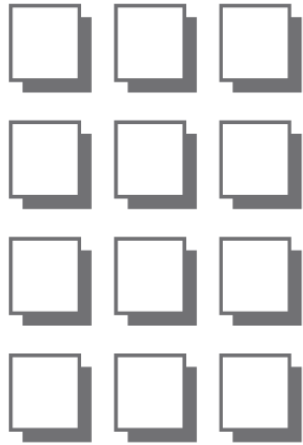


**Dipl.-Ing. (FH) Kay Killmann**

Überblick & Einführung  
Unified Search Plattform des GBCI

**GBCI**<sup>®</sup> Europe



**GREEN BUSINESS  
CERTIFICATION INC.**

---

Kay Killmann  
Head of Europe



# Unified Search

## Die globale Materialien - Plattform des GBCI.

45min Webinar + 15min Q&A

- Materialienwahl in LEEDv4 | 4.1
- Vorstellung *Unified Search*
- Perspektive eines Produktzertifizierer – ecoINSTITUT
- Beispiel Datenbank Spot | UL
- Beispiel Datenbank Building Material Scout



# MARKET TRANSFORMATION

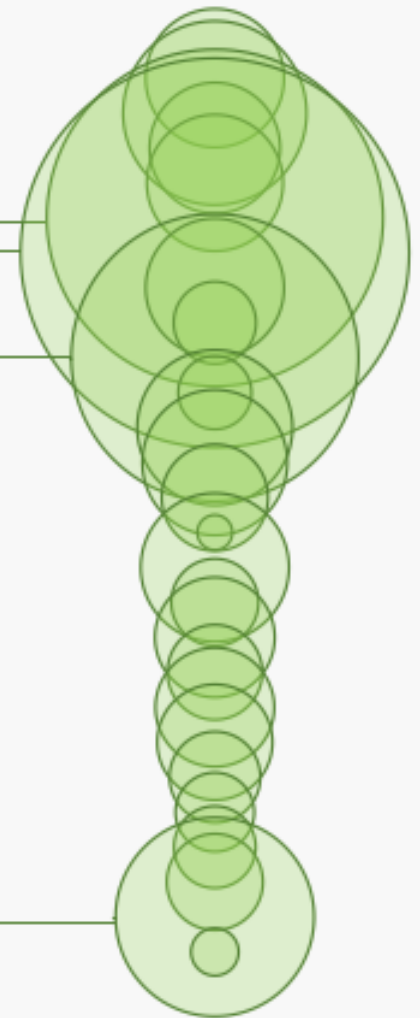




# LEED CERTIFICATION COUNTS TOP 25 NATIONS EUROPE

Leading countries in the European market for LEED-certified projects by count and count per million people.

