

Translating Material-Health into Meaningful Impacts

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No one intends
for their design
to cause harm.



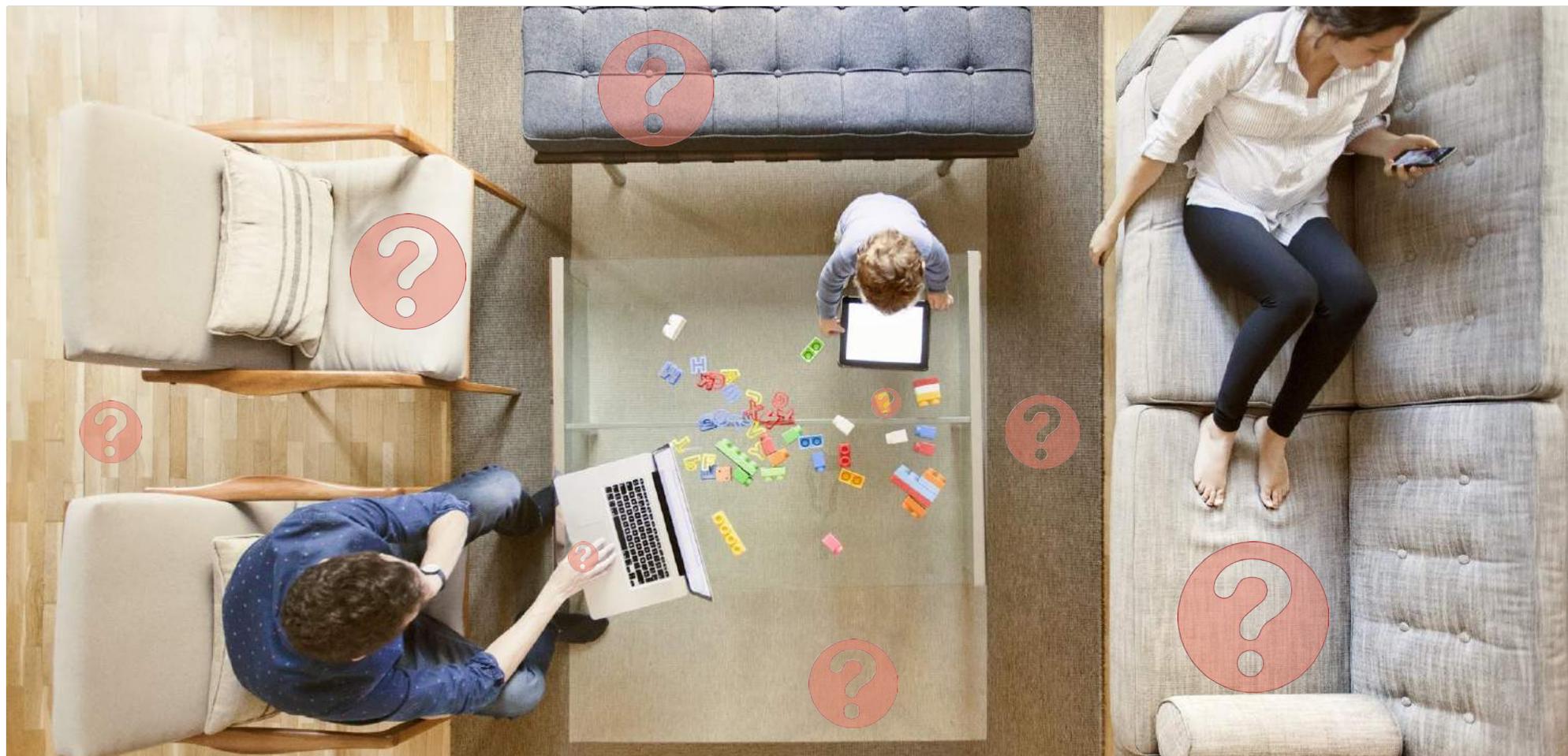
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But do you actually know what's in the materials and products you spec?

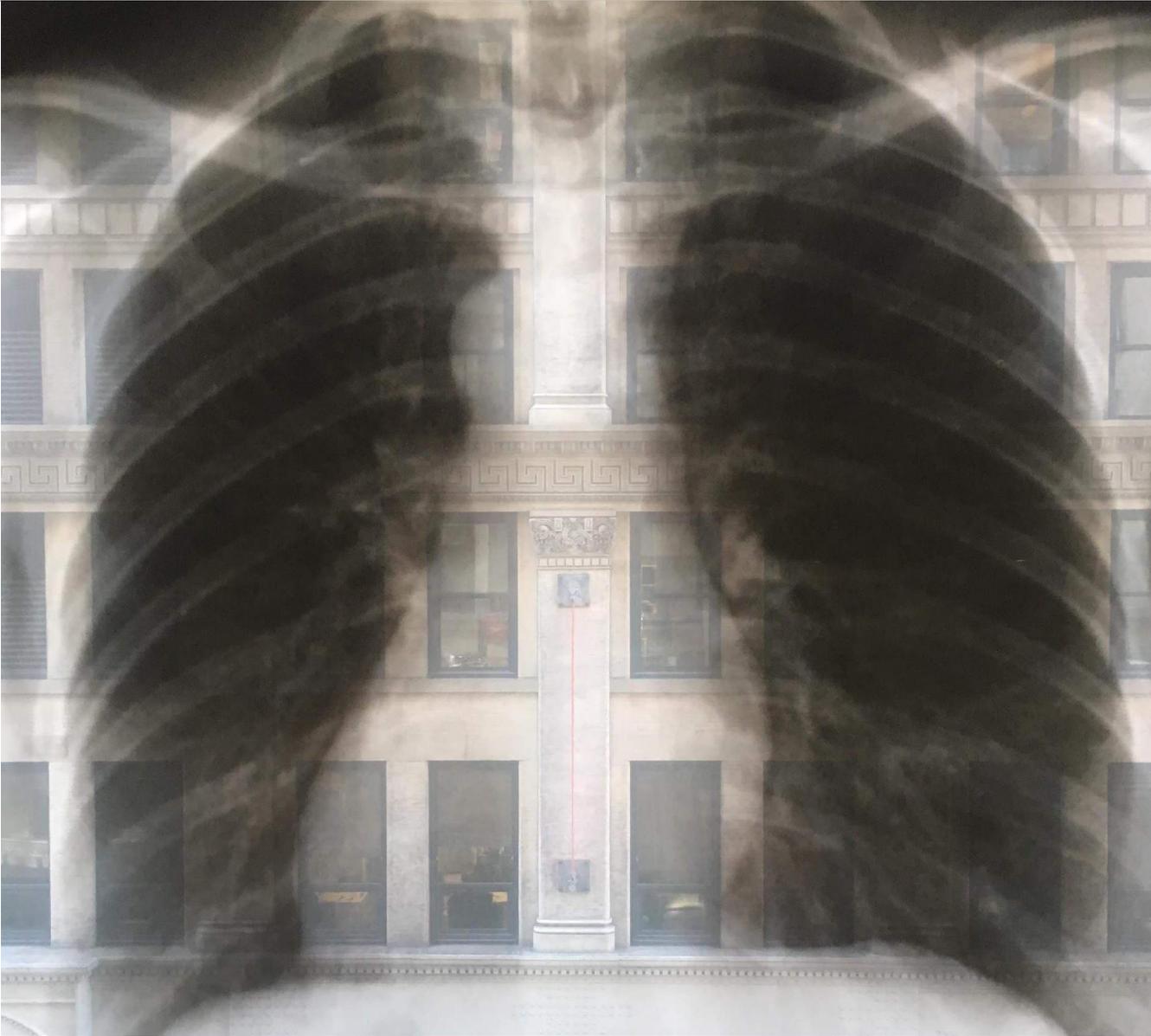


What's in the space and in the air?



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What's inside us?

