# Products with Purpose: The Living Product Challenge

June 20, 2019



## What is the GC3?

The Green Chemistry & Commerce Council (GC3) is a multi-stakeholder collaborative that drives the commercial adoption of green chemistry by catalyzing and guiding action across all industries, sectors and supply chains.



## **Our Vision and Mission**

**Vision:** A world where green chemistry is standard practice throughout the value chain

**Mission:** To drive the commercial adoption of green chemistry by catalyzing and guiding action across all industries, sectors and supply chains



#### More than 140 Members Across Sectors and the Value Chain







































































## **Ground Rules**

- Due to the number of participants in the webinar, all lines will be muted
- If you have a question or comment, please type it in the "Questions" box located in the control panel
- Questions will be answered at the end of the presentation



# **Today's Lineup**



Alexandra Muller,
Manager, Living Products
International Living Future Institute











LIVING COMMUNITY CHALLENGE



LIVING PRODUCT CHALLENGE





Reveal. Just. Declare.













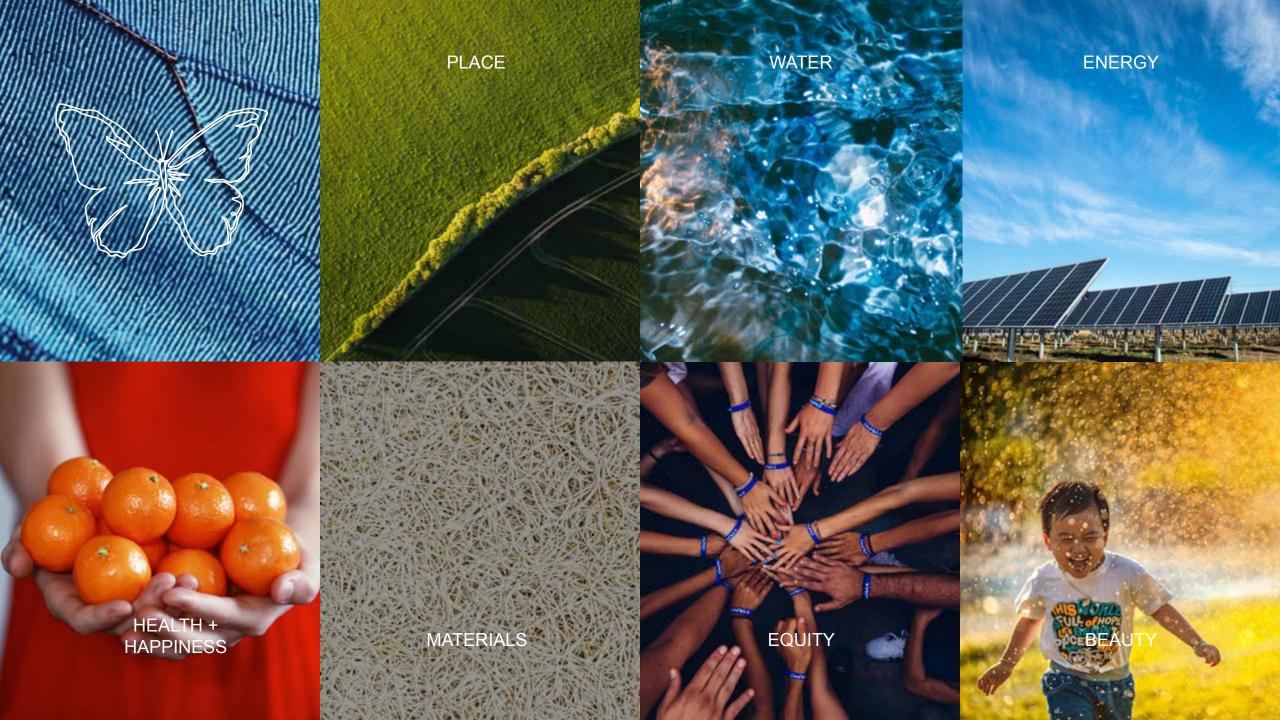




The Living Product Challenge is a holistic, third party-verified product standard that goes beyond harm reduction to measuring, maximizing and celebrating the good that companies can cause in the world.

Founded in transparency, LPC requires that manufacturers engage with LCA, demonstrate safer ingredient selection and responsible social impacts at all levels of certification.







The world's most advanced & transparent third-party verified product standard.

This holistic framework empowers manufacturers to go beyond simply reducing their social and environmental footprint to maximizing the positive impacts of their products and processes.

PETAL	IMPERATIVE	
PLACE	01. RESPONSIBLE PLACE	
	02. HABITAT EXCHANGE	
	03. LIVING ECONOMY SOURCING	
WATER	04. WATER FOOTPRINT	Ø
	05. NET POSITIVE WATER	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
ENERGY	06. ENERGY FOOTPRINT	Ø
	07. NET POSITIVE ENERGY	
HEALTH + HAPPINESS	08. RED LIST	
	09. TRANSPARENT MATERIAL HEALTH	
	10. HUMAN THRIVING	
MATERIALS	11. RESPONSIBLE INDUSTRY	Ð
	12. REGENERATIVE MATERIALS	
	13. NET POSITIVE WASTE	
	14. NET POSITIVE CARBON	
EQUITY	15. ETHICAL SUPPLY CHAIN	Ø
	16. EQUITABLE INVESTMENT	
	17. JUST ORGANIZATIONS	
	18. SOCIAL CO-BENEFITS	
BEAUTY	19. INSPIRATION + EDUCATION	
	20. BEAUTY + SPIRIT	





HANDPRINTING IMPERATIVE



CORE IMPERATIVE



REQUIRED FOR PETAL CERTIFICATION

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	02. HABITAT EXCHANGE	
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# PATHWAY TO LIVING PRODUCTS: THREE RECOGNITION STAGES

#### **IMPERATIVE CERTIFICATION**

Achieving the 7 core Imperatives (dark blue cells)

#### PETAL CERTIFICATION

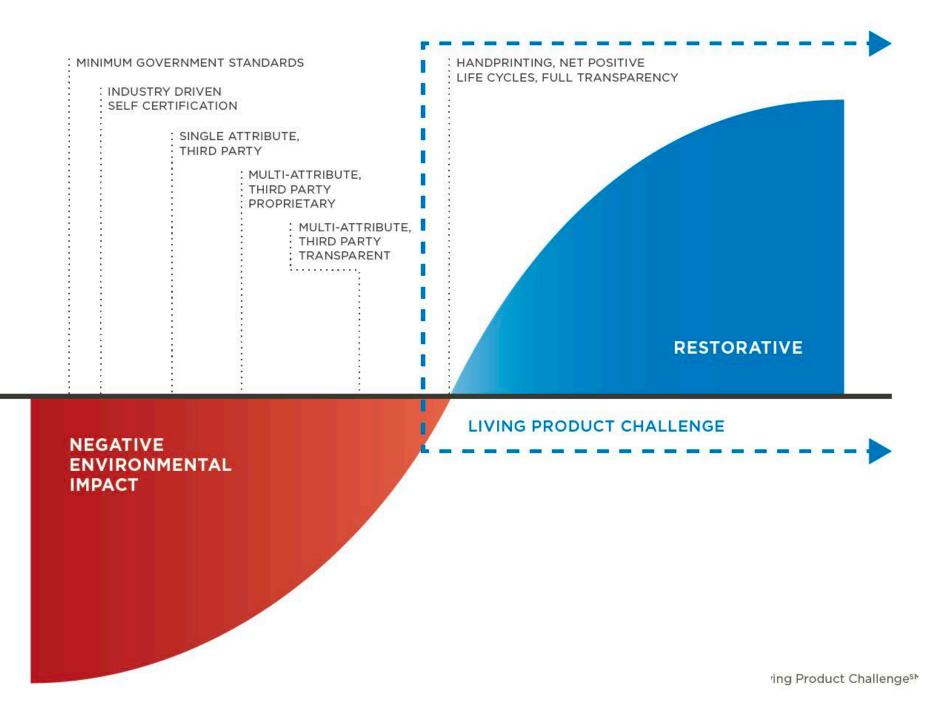
Achieving 3 Petals, one of which must be Water, Energy, or Materials (light blue cells), plus the 7 core Imperatives