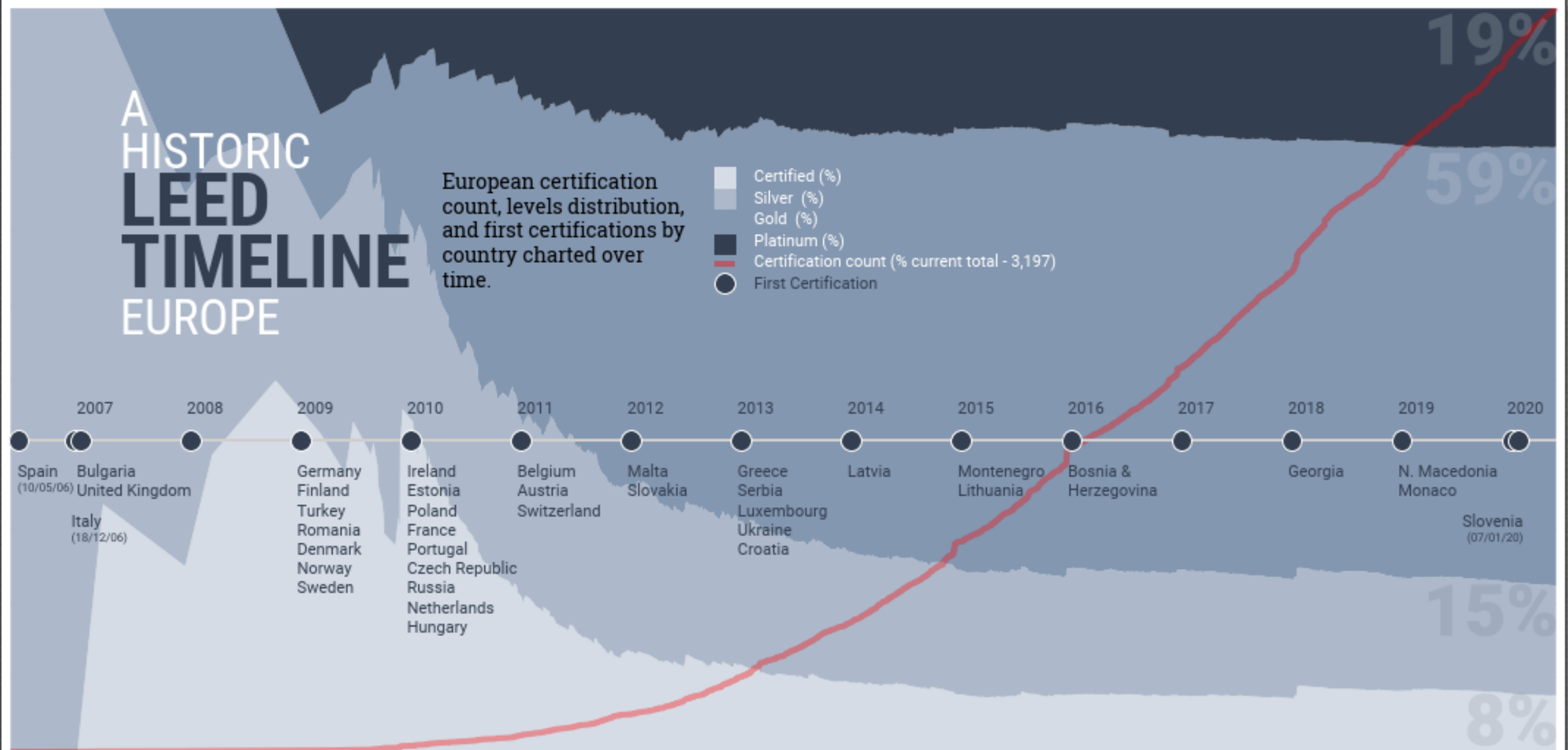
LEED CERTIFICATIONS	COUNTRY NAME	LEED CERTIFICATIONS PER MILLION PEOPLE
433	Turkey	5.2
423	Spain	9.1
387	Germany	4.6
305	Italy	5.0
301	Sweden	30.0
221	Finland	39.9
197	Poland	5.2
127	United Kingdom	1.9
107	Ireland	21.9
98	France	1.5
63	Hungary	6.5
61	Czech Republic	5.7
60	Romania	3.1
54	Russia	0.4
51	Switzerland	5.9
36	Netherlands	2.1
35	Austria	3.9
26	Greece	2.5
21	Slovakia	3.8
21	Denmark	3.6
20	Serbia	2.3
20	Belgium	1.7
19	Portugal	1.9
18	Bulgaria	2.6
14	Estonia	10.6
50	Other Europe	0.6



# A HISTORIC LEED TIMELINE EUROPE

European certification count, levels distribution, and first certifications by country charted over time.

- Certified (%)
- Silver (%)
- Gold (%)
- Platinum (%)
- Certification count (% current total - 3,197)
- First Certification



Year	Country
2006	Spain (10/05/06)
2006	Bulgaria (18/12/06)
2006	United Kingdom
2006	Italy (18/12/06)
2009	Germany
2009	Finland
2009	Turkey
2009	Romania
2009	Denmark
2009	Norway
2009	Sweden
2010	Ireland
2010	Estonia
2010	Poland
2010	France
2010	Portugal
2010	Czech Republic
2010	Russia
2010	Netherlands
2010	Hungary
2011	Belgium
2011	Austria
2011	Switzerland
2012	Malta
2012	Slovakia
2013	Greece
2013	Serbia
2013	Luxembourg
2013	Ukraine
2013	Croatia
2014	Latvia
2015	Montenegro
2015	Lithuania
2016	Bosnia & Herzegovina
2018	Georgia
2019	N. Macedonia
2019	Monaco
2020	Slovenia (07/01/20)