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The Body Burden

Environmental Working Group, 2003

167 Industrial Chemicals and Pollutants
were found in the blood and urine of nine
adult Americans

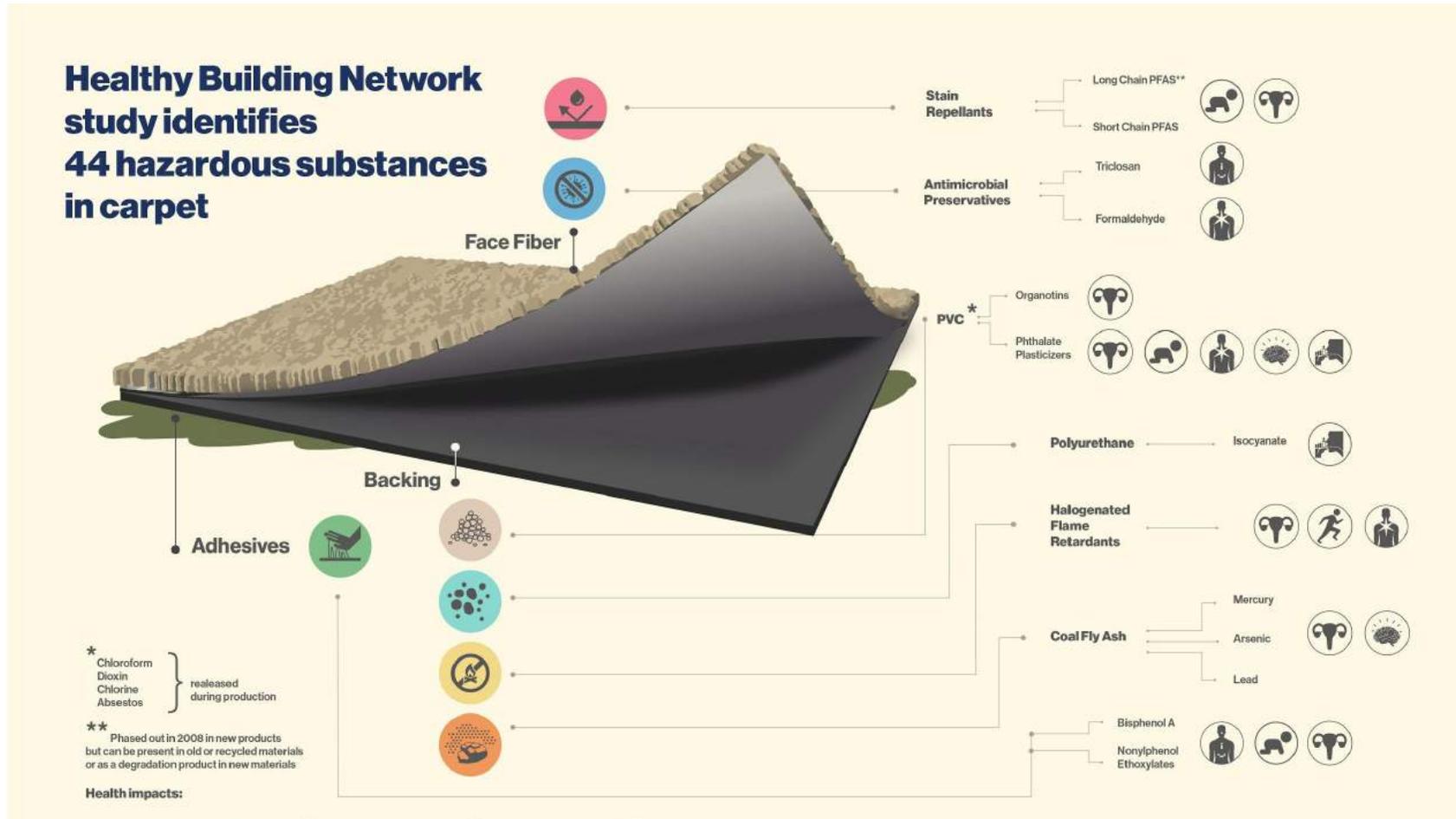
76 are linked to **Cancer**

86 are known **Endocrine Disruptors**

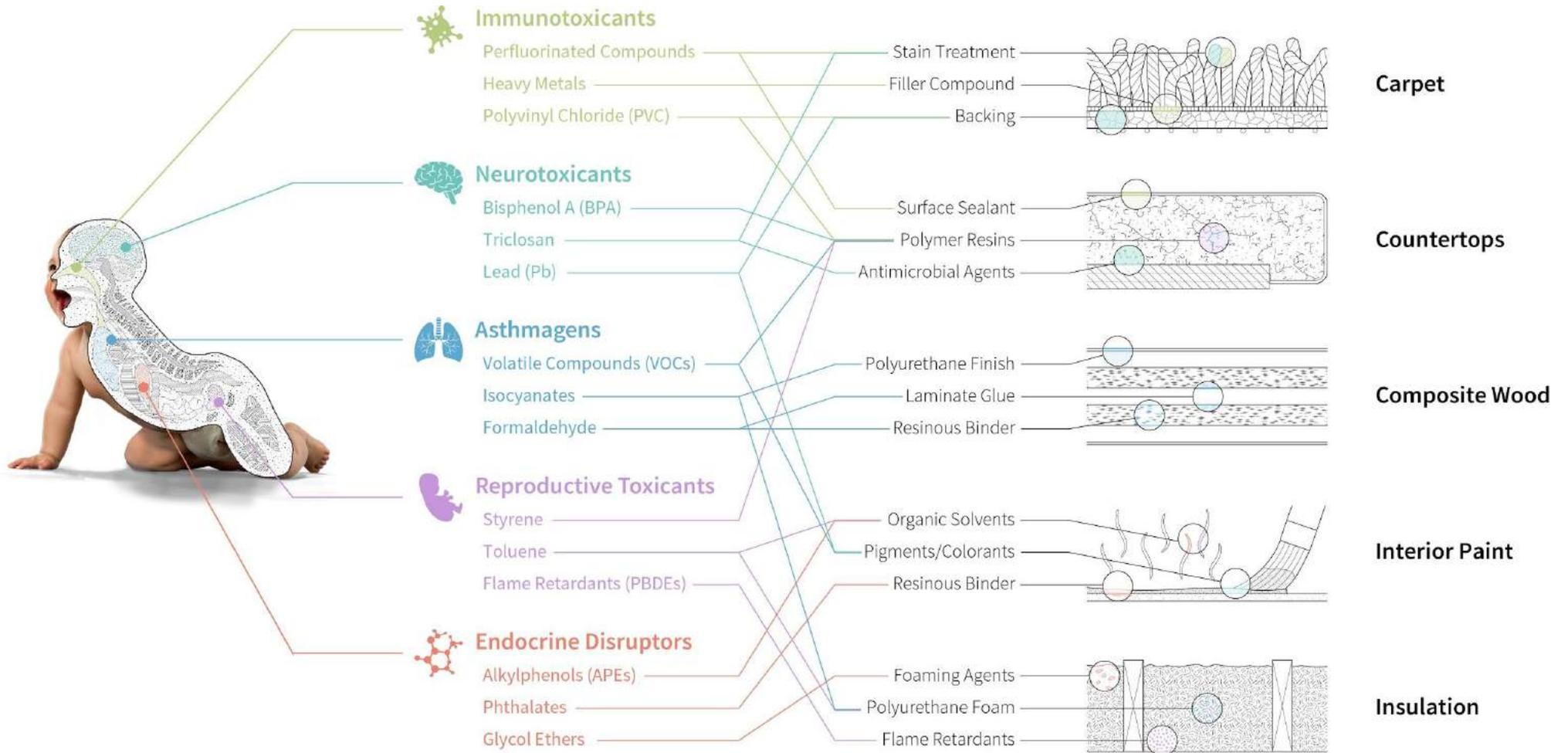
79 can cause **Birth Defects** and
Developmental Delays



How can we avoid these substances? What should we look for?



Material Components and their Commonly Related Hazards



EPD[®]
INTERNATIONAL EPD[®] SYSTEM

nsparency

Current industry methods for evaluating material-health.