### **FULL CERTIFICATION**

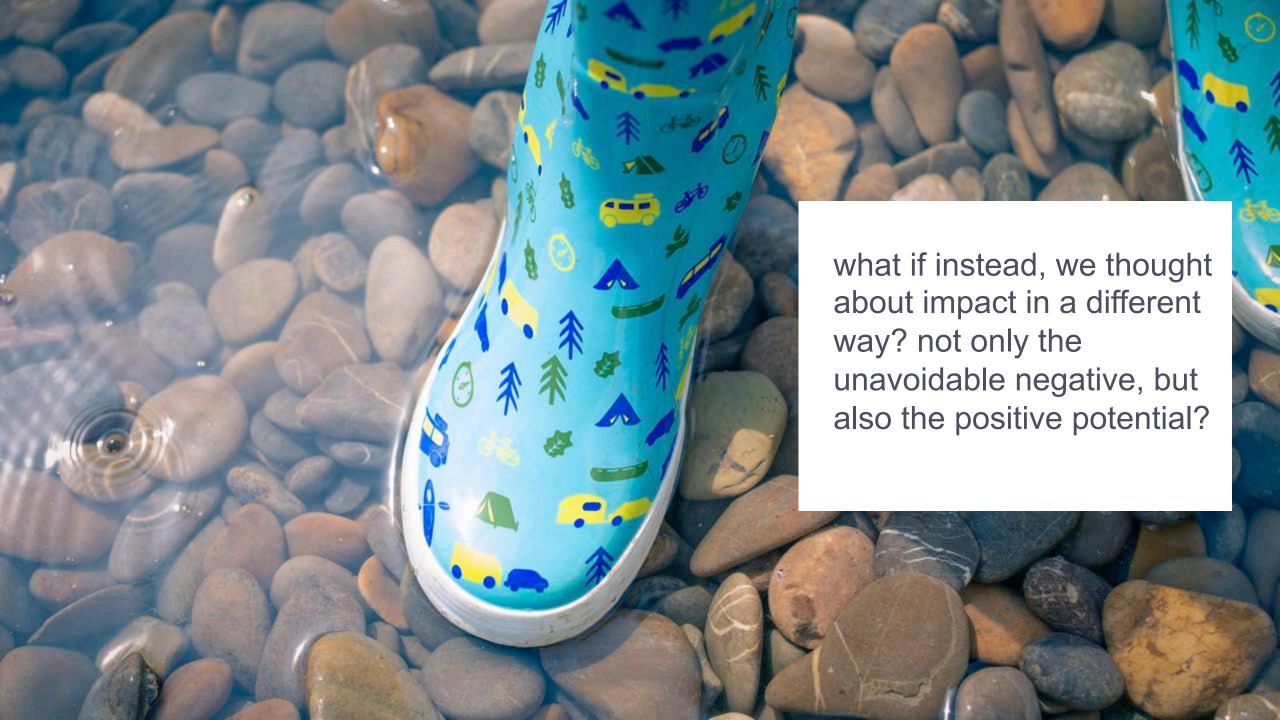
Achieving all 20 Imperatives.

how do you stand out in a sea of certifications?

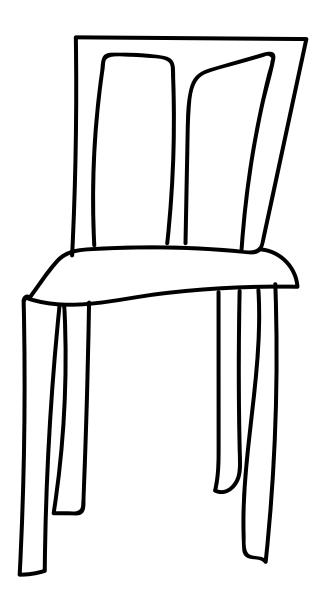
how could you create measurably positive products?



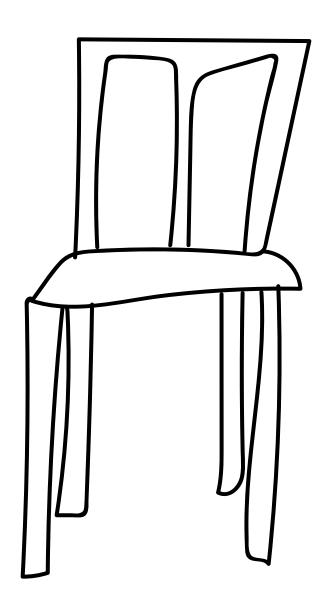




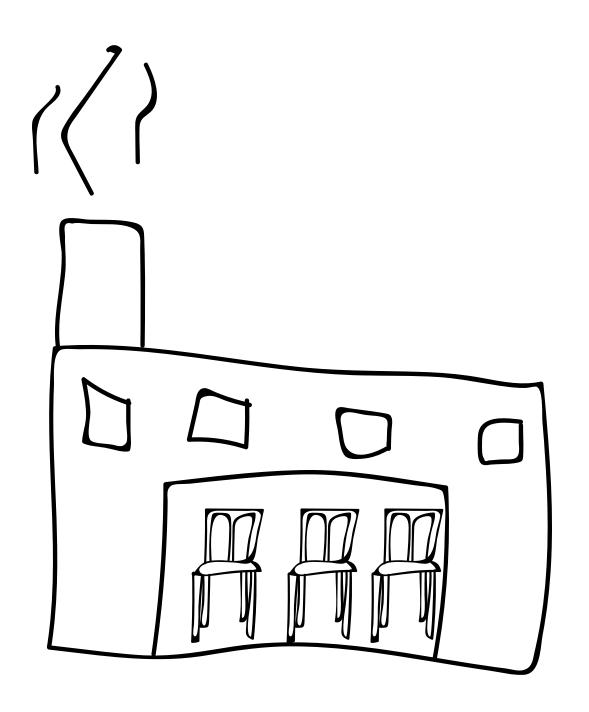




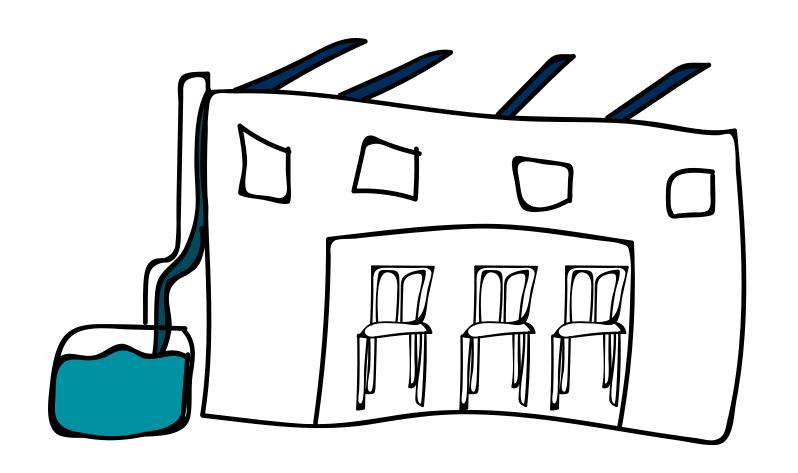
this is a chair.



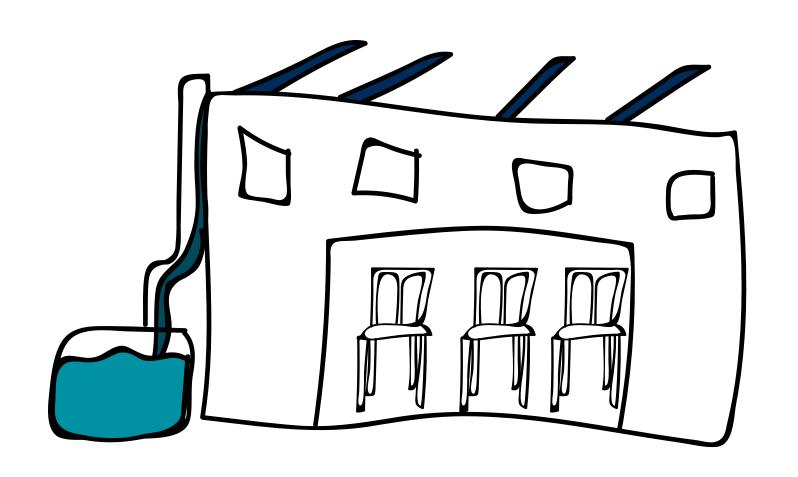
what does it take to make this chair net positive?