**BUILDING**  
CERTIFICATION

# AUFGABEN & VERANTWORTUNG

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**ARCHITEKTEN**



**INGENIEURE**



**FACILITY  
MANAGERS**



**INNEN-  
ARCHITEKTEN**



# LEED v4.1

Powered by Arc

**The first green building performance  
standard in the world**

# LEED v4 | v4.1

## NEUBAU | INNENAUSBAU


### BD+C | Building Design + Construction


### ID+C | Interior Design + Construction





# LEED for New Construction and Major Renovations (v4)


		<b>POSSIBLE: 1</b>
Credit	Integrative process	1

	<b>LOCATION &amp; TRANSPORTATION</b>	<b>POSSIBLE: 16</b>
Credit	LEED for Neighborhood Development location	16
Credit	Sensitive land protection	1
Credit	High priority site	2
Credit	Surrounding density and diverse uses	5
Credit	Access to quality transit	5
Credit	Bicycle facilities	1
Credit	Reduced parking footprint	1
Credit	Green vehicles	1

	<b>SUSTAINABLE SITES</b>	<b>POSSIBLE: 10</b>
Prereq	Construction activity pollution prevention	REQUIRED
Credit	Site assessment	1
Credit	Site development - protect or restore habitat	2
Credit	Open space	1
Credit	Rainwater management	3
Credit	Heat island reduction	2
Credit	Light pollution reduction	1

	<b>WATER EFFICIENCY</b>	<b>POSSIBLE: 11</b>
Prereq	Outdoor water use reduction	REQUIRED
Prereq	Indoor water use reduction	REQUIRED
Prereq	Building-level water metering	REQUIRED
Credit	Outdoor water use reduction	2
Credit	Indoor water use reduction	6
Credit	Cooling tower water use	2
Credit	Water metering	1

	<b>ENERGY &amp; ATMOSPHERE</b>	<b>POSSIBLE: 33</b>
Prereq	Fundamental commissioning and verification	REQUIRED
Prereq	Minimum energy performance	REQUIRED
Prereq	Building-level energy metering	REQUIRED
Prereq	Fundamental refrigerant management	REQUIRED
Credit	Enhanced commissioning	6
Credit	Optimize energy performance	18
Credit	Advanced energy metering	1
Credit	Demand response	2
Credit	Renewable energy production	3
Credit	Enhanced refrigerant management	1
Credit	Green power and carbon offsets	2

	<b>MATERIAL &amp; RESOURCES</b>	<b>POSSIBLE: 13</b>
Prereq	Storage and collection of recyclables	REQUIRED
Prereq	Construction and demolition waste management planning	REQUIRED
Credit	Building life-cycle impact reduction	5
Credit	Building product disclosure and optimization - environmental product declarations	2
Credit	Building product disclosure and optimization - sourcing of raw materials	2
Credit	Building product disclosure and optimization - material ingredients	2
Credit	Construction and demolition waste management	2

	<b>INDOOR ENVIRONMENTAL QUALITY</b>	<b>POSSIBLE: 16</b>
Prereq	Minimum IAQ performance	REQUIRED
Prereq	Environmental tobacco smoke control	REQUIRED
Credit	Enhanced IAQ strategies	2
Credit	Low-emitting materials	3
Credit	Construction IAQ management plan	1
Credit	IAQ assessment	2
Credit	Thermal comfort	1
Credit	Interior lighting	2
Credit	Daylight	3
Credit	Quality views	1
Credit	Acoustic performance	1

	<b>INNOVATION</b>	<b>POSSIBLE: 6</b>
Credit	Innovation	5
Credit	LEED Accredited Professional	1

	<b>REGIONAL PRIORITY</b>	<b>POSSIBLE: 4</b>
Credit	Regional priority	4

**TOTAL** **110**

<b>CERTIFIED</b>	<b>SILVER</b>	<b>GOLD</b>	<b>PLATINUM</b>
40-49 Points	50-59 Points	60-79 Points	80+ Points



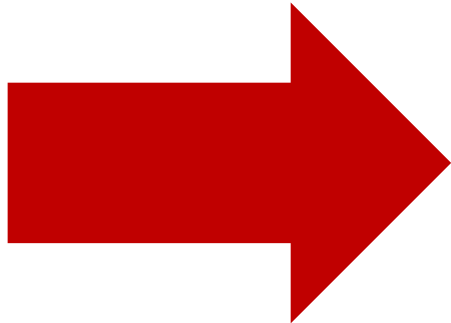
(v4)