Declare.SM

Your Product
Your Company
Final Assembly: City, State, Country



VERSION 2.0

Cambria
by Cambria[®]

CLASSIFICATION: 12.36.61.19

PRODUCT DESCRIPTION: CAMBRIA IS A NATURAL QUARTZ SLAB. SINCE CAMBRIA IS A NATURAL QUARTZ SLAB, IT HAS AN INCREDBLY LUXURIOUS LOOK AND FEEL. THE ASSOCIATED WITH CAMBRIA LOOK AND FEEL ARE NOT ASSOCIATED WITH CAMBRIA ARE A RESULT OF THE WATER WHICH CAN LEAD TO SILICOSIS. ON LONGER PRESENT IN THE FINISHED PRODUCTS (GRANITE, MARBLE, CONCRETE FABRICATION (CUTTING & POLISHING) OF DURABLE, BEAUTIFUL, AND ENVIRONMENTAL

Section 1: Summary

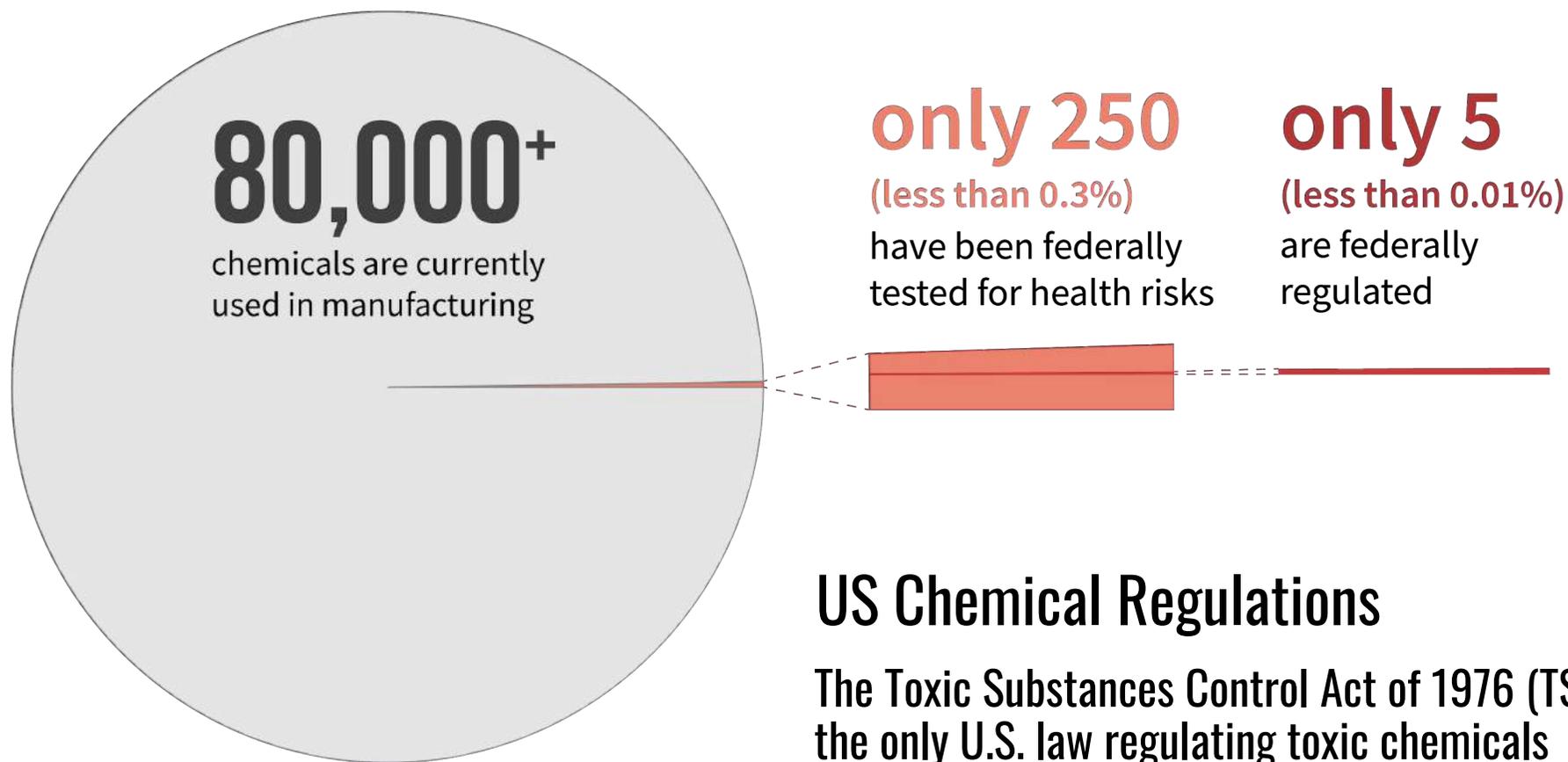
CONTENT INVENTORY

- Threshold per material
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals and impurities considered in 0 of 3 materials
 see Section 2: Material Notes
 see Section 5: General Notes

Based on the se
Characterized...
Are the Percent
Screened.....
Are all substan
disclosed?
Identified.....
Are all substan

Lack of Federal Regulation



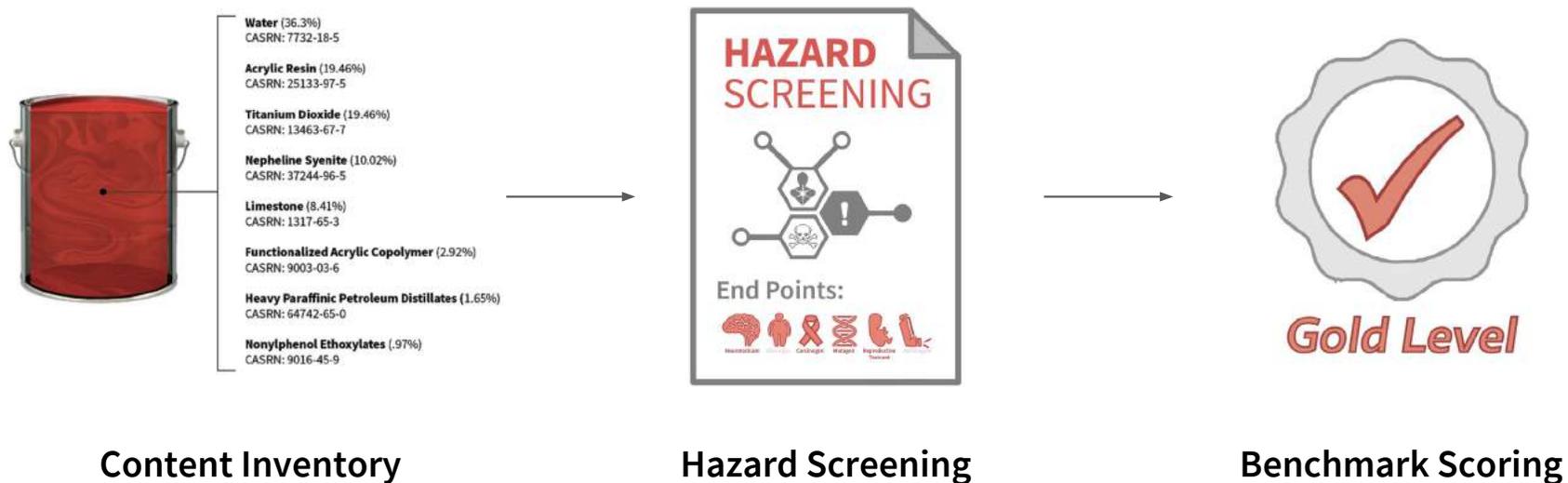
Emergence of Hundreds of Standards and Certifications



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Essential Components of most Material-Health Evaluations



Material-Health Assessment | Content Inventory

What's inside?



