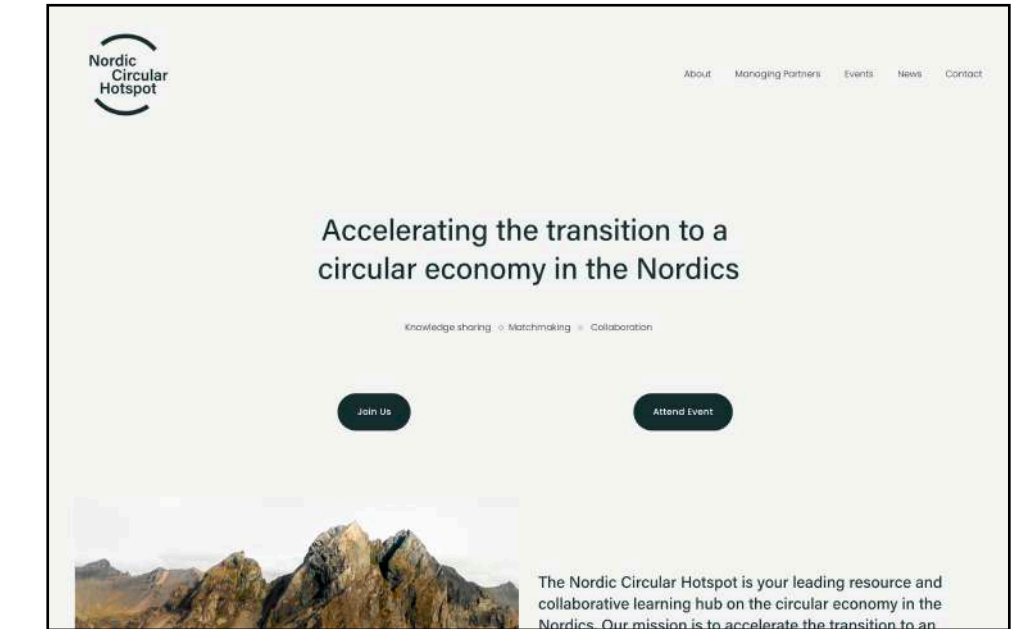


Natural State

Building a Circular Nordics

Circular economy, often referred to simply as *circularity*, is an economic system aimed to design out waste and pollution, keep products and materials in use, and regenerate natural systems. Even though global awareness is finally rising, most people don't know what circular economy is, and the market is still very fragmented and hard to navigate. With co-funding from Nordic Innovation, the Nordic Circular Hotspot aims to bridge the knowledge gap and contribute in a meaningful way to:

- **Reinvent** how the Nordics design, produce and market products;
- **Rethink** how the Nordics use and consume goods and services;
- **Redefine** growth in the Nordics and what is possible through reuse, reduction, repairing and regeneration.



Elin Bergman
Cradlenet (SWE)



Marika Ollaranta
Business Finland (FIN)



Bjarni Herrera
Circular Solutions (IS)



Einar Holthe
Natural State (NO)



Cathrine Barth
Circularities (NO)



Hrund Gunnsteinsdóttir
Festa (IS)



Harpa Júlíusdóttir
Festa (IS)



Isabella Holmgaard
Lifestyle & Design
Cluster (DK)



Kim Hjerrild
Lifestyle & Design
Cluster (DK)



Peter Michel Heilmann
WholisticQ Holding (NL)



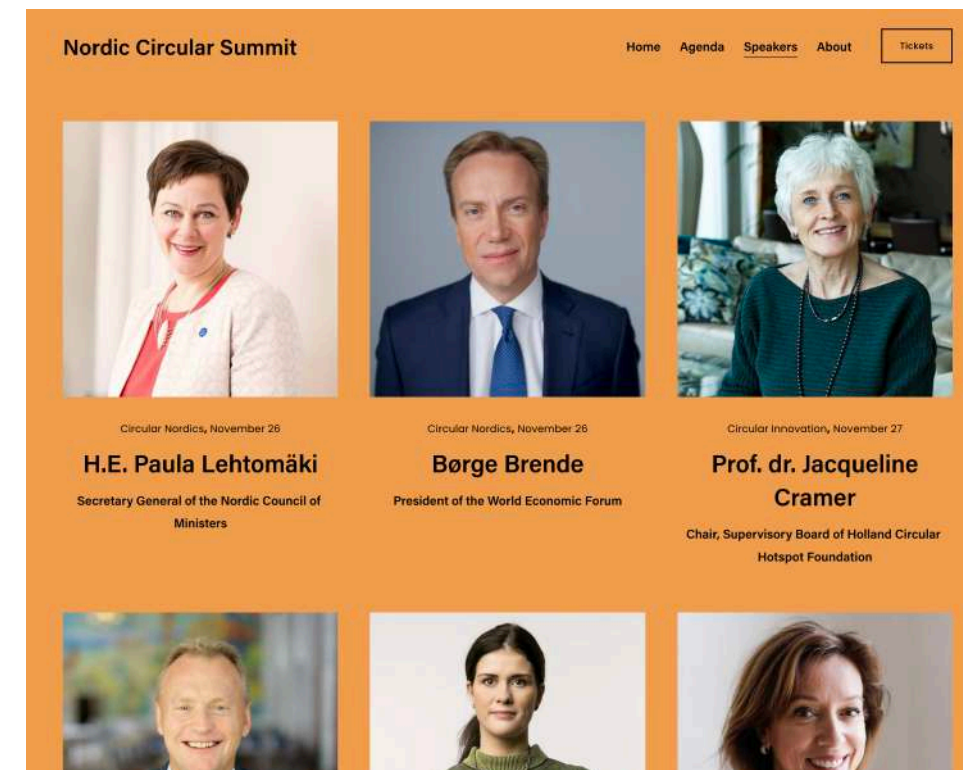
Change Management

Collaboration is key
During three months we have hosted events with speakers from leading global companies





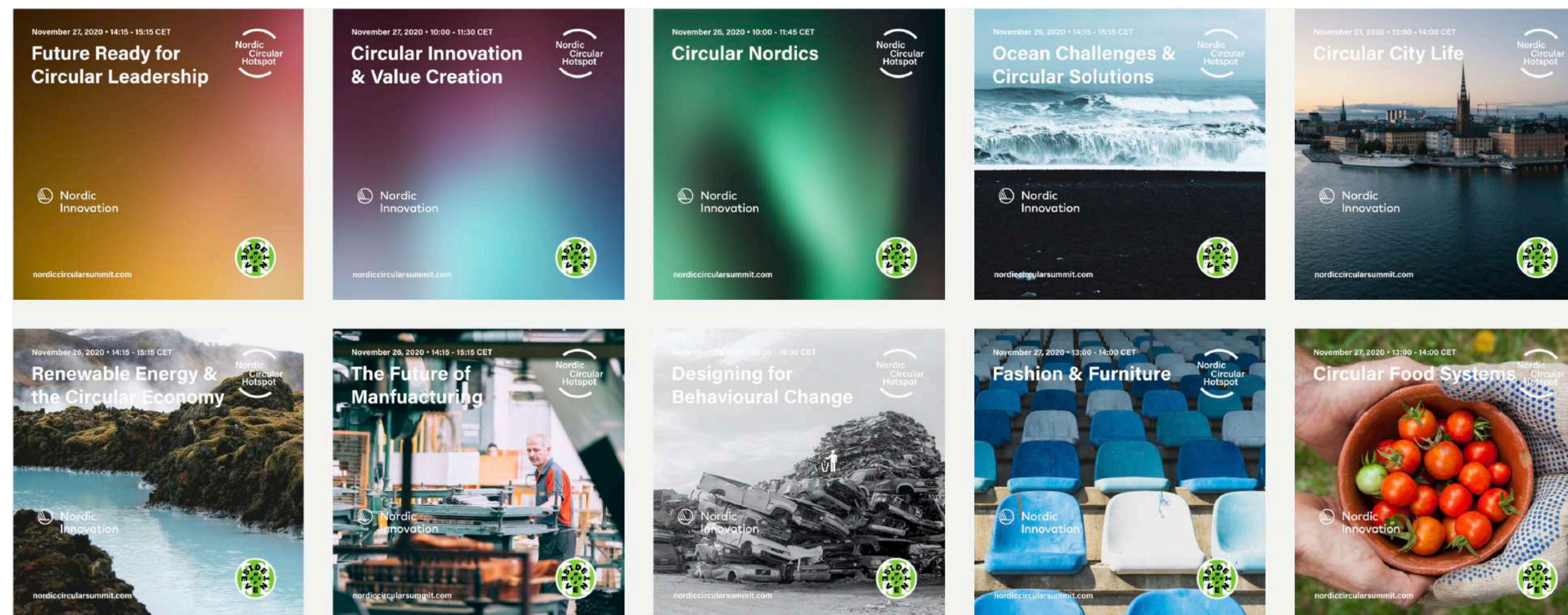
Nordic Circular Summit 2020



The Nordic Circular Summit is a two-day event hosted by [the Swedish government](#) and [Nordic Innovation](#), with a mission to explore the tremendous circular opportunities that the region has to offer.

The 2020 summit was a live event on November 26 and 27, 2020, spread over **10 different sessions**—with topics including circular cities, ocean solutions, fashion and furniture, finance, energy, the food sector, manufacturing and more. Nordic Circular Summit 2020 was a milestone event with **over 1,000 delegates** from around the world, comprising of two engaging days of interaction, inspiration, and information sharing.

The summit site had **6.8k unique visitors**, and content that engaged 62800 people on Facebook.



Governmental collaboration for a circular transition

Inger Johanne Wiese
Senior Advisor
Ministry of Climate and Environment



Klima- og
miljødepartementet



BioCircular Finland opening words

Marika Ollaranta
Head, BioCircular Programme
Business Finland



**BUSINESS
FINLAND**

Finnish BioCircular Innovation Roadmap

Jarmo Heinonen
Senior Director, Innovation Ecosystems,
Industries, Business Finland



**BUSINESS
FINLAND**

FINLAND

FINNISH BIO AND CIRCULAR INNOVATION ROADMAP

MR. JARMO HEINONEN
SENIOR DIRECTOR, INNOVATION ECOSYSTEMS INDUSTRIES
BUSINESS FINLAND
24.3.2021

FINLAND LEADS THE WAY TOWARDS BIO AND CIRCULAR ECONOMY

VISION

Finland is showing the way for solving global challenges and offers solutions for better tomorrow.

Finnish bio and circular solutions are utilized globally.

PURPOSE

Develop competitive bio and circular based solutions and ecosystems to solve global climate challenges

Finnish solutions, network and expertise matches demand and opportunities in the international markets

National and international networking, EU funding, national banks, investors

FINNISH BIO & CIRCULAR ECONOMY BUSINESS ECOSYSTEMS

SUSTAINABLE TEXTILES

1st generation cellulose
fibre industrial
production

1st recycled textile
ecosystem operating

Utilization of recycled
textiles fibres in
different end-user
applications

PACKAGING

Bio-based barriers

Traceability – digital
elements

New business models –
Package as a service

PLASTICS

Market creation,
shaping of plastics

Cross-sectoral R&D
together with customers
in different value chains

Substitutes or radical
innovations?

From mechanical to
chemical recycling

Life cycle of bio-based
plastics

BIOBASED SOLUTIONS

Nanocellulose based
biomedical solutions

Biocomposites

Biofuels

Biochemicals

Ligning based binders

Proteins

CIRCULAR VALUE ADDED STREAMS

Towards zero-waste
processes

Metals recycling

Batteries recycling

Carbon neutral
production – minimizing
CO₂

Nutrient recycling

SYNTHETIC BIOLOGY

**NEW BUSINESS MODELS &
DIGITAL TRANSFORMATION**

BUILDING & CONSTRUCTION

CLIMATE

Example of Finland-based Circular Ecosystem

Joint industry-academia project

- 8 large companies
- 14 SMEs
- 2 cities
- 4 universities
- 2 Research centers (GTK,VTT)
- 21 M€ budget

Key topics

- Sustainable primary resources
- Value addition in metal refining
- Battery recycling
- Precursors and active materials
- Circular business ecosystems



FINLAND

THANK YOU!

MR. JARMO HEINONEN
SENIOR DIRECTOR, INNOVATION ECOSYSTEMS INDUSTRIES
BUSINESS FINLAND

Future of biomaterials

Jussi Manninen
Executive Vice President
VTT Technical Research Centre of Finland



Kickstart your bio-based business in Finland

Helvi Väisänen
Senior Adviser
Business Finland



**BUSINESS
FINLAND**

**BUSINESS
FINLAND**

**INVEST IN
FINLAND**

KICK START YOUR BIO-BASED BUSINESS IN FINLAND

Mrs. Helvi Väisänen
Senior Advisor, Invest in Finland
Business Finland

BUSINESS FINLAND MISSION IS SUSTAINABLE GROWTH, RENEWAL AND SUCCESS

Promoting Innovation
Promoting Exports for SMEs
Attracting foreign investments and travelers

Tools

- Research and innovation funding
- Guidance and coaching
- Networking and contacts
- Expertise and vision of our domestic and international networks
- Theme programs



WHY WORK WITH FINLAND?



**FINLAND
OFFERS AN
EXCELLENT
PLATFORM**

THE BEST
business
environment
in the world *1

THE BEST
primary
education
in the world *2

THE BEST
destination
in EU for
international
business
expansion *3

**THE
HAPPIEST**
country in
the world *8

THE BEST
in the
world in
innovation *9

THE MOST
stable
country
in the
world *4

THE BEST
university –
industry
research
collaboration
in the world *1

BUSINESS OPPORTUNITIES IN



BIO & CIRCULAR ECONOMY

Kick start your bio-based business.



CLEANTECH

Greenest country in the world.



HEALTH

A living lab for global cures.



ICT AND DIGITALIZATION

Brainpower for your next big thing.



TRAVEL & TOURISM

Fast growing, safe and sustainable business environment

UNIQUE PLATFORM FOR BIO-BASED GROWTH

**RENEWING,
STRONG INDUSTRY
CLUSTER**

**GOVERNMENTAL
FACILITATION**

**GROWTH &
PARTNERING
POTENTIAL**

**ABUNDANT
FEEDSTOCK**

**WORLD CLASS
COMPETENCE**

FINLAND – BASE FOR INTERNATIONAL BIOPRODUCTS MANUFACTURERS



THE NEXT GENERATION OF BIOBASED PACKAGING COMES FROM FINLAND

UPM

BioVerno naphtha can be used in bioplastics for paperboard packaging. Lappeenranta biorefinery utilises tall oil for the new bioplastic cartons.

KOTKAMILLS

ISLA® Duo is an easily recyclable cupstock based on dispersion barrier.

- Winner of the NextGen Cup Challenge 2018.

STORA ENSO

Fibre-based, 100% recyclable EcoFishBox is free from expanded polystyrene with minimal plastic content.

- World Star Winner 2017
- World Star Sustainability Award Gold Medal 2017

HUHTAMÄKI

Signed a deal to supply McDonald's with sustainable paper straws in the UK and across Europe.

RESEARCH-BASED SPIN-OFFS WITH REVOLUTIONARY PACKAGING SOLUTION

PAPTIC®

is a new material replacing paper and plastic in packaging.

- Winner of Bio-based Product of the Year 2017
- 2nd position in Bio-based Material of the Year 2017
- Winner of the ExpoLive Innovation Award Grant

WOODLY®

is a new type of wood-based packaging material that can be used to substitute plastics.

SULAPAC®

is a biodegradable and microplastic-free material that has plastic-like properties, yet it biodegrades completely.

- World Star Winner 2017
- Winner of Green Alley Award 2017

JOSPAK

offers a recyclable cardboard tray with 85% less plastic.

- WorldStar 2019 and ScanStar 2018 awards

FINLAND - THE EPICENTER OF BIOBASED GROWTH

NEW, COMMERCIAL ADVANCED PRODUCTS

- 100% renewable diesel
- Microfibrillated cellulose
- Pyrolysis oil
- High-quality barrier board
- Cross laminated timber
- Kraft lignin

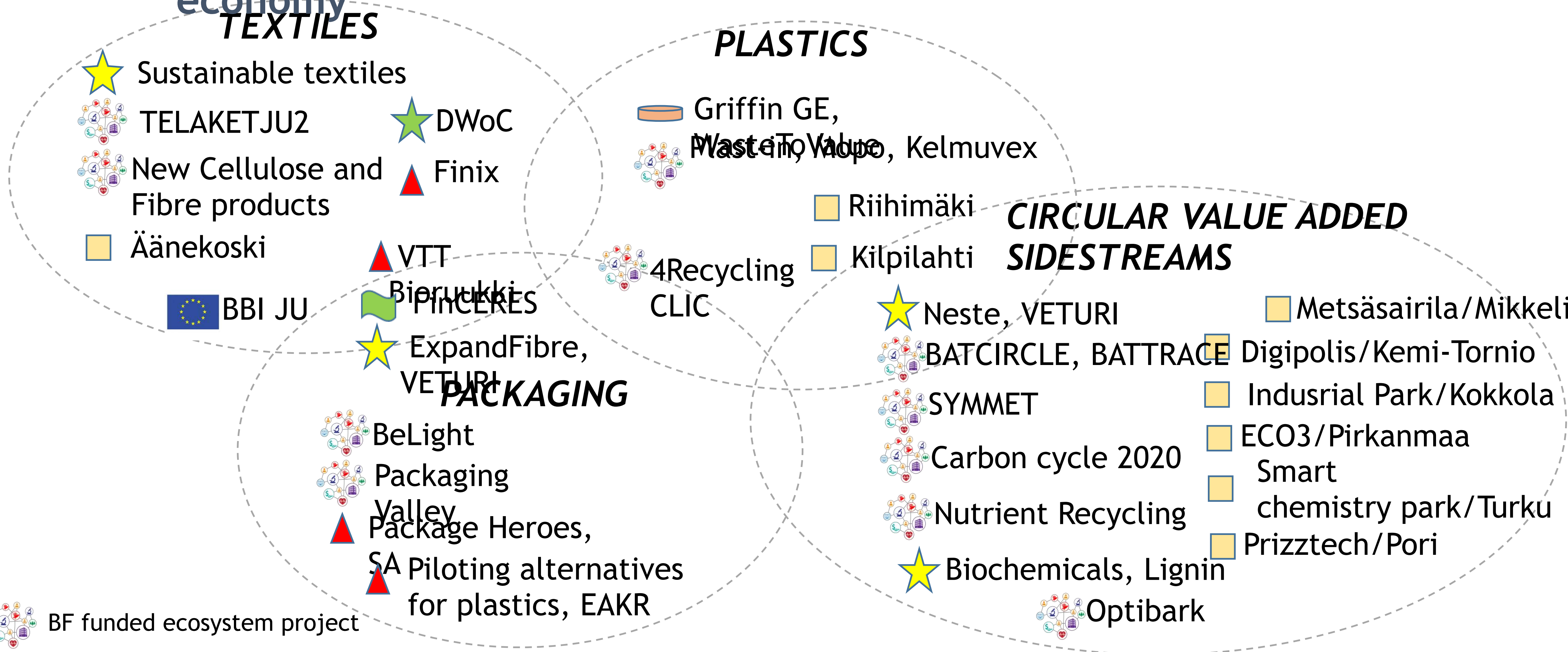
NEW PRODUCT DEVELOPMENTS

- Wood based textiles
- The next generation bio-based packaging
- Bio-composites
- Lignin applications
- Bio-based chemicals

OPEN INNOVATION ECOSYSTEMS

- ExpandFibre
- Cliq Innovation
- Telaketju- Co-Innovation of circular economy textiles
- SEED –digital transformation of biobased industry
- FinCeres

Future High Performance Ecosystems (HPE) in Bio and Circular economy



BF funded ecosystem project

BF funded strategic research

BF funded business ecosystem (companies)

National expertise centre

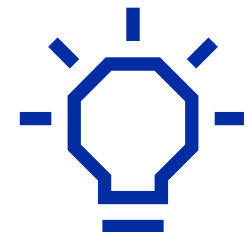
Regional industry parks

Ecosystem platform O...