**MATERIAL & RESOURCES**

**POSSIBLE: 13**

Prereq	Storage and collection of recyclables	REQUIRED
Prereq	Construction and demolition waste management planning	REQUIRED
Credit	Building life-cycle impact reduction	5
Credit	Building product disclosure and optimization - environmental product declarations	2
Credit	Building product disclosure and optimization - sourcing of raw materials	2
Credit	Building product disclosure and optimization - material ingredients	2



**Offenlegung und Optimierung für Bauprodukt - Umweltzertifizierung von Produkten** 1-2  
Building Product Disclosure and Optimization – Environmental Product Declarations

**Offenlegung und Optimierung für Bauprodukt – Sourcing von Rohmaterialien** 1-2  
Building Product Disclosure and Optimization – Sourcing of Raw Materials

**Offenlegung und Optimierung für Bauprodukt - Materialbestandteile** 1-2  
Building Product Disclosure and Optimization – Material Ingredients

# PRIORITY AREAS FOR PRODUCTS & MATERIALS IN LEED



## LOW-CARBON

- Reuse of Buildings and Materials
- Lifecycle Analysis & Disclosure
- Environmental Product Declarations
- Optimized Low-Carbon Materials



## HEALTHY

- Low-Emitting Materials
- Ingredient Disclosure
- Ingredient Optimization
- Alternatives Assessment



## CIRCULAR

- Salvaged materials
- Recycling and Recycled content
- Extended Producer Responsibility
- Bio-based & Sustainably Harvested