Contents



Water (36.3%) CASRN: 7732-18-5
Acrylic Resin (19.46%) CASRN: 25133-97-5
Titanium Dioxide (19.46%) CASRN: 13463-67-7
Nepheline Syenite (10.02%) CASRN: 37244-96-5
Limestone (8.41%) CASRN: 1317-65-3
Functionalized Acrylic Copolymer (2.92%) CASRN: 9003-03-6
Heavy Paraffinic Petroleum Distillates (1.65%) CASRN: 64742-65-0
Nonylphenol Ethoxylates (.97%) CASRN: 9016-45-9

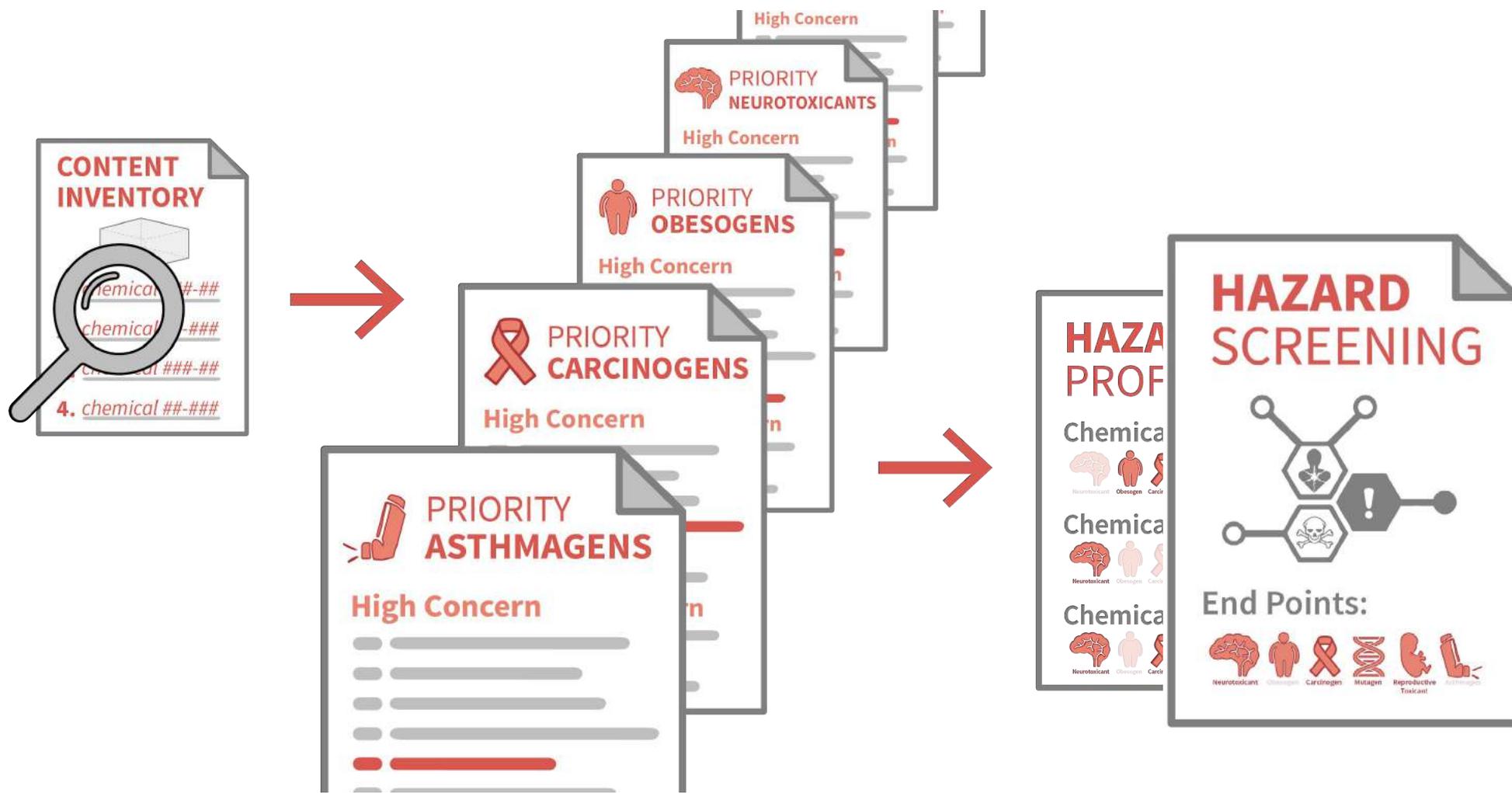
Inventory List

CONTENT INVENTORY



1. chemical ###-##
2. chemical ##-###
3. chemical ###-##
4. chemical ##-###

Material-Health Assessment | Hazard Screening



Material-Health Assessment | Benchmark Scoring



Cradle to Cradle Material Health Evaluations + Ratings	Platinum	Gold	Silver	Bronze	Basic
Content Disclosure Levels 	100%	100%	95%	75%	---
Screened Banned List Chemicals 					
Screened for Carcinogens, Mutagens, Reproductive Toxics 					

Voluntary Participation : Limited Options in a Given Program

The screenshot shows the Cradle to Cradle Products Innovation Institute website. The header includes navigation links: Drive Change, Get Certified, Connect, Find Certified Products, and Donate. The main content area is titled "Material Health Certificate Registry" and features a search bar and a grid of certified products. A red box highlights "56 certifications" in the search results area. The grid displays three product categories: Structural Building Materials (Platinum), Apparel (Platinum), and Apparel (Platinum). The products shown are Accoya® Wood (Radiata Pine & Alder), Apparel for Biological Cycle by Cotton Blossom, and Apparel for goodness by Pacific Jeans.

Search & Filters

Search by keywords

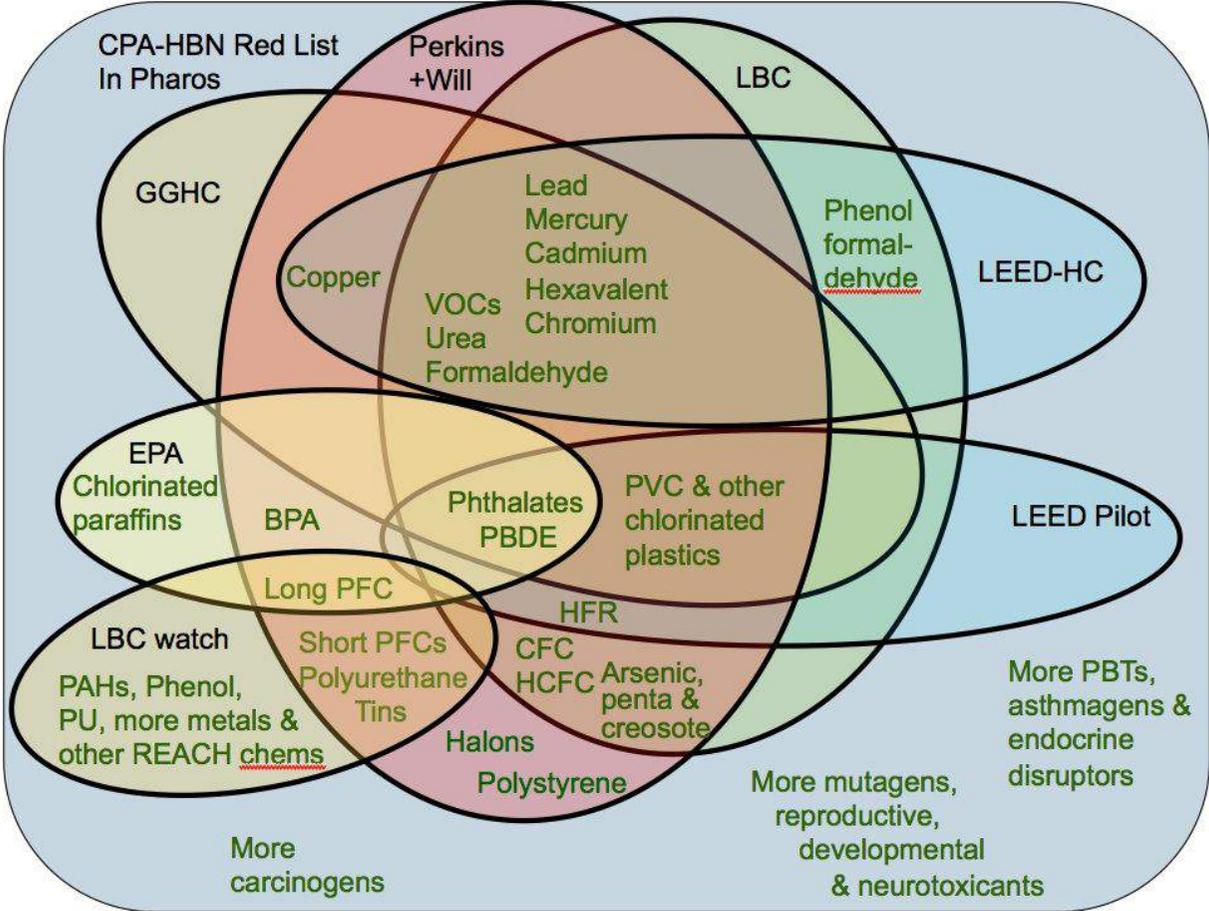
Categories MasterFormat

- All
- Auto & Tires (3) <
- Baby (1) <
- Basic Materials (8) <
- Building Supply & Materials (146) <
- Fashion + Textiles (27) <
- Health & Beauty (3) <
- Home & Office Supply (1) <
- Interior Design & Furniture (43) <
- Packaging & Paper (16) <

