

Pad für **"Openness makes the world go round"** @HBKsaar SoSe2019. Mehr Infos hier

(<https://opencircularity.info/hbksaar-3>)



Das Pad nutzt Markdown-Syntax (<https://www.markdownguide.org/basic-syntax/>).

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**UPDATE:** Pad für neue Edits geschlossen. Neues allgemeines Pad hier.

(<https://hackmd.io/9vi701abS6iQNCrOu1rhZQ>)

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## 1. Termin, 16. April

Webseite hier. (<https://opencircularity.info/hbksaar-3/>)

## 2. Termin, 23. April

Webseite hier. (<https://opencircularity.info/hbksaar-3/>)

### Präsentationen

### Substitute or Avoid

Recherche-Ergebnisse by Mercedes Ruiz Gil

1. Coca Cola - Ice bottles (<https://www.behance.net/gallery/9172169/ICE-BOTTLE-COCA-COLA>)
2. Twenty (<http://mirjamdebruijn.com/twenty.html>) by Mirjam de Bruijn- Waterless products
3. Stasher (<https://www.stasherbag.com/>) - Reusable food storage bags - video  
(<https://www.youtube.com/watch?v=yGG5TncaCDw>)\*\*
4. Silicone baking mats
5. Lush - Toothpaste tabs and powder (<https://youtu.be/L11uHeJfwul>) (Recycled container, presumably refillable)
6. Thinx (<https://www.shethinx.com/>) - Period underwear
7. Mooncup (<https://www.mooncup.co.uk/>) - Menstrual Cup \*\*
8. Kindle ([https://www.amazon.com/Amazon-Kindle-Ereader-Family/b/?ie=UTF8&node=6669702011&ref\\_=sv\\_devicesubnav\\_4](https://www.amazon.com/Amazon-Kindle-Ereader-Family/b/?ie=UTF8&node=6669702011&ref_=sv_devicesubnav_4)) \*
9. LifeStraw (<https://www.lifestraw.com/products/lifestraw/>) – Water filter - video  
(<https://www.lifestraw.com/products/lifestraw/?variant=20538011910255>) \*
10. Unpaper towels ([https://www.etsy.com/es/listing/650017235/zero-waste-kitchen-towels-reusable-paper?ga\\_order=most\\_relevant&ga\\_search\\_type=all&ga\\_view\\_type=gallery&ga\\_search\\_query=unpaper+towels&ref=sr\\_gallery-1-3&organic\\_search\\_click=1&cns=1](https://www.etsy.com/es/listing/650017235/zero-waste-kitchen-towels-reusable-paper?ga_order=most_relevant&ga_search_type=all&ga_view_type=gallery&ga_search_query=unpaper+towels&ref=sr_gallery-1-3&organic_search_click=1&cns=1))
11. Safety razor ([https://duckduckgo.com/?q=safety+razor&atb=v165-3\\_p&iax=images&ia=images&iai=http%3A%2F%2Fwww.royalshave.com%2Fmedia%2Fcatalog%2Fproduct%2Fcache%2F1%2Fimage%2Fef5877fe84413a350ed5cebc316b1c2f%2Fh%2Fr%2Fhr\\_401-103-00\\_muhle-r89-safety-razor\\_1.jpg](https://duckduckgo.com/?q=safety+razor&atb=v165-3_p&iax=images&ia=images&iai=http%3A%2F%2Fwww.royalshave.com%2Fmedia%2Fcatalog%2Fproduct%2Fcache%2F1%2Fimage%2Fef5877fe84413a350ed5cebc316b1c2f%2Fh%2Fr%2Fhr_401-103-00_muhle-r89-safety-razor_1.jpg))

\*Note: device versions and accessories increase profitability for these business models but go against their "reducing quality".

\*\*Note: Copycat products may not have the same principles

## Questionable examples (Greenwashing):

### 12. Sierra Nevada (<https://sierranevada.com/about/sustainability/>) - "Zero waste" brewing

- 10,751 solar panels supply 20% of the brewery's electricity
- Their Chico, CA brewery is home to the first HotRot composting system in the U.S. and has turned more than 5,000 tons of organic waste into usable compost since 2010

#### **But**

- Sierra Nevada sends all of their used brewing ingredients (roughly 150,000 pounds of malted barley and 4,000 pounds of hops daily) to local cattle and dairy farms to be repurposed as feed.
- 20% of the brewery's electricity is the equivalent of powering 265 average American households for a year.

