

Open Food Data

Welcome to the Open Food Hackdays

10/11 February 2017

Supported by

ENGAGEMENT

EIN FÖRDERFONDS DER MIGROS-GRUPPE

Open Food Hackdays

Opening & Challenges | Teambuilding | Hack | Project Pitch

09.30	Welcoming – Hannes Gassert, Opendata.ch
09.35	Welcoming ZHdK – Karmen Franinovic, ZHdK
09.40	Introduction to Opendata.ch – Hannes Gassert, Opendata.ch
10.00	Introduction Openfood.ch – Sean Carrol
10.10	Challenge Kosher-Food – Bertin Günzburger
10.15	Presentation Trustbox/GS1 – Domenic Schneider, GS1/Trustbox
10.20	Presentation – Benjamin Wiederkehr, Interactive Things
10.25	Challenge Migros – Andreas Hess, Migros Business Intelligence
10.30	Challenge Eaternity – Aurelian Jaggi, Eaternity
10.35	Challenge SKS – André Golliez, i.V. Schweizerischer Konsumenten Schutz
10.40	Challenge Codecheck – Roman Bleichenbacher, Codecheck
10.45	Challenge Elsa – Adrian Boller, Elsa Mifroma
10.50	Challenge – Ferdinand Vogler, Designer

Open Food Hackdays

Opening & Challenges | **Teambuilding** | Hack | Project Pitch

Maximum 8 persons per team

- Assembly around the **Lecture Hall**
- **Find your team**
- Distribute to a workspace at the **Hack area**

Open Food Hackdays

Opening & Challenges | Teambuilding | **Hack** | Project Pitch

Project Deadline – Saturday 13.00

- Project documented on **hack.opendata.ch**
- **Presentation Slide** sent to muriel.staub@opendata.ch
- **Keep moving** until the presentations at 3pm

Open Food Hackdays

Opening & Challenges | Teambuilding | Hack | **Project Pitch**

Project Pitches – Saturday 15.00

- Every team has **90 seconds** to pitch their project
- **1 Slide** per team

Slack Channel

All official communication is going to happen at the Food.Opendata Slack Channel

- You should have received the sign-up **link in a mail yesterday evening**
- **Please join the** #openfoodhack-official channel