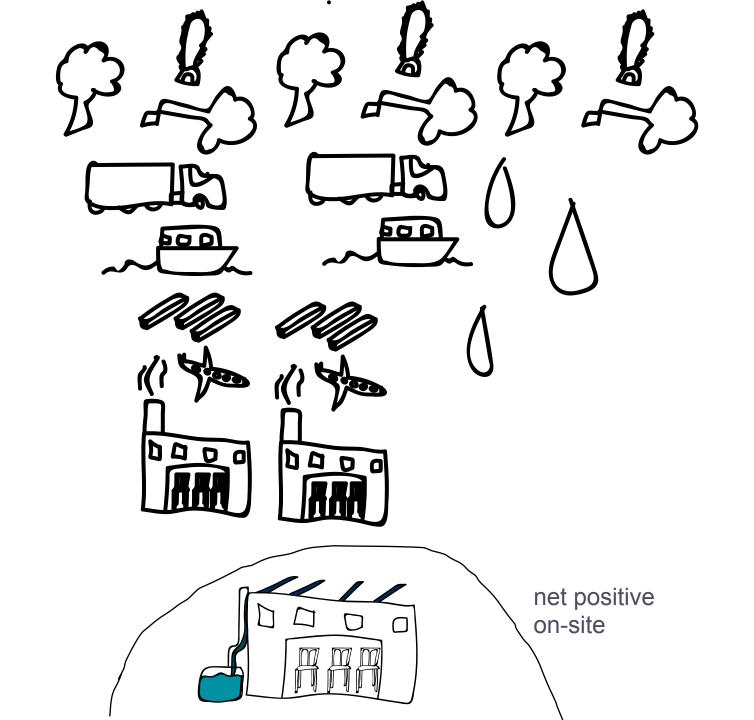
If you're a manufacturer of chairs you probably think first think about your factory