### 13. Subaru

- Roughly 96% of Subaru vehicle components can be recycled or reused.
- Subaru is not only committed to becoming a 100% zero waste company themselves, they also share their successful Zero waste methodology with other companies and organizations around the world, including the National Park Service.

### 14. Toyota



- 96% decrease in total non-regulated waste production, that equates to roughly 900 million pounds that would have been sent to landfill.
- Toyota currently has 27 North American facilities that meet the U.S. Zero Waste Building Council definition of a zero waste site (10 of the 27 facilities are manufacturing plants).

### 15. General Motors (GM)

- As of 2016, it has 152 zero waste facilities.
- Generated a reported \$1 billion by recycling 2 million metric tons of byproduct. This is reinvested into the development of fuel-efficient GM vehicles and new GM technologies.
- GM uses recycled water bottles from Flint, MI to make their engine cover insulation and some of their facilities air filters.
- GM has converted Chevrolet Bolt battery covers into wildlife habitat nest boxes.

**But** 13. 14. and 15. make fossil fuel-dependant transportation vehicles.

## Modularity

### 1. USM Haller USM Webseite (<https://www.usm.com/de-de/office/produkte/usm-haller-kollektion/usm-moebelbausystem-haller/>)

#### Montage-Werkzeug

(<https://image.jimcdn.com/app/cms/image/transf/none/path/sfb596b6985befc3f/image/i543d1f86e551072e/version/1410337537/image.jpg>) und Konnektoren

(<https://cdn02.plentymarkets.com/hltz3jszrmic/item/images/1003010899/full/Konnektor-Set-fuer-USM-Haller-12-1003010899.JPG>)

alternativer Hersteller(?) (<https://www.swissmobilia.com/>)

Wiederverkauf und Umkonfiguration (<https://shop.ks-bm.de/cat/index/sCategory/7?p=1>)



## 2. Gerüstsysteme

Layher (<http://www.layher-bautechnik.de/produktgruppe/allroundgeruest/>)

BüteC ([https://www.google.com/search?](https://www.google.com/search?q=b%C3%BCtec&source=Inms&tbm=isch&sa=X&ved=0ahUKEWjirrKR6eThAhVObFAKHXLLeB9IQ_AUIDygC&biw=1920&bih=977)

[q=b%C3%BCtec&source=Inms&tbm=isch&sa=X&ved=0ahUKEWjirrKR6eThAhVObFAKHXLLeB9IQ\\_AUIDygC&biw=1920&bih=977](https://www.google.com/search?biw=1920&bih=977&tbm=isch&sa=1&ei=Z0q-XLuJK8yJlwTXj7zYDQ&q=traversen+verbindung&oq=traversen+verbindung&gs_l=img.3..0i24.5066.7071..7325..0.0..0.107.668.10j1.....1....1..gws-wiz-img.....0j0i10.vtsrSh9u_JA))

Traversen ([https://www.google.com/search?biw=1920&bih=977&tbm=isch&sa=1&ei=Z0q-](https://www.google.com/search?biw=1920&bih=977&tbm=isch&sa=1&ei=Z0q-XLuJK8yJlwTXj7zYDQ&q=traversen+verbindung&oq=traversen+verbindung&gs_l=img.3..0i24.5066.7071..7325..0.0..0.107.668.10j1.....1....1..gws-wiz-img.....0j0i10.vtsrSh9u_JA)

[XLuJK8yJlwTXj7zYDQ&q=traversen+verbindung&oq=traversen+verbindung&gs\\_l=img.3..0i24.5066.7071..7325..0.0..0.107.668.10j1.....1....1..gws-wiz-img.....0j0i10.vtsrSh9u\\_JA](https://www.google.com/search?biw=1920&bih=977&tbm=isch&sa=1&ei=Z0q-XLuJK8yJlwTXj7zYDQ&q=traversen+verbindung&oq=traversen+verbindung&gs_l=img.3..0i24.5066.7071..7325..0.0..0.107.668.10j1.....1....1..gws-wiz-img.....0j0i10.vtsrSh9u_JA))

## 3. Profilsysteme

Minitec (<https://www.minitec.de/produkte/profilsystem>)

Rose + Krieger (<https://www.rk-rose-krieger.com/deutsch/produkte/profil-technik-blocanr/>)

Bosch Rexroth

(<https://www.boschrexroth.com/de/de/produkte/produktgruppen/montagetchnik/themen/aluminiumprofile-loesungen-und-komponenten/aluminiumprofile-produkte/index>)

mk group (<https://www.mk-group.com/produkte/profiltechnik/profilsystem.html>)