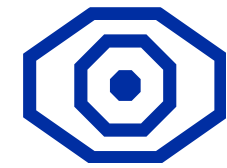
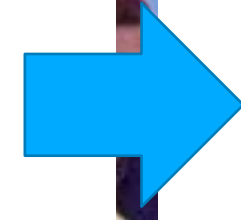
EU research infrastructure

National flag ship project

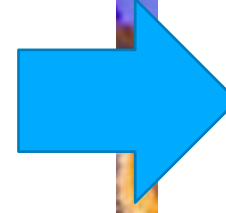
INVEST IN FINLAND – SERVICES FOR FOREIGN COMPANIES



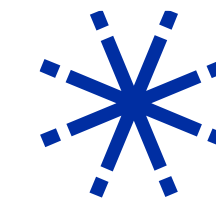
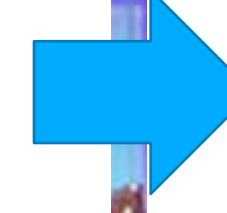
Opportunity
analysis



Exploring entry
alternatives



Data collection
& analysis



Facilitate
Corporate
Networking



Location
management



Setting up
a business



Our comprehensive services are
confidential and complimentary

**BUSINESS
FINLAND**

**INVEST IN
FINLAND**

**KIITOS
THANK YOU**

Mrs Helvi Väisänen
helvi.vaisanen@businessfinland.fi



Bio-based solutions company cases



Bio-based solutions company cases

Tapani Holappa
Sales Director
Pyroll Packaging



Bio-based solutions company cases

Emmi Kavander
Chief Communications Officer
NordShield (Nordic BioTech Group)





NordShield[®]
Protection by nature.

Harnessing the indisputable power of nature

Fiber solutions
March 2021





NordShield[®]

Vision

We want to substitute all usage of non-renewable ingredients and heavy metals in antimicrobial treatments



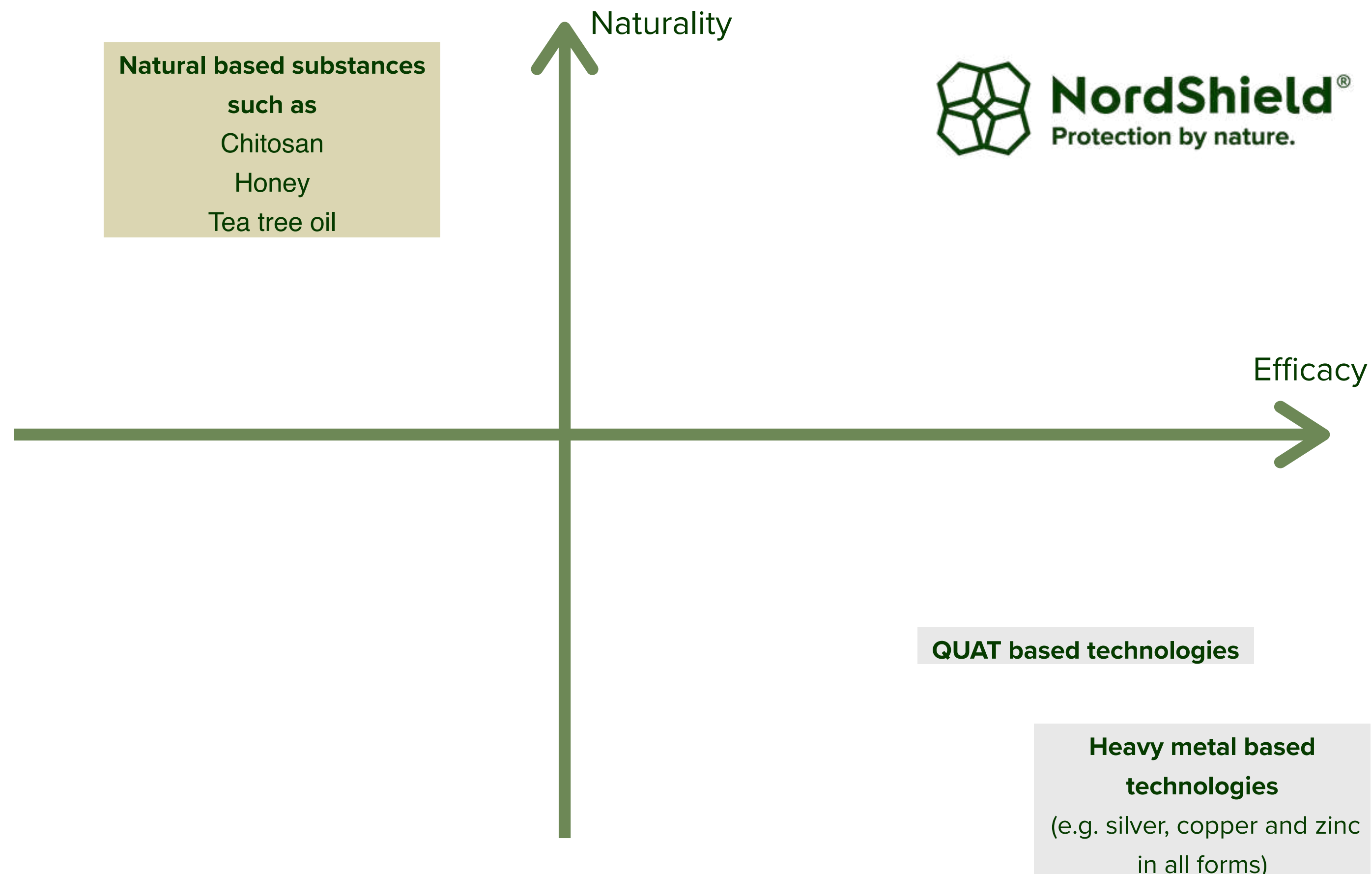
NordShield®

Mission

Offering and enabling adoption of antimicrobial protection that is safe for the planet and the life on it. Together with our partners, we work for the best tomorrow.

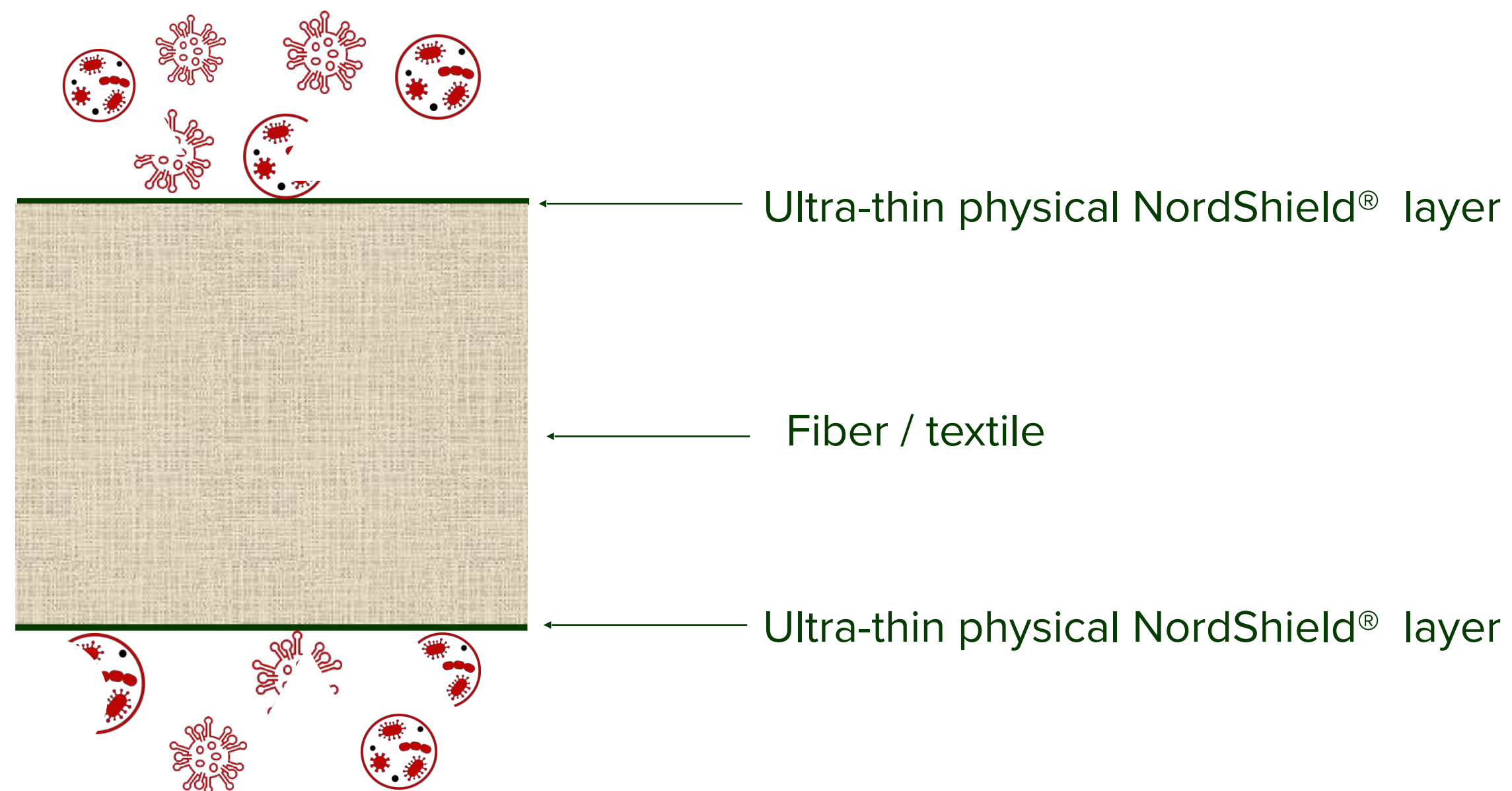
NordShield® antimicrobial technology:

A revolutionary, unique combination of naturality and power



NordShield® provides scalable, natural based antimicrobial technology that has the required efficacy for the market and is durable

A physical, and yet invisible, armor to inactivate viruses and bacteria



- All qualities of the fabric incl. look, touch, feel, smell and colors remain the same
- The unique layer formation ensures seamless coverage of the fiber

Durable protection in the textile & sports industries

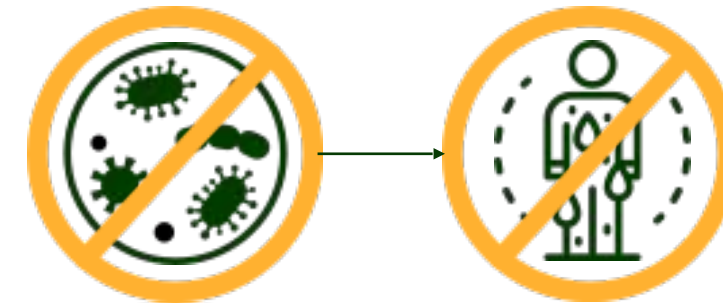
NordShield® Fiber




NordShield® EcoLayr
Anti-mold treatment for transport and warehousing



NordShield® BioLayr
Non-biocide for consumer area:
Durable antiviral and antibacterial treatment



NordShield® Pathogen Barrier 
For medical area:
Durable pathogen barrier against viruses and bacteria, classified as medical device



Antiviral and antibacterial disinfectants with long lasting NordShield® antimicrobial protection

NordShield® Brilliant series



Brilliant Surfaces



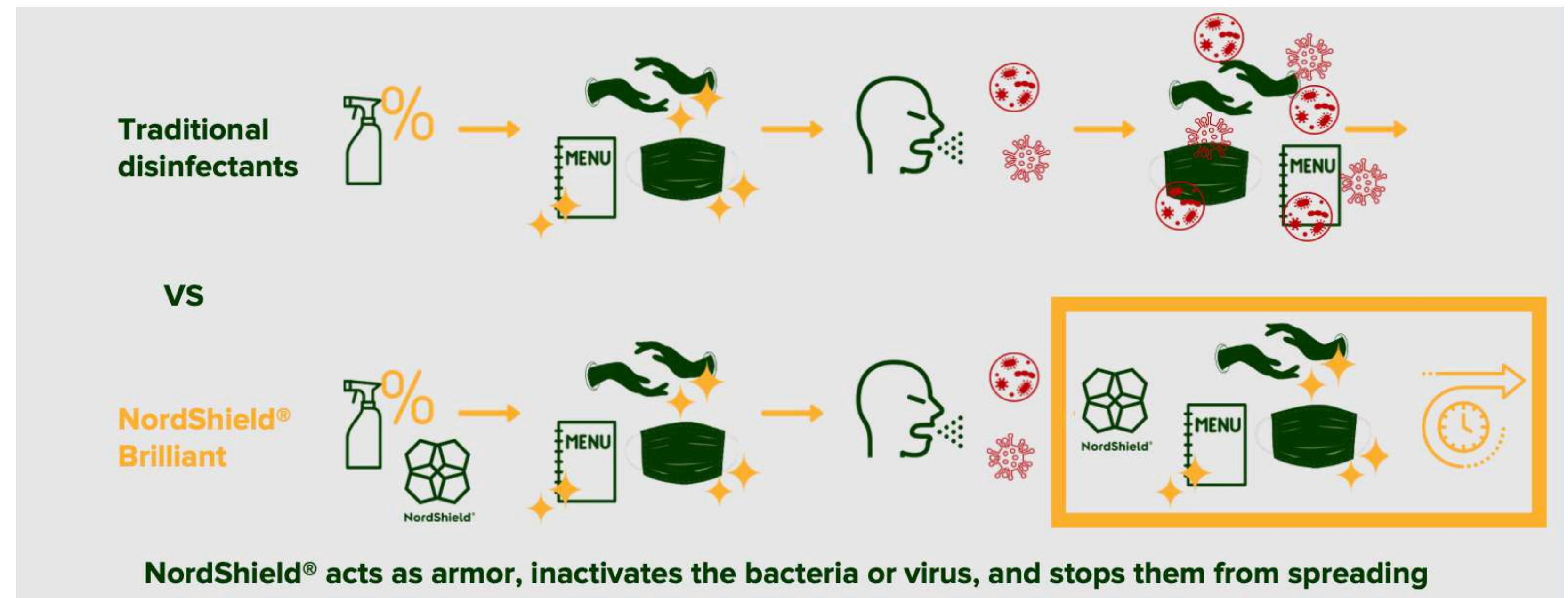
Brilliant Mask Armor



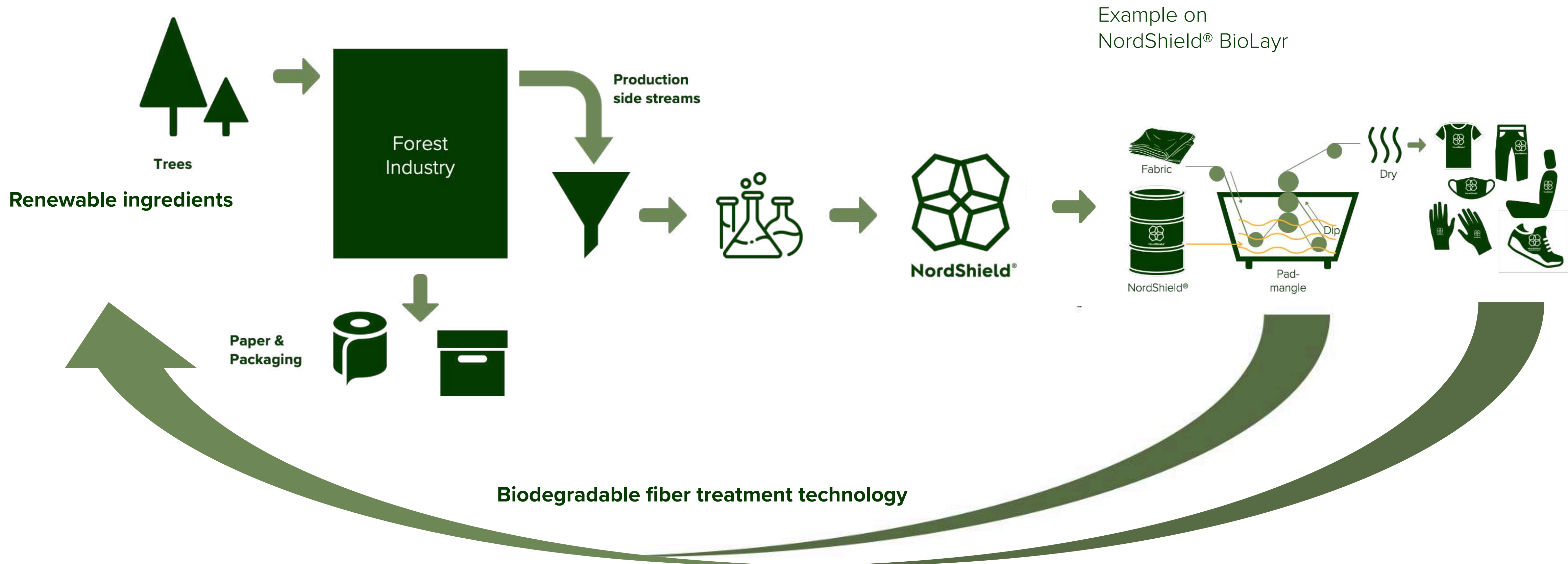
Brilliant Hands



Brilliant Fresh



NordShield® has a sustainable lifecycle, serving circular economy



Summary:

NordShield® has developed and commercialized a unique and irreplicable antimicrobial technology that solves a wide range of global environmental issues, with application areas that are nearly endless.

NordShield® offers worldwide unique, scalable, natural based antimicrobial protection.



Tested, verified &
patented



Certified



Natural-based



Durable



Sustainably produced

Together with our partners and stakeholders, we want to create the best tomorrow.