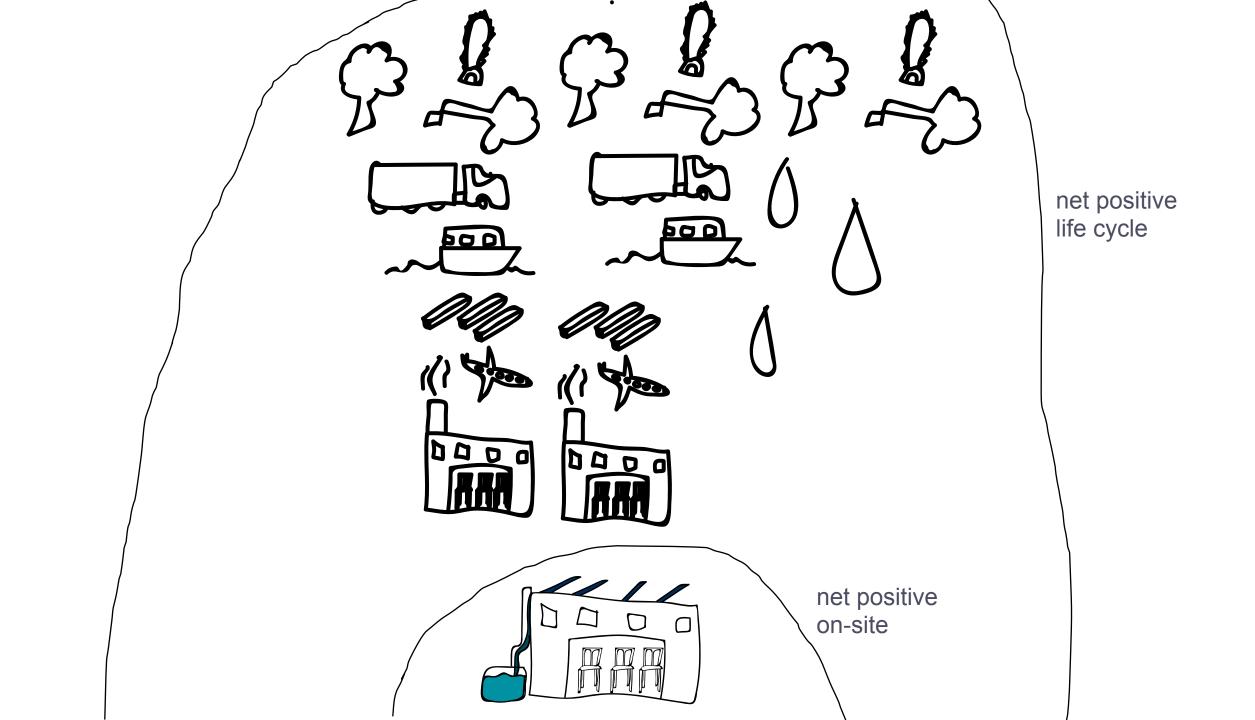


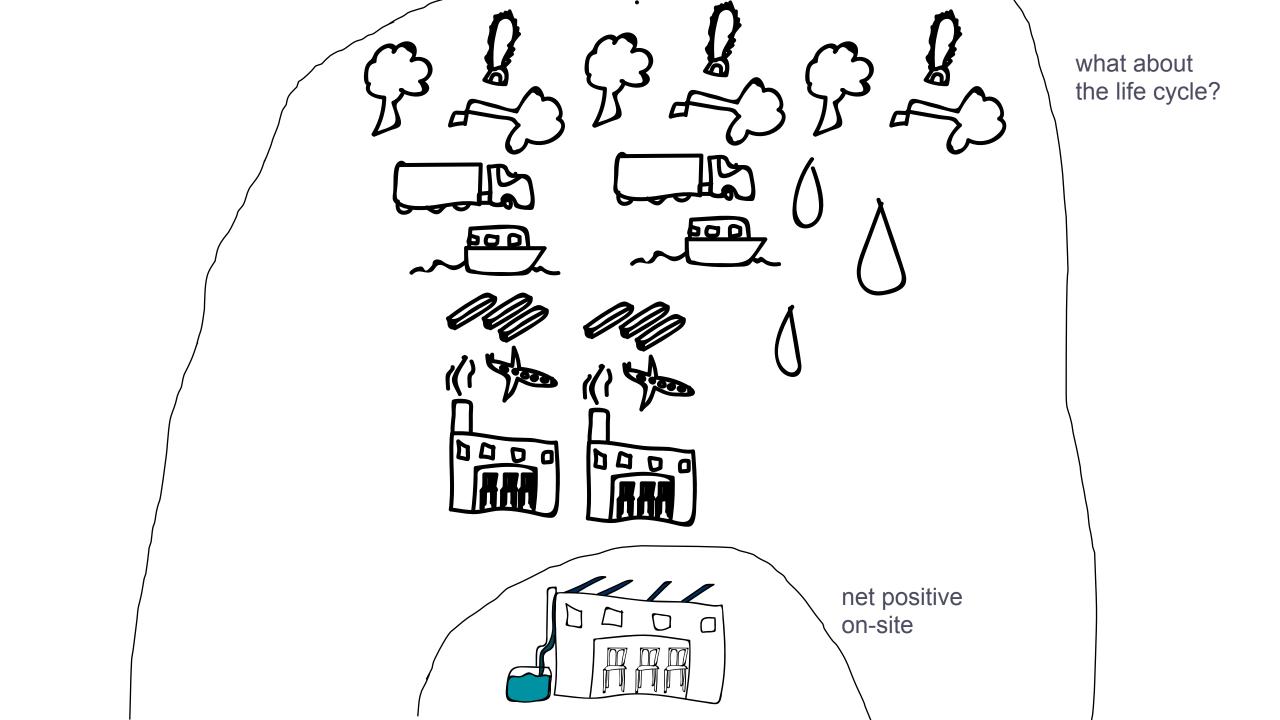
ta daaa



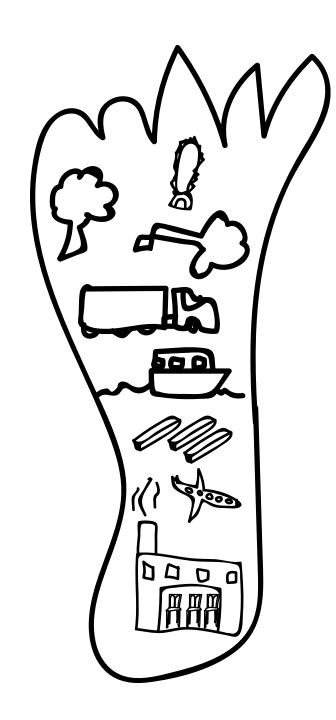
but wait, there's more



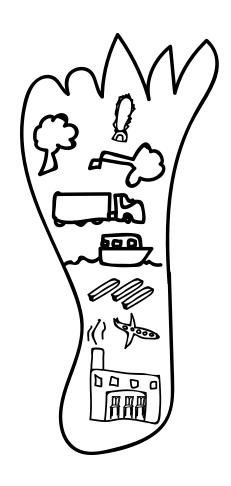




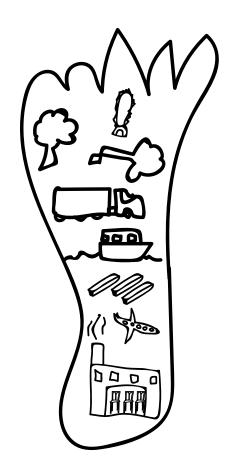




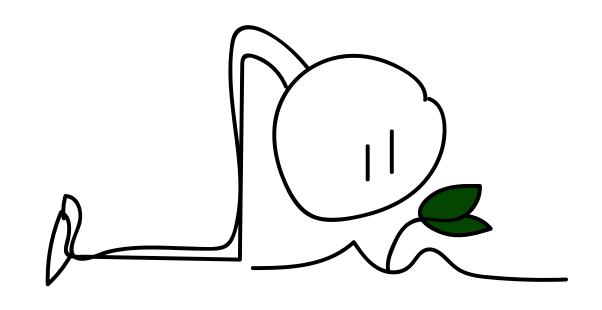
work to shrink your mess

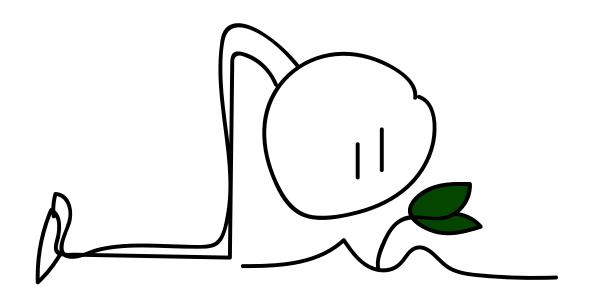


no matter how hard you try, you can never have a footprint of zero.

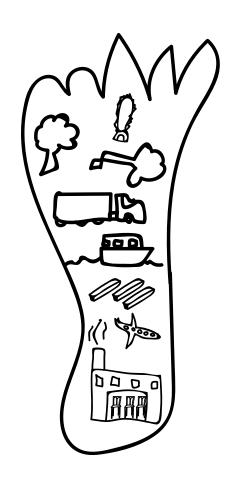


and...the more you shrink, the less return you get on each investment.





how much good are you doing? can you quantify it?



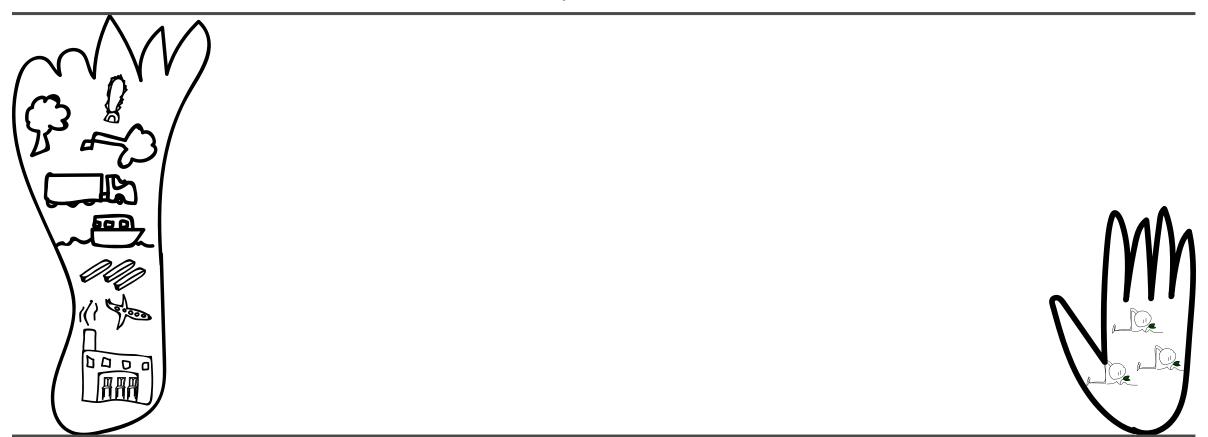
are we done yet?