56 certifications

Structural Building Materials	Apparel	Apparel
Accoya® Wood (Radiata Pine & Alder) ACCYS TECHNOLOGIES Accoya® wood is the result of decades of research and development that has	Apparel for Biological Cycle by Cotton Blossom COTTON BLOSSOM INDIA PRIVATE LIMITED	Apparel for goodness by Pacific Jeans PACIFIC JEANS LTD. Casual Jeans for Men's & Ladies.

How do you compare dissimilar rating systems?



& More beyond!

Courtesy of Healthy Building Network

What does one standard mean against another? What do any of them actually mean in terms of health impacts?



C2C Silver

vs.



GreenGuard Gold

vs.



BIFMA Level-1

Using the SDGs to bring meaning back to metrics



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In Search of a Common Language



Precedents for Adoption and Guided Framework Development



[SDG Compass Download](#)



Integration with OneNYC



GLOBAL VISION | URBAN ACTION
A City with Global Goals
Part I

A grid of 18 custom icons arranged in three rows and six columns. The icons represent various urban and global goals, including: gears, a train, a crossed-out 80/50, a group of people, a target, a bridge, a school, a hand holding a leaf, a hand holding a building, a hand holding a tree, an anchor, a group of people, two running figures, a building, a trash can, a house, a medical symbol, and a hand holding a drop of water.

Integration with OneNYC | Starting from Existing “Visions”



Launched on April 22, 2015, **One New York: The Plan for a Just and Strong City (OneNYC)** is an innovative blueprint for the City’s future that focuses on four interdependent visions: **growth**, **equity**, **sustainability** and **resiliency**.

VISION 1

New York City will continue to be the world’s most dynamic urban economy, where families, businesses, and neighborhoods thrive



VISION 3

New York City will be the most sustainable big city in the world and a global leader in the fight against climate change



VISION 2

New York City will have an inclusive, equitable economy that offers well-paying jobs and opportunity for all New Yorkers to live with dignity and security



VISION 4

Our neighborhoods, economy, and public services will be ready to withstand and emerge stronger from the impacts of climate change and other 21st century threats



For more information, please visit: nyc.gov/onenyc

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Integration with OneNYC | Translating to the SDGs



A Communication Tool that Aligns Local and Global Visions

SDG Goals and Targets

3 GOOD HEALTH AND WELL-BEING



ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES


Workforce Development


Housing


Early Childhood


Integrated Government & Social Services


Healthy Neighborhoods, Active Living


Healthcare Access


Criminal Justice Reform


Vision Zero


80 x 50


Zero Waste


Air Quality


Brownfields


Water Management


Parks & Natural Resources

- 3.1 By 2030, reduce the global maternal mortality ratio to less than 70 per 100,000 live births
- 3.2 By 2030, end preventable deaths of newborns and children under 5 years of age, with all countries aiming to reduce neonatal mortality to at least as low as 12 per 1,000 live births and under-5 mortality to at least as low as 25 per 1,000 live births
- 3.3 By 2030, end the epidemics of AIDS, tuberculosis, malaria and neglected tropical diseases and combat hepatitis, water-borne diseases and other communicable diseases
- 3.4 By 2030, reduce by one third premature mortality from non-communicable diseases through prevention and treatment and promote mental health and well-being
- 3.5 Strengthen the prevention and treatment of substance abuse, including narcotic drug abuse and harmful use of alcohol
- 3.6 By 2020, halve the number of global deaths and injuries from road traffic accidents

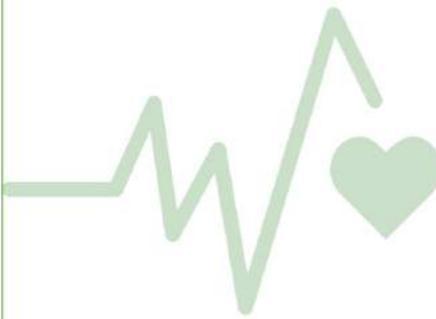
3.7 By 2030, ensure universal access to sexual and reproductive health-care services, including for family planning, information and education, and the integration of reproductive health into national strategies and programs

3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all

3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

“More than 450 million across the globe suffer from mental illnesses.”

Source: World Health Organization, 2001, <http://www.who.int/mediacentre/factsheets/fs220/en/>