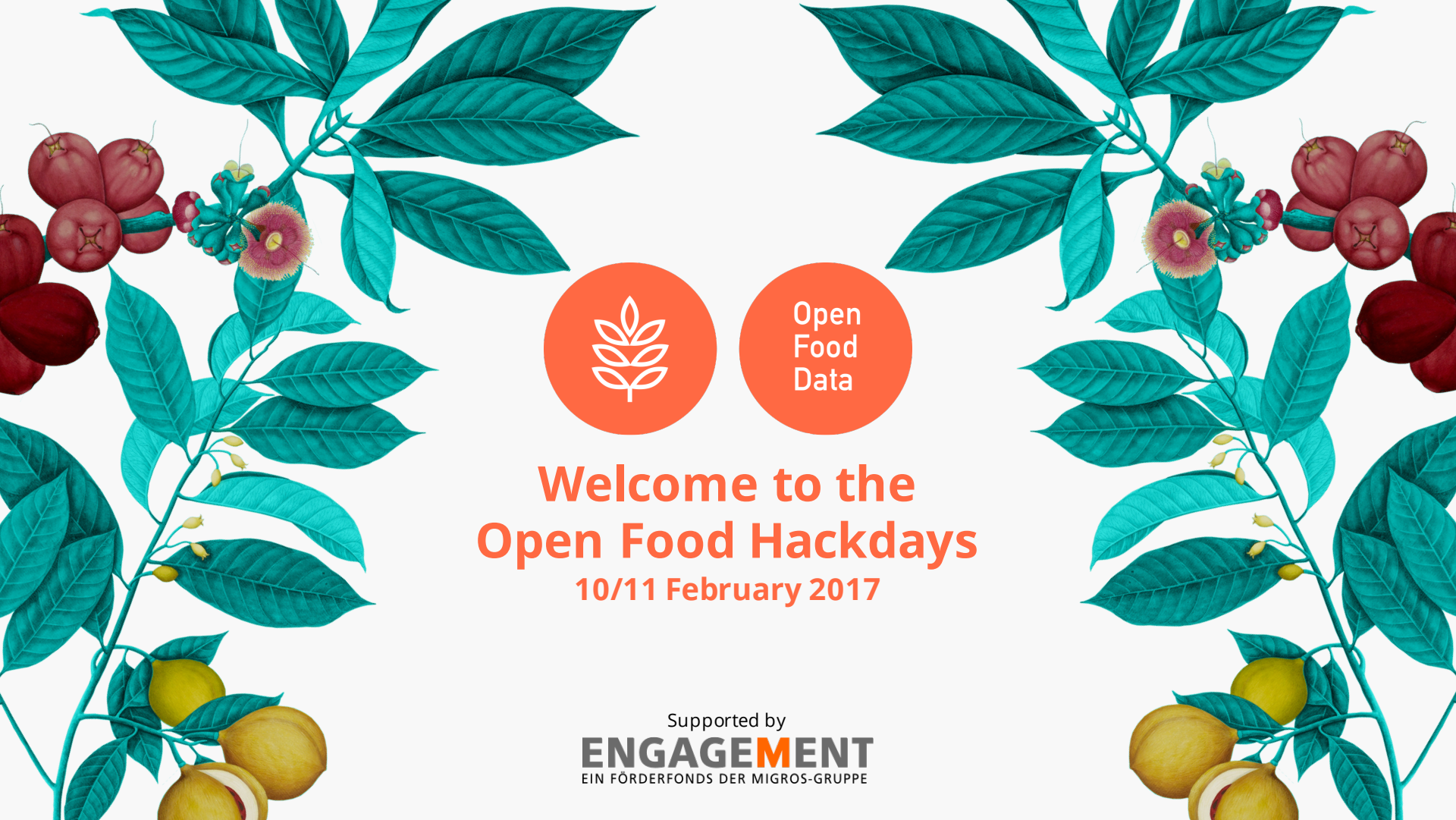


Social Media

Check out what is happening in Zurich. Our Hashtag is #openfood

Tonight at 19.00 we are having an exchange through Skype with Lausanne

- Follow us on Twitter: @opendataCH
- Follow us on Facebook: /Opendatach



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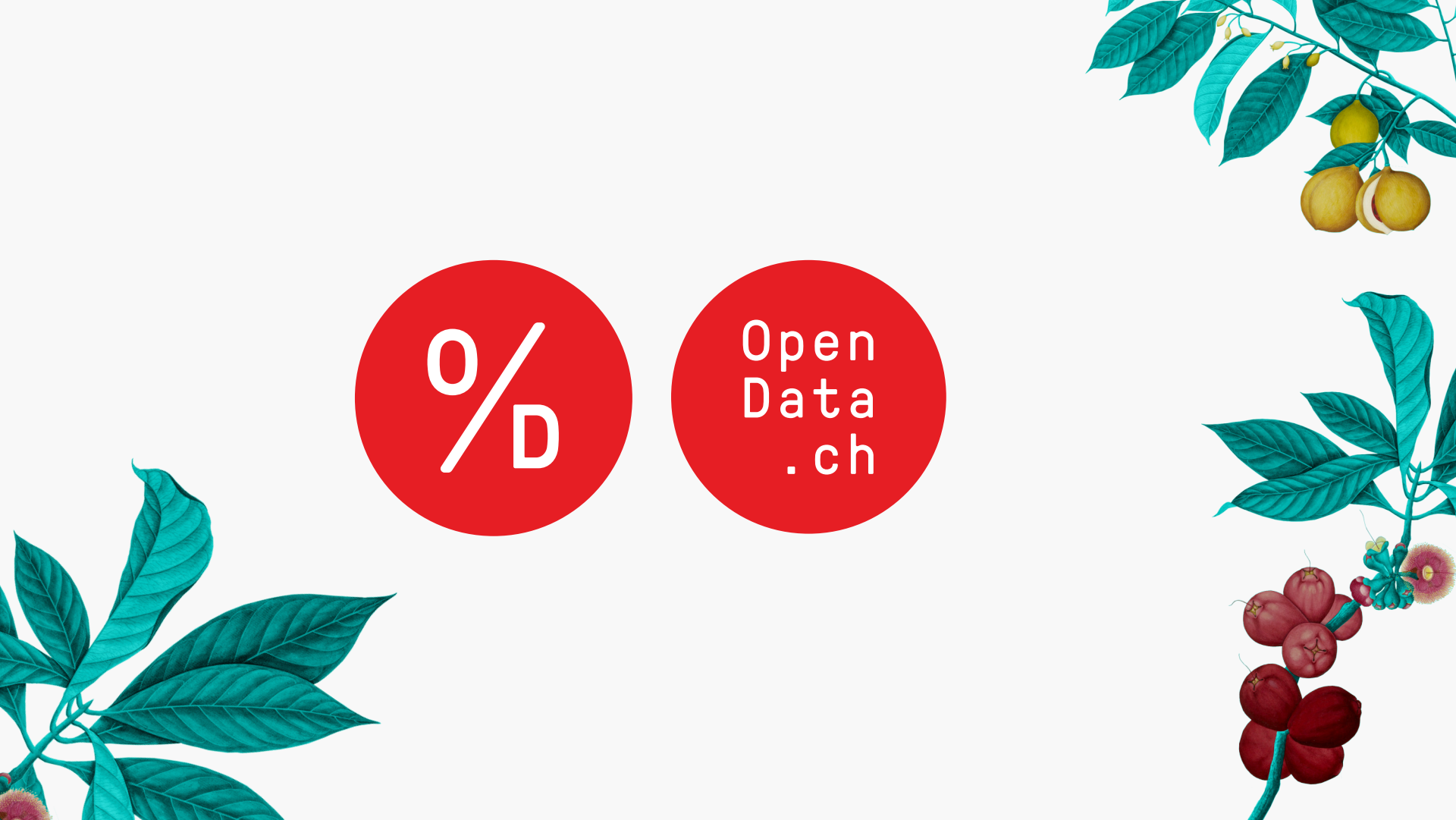
ENGAGEMENT

EIN FÖRDERFONDS DER MIGROS-GRUPPE

WHAT!






OD
Open
Data
.ch

MOVEMENT







MOVEMENT COMMUNITY







MOVEMENT
COMMUNITY
ENABLER







WHAT OPEN!



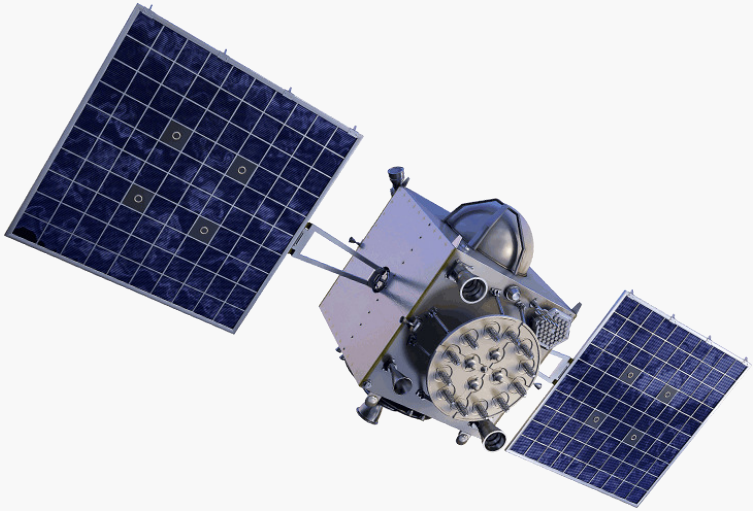
“Open data and content can be freely used, modified, and shared by anyone for any purpose”

http://opendefinition.org



WHAT BUSINESS INNOVATION







Business Innovation
food.opendata.ch
2017-2019

WHAT MONEY!




Open
Food
Data
> 100K per year
for open food
data projects

ENGAGEMENT

A DEVELOPMENT FUND OF THE MIGROS GROUP

ÉCOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE

hdk Zürcher Hochschule der Künste

ECOLE HOTELIERE LAUSANNE Since 1893 A MEMBER OF EHL GROUP

id est avocats

LAUX LAWYERS AG ZURICH | BASEL



“The enemy is not the team next to you. The deadline is the enemy.”

WHAT NOW?



Sean Carroll

Openfood.ch

@openfood_ch (E)
@openfood_ch_d (D)
@openfood_ch_f (F)



Marcel Salathé
@marcelsalathe

Food

- is a major source of health or disease
- is a major economic driver
- CH houshold spends over 1000 CHF / month
- is a major source of pleasure
- is something we do multiple times, every day

One of the largest industries in the world,
enormous potential for new models.

Information about food

In the 20th century, data lived mainly on paper. For food products, that meant all the information about a product was on the package.

Then, the internet & the mobile revolution came along, and everything changed - **except** how we get information about our food.

openfood.ch wants to make food information in CH open.