### + net positive +

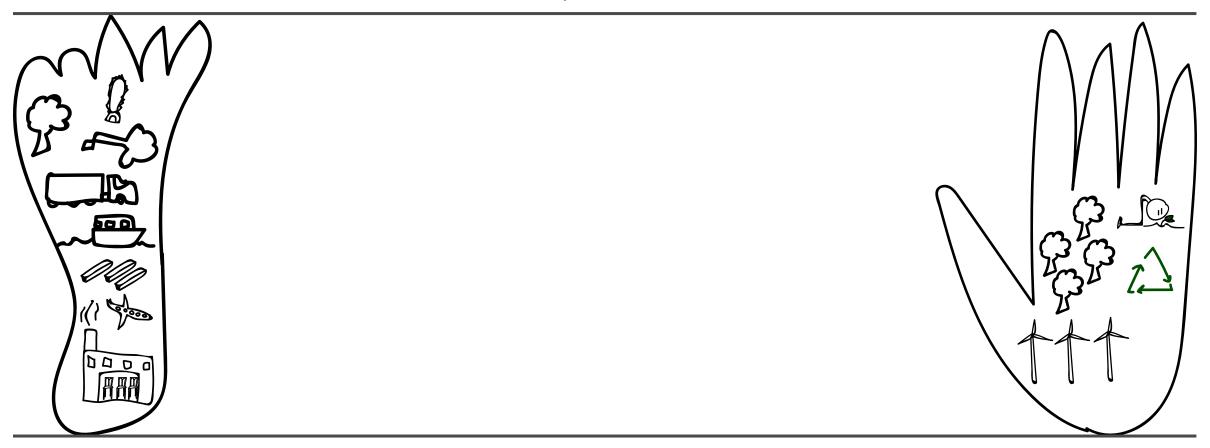


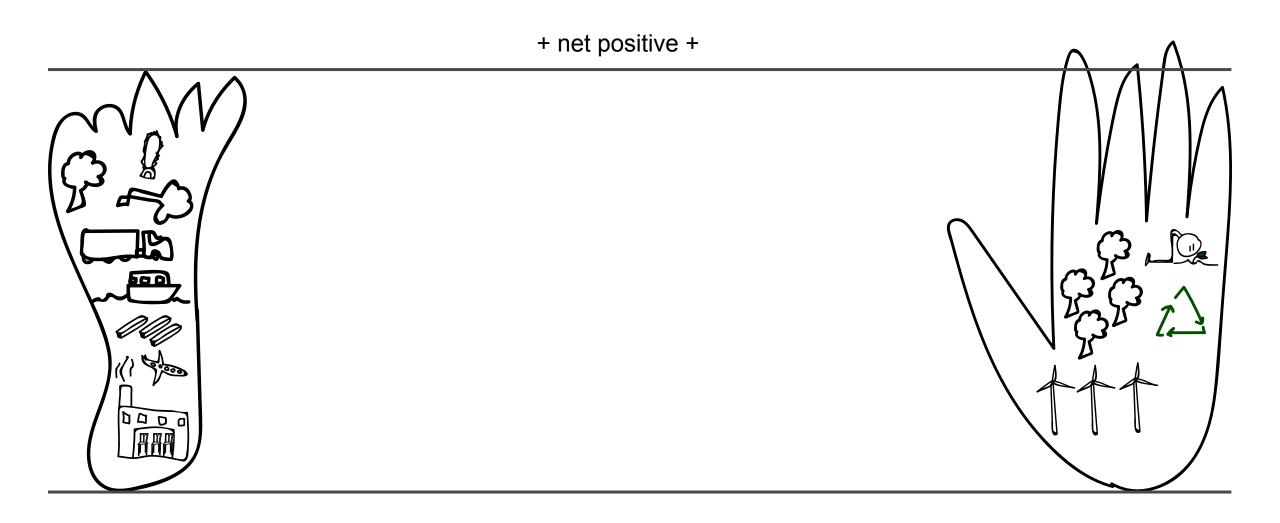


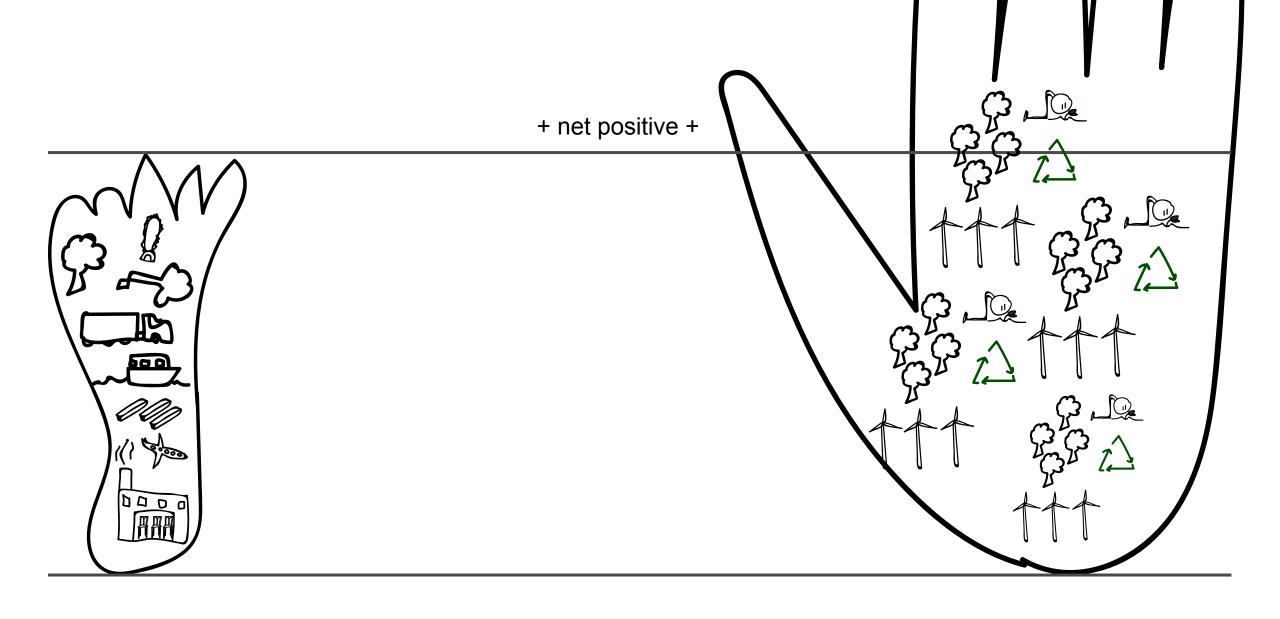
#### + net positive +



#### + net positive +





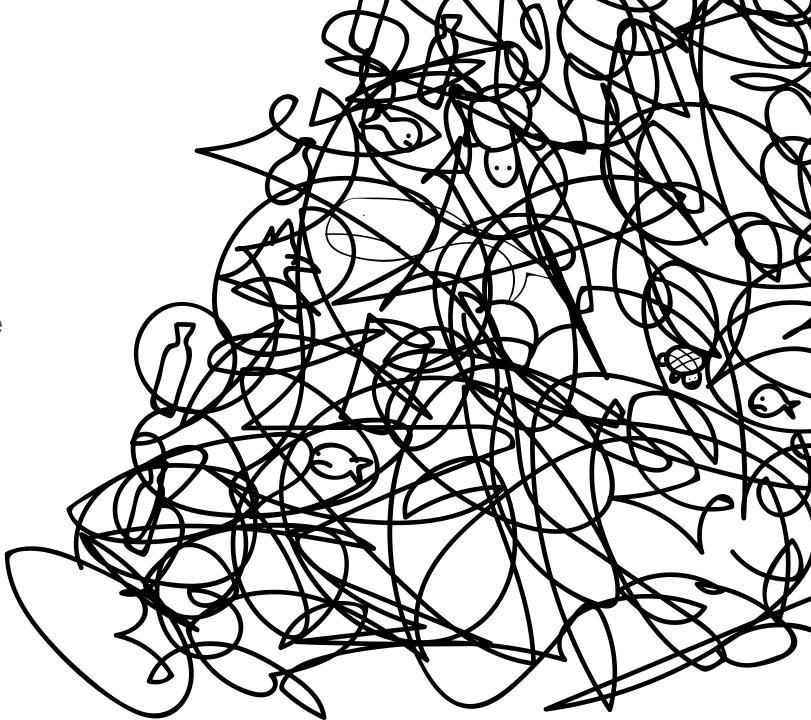


Using the same framework, metric and tools as Footprints,

Handprints embrace our agency to create positive change anywhere, relative to business as usual.

in LPC we measure our footprint because we all have a responsibility now to know and shrink our impacts across all impact areas

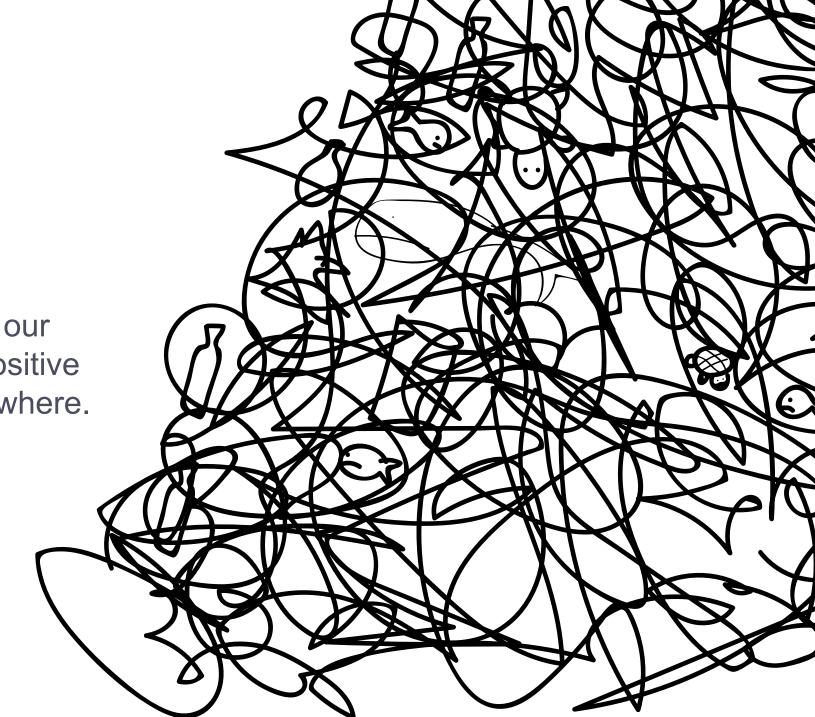




we also have a collective responsibility to look beyond our own Footprints and create positive change anywhere and everywhere.

"all done!"