## 4. modulares Smartphone

Project Ara (<https://www.dezeen.com/2016/09/02/google-shelves-modular-project-ara-smartphone/>)

weiterführendes Konzept von Seymourpowell

(<https://www.dezeen.com/2016/06/08/seymourpowell-google-project-ara-move-wear-link-play-gadget-module-concepts-fairphone/>)

Phonebloks (<https://www.dezeen.com/2013/10/19/phonebloks-mobile-phone-concept-by-dave-hakkens/>)

Fairphone 2 (<https://www.fairphone.com/en/2019/04/16/refurbished-phones-give-valuable-resources-a-new-life/>)

## 5. modulares Haus

wiki House (<https://youtu.be/4fB3SFgKPog?t=88>)

vivi House (<https://www.vivihouse.cc/>)

Nakagin Capsule Tower ([https://en.wikipedia.org/wiki/Nakagin\\_Capsule\\_Tower](https://en.wikipedia.org/wiki/Nakagin_Capsule_Tower))

## 6. modulare Software

grasshopper (<https://www.youtube.com/watch?v=8TFrz2eWyB0>)

## 7. modulare Hardware

Arduino (<https://www.arduino.cc/>)

rasperry Pi (<https://www.raspberrypi.org/>)

banana pi (<http://www.banana-pi.org/>)

em Brick (<https://www.embrick.de/>)

## 8. Systemkameras und Zubehör

([https://d1rxhvrctciqq1.cloudfront.net/images/listing\\_images/images/110363/big/891687-fc7158-img\\_9452-edit.jpg?1501899783](https://d1rxhvrctciqq1.cloudfront.net/images/listing_images/images/110363/big/891687-fc7158-img_9452-edit.jpg?1501899783))

Body (<https://www.imaging-resource.com/PRODS/sony-a7-ii/Z-sony-a7-ii-beauty.JPG>)

Cage (<https://www.smallrig.com.de/collections/sony-a7ii-a7sii-a7rii-1>)

## 9. modulare Schrank-/Regalsysteme

Regalsystem 606 (<https://www.vitsoe.com/de/606/grundstruktur>)

plus unit (<https://www.aisslinger.de/plus-unit/>)

rgb for gugard (<https://www.diezoffice.com/stories/rgb-for-burgbad/>)

## 10. Lichtsysteme

Nanoleaf Aurora (<https://3xx6fhzwrpy48c6s3zfs4e6p.wpengine.netdna-ssl.com/wp-content/uploads/2017/03/customer-edit-2-2.jpg>)

Phillips Hue (<https://www2.meethue.com/de-de/how-it-works>)