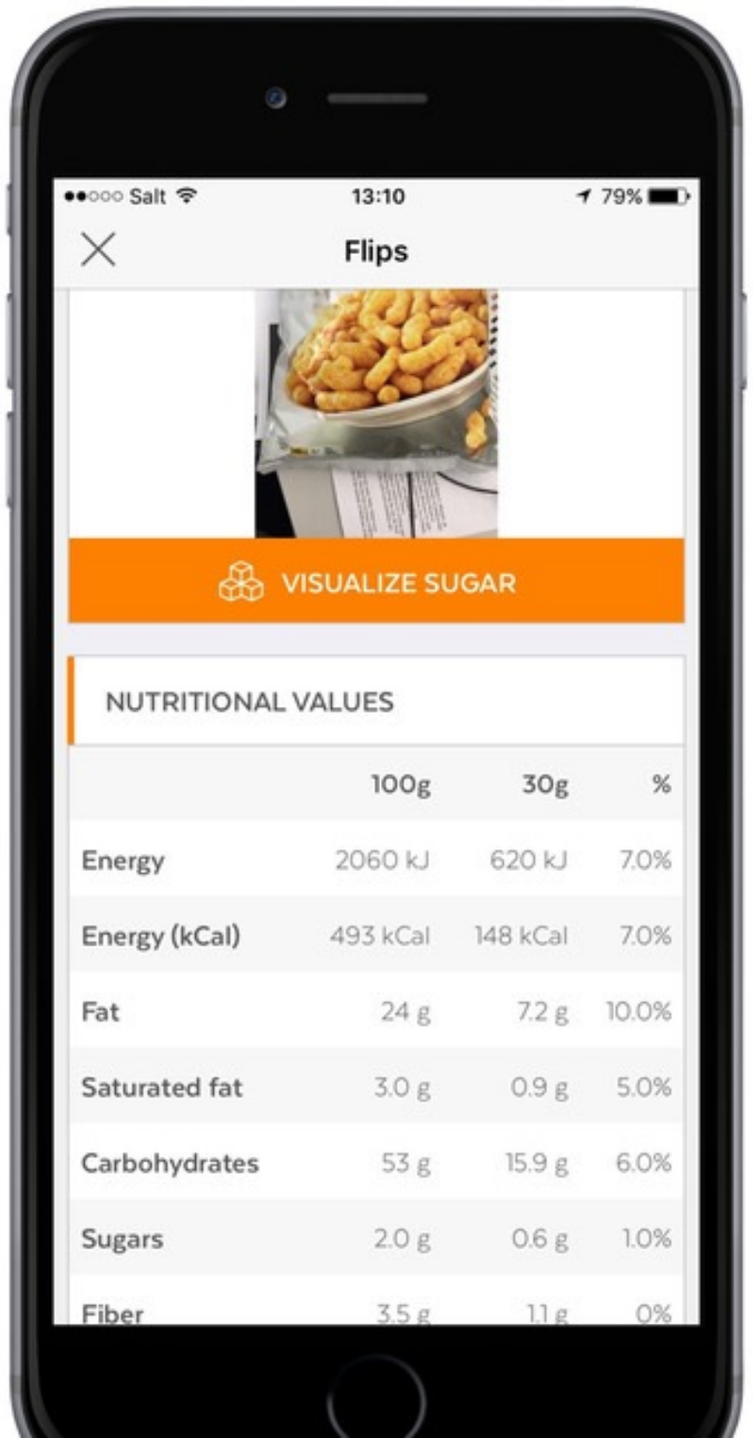
Old…



- on package
- barely readable
- limited information
- cannot be queried or reused

DEAD DATA

New...



- in the cloud
- digital
- extensible
- can be queried and reused
- accessible via API

OPEN DATA

Attention:

openfood.ch is primarily an **open database accessible by an API**. Great for app developers!

Our own mobile app (openfood) is **just a demo**.

OpenFood is about the data.
You build the apps!

Status quo Feb 2017:

~ 15,000 products in database, almost all fully transcribed:

- Name*
- Size
- Ingredients*
- Nutrients table
- Country of origin

> 5,000 submitted by users, addition in progress

* multi language as on package

What we are still missing

Info that is on package, but not in DB:

- organic? vegan? other labels?
- Country of origin for some ingredients
- Allergens (“May contain…”)

We are also missing fresh, packaged prodcuts by weight (such as fresh meat, cheeses, etc.)

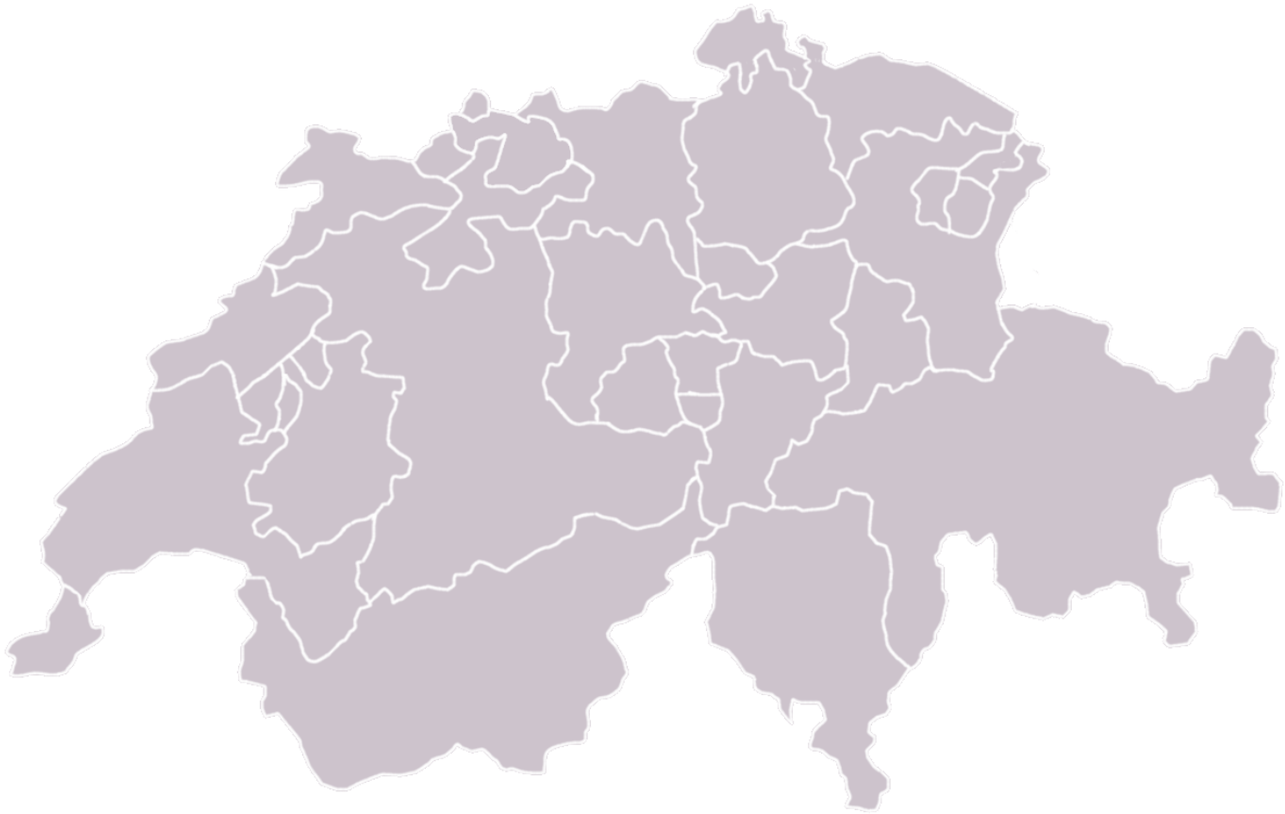
HELP ;-)

Why .ch?