Bio-based solutions company cases

Pia Qvintus
Business Development Director
Spinnova - The Sustainable Fibre Company

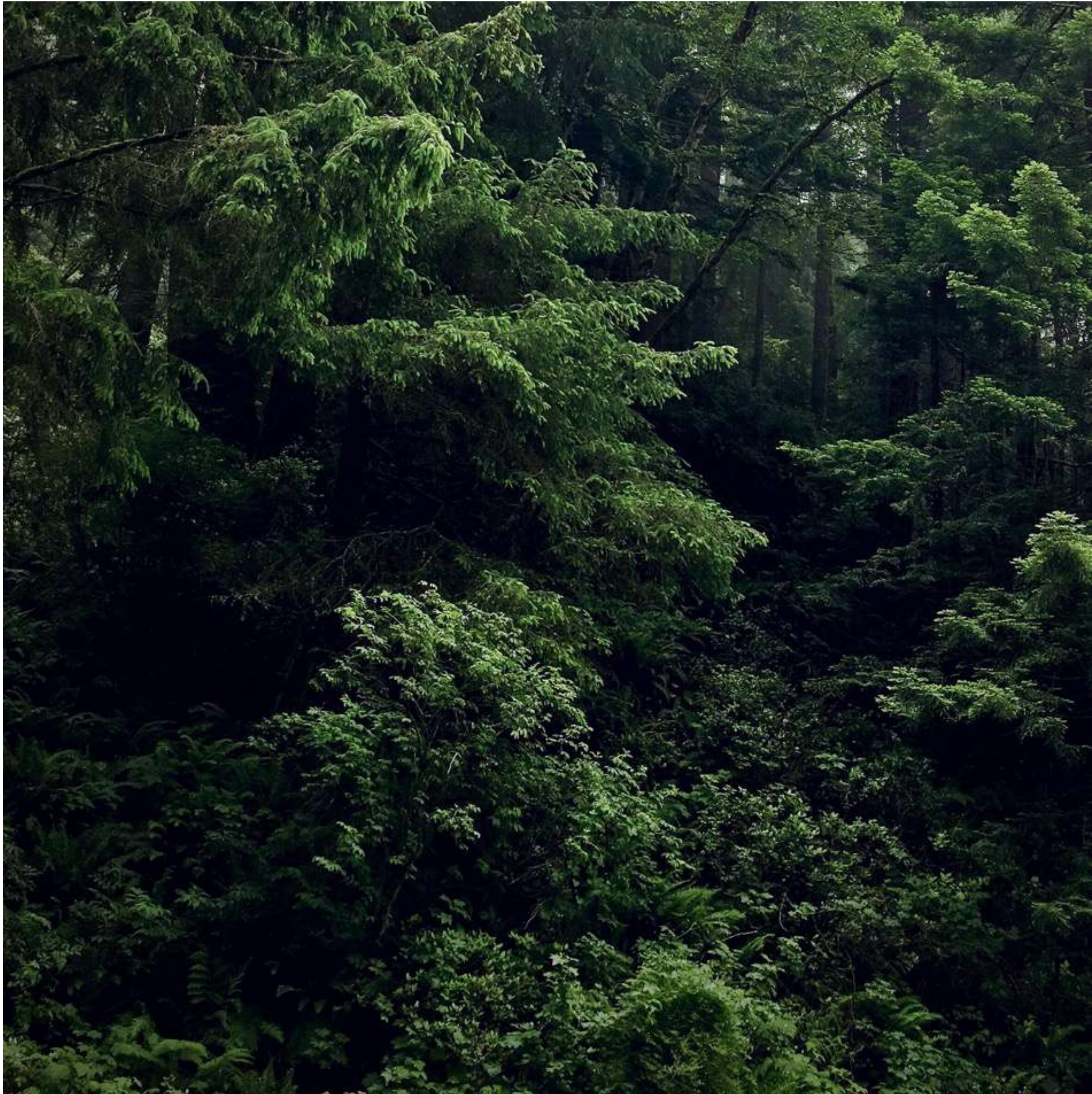


SPINNOVA®



The Sustainable Material Company
Nordic Circular Hot Spot – Spring Seminar
Wed 24 March 2021
Pia Qvintus, Business Development Director

OUR MISSION

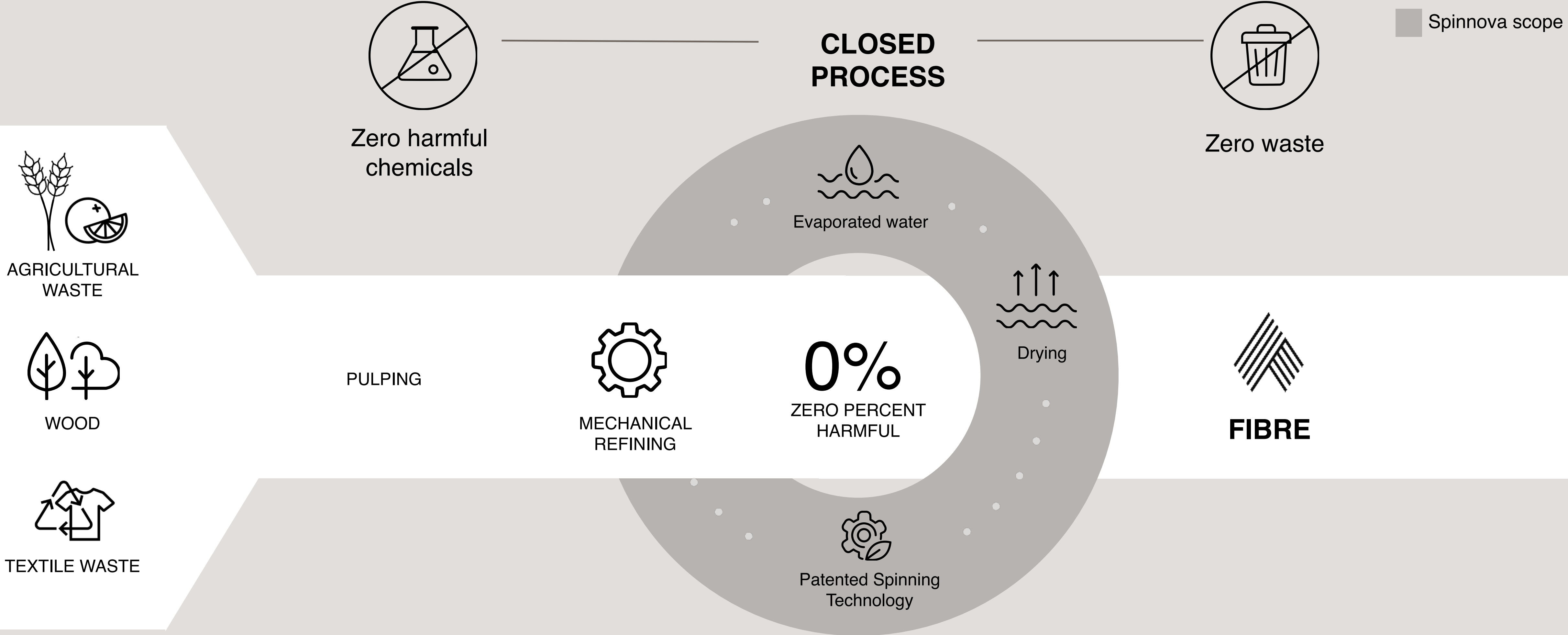


OUR SOLUTION

A breakthrough technology for a new, environmentally friendly textile fibre made directly from wood pulp or side streams without **dissolving** and harmful **chemicals**.

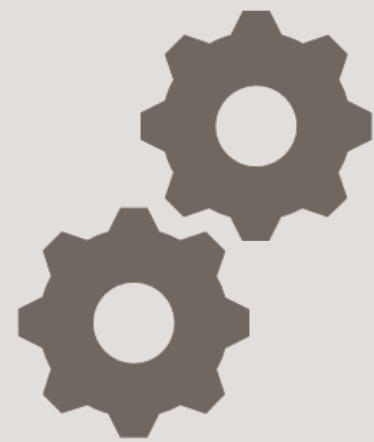


Spinnova is a technology platform that can convert many raw materials in the most sustainable textile fiber



Key Technical Differentiators

Spinnova



Mechanical treatment

Refining wood fibres into micro fibrils.

- Grinding pulp mechanically
- Feedstock is micro fibrillated cellulose
- Dry spinning and drying
- No dissolving or harmful chemicals
- No washes / rinses
- No side / waste streams

Man-made Cellulosics



Dissolving

Chemically breaking wood fibres into cellulose polymers.

- Chemically dissolving wood fibres into a polymer solution
- Feedstock is dissolved pulp
- Wet spinning with harmful chemicals
- Several wash and rinse cycles
- Side and waste streams*

* Lyocell uses a complex chemical process, however in a closed cycle, so it's more sustainable than a viscose process.

Our Sustainability Promise

NO MICROPLASTICS

0%

As Spinnova is made of wood, there are zero microplastics in the Spinnova fibre. It will never pollute our oceans and the life within them.

ALL NATURAL

100%

The Spinnova fibre is completely natural. Our raw material commitment is to only use FSC and/or PEFC certified wood or cellulosic waste streams.

BIODEGRADABLE

100%

At the end of its life, the Spinnova fibre can return to nature quickly. Taking just a few months to biodegrade in natural and marine environments, it has a fast end of life, leaving nothing harmful behind.

LESS WATER USE

99%

To be exact, our water use is 99.5% less than cotton's over the entire lifecycle from farming to fibre process. While cotton plants rely on heavy watering, trees don't. No water is added during our process.

NO HARMFUL CHEMICALS

0%

We are experts on how we can make material, such as pulp, behave as we want it to. This is how we have created a process, where wood fibre does not need dissolving with harmful chemicals. Instead, we refine it mechanically.

MINIMAL CO2 EMISSION

CO2

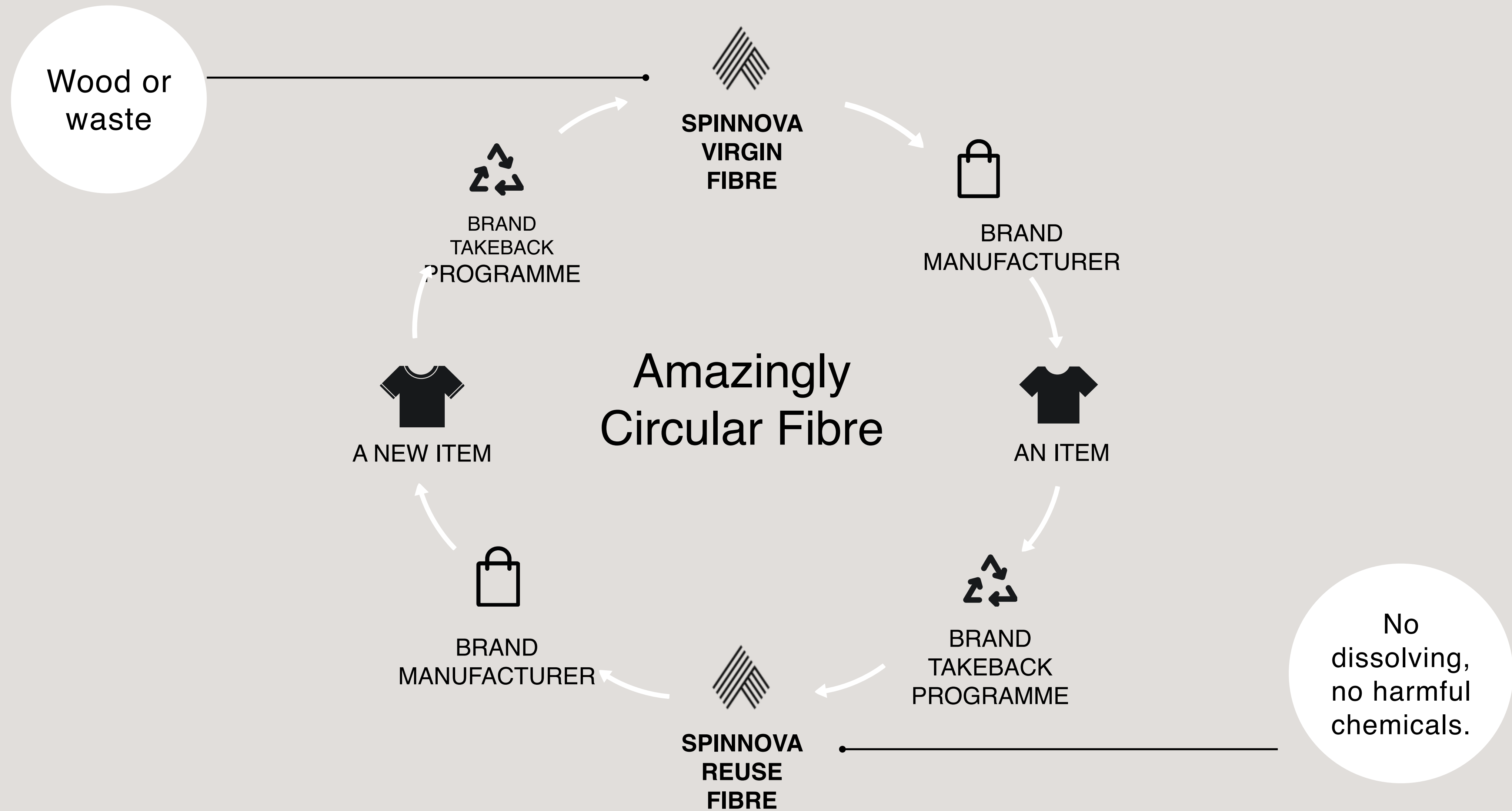
Over the entire lifecycle, our emissions are considerably less than cotton's. Starting with our raw material, responsibly farmed wood, which helps our planet breathe. Trees grown this way absorb more CO2 from our atmosphere than lumbering and pulping emit. Combined with our low-emission tech, we help to counteract climate change.

100% CIRCULAR

100%

Another unique feature of the Spinnova fibre is that it can be upcycled in our process without losing quality or need to add virgin fibres. Always without using harmful chemicals. A whole new world of opportunity for real circularity, without sustainability shortcuts!

Circular Ecosystem of the Future by Spinnova



SPINNOVA TODAY

- Industrial pilot factory production in Finland
- 1st commercial mill in production in the end of 2022
- Wood-based kraft pulp first commercial raw material
- Waste stream based fibres also in R&D pipeline
- Commercializing with brands; e.g. Bestseller, Bergans, H&M and Marimekko
- Several demo product launches coming in the near future





Thank you!
pia.qvintus@spinnova.fi

Circular Events 2021 Kickoff

**BUSINESS
FINLAND**





Agenda

- **Nordic perspective on circular economy**
Cathrine Barth, Circularities
- **Circular industrial locomotives**
Susanne M. Nævermo-Sand, Celsa Nordic
- **Visual intelligence as fuel for circular innovation**
Hanne Wetland, Knowit
- **Panel discussion**
with Cathrine Barth (Circularities), Susanne M. Nævermo-Sand (Celsa Nordic), Hanne Wetland (Knowit) and Marthe Haugland (Nordic Innovation)
- **The Nordic Circular Hotspot Partnership Program**
Einar Kleppe Holthe, Natural State
- **Q&A dialogue with the audience**



Onboarding
April 2021

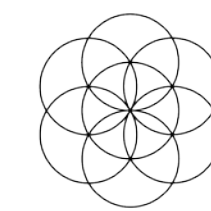


Pre-launching
June 2021



Nordic perspective on circular economy

Cathrine Barth
Founder & Circular Strategist
Circularities



CIRCULARITIES
CIRCULAR STRATEGY AGENCY



Circular industrial locomotives

Susanne M. Nævermo-Sand
Sustainability & Communication Manager
Celsa Nordic





Nordic Circular Hotspot 2021

CELSA Nordic

Susanne M. Naevermo-Sand





OUR VALUE CHAIN IS BASED ON THE CIRCULAR ECONOMIC PRINCIPLES



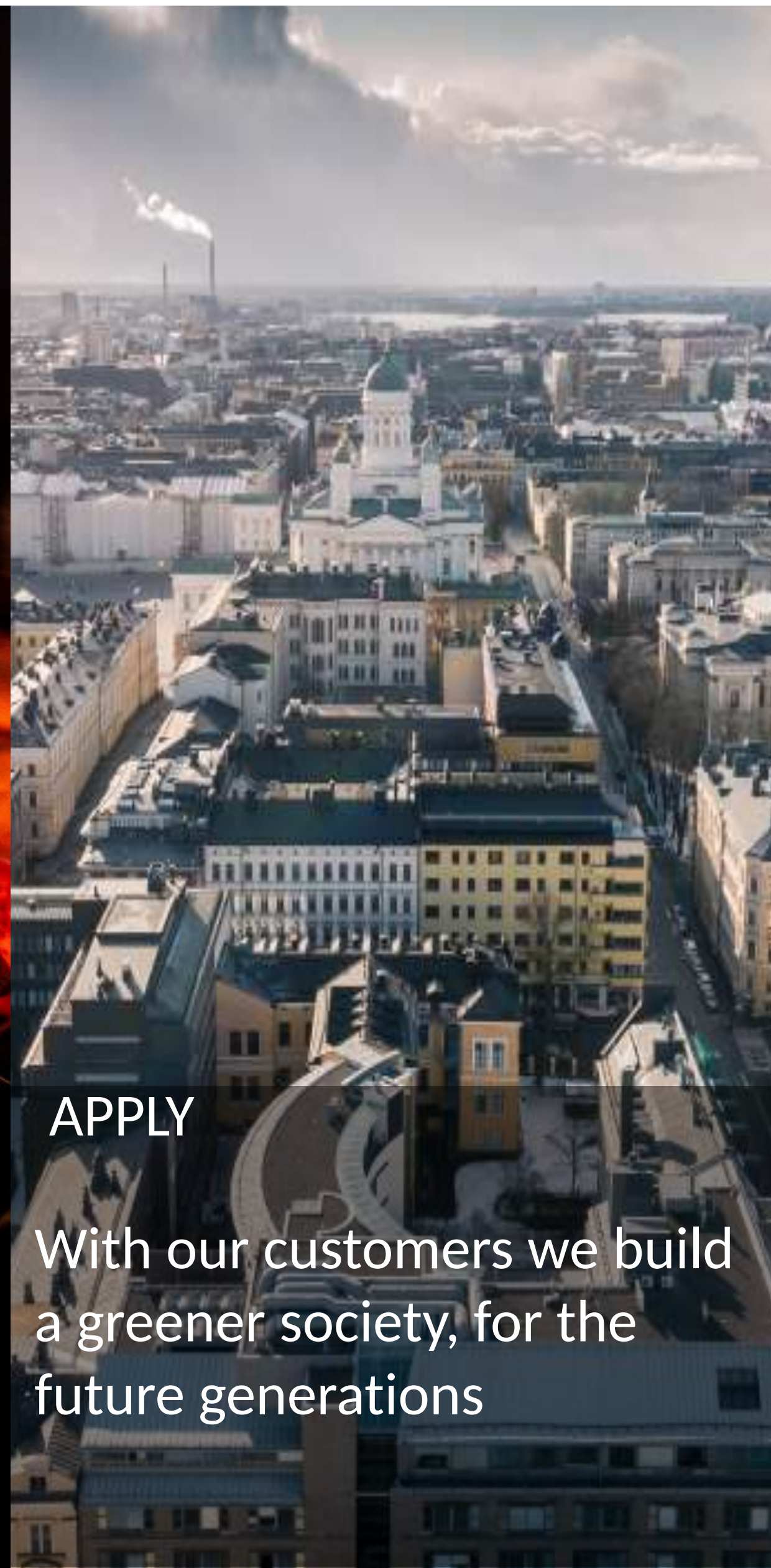
REUSE

Let your scrap be recycled in Europe's cleanest manufacturing process and get a new life as climate-smart reinforcing steel