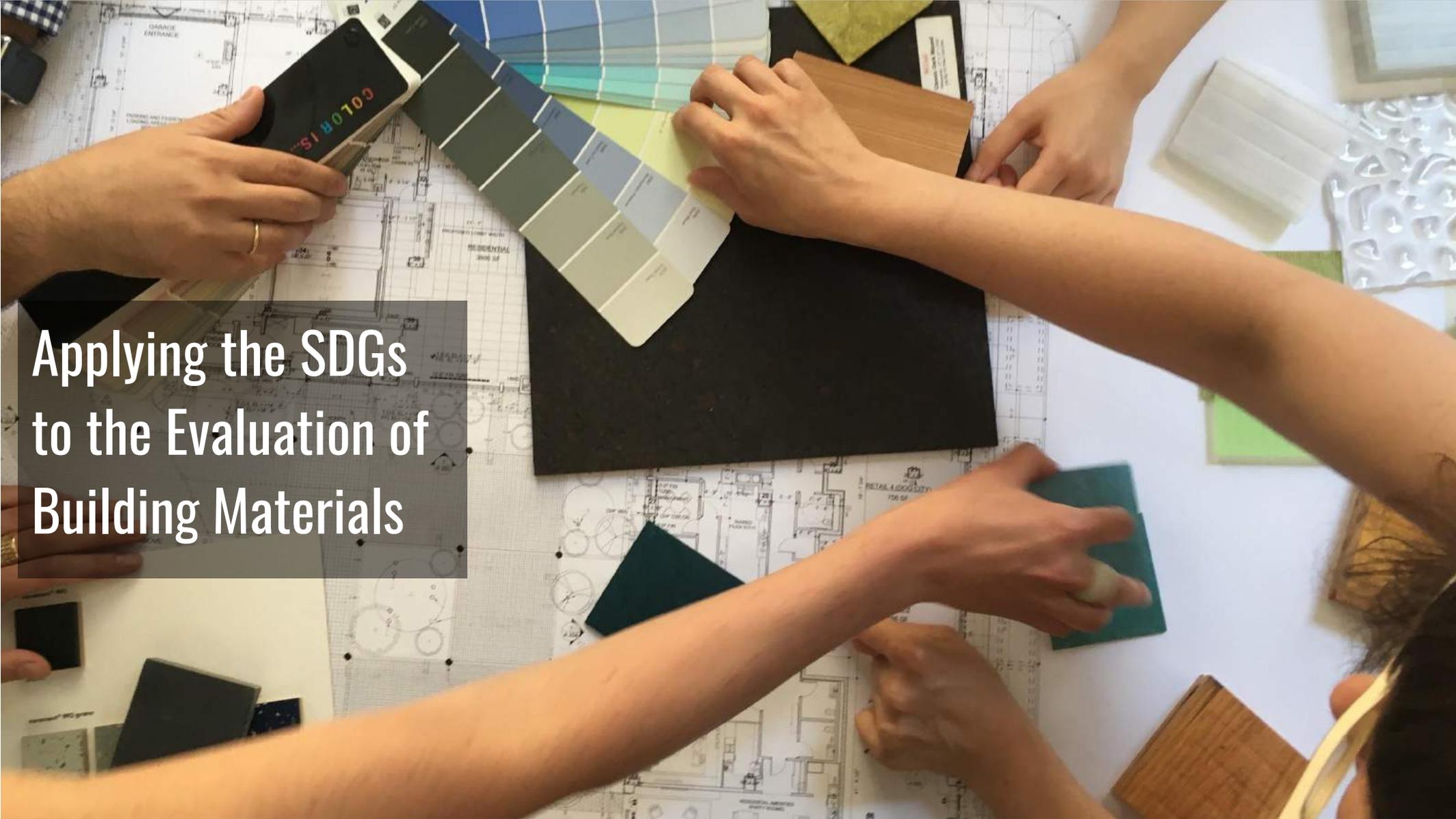


“One in five New Yorkers experience a mental health disorder in a given year.”

Source: New York City, ThriveNYC, <https://thrive.nyc.cityofnewyork.us/>

“Since the launch of OneNYC, New York City has committed to investing \$850 million on 54 unique initiatives to transform its mental health care systems.”

Source: OneNYC 2016 Progress Report, <http://www1.nyc.gov/html/onenyc/downloads/pdf/publications/OneNYC-2016-Progress-Report.pdf>



Applying the SDGs to the Evaluation of Building Materials

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Identify Fundamental Material Concerns



Human Health



Social Justice



Climate Change



Environmental Impacts



Resource Renewability



Information Transparency

Correlate to Primary SDGs



Human Health



Social Justice



Climate Change



Environmental Impacts



Resource Renewability



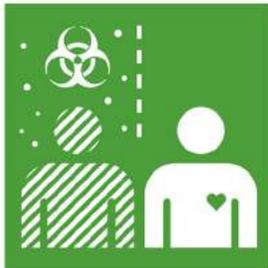
Information Transparency



Correlate to Primary SDGs and Targets

Human Health

TARGET 3-9



REDUCE ILLNESSES AND DEATH FROM HAZARDOUS CHEMICALS AND POLLUTION

3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

Social Justice

TARGET 8-8



PROTECT LABOUR RIGHTS AND PROMOTE SAFE WORKING ENVIRONMENTS

8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment

Climate Change

TARGET 12-2



SUSTAINABLE MANAGEMENT AND USE OF NATURAL RESOURCES

12.2 By 2030, achieve the sustainable management and efficient use of natural resources

Environmental Impacts

TARGET 12-4



RESPONSIBLE MANAGEMENT OF CHEMICALS AND WASTE

12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

Resource Renewability

TARGET 12-5



SUBSTANTIALLY REDUCE WASTE GENERATION

12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

Information Transparency

TARGET 12-6



ENCOURAGE COMPANIES TO ADOPT SUSTAINABLE PRACTICES AND SUSTAINABILITY REPORTING

12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle

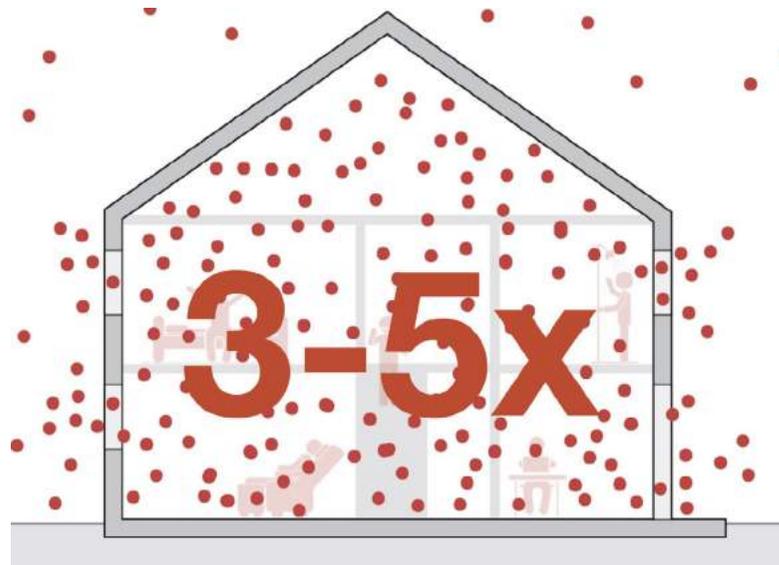
Organizational Significance and Goals | Target 3-9



TARGET 3-9



REDUCE ILLNESSES AND DEATH FROM HAZARDOUS CHEMICALS AND POLLUTION



Organizational Significance

A majority of building materials contain some form of toxic chemicals, which have potential to expose occupants who may be at risk from spending 90% of their time indoors where pollutants are often 3-5x more concentrated.



Organizational Goal

Specify products that have been evaluated for chemical content and optimized to avoid hazards, particularly for materials that are inside the building envelope.

Defining Organizational Indicators | Target 3-9



INDICATOR TYPE:

Content Screening & Optimization Programs

Screening against authoritative Restricted Substances Lists (RSLs) and optimization to avoid all possible hazards

Declare's Red List Free *International Living Future Institute*

-Avoids the 20 worst in class materials prevalent in the building industry

C2C Material Health Certificate *Cradle to Cradle*

-C2C Banned List Compliant
-No exposure from CMRs
-Fully optimized chemical inventory
-Meets VOC emissions requirements

Green Seal-11 Standard *Green Seal*

Prohibits the use of specific substances:
-Preservatives that emit formaldehyde into the paint over time
-Heavy metals such as lead and mercury
-CMRs, hazardous air pollutant, or ozone depleting substance

Defining Organizational Indicators | Target 12-6

TARGET 12-6



INDICATOR TYPE:

Fully-Compliant Content Disclosures with Hazard Assessments

With the goal of promoting accurate and usable disclosure information, participation alone does not qualify as an indicator



Declare Label



Health Product Declaration (HPD)



Environmental Product Declaration (EPD)

SDGs Framework for Evaluating Materials

SDGS FRAMEWORK						
Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
SDG Target	Target 3.9	Target 8.8	Target 12.2	Target 12.4	Target 12.5	Target 12.6
Target Description	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment	12.2 By 2030, achieve the sustainable management and efficient use of natural resources	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment	12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle
Indicators Types	Screening and Optimization against authoritative Restricted Substances Lists (RSLs)	Assessment of employees' health and wellbeing throughout the supply chain of manufacturing	Embodied energy and greenhouse gas (GHG) emissions in manufacturing	Life Cycle Analysis	Recycled Content	Content Disclosures with Hazard Assessments
Indicator Sources	  	 	  	  	  	  

Inclusivity Allows for Sourcing from a Broader Pool of Products

The screenshot shows the Material Health Certificate Registry website. The header includes navigation links like 'Drive Change', 'Get Certified', and 'Connect'. A prominent banner reads 'GRADLE TO GRADLE PRODUCTS INNOVATION INSTITUTE'. Below the banner, there's a search bar and a 'Find Certified Products' button. The main content area features a 'Search & Filters' sidebar on the left with categories like 'Auto & Tires', 'Baby', and 'Basic Materials'. The main display shows '13 certifications' with a grid of product images and descriptions for 'KALK Rødvig Kulekalk (KALK Rodvig Slaked Lime)' and 'Tandus Centiva C-56 Floor Primer'.