We live here ;-)

Focus, focus, focus: we want to reach 100% coverage of CH.

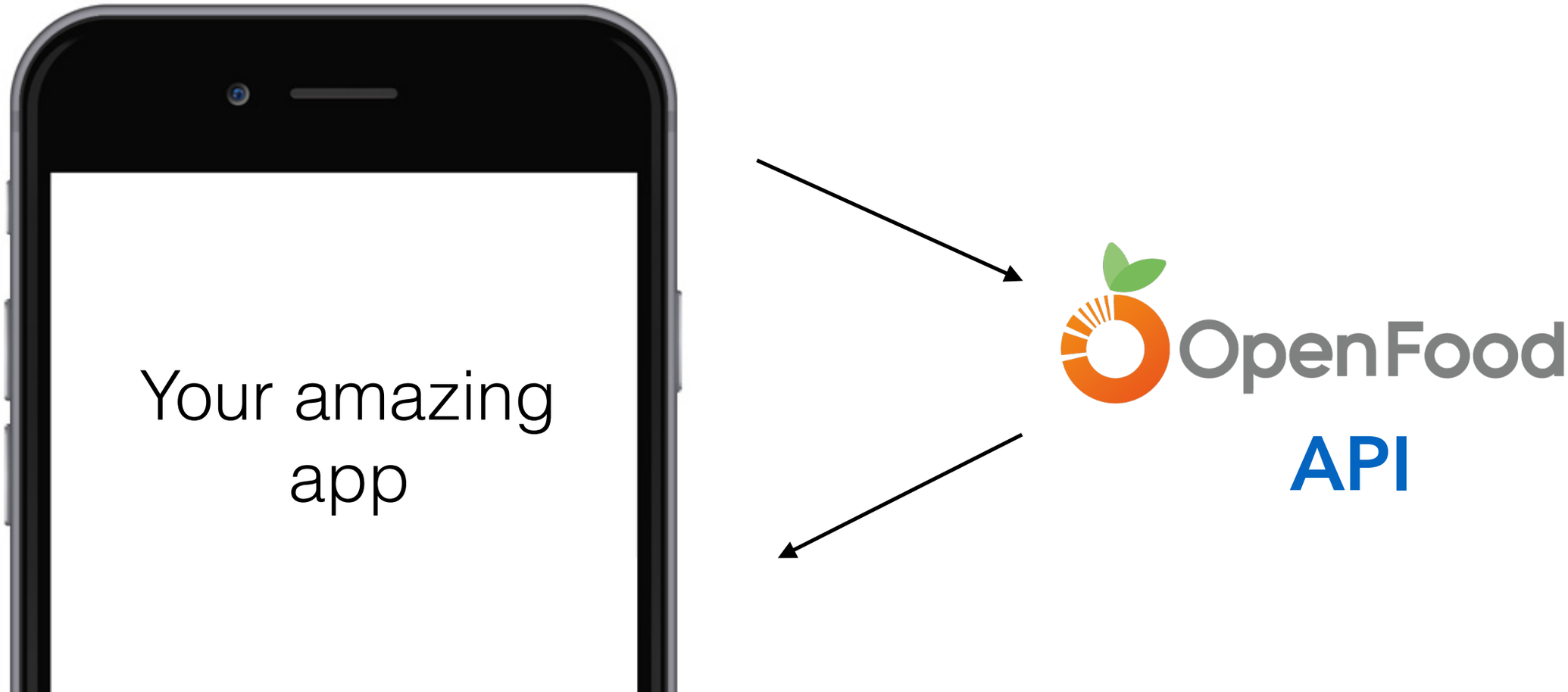
Expansions / collaboration possible in the future.



API

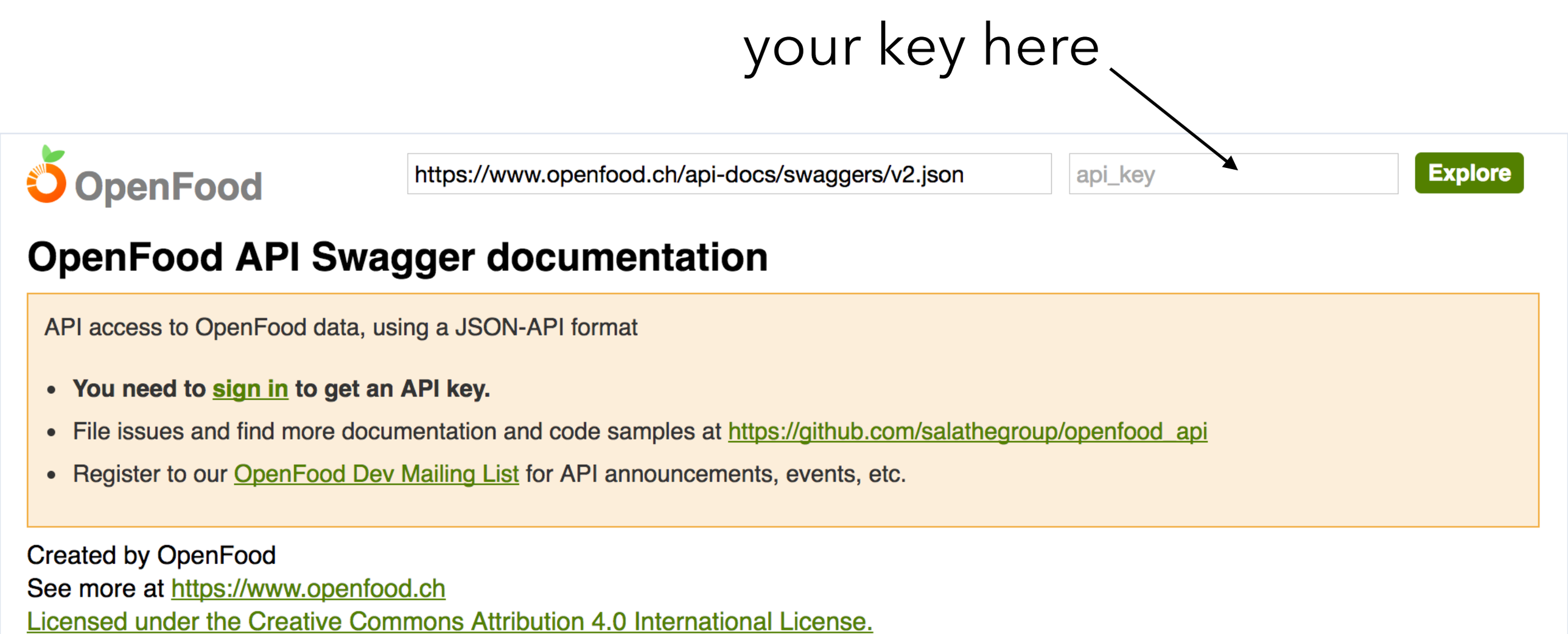
API

This is perhaps the most important point about **openfood.ch**. The data is available through an API.