PRODUCE

Nordic sustainability. Renewable reinforcing steel manufactured with hydropower and passion



APPLY

With our customers we build a greener society, for the future generations



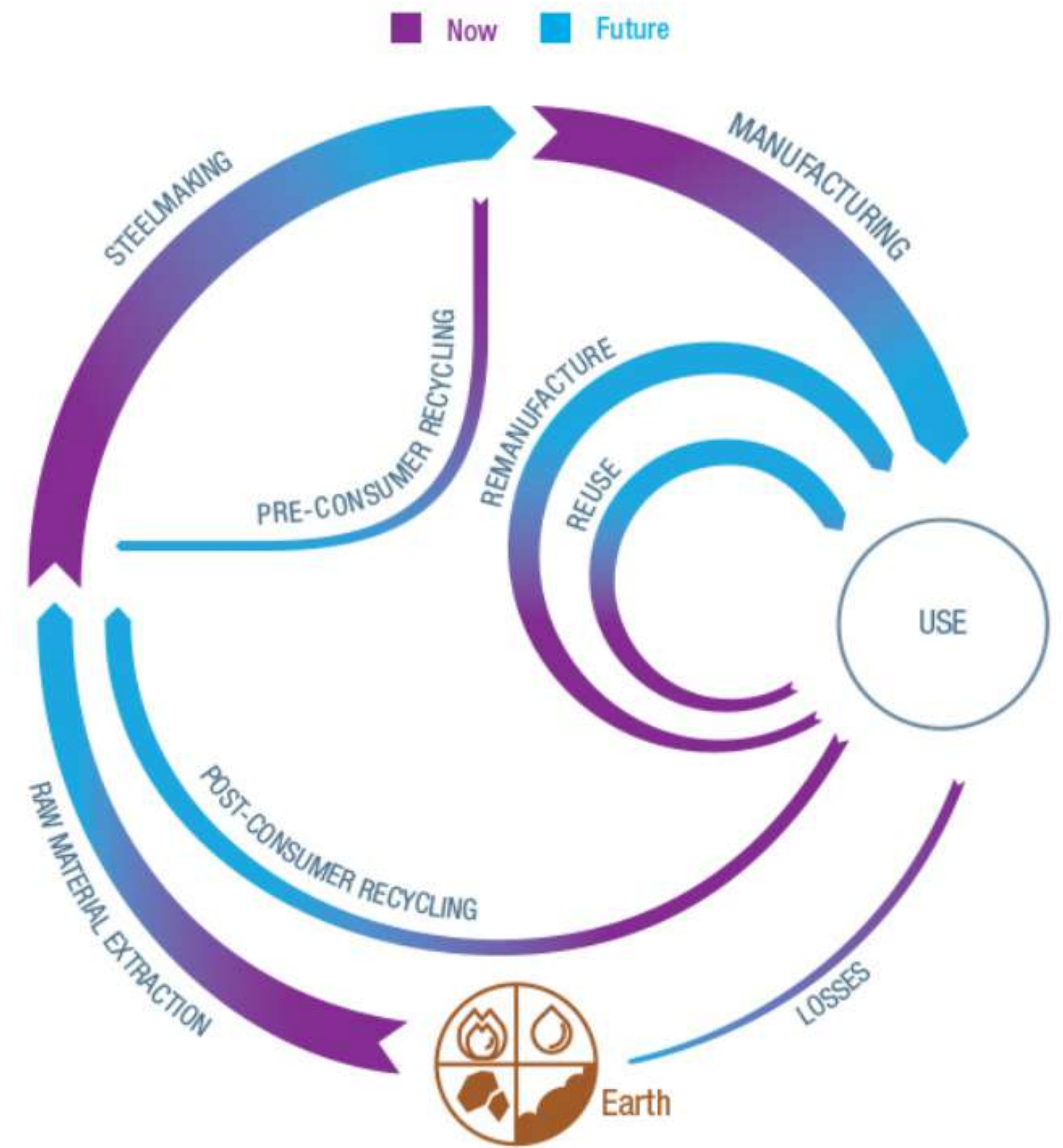
RECYCLE

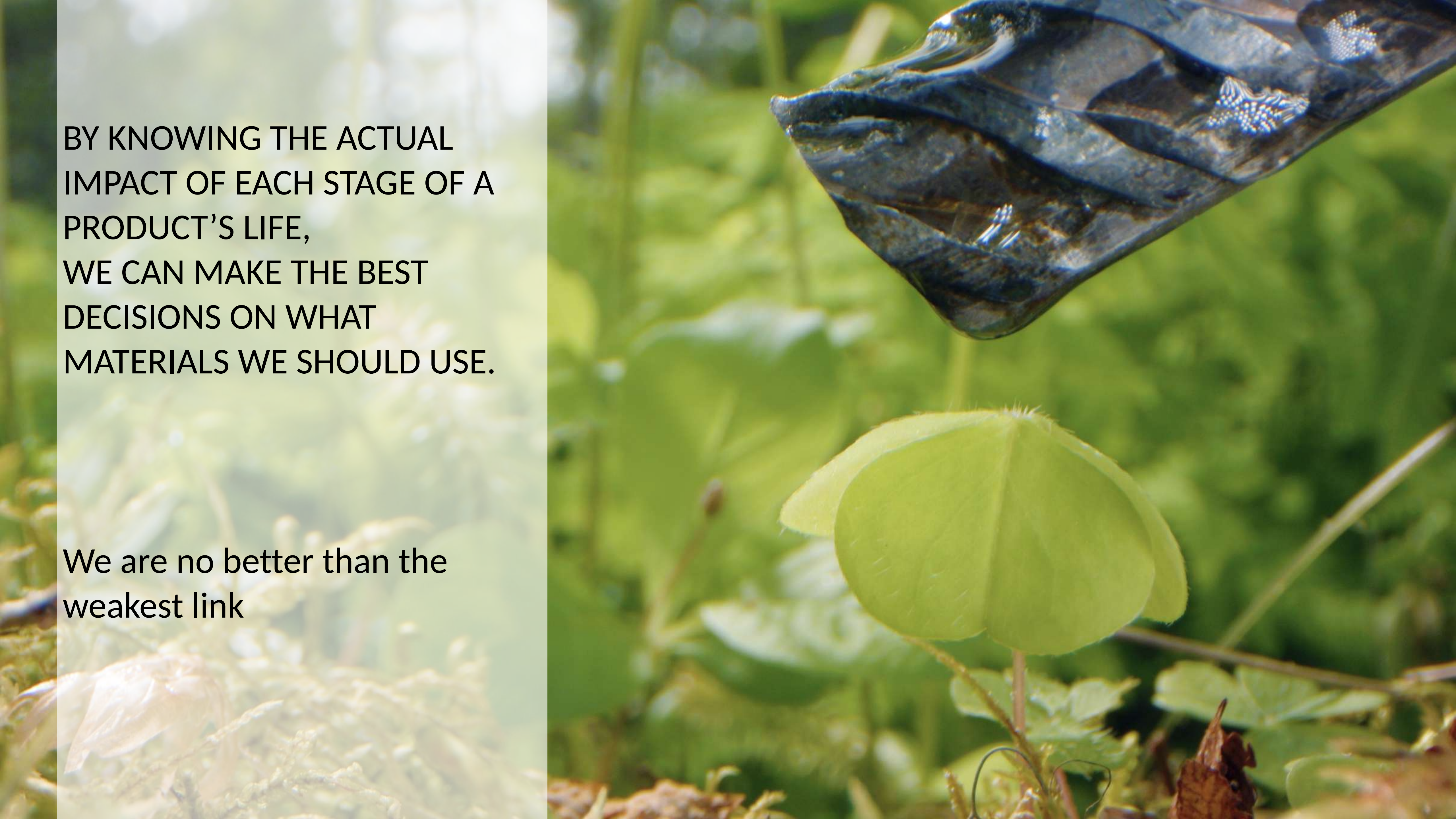
Steel is 100% recyclable. Recycled steel maintains the inherent properties of the original steel.

STEEL IN THE CIRCULAR ECONOMY

A SUSTAINABLE CIRCULAR ECONOMY IS ONE IN WHICH SOCIETY REDUCES THE BURDEN ON NATURE BY ENSURING RESOURCES REMAIN IN USE FOR AS LONG AS POSSIBLE.

STEEL COMPONENTS CAN BE EFFECTIVELY REUSED, REMANUFACTURED, OR RECYCLED





BY KNOWING THE ACTUAL
IMPACT OF EACH STAGE OF A
PRODUCT'S LIFE,
WE CAN MAKE THE BEST
DECISIONS ON WHAT
MATERIALS WE SHOULD USE.

We are no better than the
weakest link

celsa 
nordic

Renewable reinforcing steel
manufactured with
hydropower and passion

Visual intelligence as fuel for circular innovation

Hanne Wetland
Business Designer
Knowit



knowit

Visual intelligence as fuel for circular innovation

@hannewetland

Innovation nerd and facilitator



Hanne Wetland – LEARN FROM 500 INNOVATION PROJECTS

YouTube

Want to see more and join us at next years conference? Get your tickets at y-oslo.co...

Hvordan bli innovasjonsguru™ *

 Hanne Wetland
Jan 29, 2018 · 2 min read

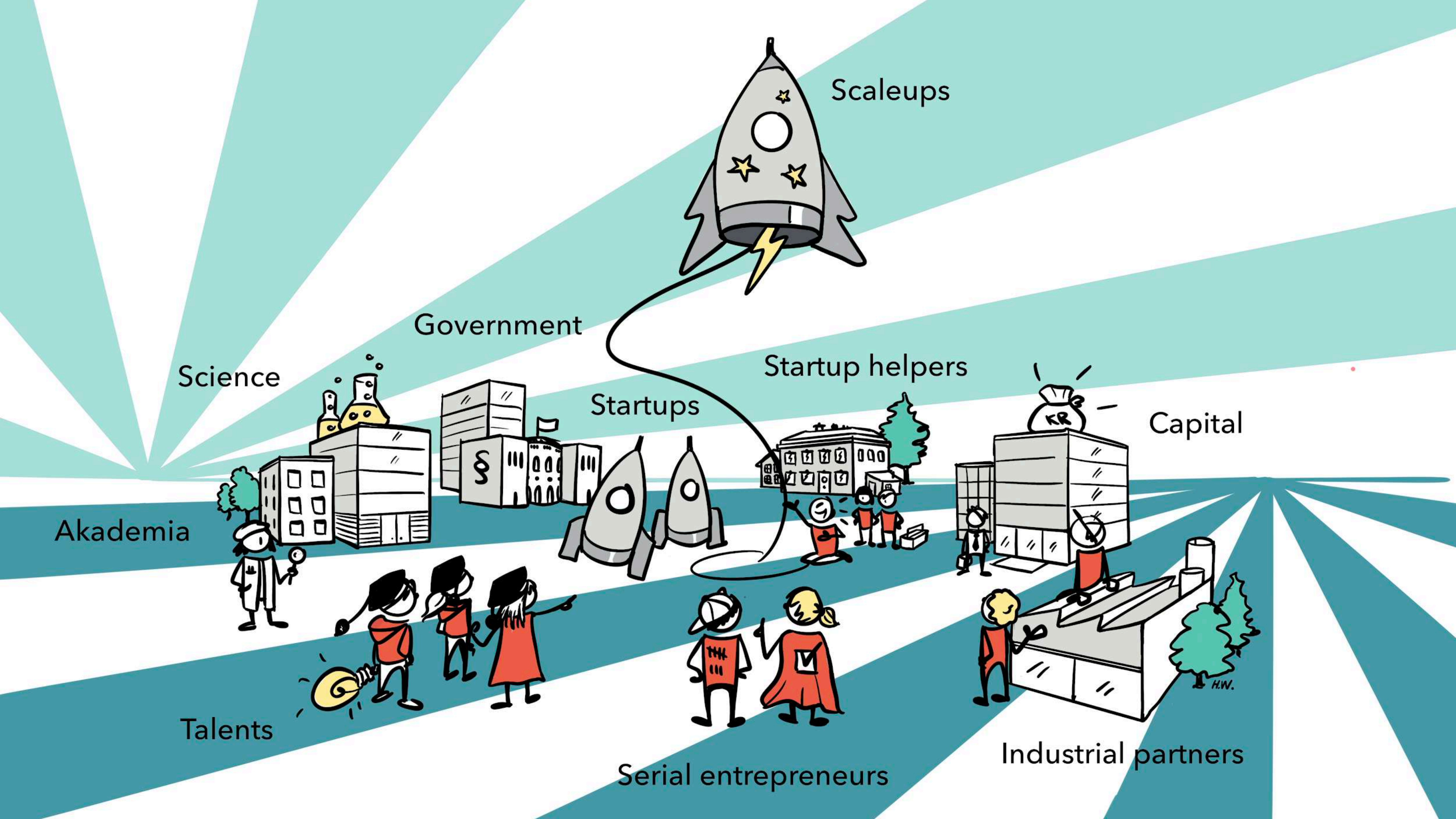


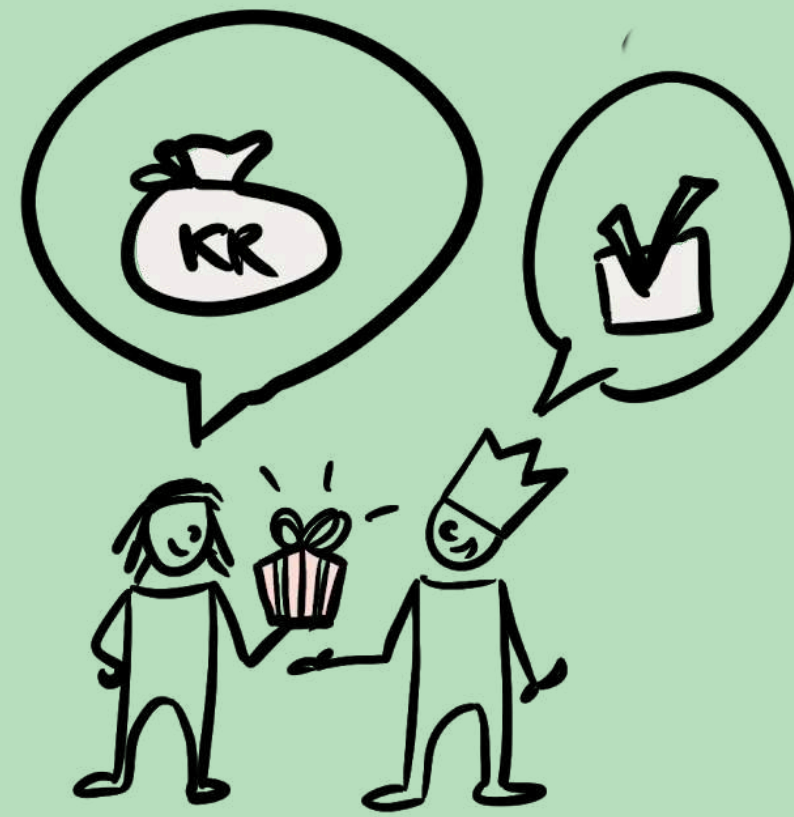
Jeg har de siste 10 årene lest både det ene og det andre av både den ene og den andre innovasjonsguruen. Jeg har snakket med mange innovasjonsnerder, hengt på guruarrangementer og brukt gurugreier. *

Nå har jeg samlet all denne innsikten inn i ett rammeverk som du kan bruke dersom du også har lyst til å bli innovasjonsguru™ .



Dette kan bli deg.





The innovation methodes we use are made
for a linear economy.

Customer is king

Growth hacking

Customer journeys

Jobs-to-be-done

Lean innovation

problem-solution-fit

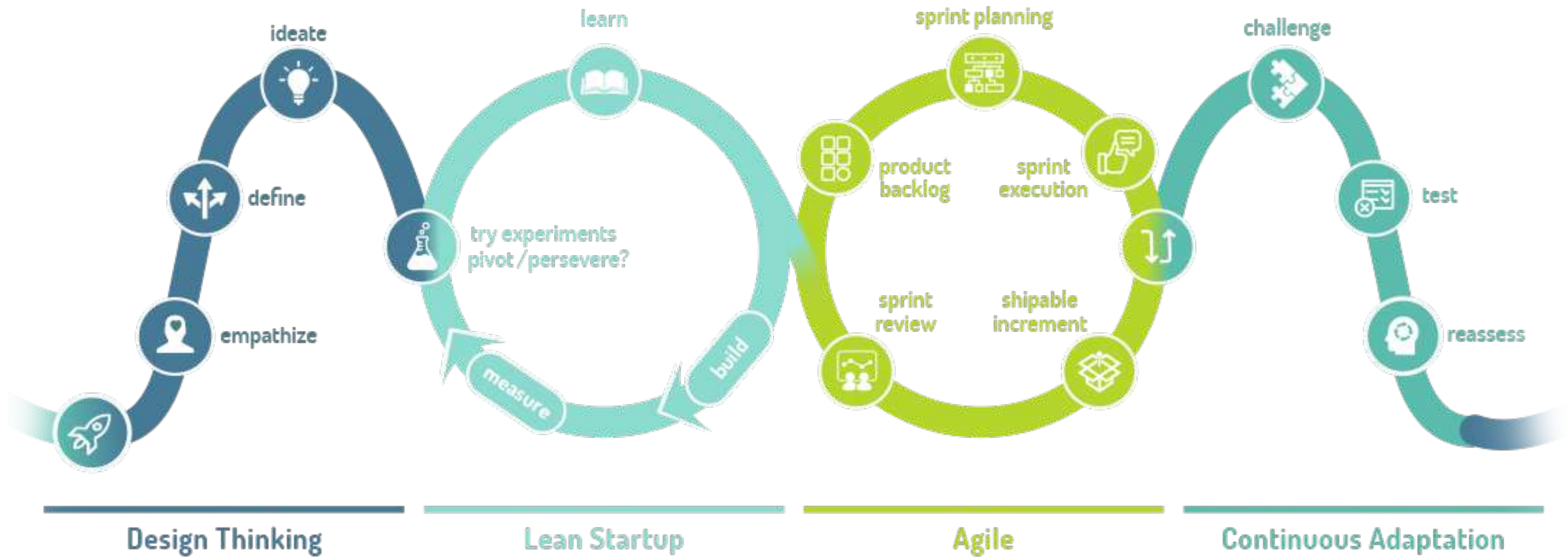
Potential market

Early adoptors

Innovation accounting

product-market-fit

I.e.