The screenshot shows the Declare website, which is described as 'THE NUTRITION LABEL FOR PRODUCTS'. The header includes navigation links like 'PROGRAMS', 'EDUCATION - EVENTS', 'ABOUT US', and 'GET INVOLVED'. The main banner features the 'Declare.' logo and the tagline 'THE NUTRITION LABEL FOR PRODUCTS'. Below the banner, there's a 'DECLARE YOUR PRODUCT' button. The main content area displays a grid of product images with 'Red List Free' labels, including 'WHITSTONE WALLBOARDS', 'AMERICAN BILTITE AB PURE', 'CAPRI COLLECTIONS AND/OR', and 'ARMSTRONG WORLD INDUSTRIES, INC. AXIOM TRIMS, SAMP, TRANSITIONS'.

The screenshot shows the Green Seal website, which is focused on 'find green products & services'. The header includes navigation links like 'about green seal', 'green living', 'green business', 'green governments & non-profits', 'news, events & publications', and 'find green products & services'. The main banner features the Green Seal logo and a search bar. Below the banner, there's a 'find green products & services' button. The main content area displays a grid of product images with Green Seal logos, including 'Acacia Paper', 'Acacia Paper', 'Acacia Paper', 'American Lime', 'American Lime', 'American Lime', 'American Lime', 'American Lime', and 'American Paper'.

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Consolidated Product Libraries | Mindful Materials



mindful MATERIALS Library Jack Dinning

Selected Filters: none 6765 materials found

BASIC INFORMATION		MATERIAL INGREDIENTS								
Brand	Material	Report	Improve	Remove	EP	VOC	MS	SR	OI	
Page 1										
Stego Industries	Stego Wrap Vapor Barrier (15-mil)	Multiple	—	PVC-Free	—	—	●	—	●	
Humanscale	CPU 600	—	—	PVC-Free	—	—	●	—	●	
Armstrong Ceiling & Wall ...	InvisAcoustics™	HPD v2.1	—	—	●	—	—	—	●	
Humanscale	Liberty® Side	Multiple	—	—	—	—	●	—	●	
Humanscale, Inc.	M8	Multiple	Declare - ...	PVC-Free	—	—	●	—	●	
Patcraft Commercial	Aberdeen Modular	—	—	PVC-Free	●	—	●	—	—	
IceStone, LLC	IceStone® Durable Surface	HPD v1.0	—	PVC-Free	—	—	●	—	●	
Aspecta® Five	Aspecta® Five - Luxury Vinyl Tile	Multiple	—	—	●	●	●	—	●	
Aspecta® One	Aspecta® One / Aspecta® One Ornamental - Luxury ...	Multiple	—	—	●	●	●	—	●	
Aspecta® Ten	Aspecta® Ten - Multilayer Modular Flooring	Multiple	—	—	●	●	●	—	●	
Page 2										

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A Tool for Comparing Product Options

Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
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Indicators Types	Screening and Optimization against authoritative Restricted Substances Lists (RSLs)	Assessment of employees' health and wellbeing throughout the supply chain of manufacturing	Embodied energy and greenhouse gas (GHG) emissions in manufacturing	Life Cycle Analysis	Recycled Content	Content Disclosures with Hazard Assessments
Indicator Sources	  	 	  	  	  	  
SAMPLE PRODUCT ASSESSMENT						
Product Option #1						
Product Option #2						
Product Option #3						

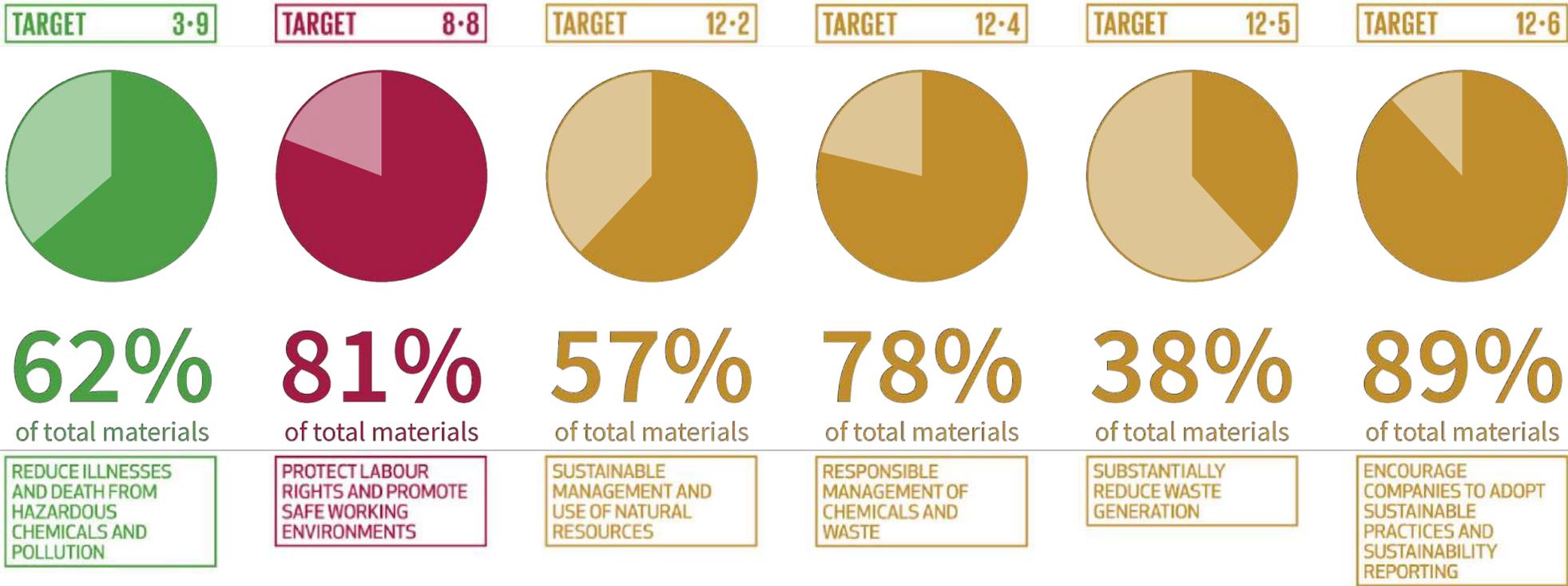
Simplified Comparison of Meaningful Impacts

Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
SDG Target	Target 3.9	Target 8.8	Target 12.2	Target 12.4	Target 12.5	Target 12.6
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SAMPLE PRODUCT ASSESSMENT						
Product Option #1						
Product Option #2						
Product Option #3						