API

Use your key(s) to access the API. See Documentation for examples.



API

OpenFood https://www.openfood.ch/api-docs/swaggers/v2.json api_key Explore

OpenFood API Swagger documentation

API access to OpenFood data, using a JSON-API format

- **You need to sign in to get an API key.**
- File issues and find more documentation and code samples at https://github.com/salathegroup/openfood_api
- Register to our OpenFood Dev Mailing List for API announcements, events, etc.

Created by OpenFood
See more at https://www.openfood.ch
Licensed under the Creative Commons Attribution 4.0 International License.

default

Show/Hide | List Operations | Expand Operations

GET	/products/{id}
GET	/products
POST	/products/_search
GET	/nutrients
GET	/nutrients/{id}
POST	/nutrients/_search

API

GET /products

Implementation Notes

All products in the OpenFood database in JSON-API format.

Parameters

Parameter	Value	Description	Parameter Type	Data Type
include	Provide multiple values in new lines.	Include the Images and / or Nutrients in the returned JSON. Use "images" for Images and "nutrients" for Nutrients.	query	Array[string]
barcodes	7610848493136 8410076490131	Array of barcodes to search by, using boolean OR for multiple values.	query	Array[integer]
page		Paging for the result set. Default products per page is 20.	query	string

Try it out! Hide Response

API - how to get help

Slack: self-invite at openfoodch.herokuapp.com

Issues, bugs, feature requests: GitHub
github.com/salathegroup/openfood_api

Sign up to our DEV newsletter

Example Code

Example code for various languages may be found in this repo. Replace [API Key] with your own key where necessary. We currently support examples for

- Curl
- JavaScript
- Python
- Ruby
- Android

31 lines (23 sloc) | 785 Bytes | Raw | Blame | History

```python
"""
Sample Python 2.7 code for a call against the OpenFood API products listing, with paging
Replace [API_KEY] with your API Key
curl -i -g -H "Accept: application/vnd.api+json" -H 'Content-Type:application/vnd.api+json' -X GET  "https://www.openfood.ch/api/v

USAGE:
$ python openfood_api.py
"""

import requests

BASE_URL='https://www.openfood.ch/api/v2'
API_KEY='secret'

url = BASE_URL + '/products'

query = {
  "page[number]": "2",
  "size[size]": "5"
}

headers = {
  'Authorization': "Token token={}".format(API_KEY),
  'Accept': 'application/vnd.api+json',
  'Content-Type': 'application/vnd.api+json'
}

r = requests.get(url, params=query, headers=headers)
print r.status_code
print r.json()
```

First openfood.ch Dev meetup:



Meet with openfood.ch devs, discuss issues, peer code, etc.

Sign up to Dev Newsletter for more

API

OpenFood in the future

We are currently building **many** more crowdsourcing functionalities.

We'd love to see more data - data that is not on the package (e.g. data on ecological foodprint, DNA data, etc.)

We're open to your ideas! But openfood.ch will remain neutral (i.e. no recommendations - build your own app if you want to do that)

OpenFood in the future

We are currently building a second API: Image recognition.



“Pizza”
est. weight: 340g
est. calories: 890
est. carbs: 180g
est. fat: 20g
est. protein: 24g

OpenFood in the future

Any food image submitted to it will be open data (unless user opts out).

Goal: to build very large open food image data base -> great for machine learning / AI.

Interested / have expertise in image recognition? Please talk to us!

One more thing: be careful.

This is about **open** data. Caveat emptor! If you start building a project / app / business around 3rd party data, **make sure you check the license!**

Can you:

- use it for ANY purpose (e.g. commerical)?
- can you use it for unlimited periods of time?
- can you keep the data for yourself?

OpenFood: YES to all questions

Ergo, use openfood.ch data if:

- you want to focus on CH
- you want very broad coverage
- **need extremely permissible license**
- **need a high performance API**
- you want neutral data

Bertin Günzburger



Domenic Schneider

GS1/Trustbox

GS1 Switzerland

The Global Language of Business

trustbox of GS1 Switzerland

GS1 Source

Domenic Schneider
Senior Business Development Manager, GS1 Switzerland



trustbox
Reliable data powered by GS1

Do you know who we are?

Five billion search queries per day



Search & Find

Seven Billion Scans every day



The global Language of Business

Identification with GS1



- Global Standard Organisation in 112 Countries
- Identification of Goods, Locations, People, Service Relations etc.
- **E**lectronic **D**ata **I**nterchange
- Bringing together different players
- Not only Google, Amazon and AliBaba need GTIN's
- GS1 standards help you single out what really matters