We need other
innovation methodes for a circular economy

Systems are super.

How might the
nordics become
an industrial
supersymbiosis?

Key question for innovation

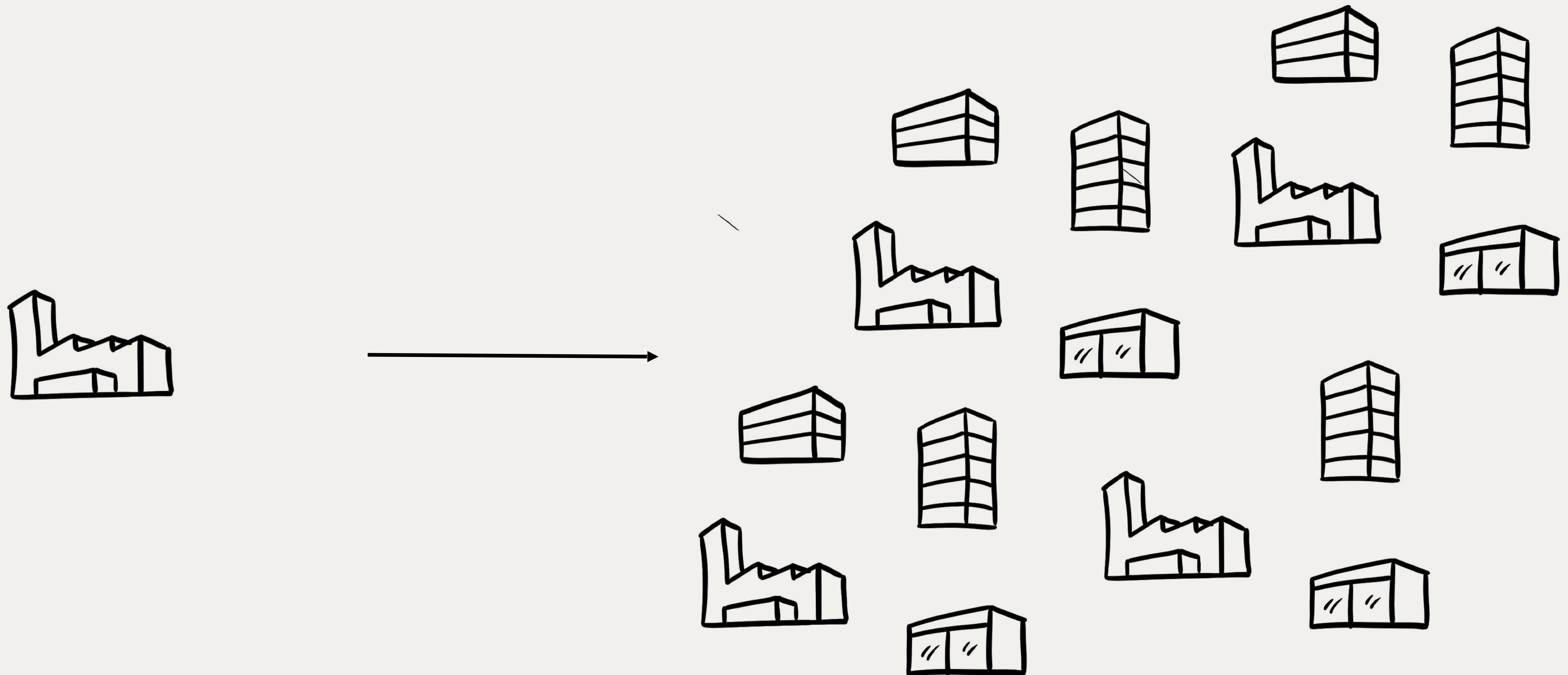
From:

How do you solve your customers problems?

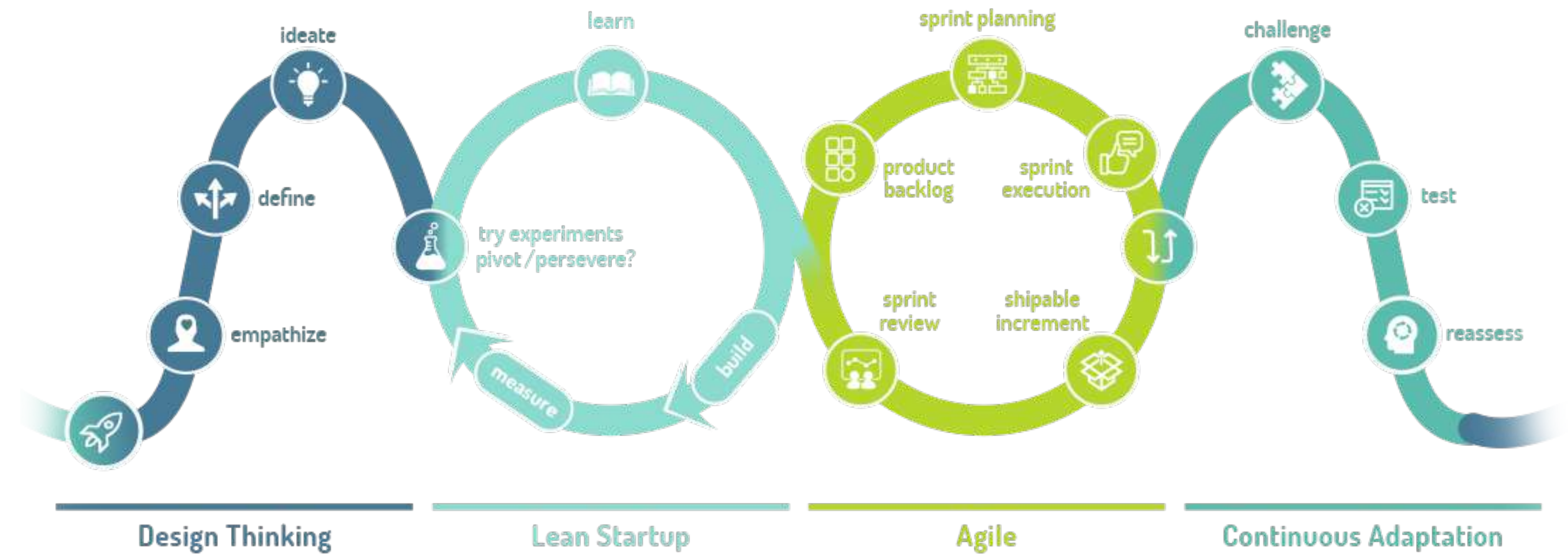
To:

How do you make a circular system better?

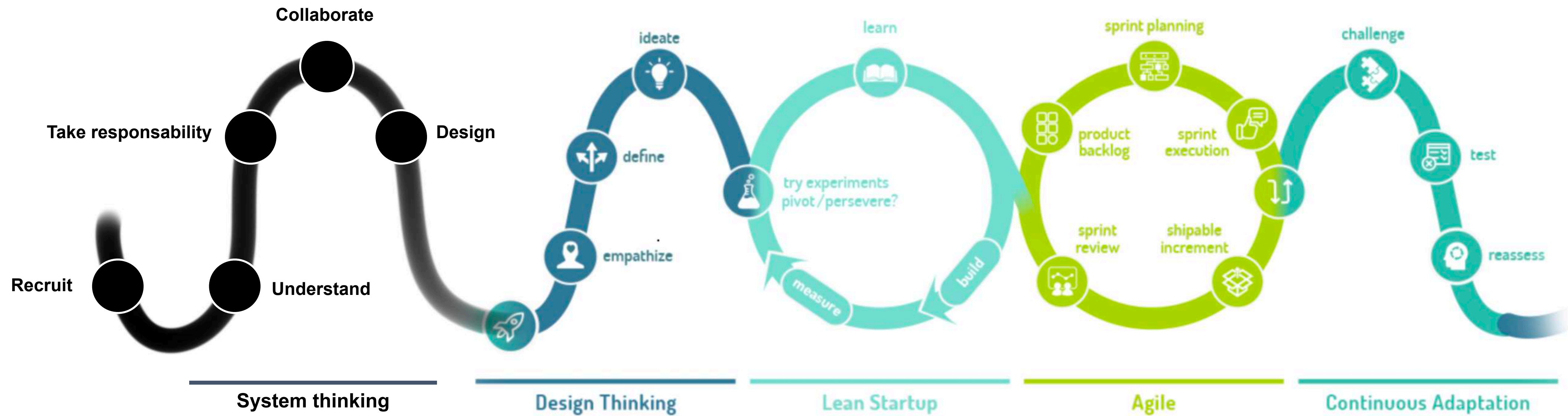
We are used to do innovation inside of organisations



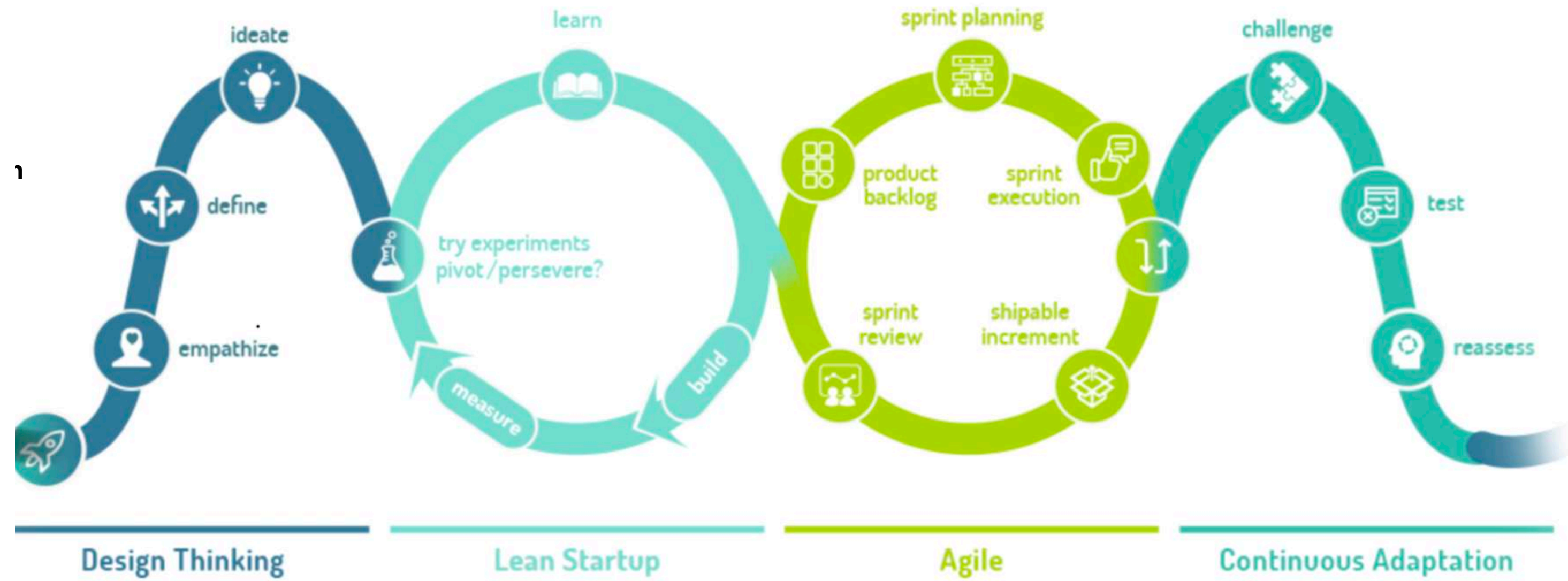
From this



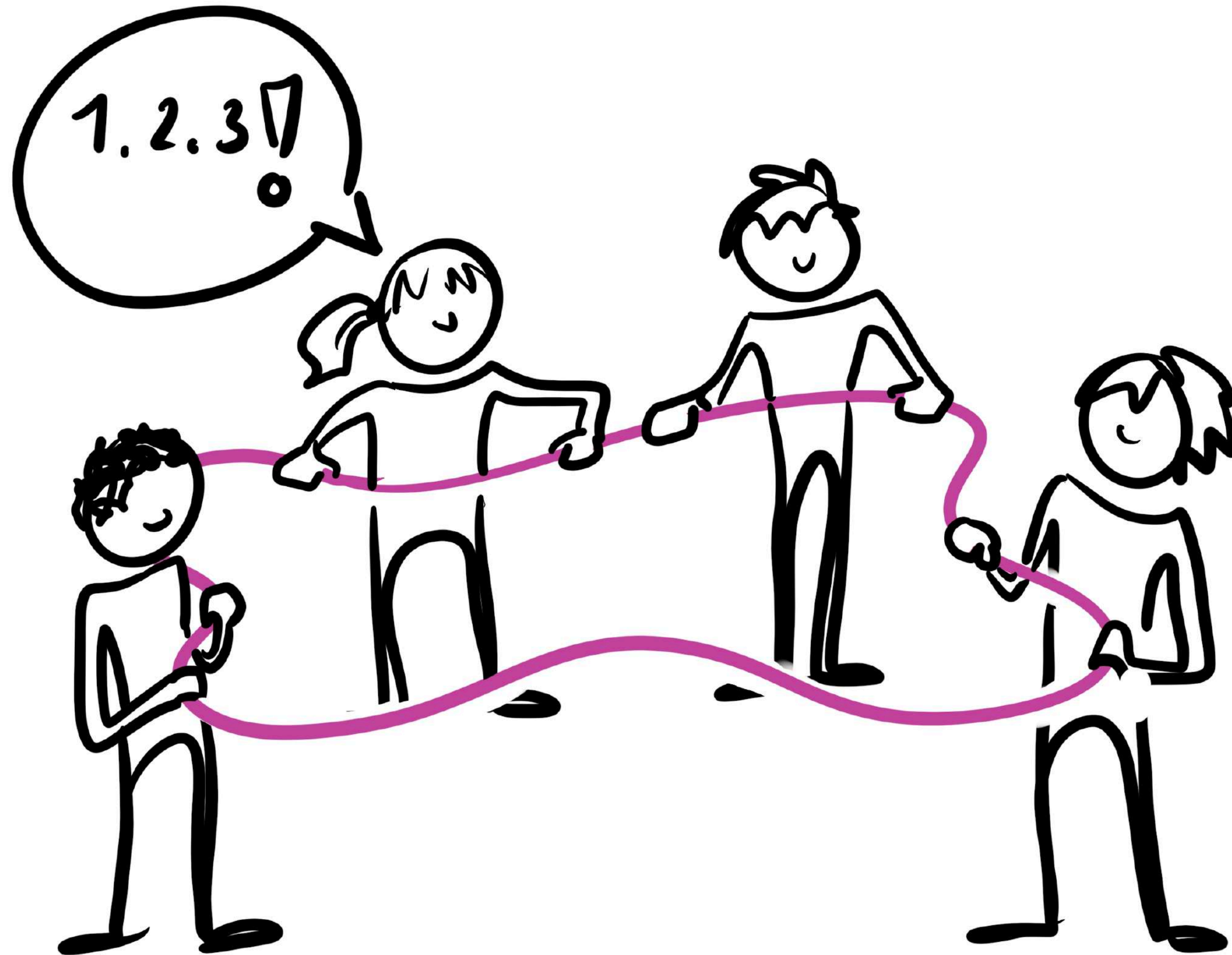
To this

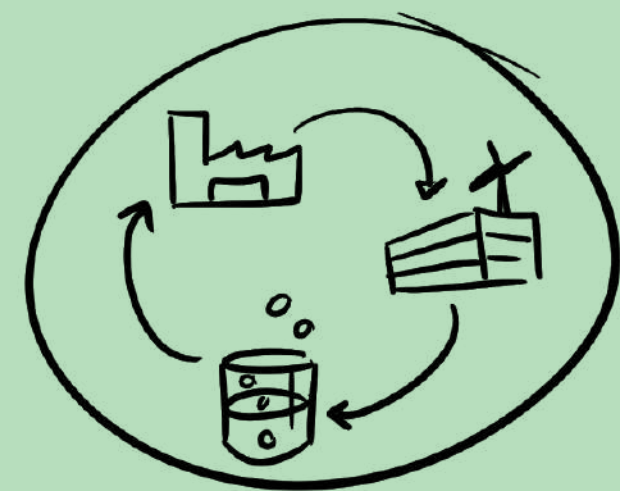


To this



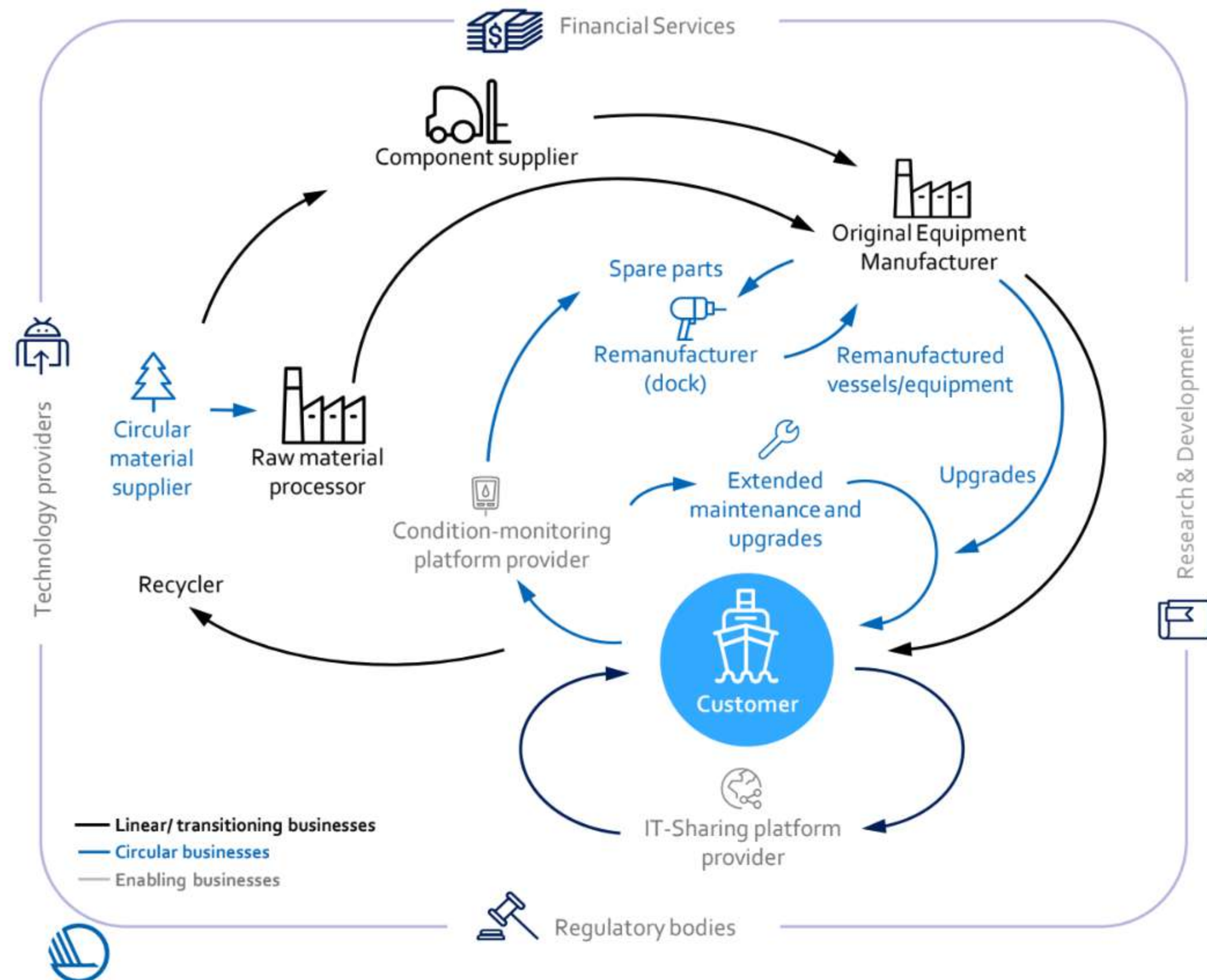
We must all act at the same time





Circularity is not a text.
It's a map - visualise it!