Anerkennung innovativer Materialhersteller

# CREATIVE TENSION





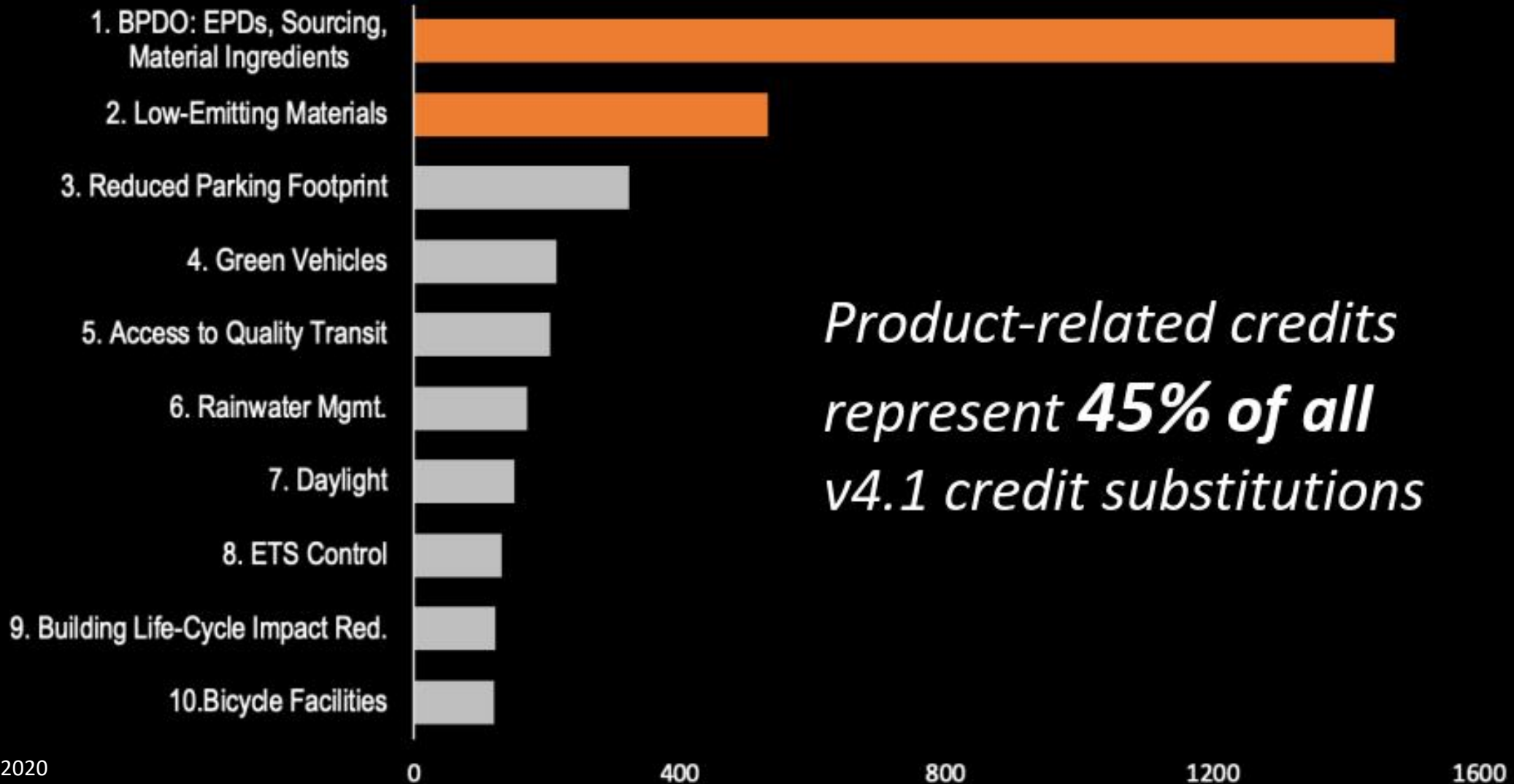


# LEED v4.1 Credit Substitutions

As of April 13, 2020

- Total number of credit substitutions: **7,400+**
- Number of unique projects: **2,300**
- **Average of 3 substitutions** per project

# Top 10 Substituted Credits in LEED v4.1



# Product-Related Credits Dominate v4.1 Substitutions

as of April 13, 2020