Why safe, actual and complete master Data are so important



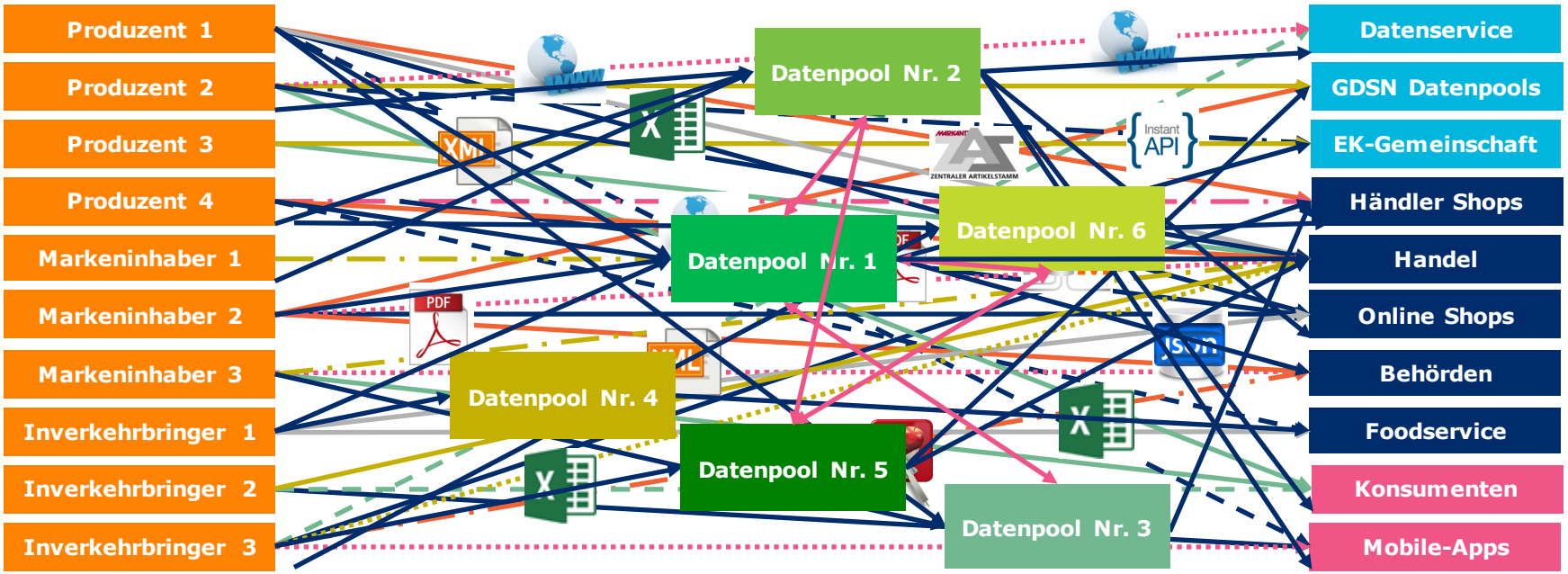


Consumers trust in valid and correct product information

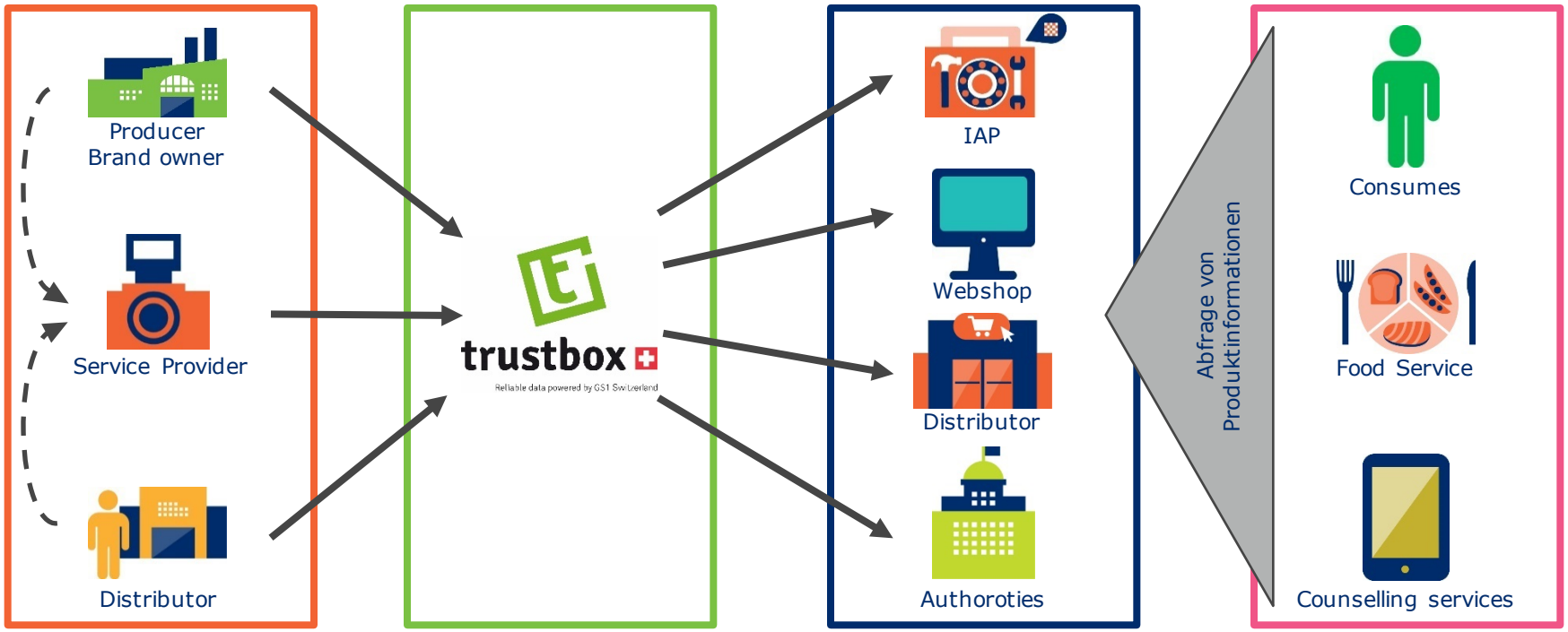
- Consumers want easy and convenient access to **trusted** product information.
- Information from **neutral sources** felt as credible as the same of industry and trade.
- To close the gap in trust, companies need a **common** and **neutral** infrastructure for **reliable** dialogue with consumers.
- This neutral platform must provide current, controlled and authenticated data from **secure data sources**.
- With useful tools and applications, information's must be found **consumer-friendly and truthful**.



Master Data Exchange 2016



Standardised Master Data Exchange with trustbox



GS1 Switzerland notes:

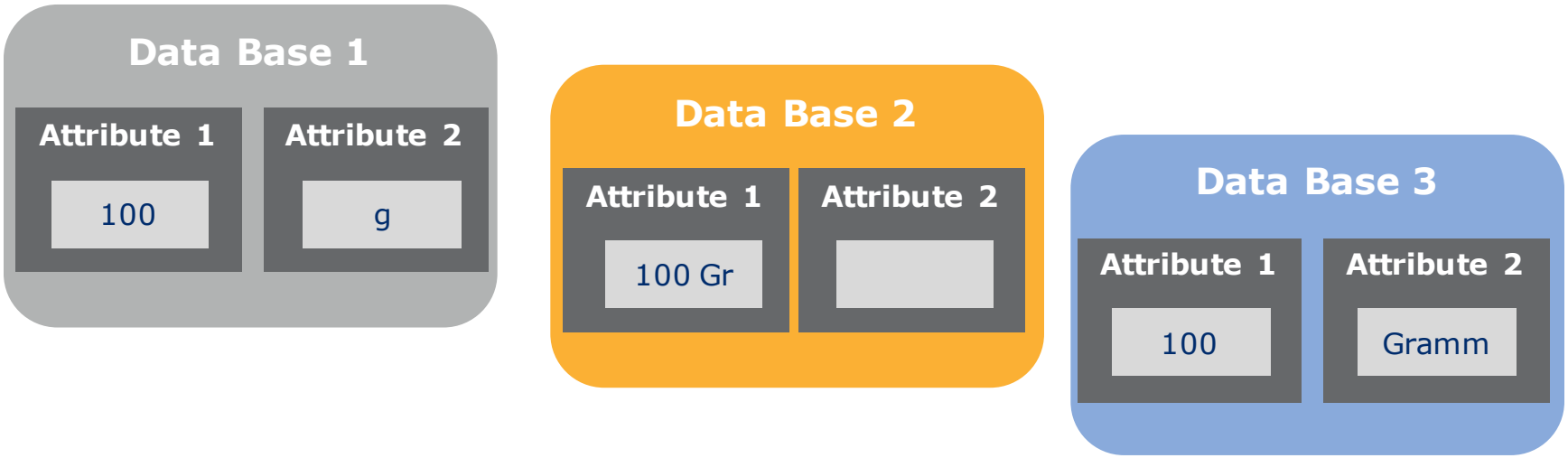


- With trustbox it is possible to exchange by law required, consumer-relevant product information - trustworthy, current and complete.
- trustbox depends mainly on the needs of e-commerce, the labeling of products in online stores, food service, Mobile App's and the information needs of consumers.
- trustbox helps to convince businesses of all sizes that the digitization of master data and ultimately the master data exchange with partners is beneficial for all.