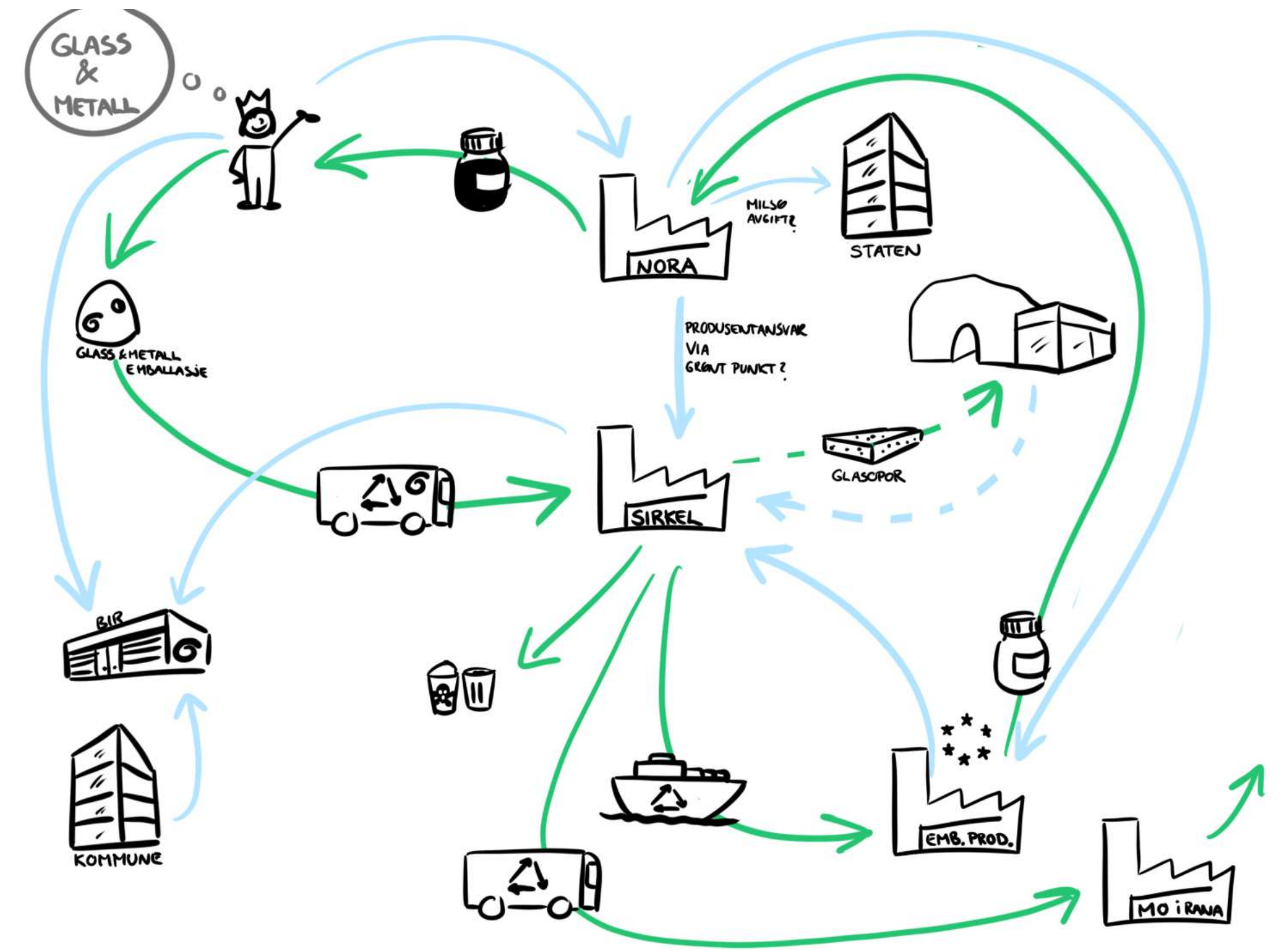
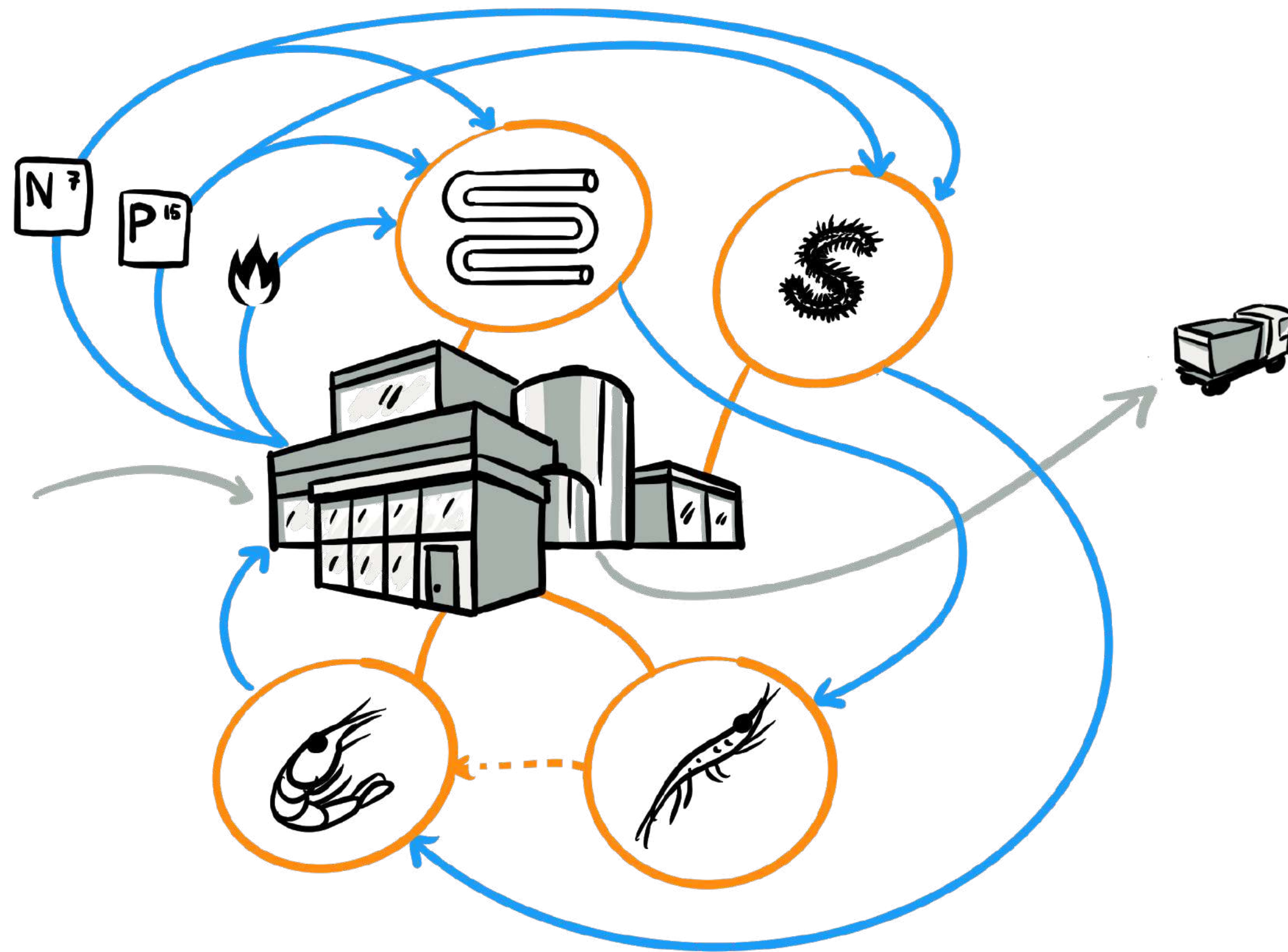
We should all be able to work like this



KRETSLØP - Den Magiske Fabrikk

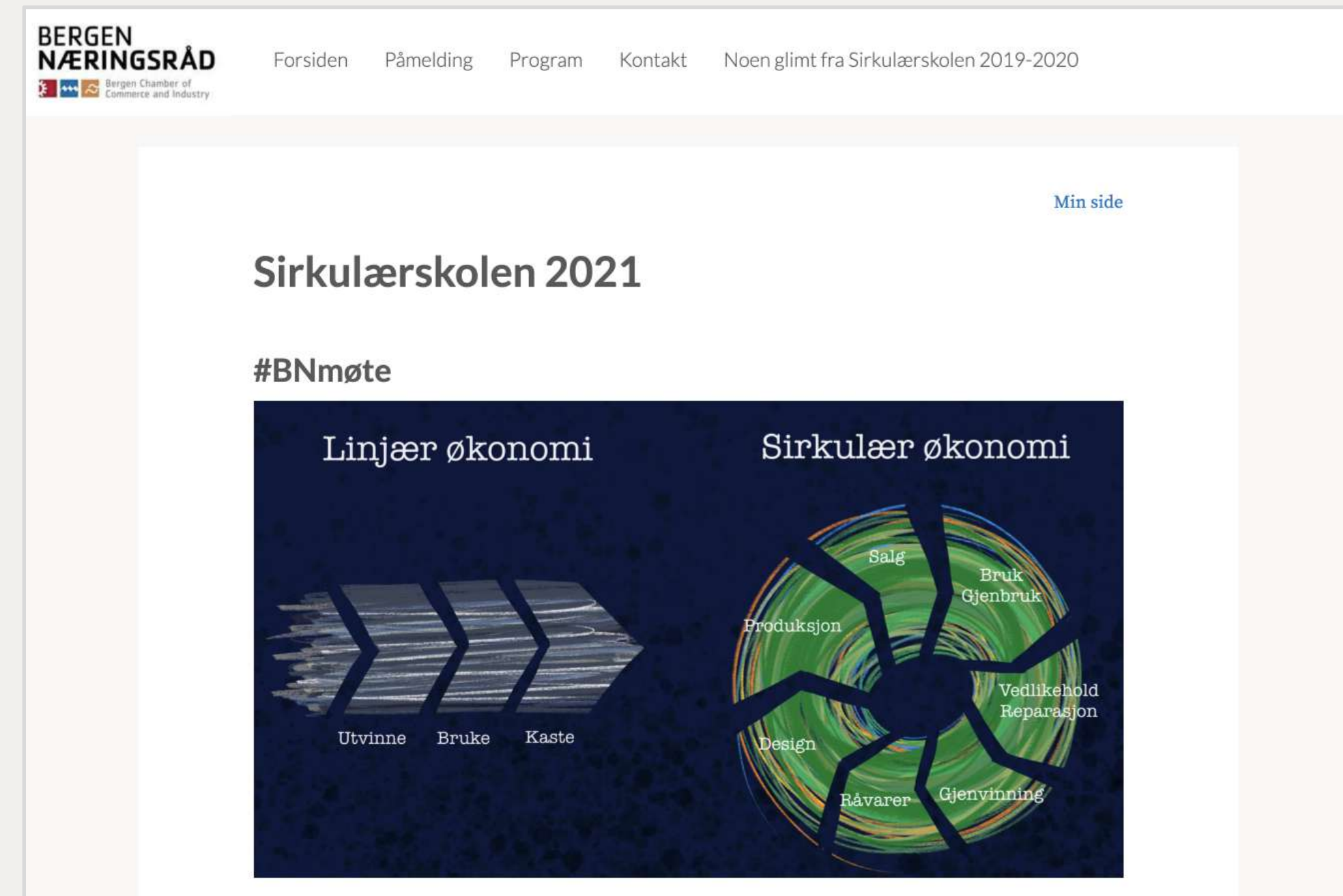
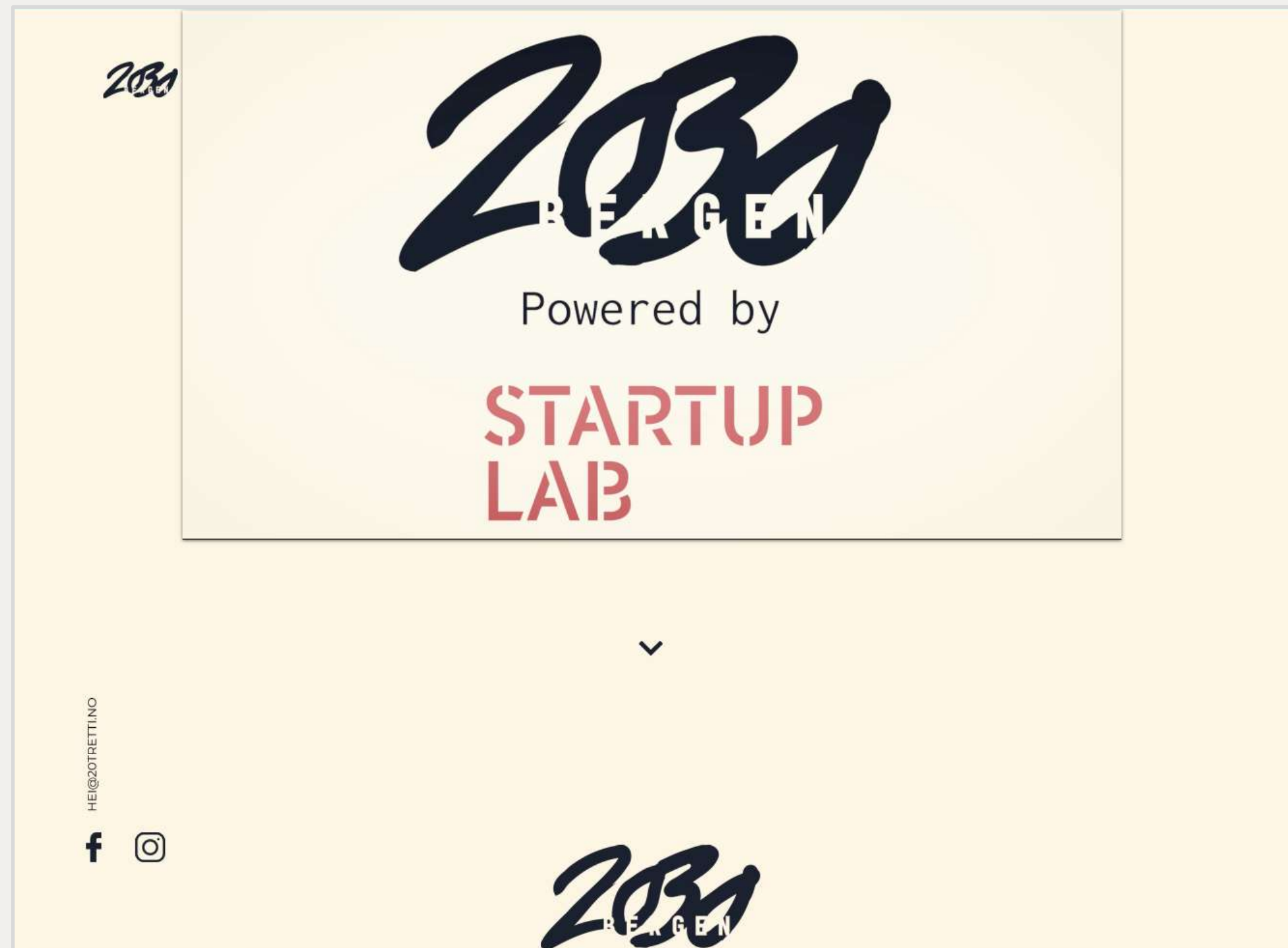


Or this



Five system perspectives

Currently applied in two circular innovation programs



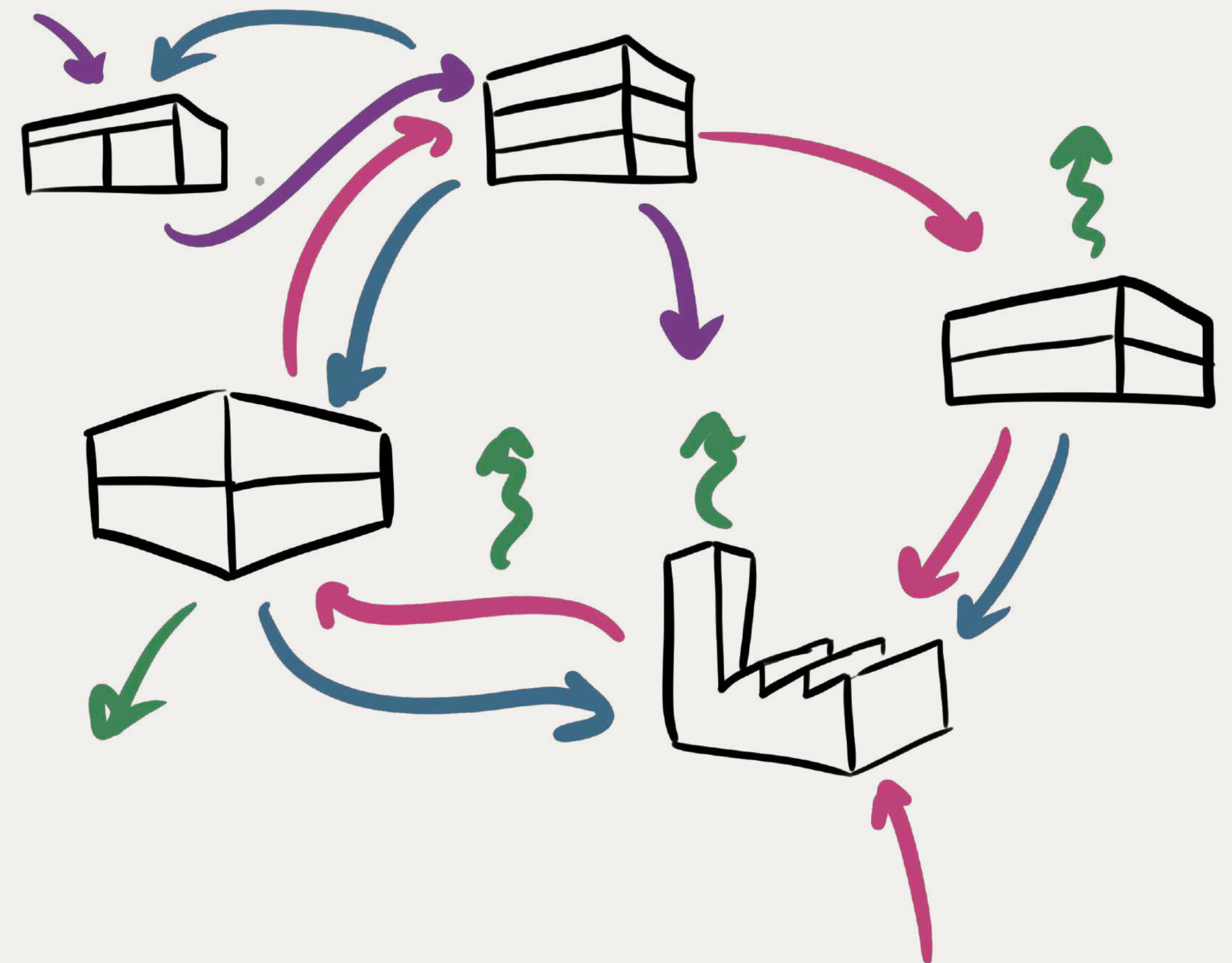
> Value circles

Goal

Give everyone access to understanding and mapping out the tangible and intangible circular flows within a system. Making sure we all see the same picture.