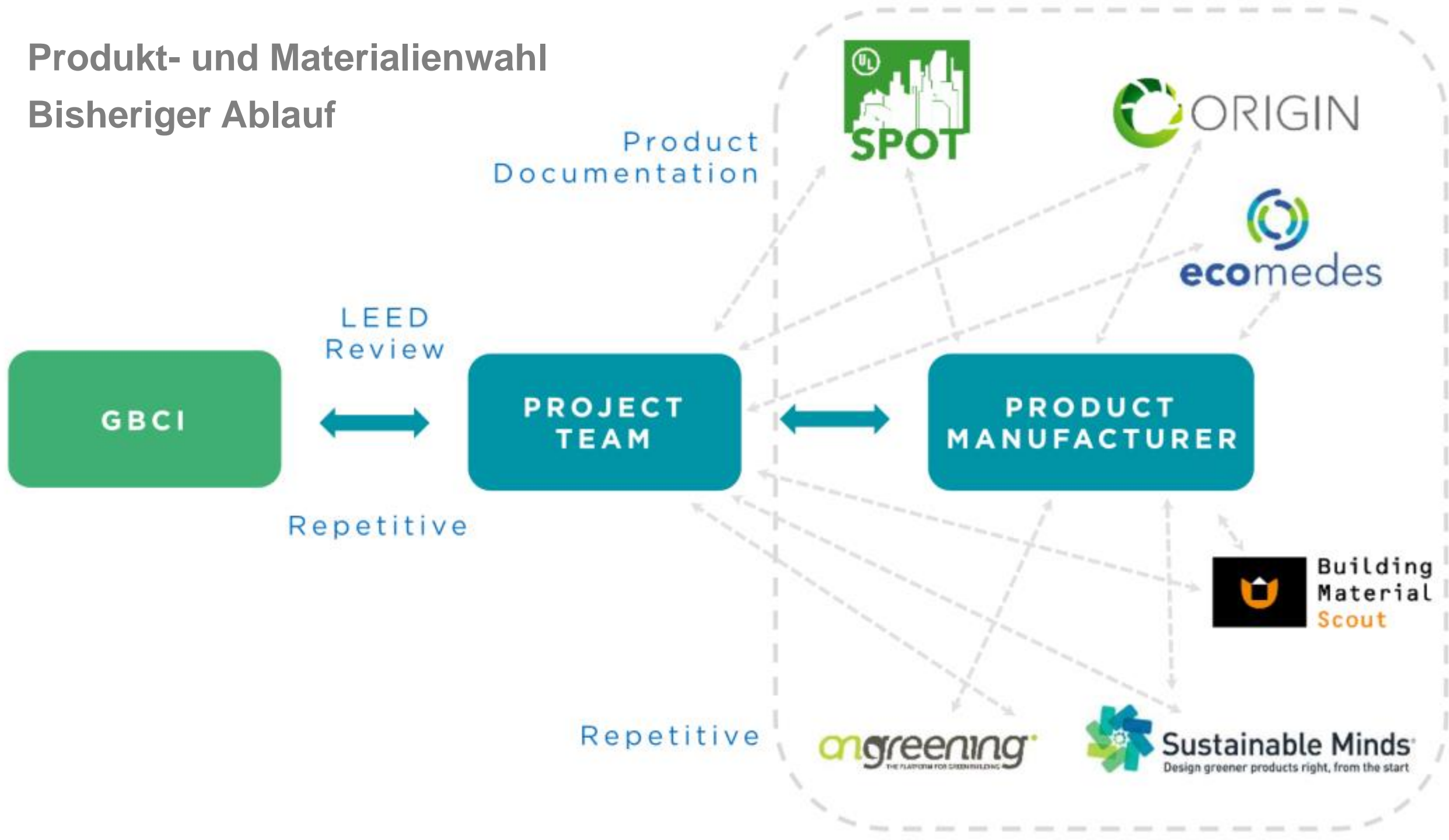
Credit	Total Number of Substitutions	Percentage of all v4.1 Credit Substitutions	% Increase over v4 credit usage
BPDO: Environmental Product Declaration	977	13%	200%+
BPDO: Sourcing of Raw Materials	669	9%	36%
BPDO: Material Ingredients	773	10%	200%+
Low Emitting Materials	866	12%	38%