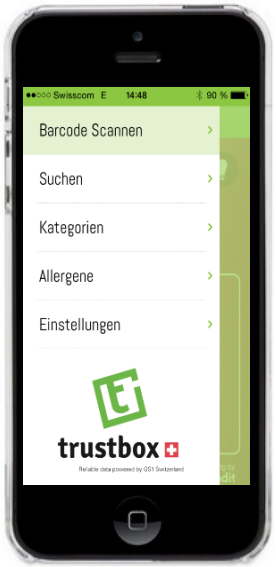
Master Data Exchange
Do not forget!

The devil often hides in detail

100 Gramm ≠ 100 Gramm



The information App already exists…



- Bilingual
- Free of costs
- Allergies can be stored.

If relevant allergens contained in the product, a warning message is displayed.



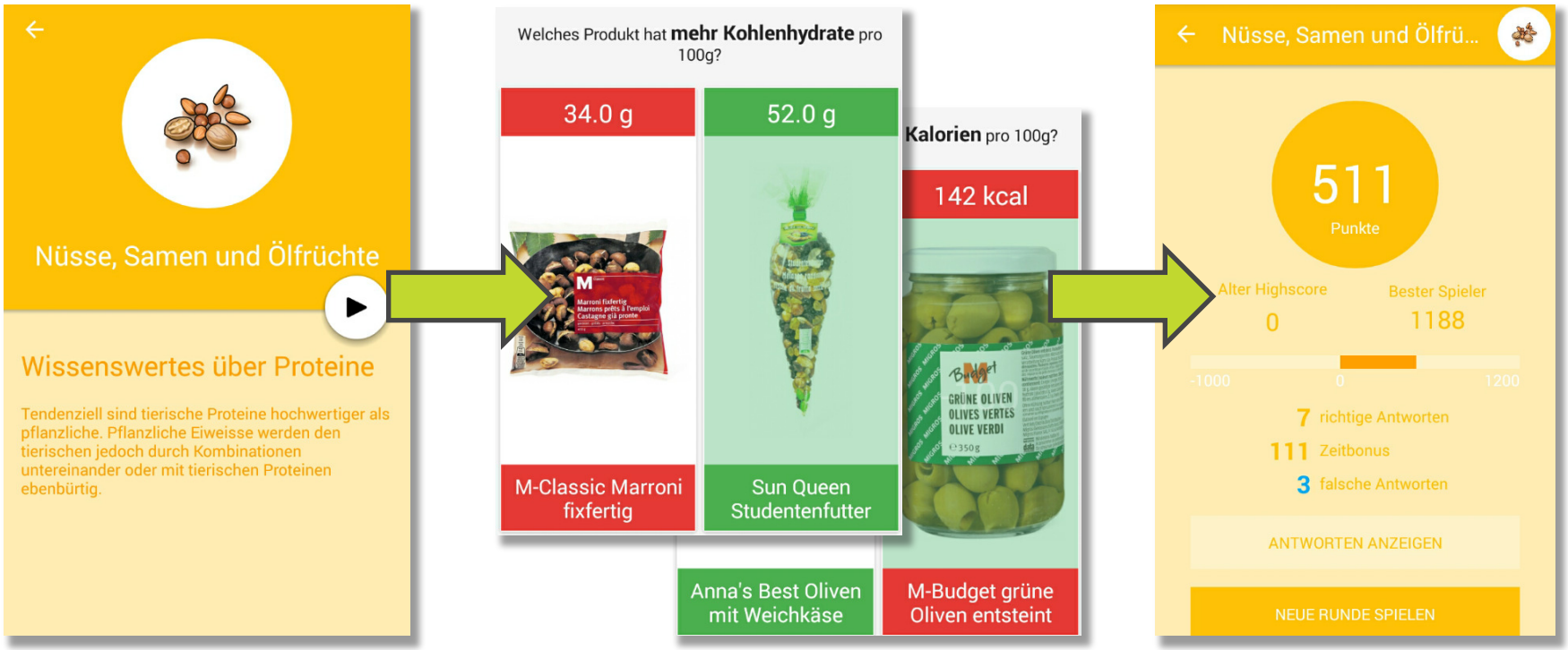


Informationen zu…
- Nutriton
- Ingredients
- Storage etc.

- All allergens present are displayed.
- Deposited allergens are marked in color.



Learning-Game out of a Hackathon **Swiss FoodQuiz** GS1 brings together «Hacker» and Government