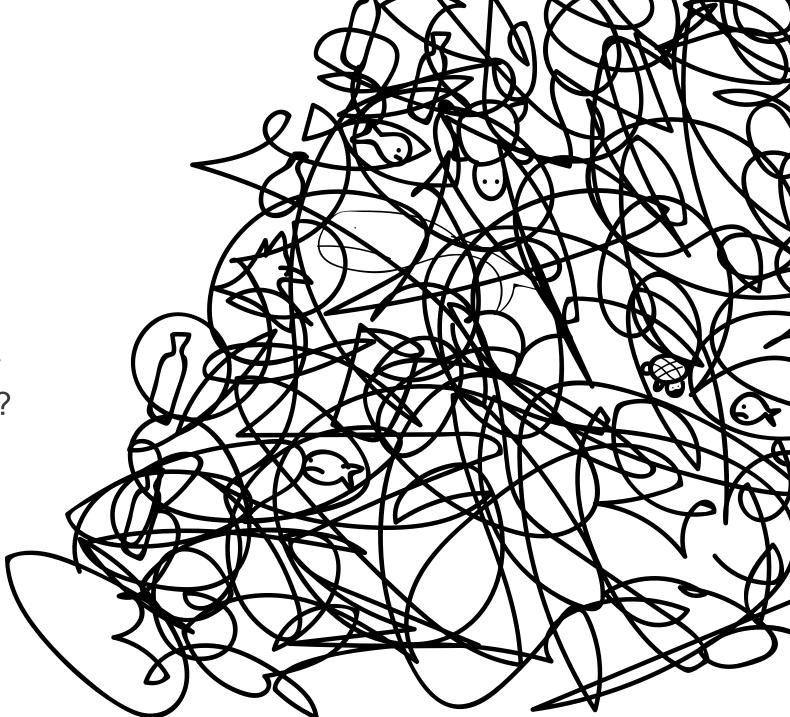




beyond that, in a time of such need, why would we restrict our ability for change to only cleaning up our own Footprint?

"just kidding...."





### HANDPRINTS IN ACTION:

Donate energy-efficient lightbulbs to employees or consumers. Track installation and measure impact.

Donate water-efficient fixtures to HBCUs to decrease usage, educate students about sustainability, create cost savings and incentivize investment in further sustainability actions

Educate farmers that produce necessary bio-based ingredients for your products about water-efficiency practices

Plant trees. Save a forest. Create habitat. Educate. Inspire.





## BASIC REQUIREMENTS FOR ACHIEVING LIVING PRODUCT CERTIFICATION

#### LIVING PRODUCT CHALLENGE - CORE IMPERATIVES

01. RESPONSIBLE PLACE

04. WATER FOOTPRINT

**06. ENERGY FOOTPRINT** 

08. RED LIST

10. RESPONSIBLE INDUSTRY

15. ETHICAL SUPPLY CHAIN

19. INSPIRATION + EDUCATION

#### ISO 14040/44 LCA

Lifecycle assessment (LCA) demonstrating the product's cradle-tograve impacts, performed in accordance with a relevant PCR (if one exists) and ISO 14040/44

#### **DECLARE 3PV**

Third-party verified Declare label with a Red List Free or LBC Compliant declaration status

#### **FSC 100%**

All wood-based materials or timber (including packaging) certified to FSC 100% labeling standards or from salvaged sources

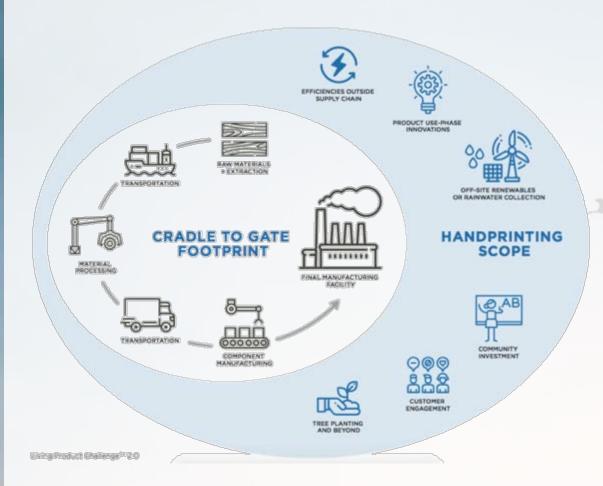
#### **HUMAN RIGHTS DUE DILIGENCE**

Perform human rights due diligence for top 10 priority suppliers, based on spending, through the Social Hotspots Database risk portal, and Identify the critical social risks

#### **EDUCATION MATERIALS**

Provide to the public education materials on the product's LPC certification and an annual Open Day of the facility

## ADVANCED REQUIREMENTS FOR ACHIEVING LIVING PRODUCT CERTIFICATION



#### PROTECT HUMAN + ENVIRONMENTAL HEALTH

Identify and fully assess all intentionally-added chemical substances with ILFI-approved third-party GreenScreen assessor; share publicly results of analysis that demonstrate there is no risk of exposure to CMRs or PBTs.

#### CREATE HANDPRINTS > FOOTPRINTS

Create water, energy, and carbon Handprints that are greater than the respective Footprints.

#### **GENERATE ZERO WASTE**

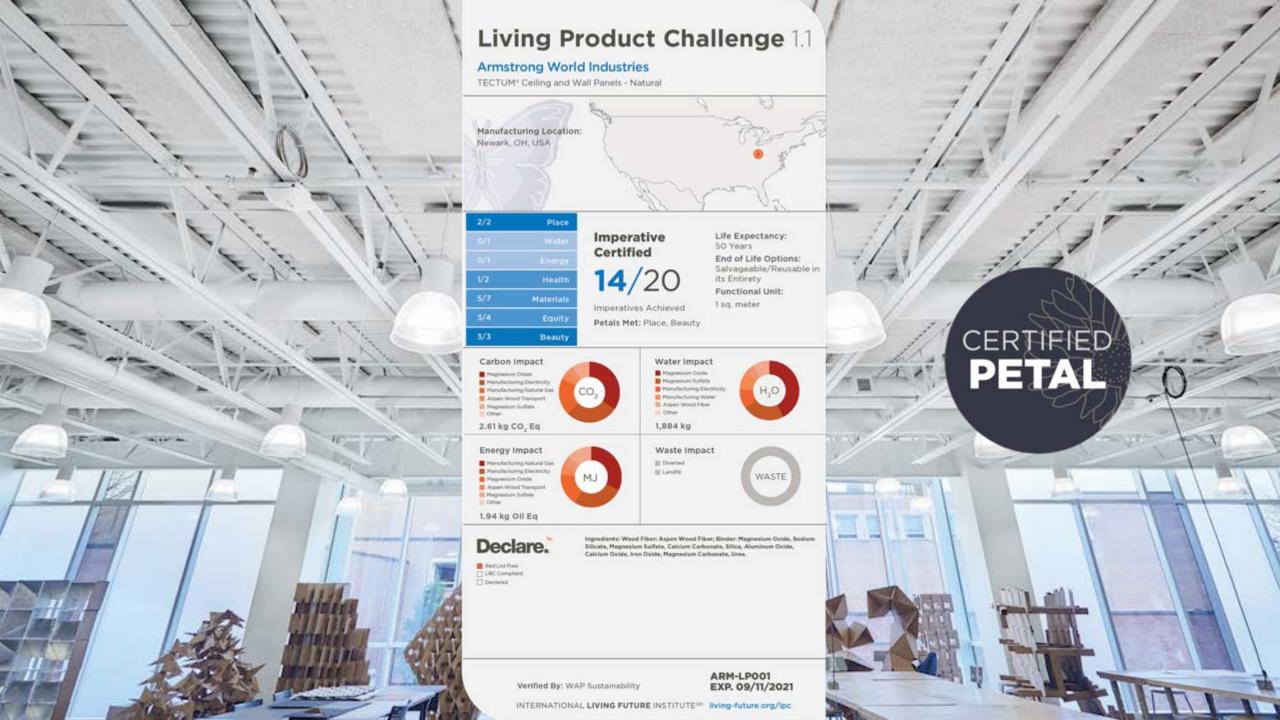
Eliminate waste production by implementing ways to use waste in a closed loop cycle.