I.e.

How food, lawn movers or other resources flow through society.



Every resource has its color

1. **Black: emissions**
2. **Grey: Pollutants and mixed waste**
3. **Orange: Product**
4. **Light green: material 1**
5. **Dark green: material 2**
6. **Light blue: Energy**
7. **Dark blue: Money**
8. **Purple: data**

The meaning of arrows



Colour = type of resource



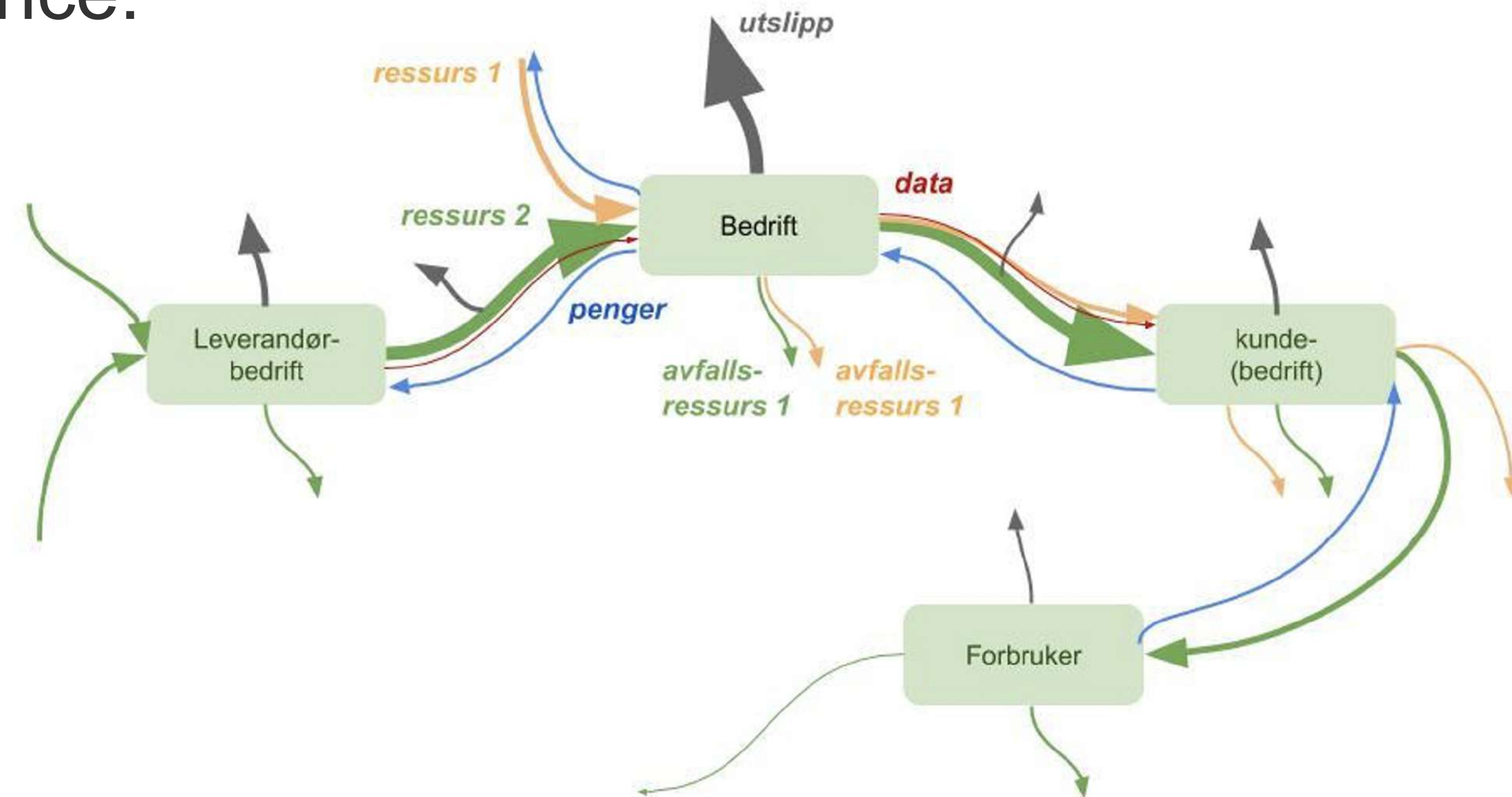
Density = amount/value

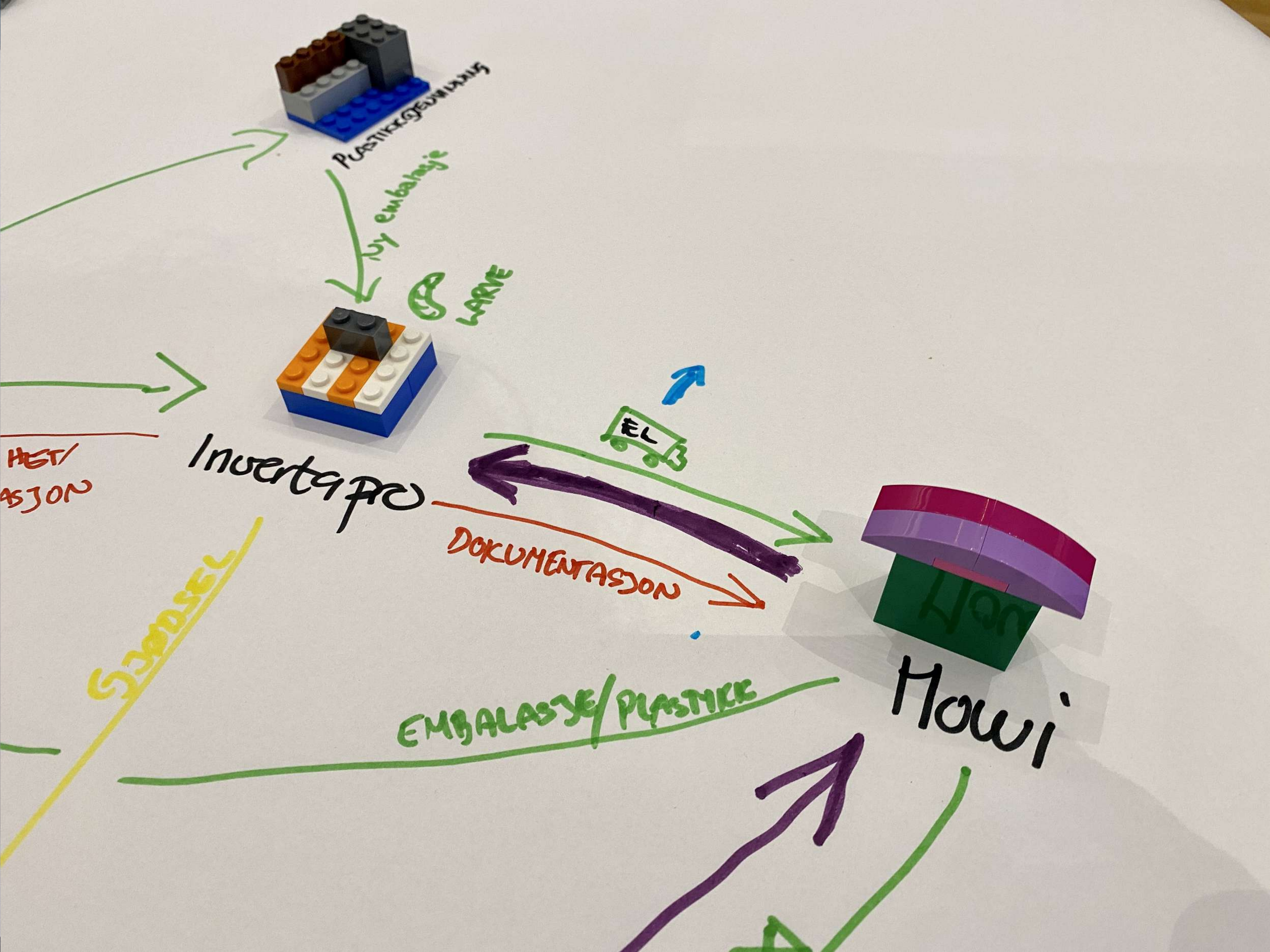


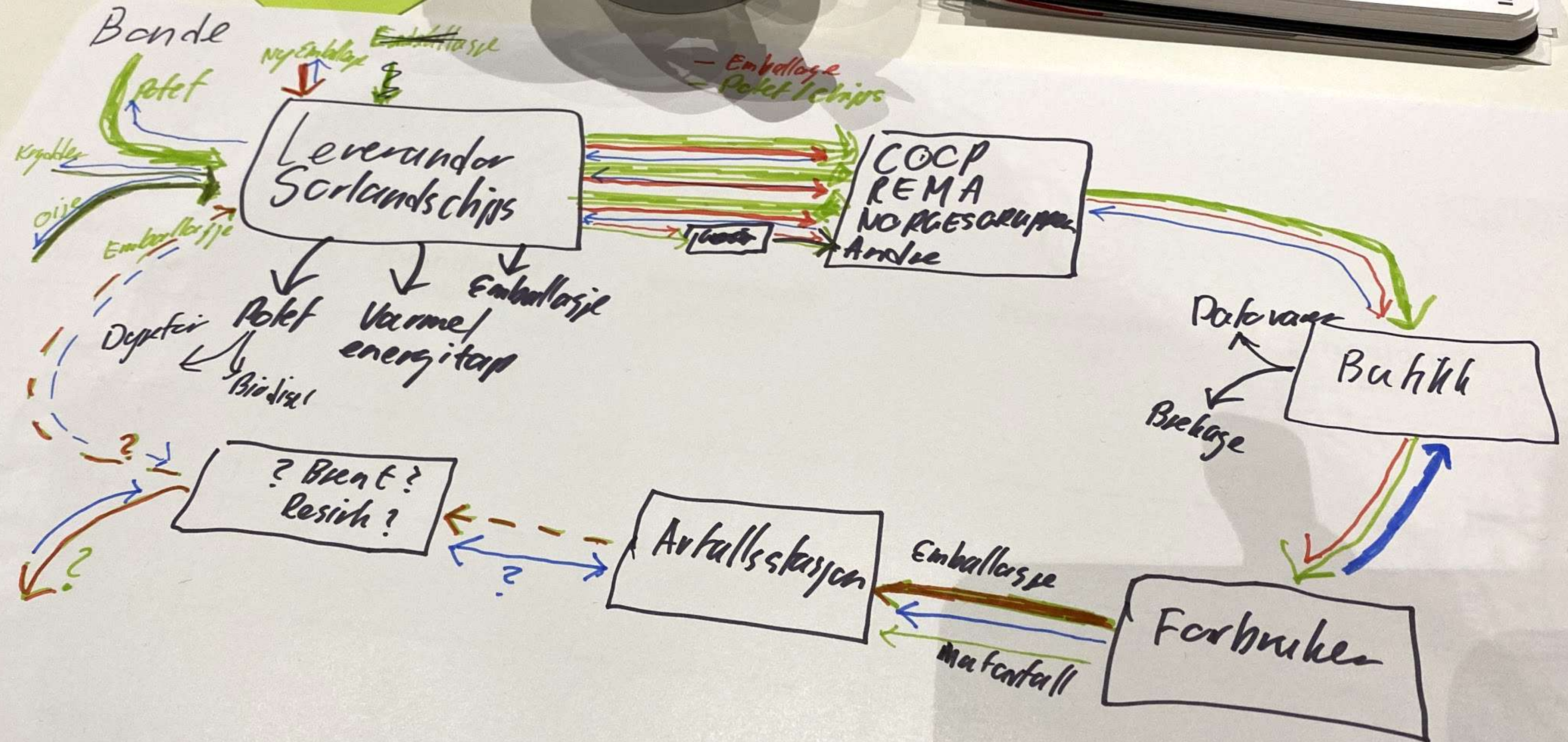
Stripe = Velocity/scarcity/existence

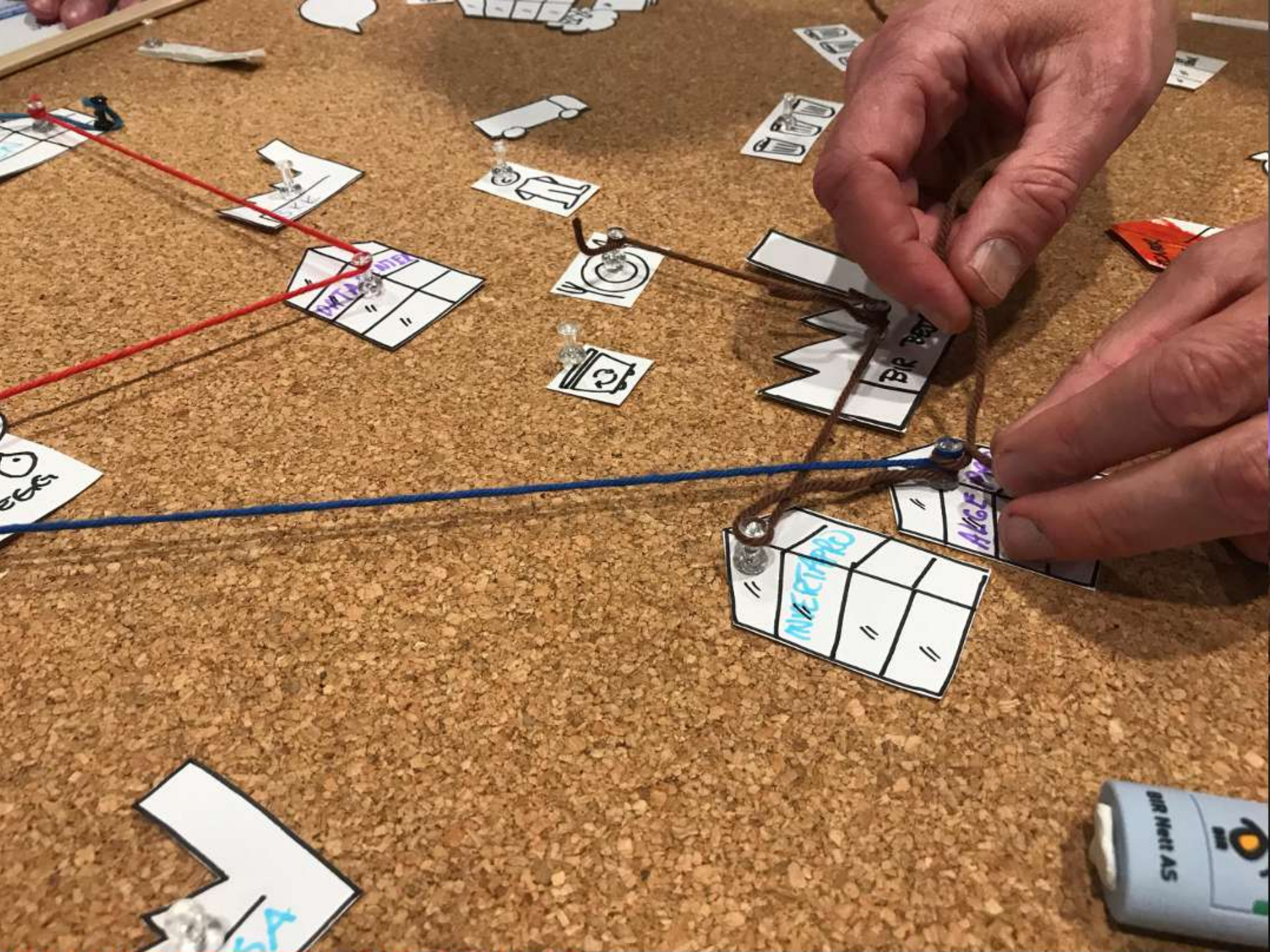
Recipie

- 1) Choose main character resource flow.
- 2) Place out all organisations.
- 3) Draw resource-flows in this sequence:
 - a) Main character resource
 - b) Means of transport
 - c) Waste sidestreams
 - d) Emissions and pollutants
 - e) Money
 - f) Data