# Structural Support for Biosphere

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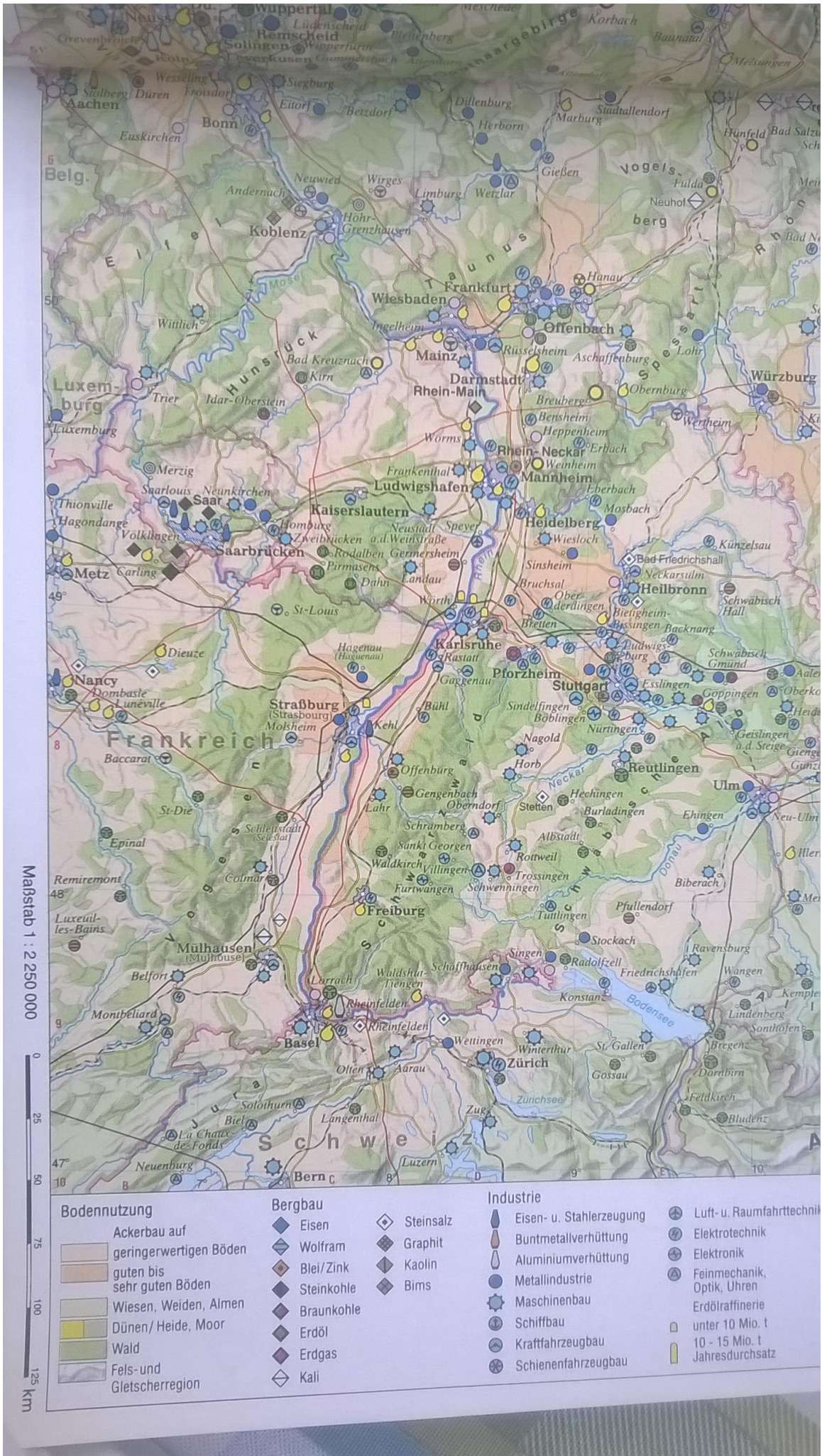
Präsentation (<https://bit.ly/2GAJeUE>)

## Local Materials

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Recherche Leonie Dörrenbecher

## Saarland Wirtschaftlich



Quelle: Diercke Weltatlas

**Notiz:**

- Überwiegend Steinkohle, Eisen- und Stahlerzeugung bis zur Stahlkrise
- Strukturwandel seit 1986 Roheisen (im SL) nur noch in Dillingen, Stahl ausschließlich in Dillingen und Völklingen produziert
- Bundestag beschloss den Ausstieg aus der Steinkohleförderung zum Jahr 2018, 2012 wurde der Steinkohlebergbau in SL endgültig eingestellt
- Nachfolgeindustrien besonders im Kraftfahrzeugbau (Automobil- und Zuliefererindustrie)
- Entstehung neuer Dienstleistungsbereiche, wie Informations- und Kommunikationstechnologie

**Beispiele Regionaler Produkte/Geschäftsmodelle**

1. Vollkorn Backhaus Olk (<https://www.innovationspark.com/olk/>) produziert regional, verarbeitet regionales Getreide
2. Becher Held Mehrweg to go (<https://www.saarland.de/becherheld.htm>) sichert 10ct Rabatt und mindert den anfallenden Müll im Saarland
3. Piranja Cola (<https://piranja-cola.de/start.html>) produziert regional
4. Work and Wear Schaffkläder (<https://www.work-and-wear.de/>) vertreibt in Europa produzierte, fair gehandelte Arbeitskleidung
5. S REPAIR (<https://www.s-repair.de/index.php/de/>) repariert Handys & Co (wenn möglich) mit gebrauchten Teilen
6. Sonjas Scheune (<http://sonjas-scheune.de/>) restauriert und verkauft alte Möbel, Küchengeräte usw.
7. Schnickschnack (<https://www.dein-schnickschnack.de/>) Dauerflohmarkt
8. Ute Wons Pappmaché-Möbel (<http://www.pappmachemoebel.de/>) regionale Produktion mit Abfallmaterial
9. Frese Glasgestaltung (<https://www.glasmalerei-frese.de/5.html>) regionale Produktion
10. SDG Bierdeckel Saarland (<http://www.nes-web.de/17ziele/>) Kampagne von engagement-global, bmz und nes
11. Saar-Lor-Deluxe (<https://www.saar-lor-deluxe.com/>) think global buy lokal

## 12. Rollholz