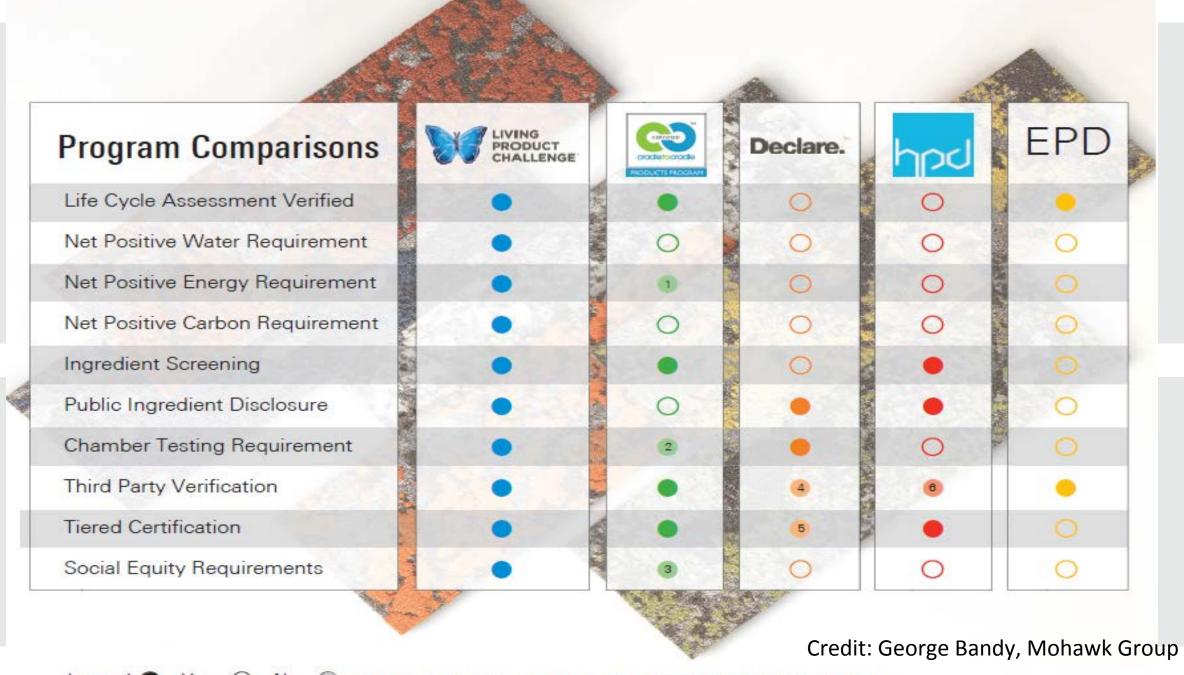
#### PROMOTE SOCIAL JUSTICE

Obtain a JUST label that discloses organization policies and performance around equity, diversity, and inclusion.

#### PROVIDE SOCIAL CO-BENEFITS

Work within your ecosystem of suppliers, workers, customers and key stakeholders to harness social co-benefits from your environmental Handprint strategies.





Legend: = Yes = No = (1) Platinum, Net Pos. Energy achievable through RECs (2,3) Gold & Platinum (4) RLF & LBC Compliant; Optional for Declared (5,6) Optional

#### WHO RECOGNIZES LPC?



#### LBC

Minimum 1 LPC product required for all LBC 4.0 projects. Up to 3 required to achieve Materials Petal





#### LEEDv4 and v4.1

v4: Building Product Disclosure and Optimization – Material Ingredients, Option 1 and 2

v4.1 Building Product Disclosure and Optimization – Material Ingredients, Option 1 and 2 (highest points)

#### WELL Building Standard

Feat X01: Fundamental Material Precaut.

Feat X08: Hazardous Material Reduction

Feat X10: VOC Reduction

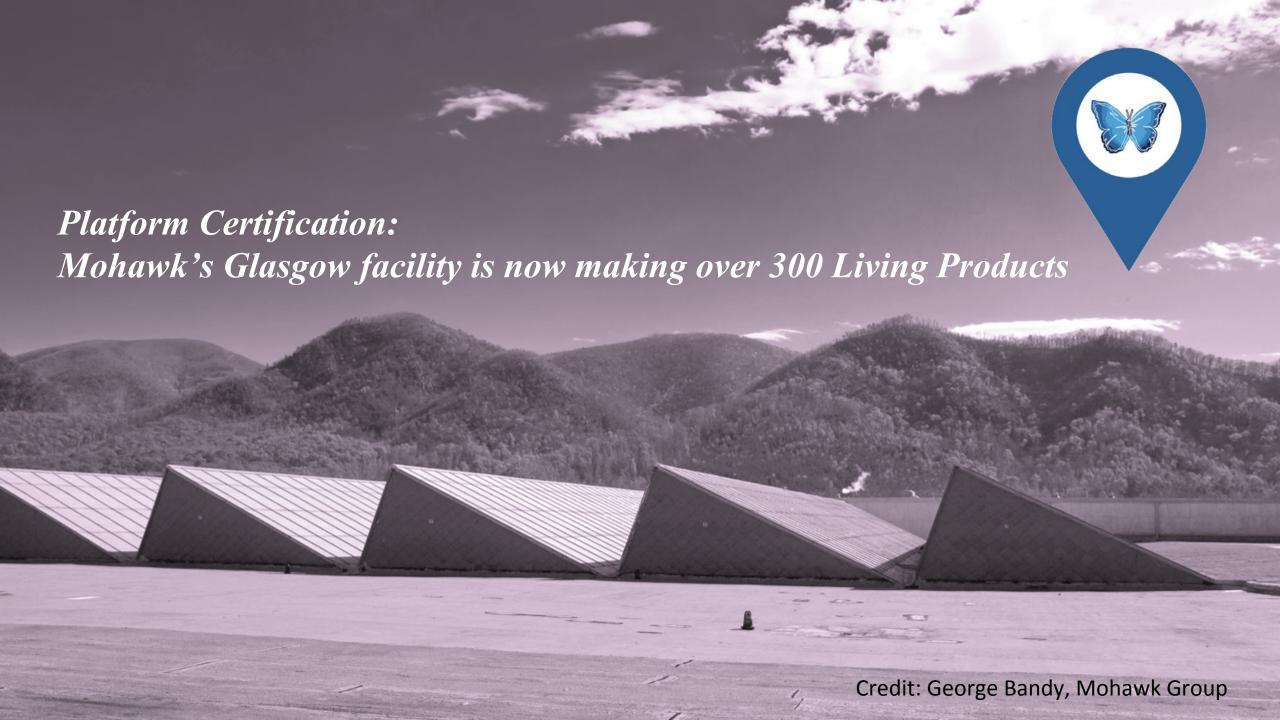
Feat X13: Enhanced Material Precaution

Feat X14 Material Transparency

# LIVING PRODUCTS HAVE A LABEL, WE ALSO HAVE A STORY. ASK ME ABOUT BOTH.











#### Handprinting Through a SmartFlower Solar Energy Initiative

As part of the certification for Pivot Point and Sunweave, Mohawk Group joined Groundswell and other project partners in south Chicago to establish a SmartFlower solar energy unit at The Renaissance Collaborative. Watch this clip to learn more about the three-year, 10-unit collaboration that will leave a positive handprint on underserved communities and educational institutions with STEM programs across the United States.



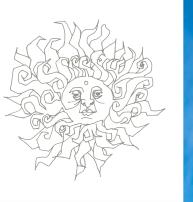


#### Handprinting Through a Water Conservation Strategy

To fulfill one portion of the Living Product Challenge for Lichen, Mohawk Group developed a three-year handprinting strategy with Morehouse College in Atlanta and installed new, low-flow showerheads in its dorms to offset the amount of water used to produce the carpet plank collection. Check out this clip to learn more about the project and the savings in water.