*7,420 substitutions*

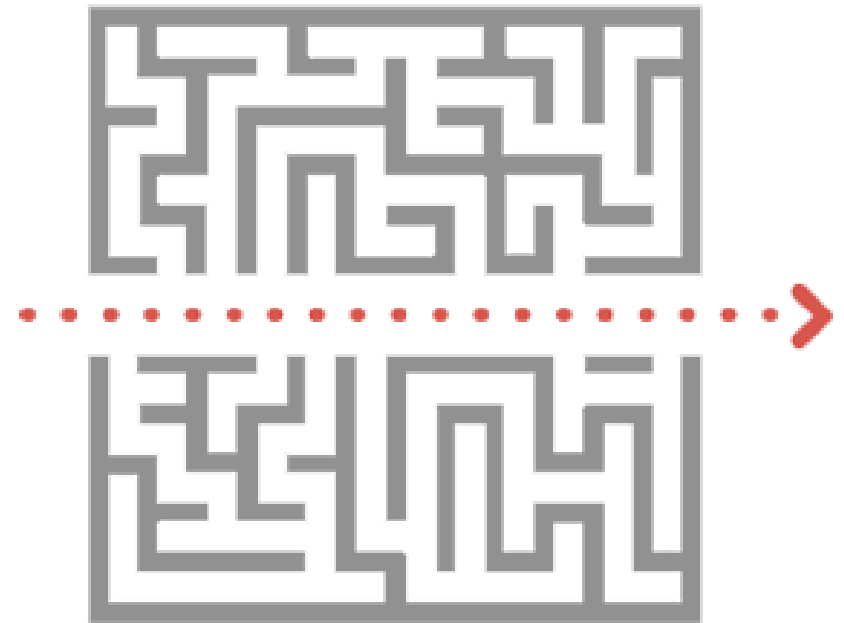


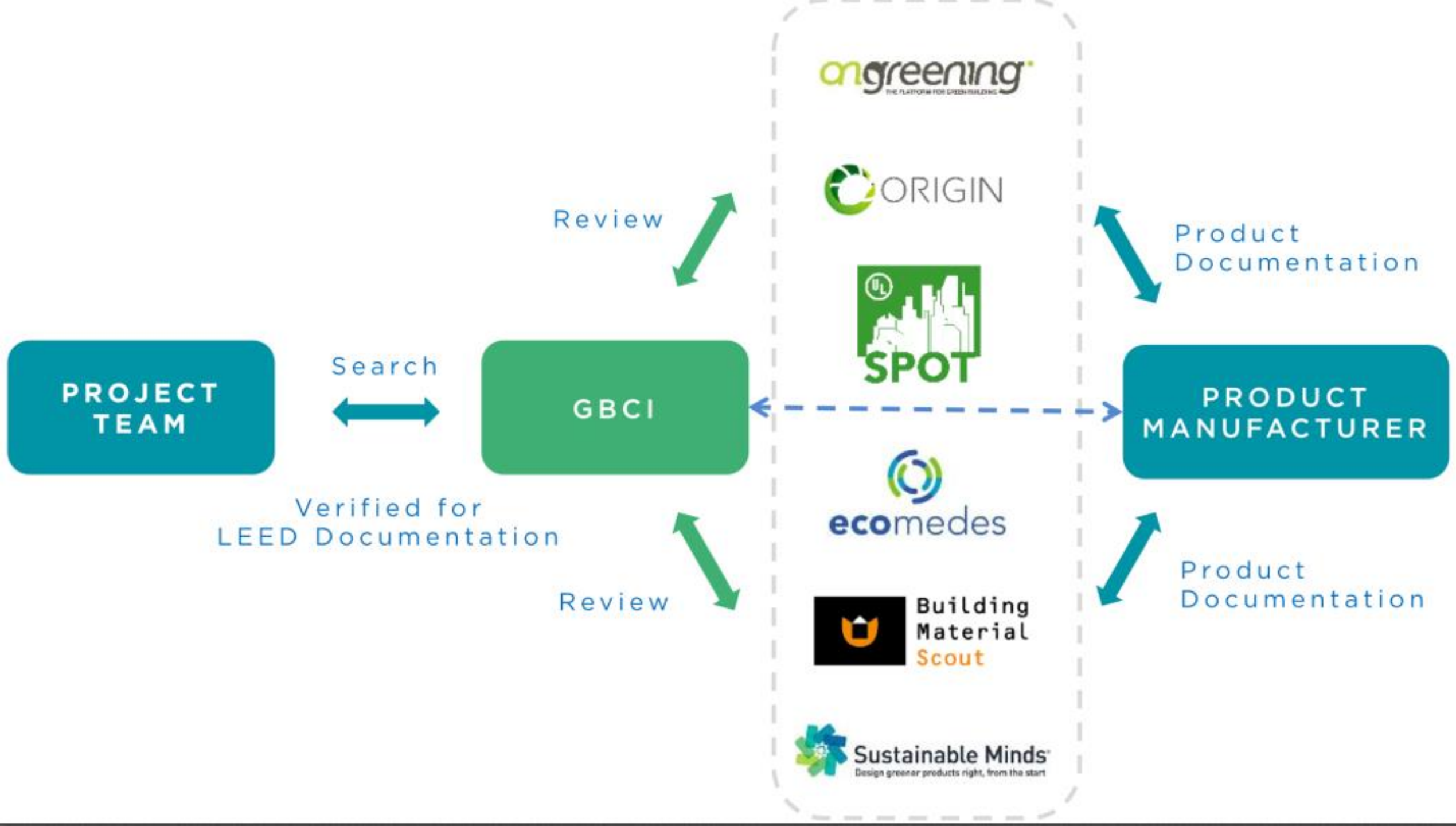
# Produkt- und Materialwahl

## Bisheriger Ablauf



WAS WÄRE WENN?







Und unterstützt folgende **LEED Credits!**

---

BPDO - Environmental Product Declarations

BPDO - Sourcing of raw materials

BPDO - Materials ingredients

Low-emitting materials

# ANNOUNCING

# BETTER MATERIALS

Unified Search

+

Verification for LEED  
Documentation



[bettermaterials.gbci.org](https://bettermaterials.gbci.org)

Verified for LEED Documentation  
**LEED SUMMARY SHEET**

Company name: Crossville, Inc.  
Product name: RetroActive 2.0  
Manufacturing Location: Crossville, Tennessee

Prepared on: 11/13/2019

**LEED v4.1: BD+C/ID+C**

<b>MR Credit: Building Product Disclosure and Optimization: Environmental Product Declarations</b>	<b>Option 1: Environmental Product Declaration</b>	<b>Option 2: Multi-Attribute Optimization</b>
Compliant	Yes	N/A
Credit Contribution	1.5	N/A
Expiration Date	5/1/2019	N/A
EPD ID	4788863727.101.1	N/A
Docverification ID	4224191112100CSV0002	N/A
<b>MR Credit: Building Product Disclosure and Optimization: Sourcing of Raw Materials</b>	<b>Responsible Sourcing of Raw Materials</b>	
Compliant		N/A
Credit Contribution		N/A
Pre Consumer / Post Consumer Recycled Content		N/A
Expiration Date		N/A
Raw Material Sourcing ID		N/A
Docverification ID		N/A
<b>MR Credit: Building Product Disclosure and Optimization: Material Ingredients</b>	<b>Option 1: Material Ingredient Reporting</b>	<b>Option 2: Material Ingredient Optimization</b>
Compliant	Yes	Yes
Credit Contribution	1.5	1.5
Expiration Date	5/1/2020	5/3/2021
Document Type	Declare Label	Living Product
Material Ingredient ID	CSV-1001	CSV-LP001
Docverification IDs	4224191112101CSV0001	4224191112105CSV0003
<b>EQ Credit: Low-Emitting Materials</b>		
Compliant		N/A
Credit Contribution		N/A
Expiration Date		N/A
Low Emitting Material ID		N/A
Docverification ID		N/A