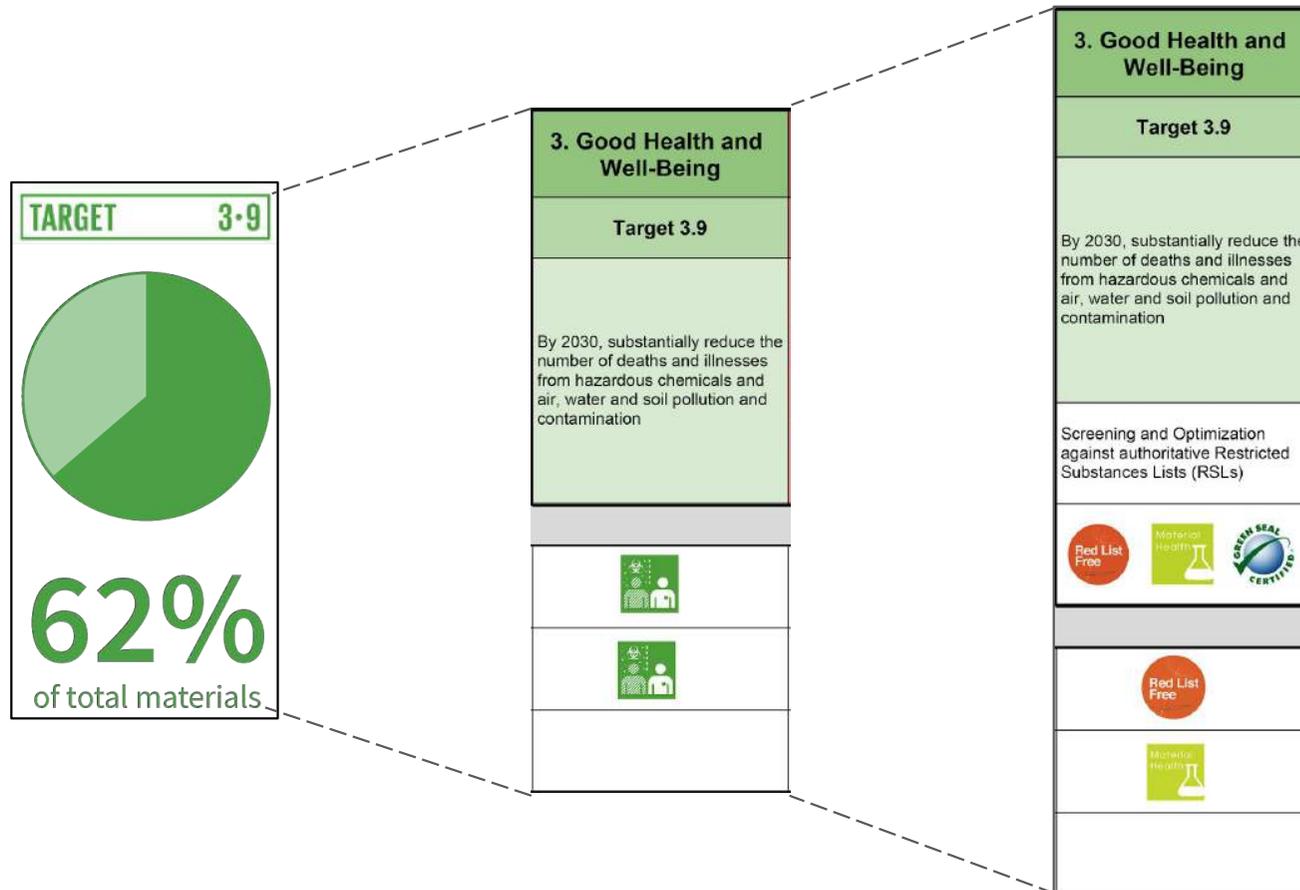
Full-Building Assessment of Material Impacts

Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
SDG Target	Target 3.9	Target 8.8	Target 12.2	Target 12.4	Target 12.5	Target 12.6
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Materials Assessment for the Indoor Environment						
Flooring						
Paint						
Drywall						
Countertops						
Millwork						

Communicating High-Level Successes and Contributions



Maintaining Connections to Deeper Levels of Source Information



Identifying Areas for Future Improvement

Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
SDG Target	Target 3.9	Target 8.8	Target 12.2	Target 12.4	Target 12.5	Target 12.6
Target Description	By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination	8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment	12.2 By 2030, achieve the sustainable management and efficient use of natural resources	12.4 By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment	12.5 By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse	12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle
Materials Assessment for the Indoor Environment						
Flooring						
Paint						
Drywall						
Countertops						
Millwork						

Identifying Areas with Greatest Potential for Impact

Primary SDG	3. Good Health and Well-Being	8. Decent Work and Economic Growth	12. Responsible Consumption and Production			
SDG Target	Target 3.9	Target 8.8	Target 12.2	Target 12.4	Target 12.5	Target 12.6
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Materials Assessment for the Indoor Environment						
Flooring						
Paint						
Drywall						
Countertops						
Millwork						

An aerial photograph of New York City, showing a dense urban landscape with numerous skyscrapers and buildings. Central Park is visible in the lower right foreground, with its trees showing autumn colors. The city extends to the water in the background, with bridges and distant land visible under a clear sky.

Reflection and Outlook

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Individually, an Asset to All Major Stakeholders



Architects

- Efficient design processes
- Greater selection of products
- Meaningful decision-making
- Language for articulating intentions



Manufacturers

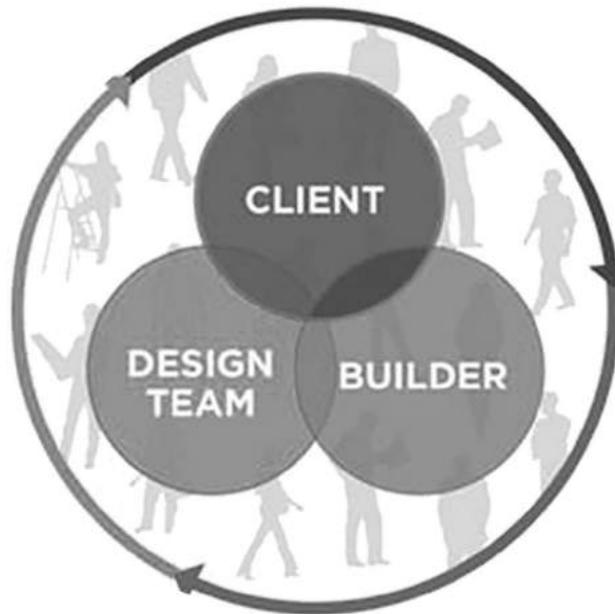
- Less redundancy in disclosing and certifying products across multiple standards
- Marketability of global impacts



Developers

- Ability to evaluate decisions and prioritize the most impactful (RoI)
- Marketability for potential occupants and establishing brand identity

Collectively, a Common Language Can Transform the Movement



Core Team

- Architects
- Developers
- Contractors

Collectively, a Common Language Can Transform the Movement



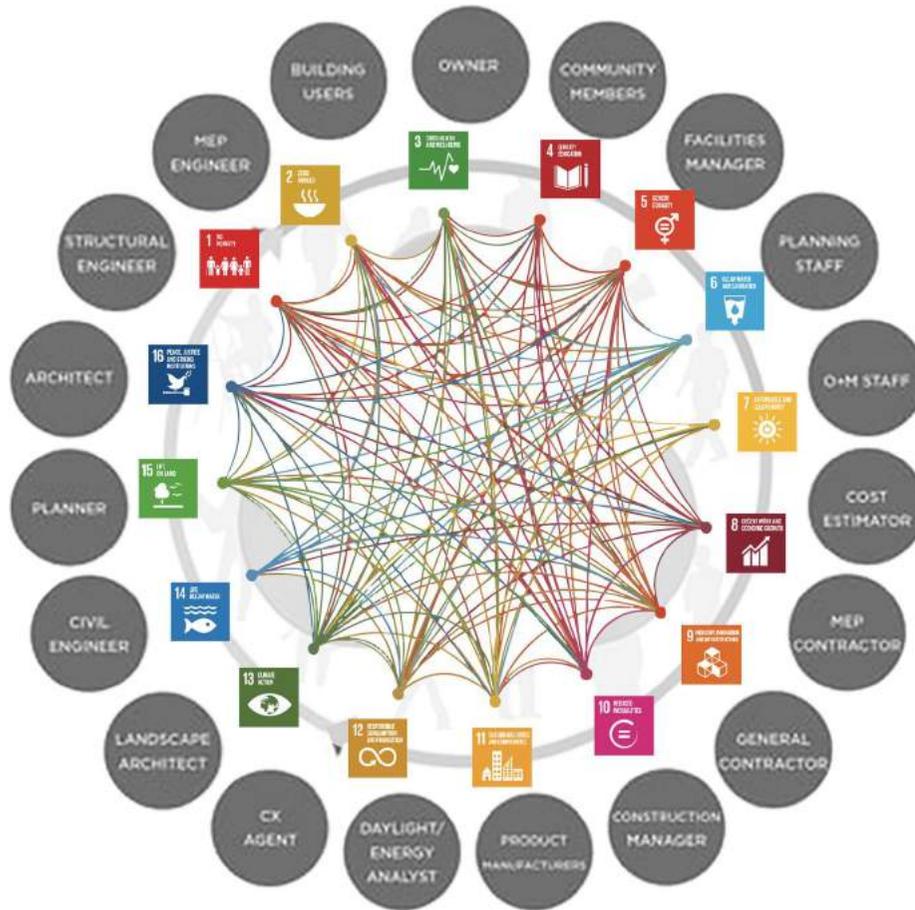
Core Team

- Architects
- Developers
- Contractors

Integrated & Extended Team

- Major Building Standards
- Industry Organizations
- Planners
- Policy Makers
- Chemists & Toxicologists

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