## ENERGY

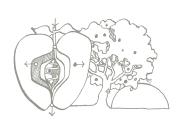


## Handprinting at 3Form: Quantifying Good Karma?

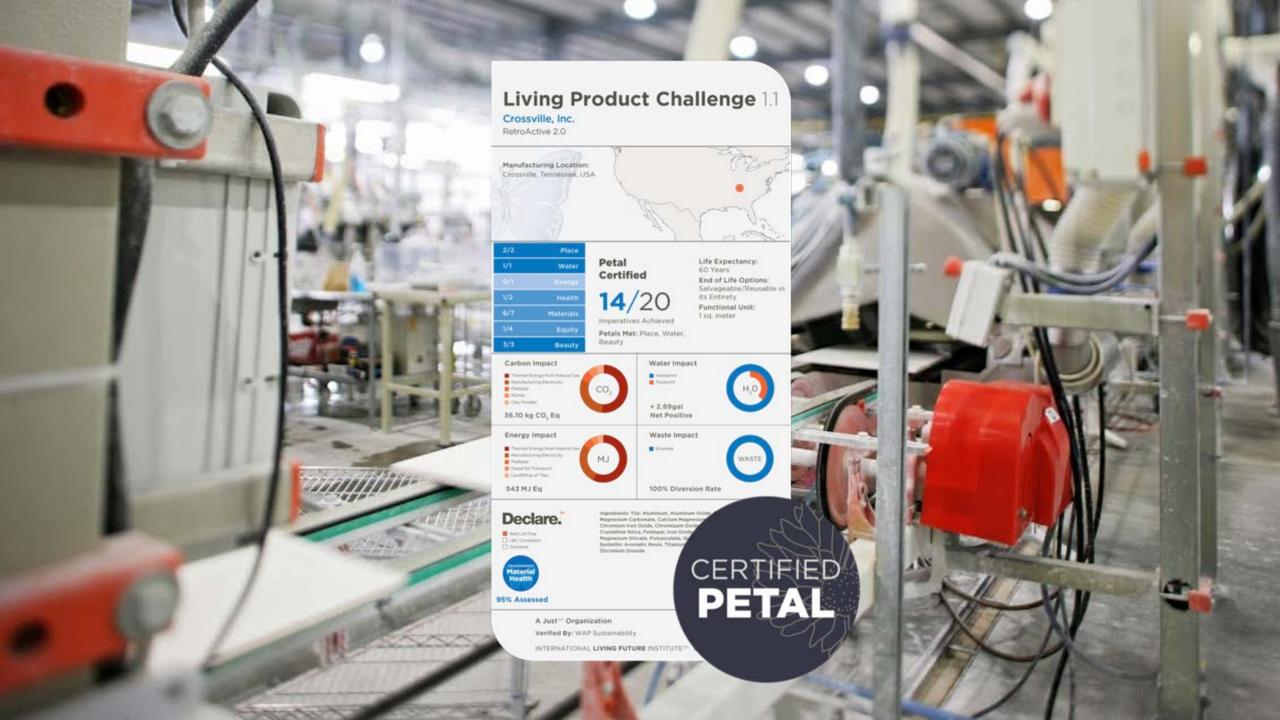




# HEALTH + HAPPINESS









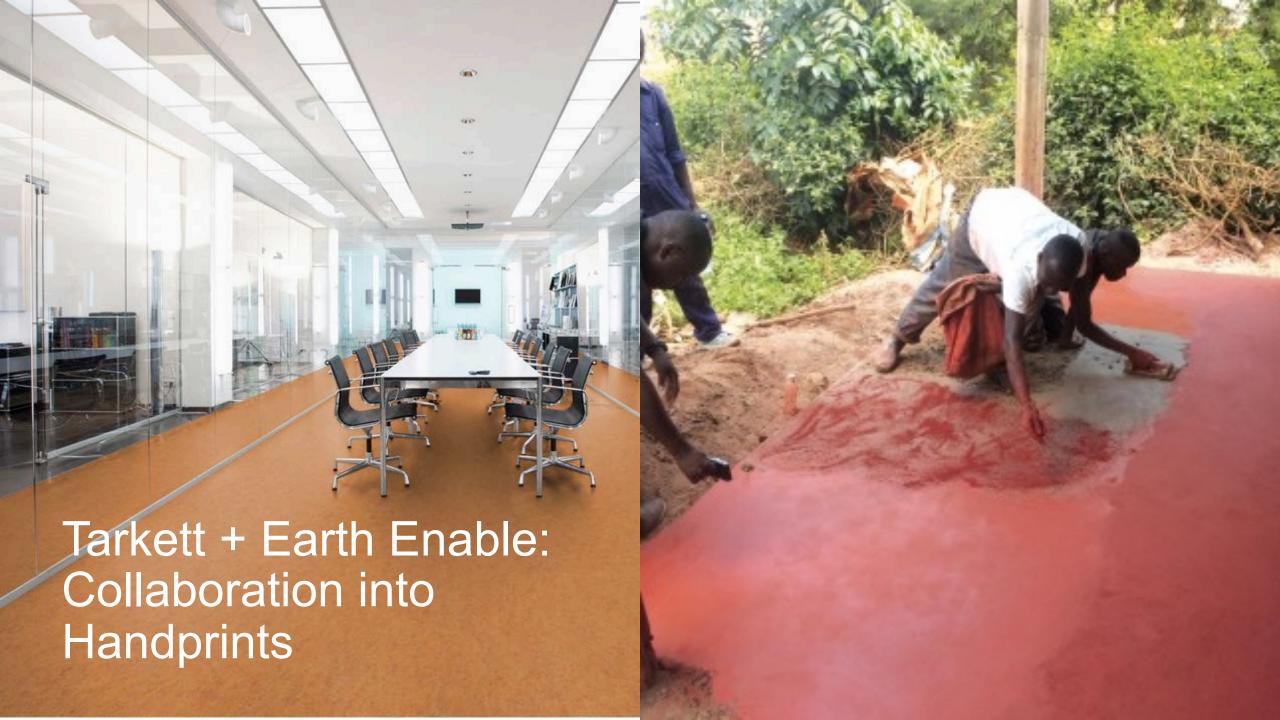




















THE LP50 work collaboratively, speaking to the market with a common voice, and effecting industry-wide change to increase specification of transparent, optimized products

Dear Design Community Member,

We, as members of the building product manufacturing community, truly appreciate and applaud the many letters and requests for product transparency that we have received from concerned members of the Architecture and Design Community these past five years. Around 35 signatories from some of the world's biggest and most influential firms encouraged us each to continue on our sustainability journey with product transparency, accelerating a transformation in the manufacturing industry. The industry would not be where it is today without such advocacy and encouragement.

As responsible members of a community, you asked us each to tell you what was in our products and what impacts our products have in terms of human and environmental health and sustainability.

WE RESPONDED, IN A BIG WAY

The manufacturers represented in this letter hold a total of:

580 Material Ingredient Reports (e.g. Declare labels, C2C, MHC, HPDs)

1320 Environmental Impact Reports (e.g. LCAs, EPDs)

13 Certified Living Products

Covering more than 26 product categories and 3430 product lines

We are united in a common goal to ensure that high performing, healthy, sustainable and affordable building materials are the rule, not the exception.

This is where your help is crucial.

#### EACH OF US COMMIT TO

- Continue building sustainability practices into manufacturing and material selection.
- Continue to invest in product transparency measures and programs.
- Use common platforms for product information to make it easier to specify products with preferable environmental attributes.
- Prioritize suppliers that support our transparency and environmental impact reduction efforts.
- Educate internally at our companies, and externally in our supply chains, about the importance of transparency and sustainable products.
- Walk the talk through encouraging the specification of transparent products in our own buildings, factories, and purchasing programs.

#### WE EACH ASK YOU TO

- Specify products that are transparently disclosed and have reduced human and environmental health impacts whenever possible.
- Advocate to customers for programs like Living Building Challenge, LEED and WELL, that value transparency, material health and reduced environmental impacts, and create market demand.
- Tell us which tools and databases you want to use to find our products, and reach out separately
  to let us know when and why you specified our products.
- Continue to send us letters as well (they go a long way).
- Consider all product categories, including those that go beyond what you can see, touch and feel
  in a building; they also have significant impact.
- Distribute this letter at your own firms and continue internal education to ensure that this
  message reaches the individuals who specify products on a daily basis.



#### Mohawk Group









teknion



The global leader in door opening solutions

































































42 MANUFACTURERS HAVE SIGNED ONTO THE LP50 LETTER it's time to go beyond responding to requests, and proactively help define the conversation, build demand and create feedback mechanisms.





# LIVING PRODUCT EXPO 19

Products with Purpose

SAVE THE DATE

October 8 - 10, 2019 | Nashville, TN

MUSIC CITY CENTER productexpo.living-future.org/





### Thank you for joining us!

For more information about the GC3: www.greenchemistryandcommerce.org