[Reference Documentation](#)

[Product Specific EPD](#)

[Living Product Challenge Certification](#)

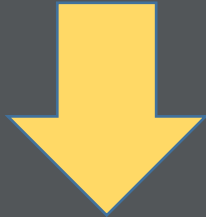
[Declare Label](#)



Verified for LEED Documentation  
LEED SUMMARY SHEET

Company name: Crossville, Inc.  
Product name: RetroActive 2.0  
Manufacturing Location: Crossville, Tennessee

Prepared on: 11/13/2019



LEED v4.1: BD+C/ID+C

MR Credit: Building Product Disclosure and Optimization: Environmental Product Declarations	Option 1: Environmental Product Declaration	Option 2: Multi-Attribute Optimization
Compliant	Yes	N/A
Credit Contribution	1.5	N/A
Expiration Date	5/1/2019	N/A
EPD ID	4788863727.101.1	N/A
Docverification ID	4224191112100CSV0002	N/A

MR Credit: Building Product Disclosure and Optimization: Sourcing of Raw Materials
Compliant
Credit Contribution
Pre-Consumer / Post-Consumer Recycled Content
Expiration Date
Raw Material Sourcing ID
Docverification ID

MR Credit: Building Product Disclosure and Optimization: Material Ingredients
Compliant
Credit Contribution
Expiration Date
Document Type
Material Ingredient ID
Docverification IDs

EQ Credit: Low-Emitting Materials
Compliant
Credit Contribution
Expiration Date
Low Emitting Material ID
Docverification ID

Credit Contribution	1.5	0.5
Expiration Date	11/13/2020	6/30/2022
EPD ID	EPD10070	EPDBAP-101
Docverification ID	4224200221100SWC0001	4224200221110SWC0001
MR Credit: Building Product Disclosure and Optimization: Sourcing of Raw Materials	Recycled Content	
Compliant	N/A	
Credit Contribution	N/A	N/A
Pre-Consumer / Post-Consumer Recycled Content	N/A	N/A
Expiration Date	N/A	
Raw Material Sourcing ID	N/A	
Docverification ID	N/A	
MR Credit: Building Product Disclosure and Optimization: Material Ingredients	Option 1: Material Ingredient Reporting	Option 2: Material Ingredient Optimization
Compliant	Yes	Yes
Credit Contribution	1.5	0.5
Expiration Date	8/1/2020	6/30/2022
Document Type	Product Lens	MI Action Plan
Material Ingredient ID	17612-4500	CHEMAP-101
Docverification IDs	4224200111104SWC0001	4224200111111SWC0001
EQ Credit: Low-Emitting Materials		
Compliant VOC Emissions Evaluation	Yes	

Reference Documentation:

- [Product Specific EPD](#)
- [Living Product Challenge Certification](#)
- [Declare Label](#)

# Material Ingredients

Fill in all columns with applicable material data for all attempted options. If the option is not attempted, leave the column blank.

General Information (from Materials tab)							Option 1 Material Ingredient Reporting	
Material Type or Category	CSI Div (optional)	Product Name	Description of Product	GBCI_ID	Manufacturer Name	Material Cost (\$)	Type of Reporting	
furniture		ACME chair	office seating	4224200306109ACM0004	ACME	\$ 10,000.00		
							Total number of products	

A photograph of a retail display for flooring materials. The display consists of numerous white rectangular cards, each featuring a different carpet or tile sample. The cards are arranged in rows and columns, creating a sense of depth. A prominent blue banner is overlaid across the center of the image, containing the text "BETTER MATERIALS, BETTER LIVES" in white, bold, sans-serif capital letters. The background is slightly blurred, emphasizing the foreground samples. Some visible text on the cards includes "PLATINUM SPONGE" on a red label, "CARPET TILE" in green, and "RUBBER FLOORING" in green. There is also some smaller text at the bottom of the cards, including "The Midwest Group", "The Carpet", "2019", and "2018".

**BETTER MATERIALS,  
BETTER LIVES**

# A unified search platform, integrating:





**Live & Online.**

**Aktuelles Bauwissen aus erster Hand.**