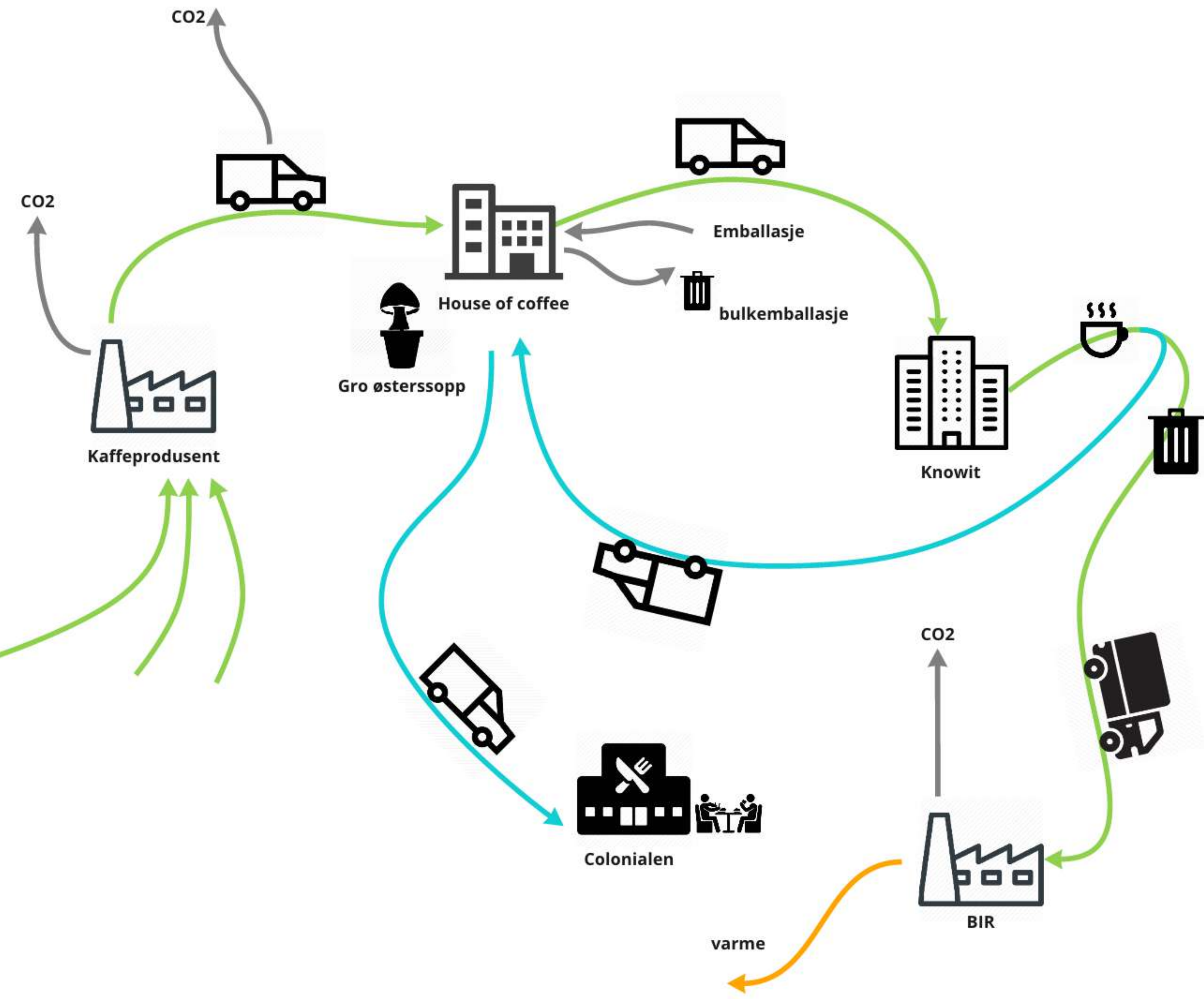








knowit



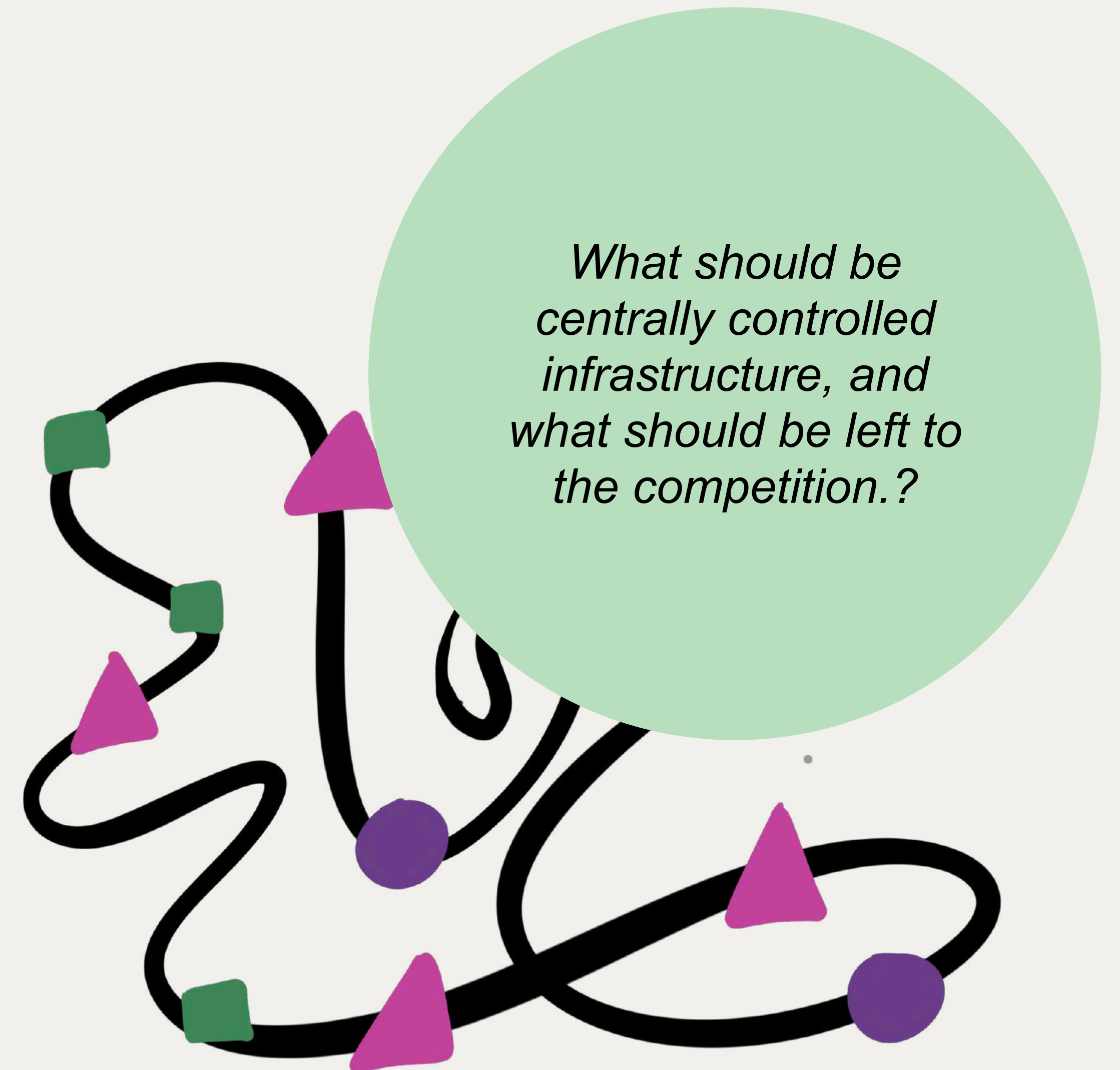
> Common infrastructure

Goal

Make organisations aware of the system they rely on. The highway they all us - or need - to be able to effectively circulate resources, and thrive

i.e.

Watersystem, wastesystem, roads, the grid, thermal heat system, ecc



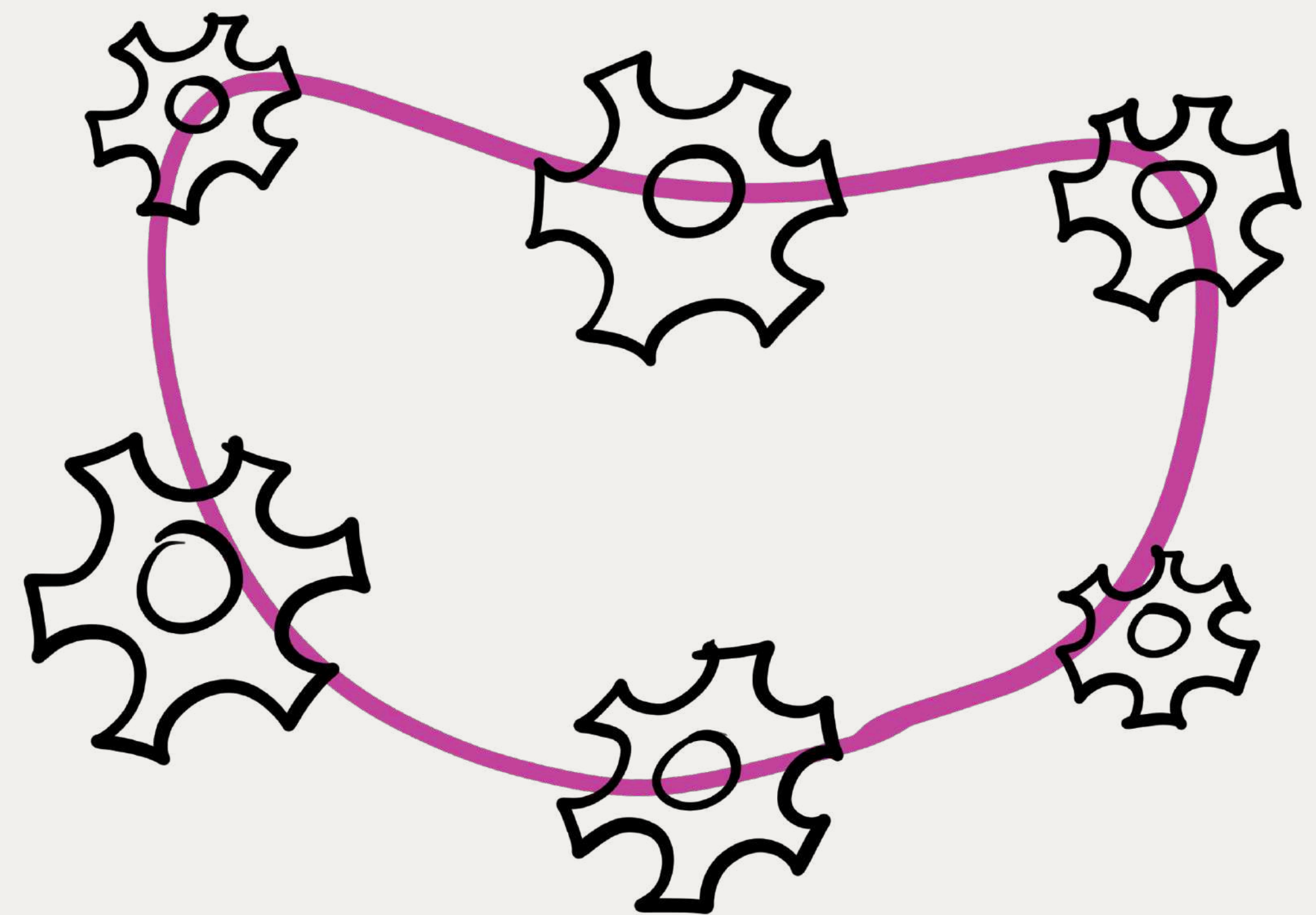
> Processes

Goal

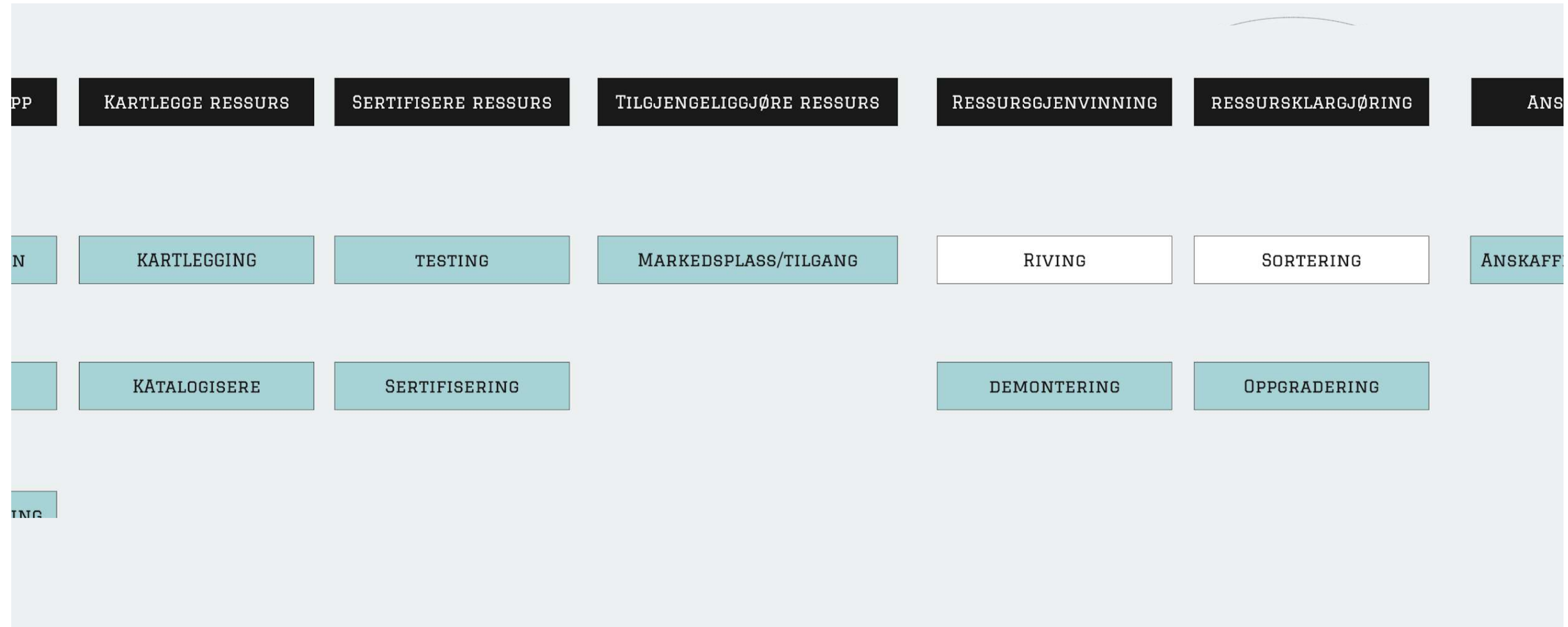
Describe what activities are done - or *what needs to be done* - in order to close a circular flow og create a circular market dynamics. Activities are described neutral without relating them to an organisation.

I.e.

For used building materials to be reused. For boats to be shared.



I.e. Reuse of building materials



> Sub-systems

Goal

See what subsystems different organisations use. Create effective flows based on knowledge of the volum hidden in amounts of small operations.

I.e.

We all purchase and waste bread.
The industry all uses plastic films to wrap their stuff.



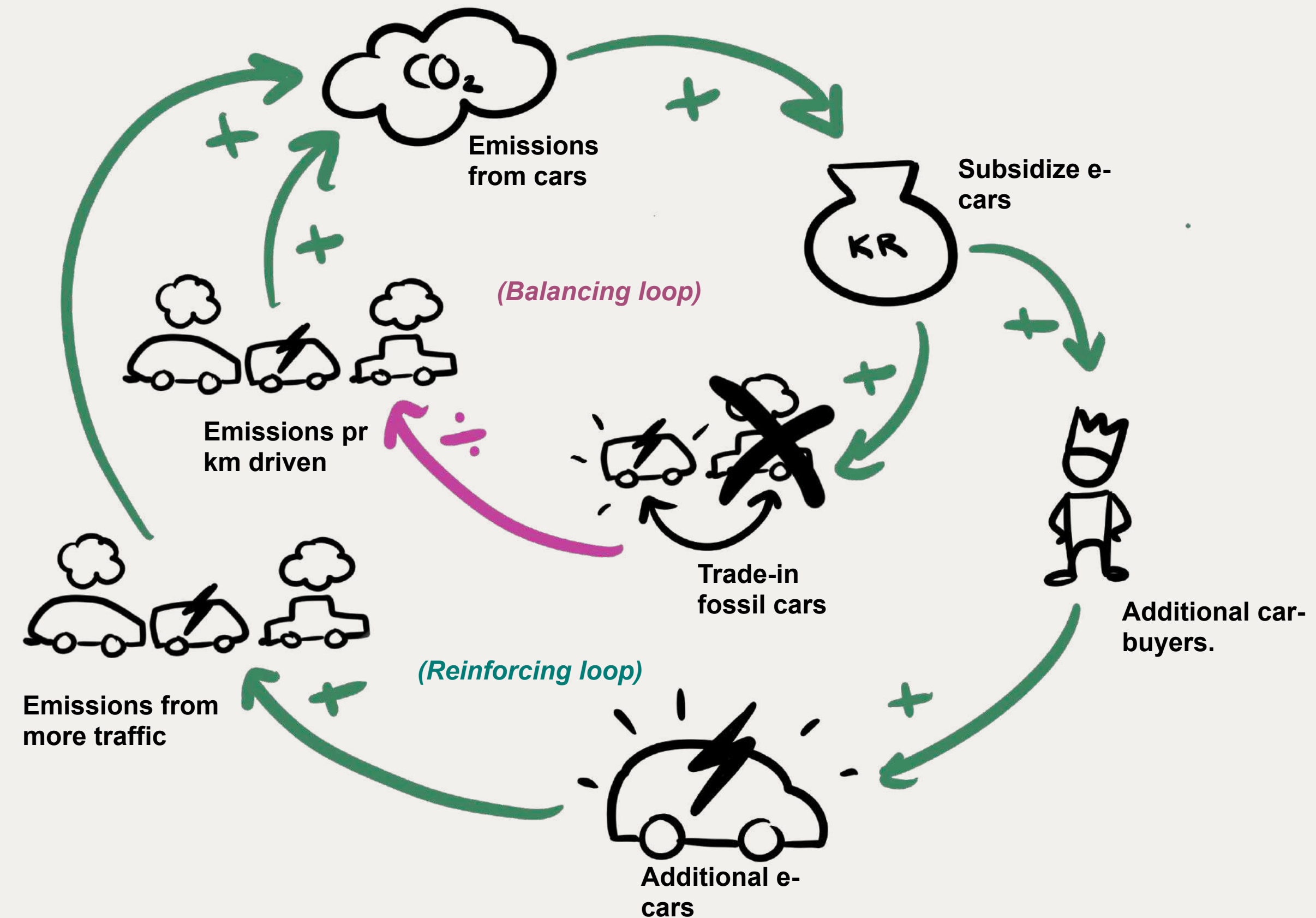
> Causal mapping

Goal

Discover the unintended unwanted consequences of our actions. See how the system preserve its negativ effect even when we believe we do right

I.e.

Electric cars filling up the public transport lane causing queues and idling emissions. Service models making us use more stuff.

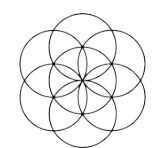


Thank you
@hannewetland

Panel Discussion



Cathrine Barth
Circularities



CIRCULARITIES
CIRCULAR STRATEGY AGENCY



Susanne M. Nævermo-Sand
Celsa Nordic



Hanne Wetland
Knowit



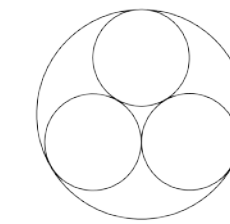
Marthe Haugland
Nordic Innovation





Nordic Circular Hotspot Partner Program for market development

Einar Kleppe Holthe
Founder & CEO
Natural State



Natural State



Partnership Programme for Circular Market Acceleration

The Nordic Circular Hotspot is launching a Partnership Programme for strategic, systemic and more efficient circular market development in the Nordics. We invite both the corporate segments, the private and public sectors and the regulatory & societal silos in the Nordic market sphere for **cross segment**, **cross sector** and **cross silo** circular collaboration in the Nordics. We are now developing a digital circular economy stakeholder platform called the **Nordic Circular Arena**, which we will pre-launch in June 2021.



Onboarding
April 2021



Pre-launching
June 2021

Circular Events 2021 Kickoff

**BUSINESS
FINLAND**