You will get…



… a free access to trusted data, directly from the source

… Product Information of about 6’000 Products

… the chance to use the interface for further development after this hackathon

… the opportunity to become a part of the large, worldwide GS1 Network

Thank you for your attention



Domenic Schneider

Senior Business Development Manager
GS1 System

Monbijoustrasse 68
3007 Bern

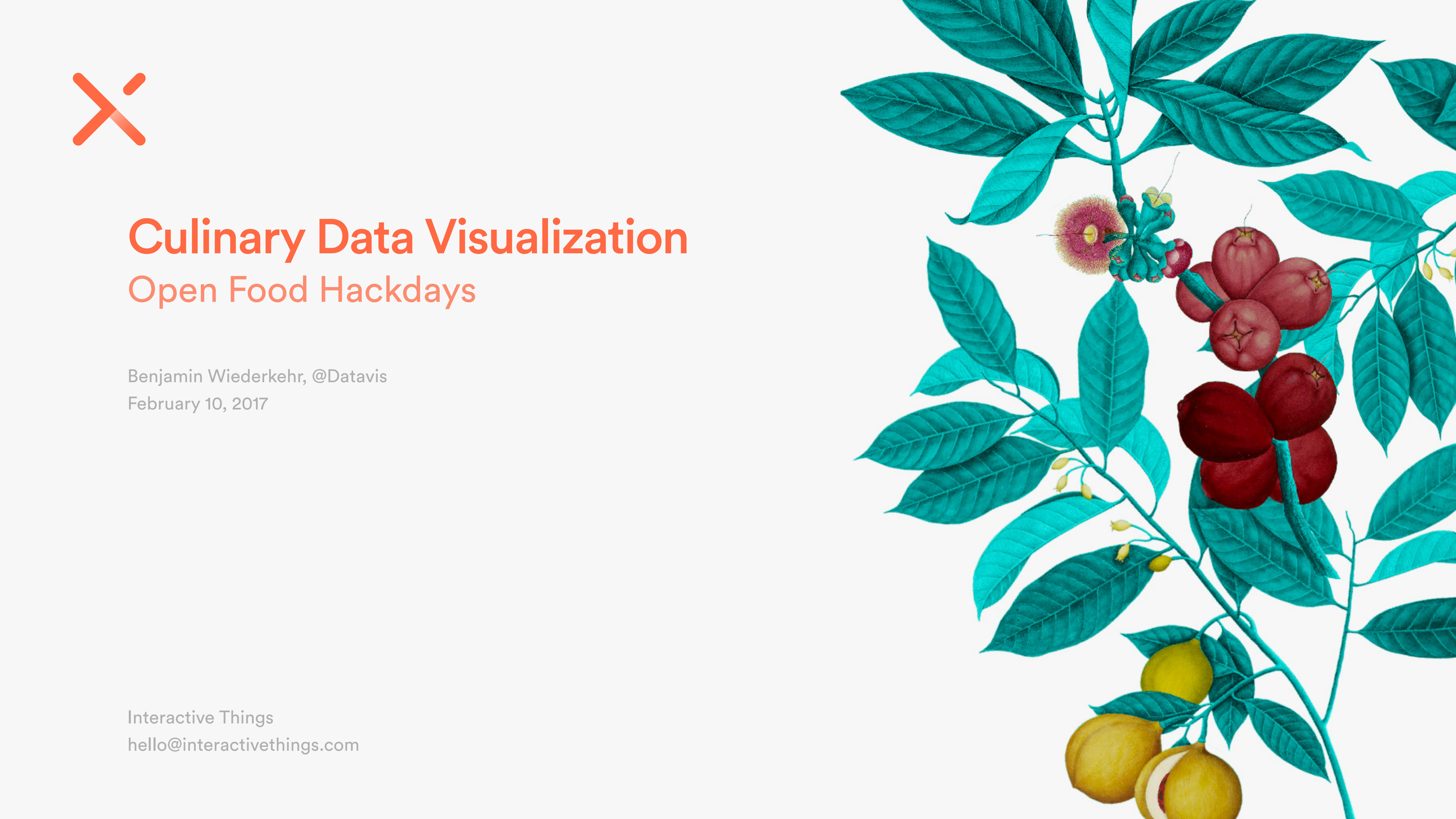
T +41 58 800 72 00
D +41 58 800 72 36
M +41 79 877 63 44
E domenic.schneider@gs1.ch

www.trustbox.swiss



Benjamin Wiederkehr

Interactive Things



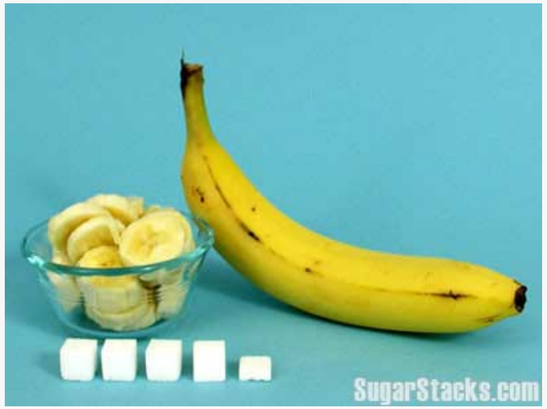
Culinary Data Visualization

Open Food Hackdays

Benjamin Wiederkehr, @Datavis

February 10, 2017

Interactive Things
hello@interactivethings.com

















Sugar Stacks: How Much Sugar is in your Food?
http://www.sugarstacks.com/

Food

A record of consumption.

FIGURE 13. VEGETABLES VS. SWEETS VS. FRUITS

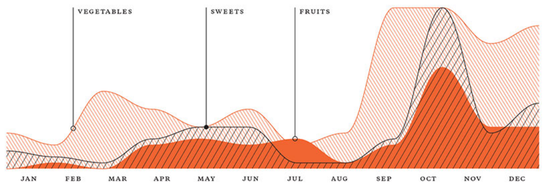
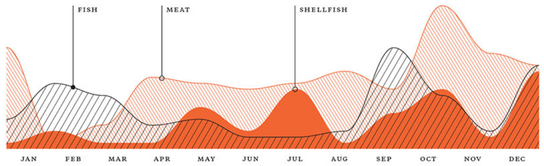


FIGURE 14. FISH VS. MEAT VS. SHELLFISH



NUMBER OF MEALS

325

58% OF REPORTS

MOST COMMON PREPARATION

Salad

REPORTED 39 TIMES

MOST REPORTED FRUIT

Apple

REPORTED 7 TIMES

NUMBER OF SNACKS

25

5% OF REPORTS

MEALS COOKED

One

SOPA DE POLLO

MEAL WITH MOST INGREDIENTS

Graffiti

DEC 17, 2009

MOST FREQUENT INGREDIENT

Eggs

REPORTED 21 TIMES

MEAL WITH MOST REPORTS

Back Forty

JUN 12, 2009, REPORTED 7 TIMES

NEW YORK RESTAURANTS VISITED

111

INEDIBLE ITEMS CONSUMED

Time & Words

ICE CREAM FLAVORS CONSUMED

Nine

CHOCOLATE, COOKIES 'N CREAM, CRÈME FRAÎCHE, GREEN TEA, LYCHEE, PEPPER, PINK PEPPERCORN, SESAME AND VANILLA

TYPES OF VEGETABLES CONSUMED

65

ARTICHOKES, ARUGULA, ASPARAGUS, AVOCADOS, BEANS, BEETS, BLACK BEANS, BROCCOLI RABE, BRUSSELS SPROUTS, CABBAGE, CARROTS, CAULIFLOWER, CELERIAC, CELERY, CHICKPEAS/GARBANZO, CORN, CUCUMBERS, DANDELIONS, EGGPLANTS, ENDIVES, ESCAROLE, FALL VEGETABLES, FRISÉE, GARLIC CLOVES, GOLDEN CHERRY TOMATOES, GREEN BEANS, GREEN LEAF LETTUCE, GREENS, HEIRLOOM TOMATOES, JALAPEÑOS, JAPANESE EGGPLANT (NASU), JAPANESE RADISHES, KALE, LEEKS, LENTILS, LOTUS, MUSTARD GREENS, OLIVES, ONIONS, PARSNIPS, PEAS (PISELLI), PEPPERS, POTATOES, RADICCHIO, RADISH, RHUBARB, ROMAINE, SCALLIONS, SEAWEED (HIJIKI), SEAWEED (NORI), SHRUBBERY, SNOW PEA GREENS, SOYBEANS (EDAMAME), SPINACH, SPRING PEAS, SPROUTS, SQUASH, STRING BEANS, SWEET PLANTAINS, SWEET POTATOES, TOMATOES, TURNIPS, WATERCRESS, WATERMELON RADISHES AND ZUCCHINI

TYPES OF CHEESES CONSUMED

Twelve

AGED NZ CHEDDAR, BRIE, BURRATA, CHAVRIE, CHEDDAR, GOAT, GORGONZOLA, GRUYÈRE, MOZZARELLA, PANEER, RICOTTA AND SPANISH

MOST REPORTED FLAVOR

Spicy

REPORTED 8 TIMES

TYPES OF NUTS CONSUMED

Seven

ALMONDS, CASHEWS, HAZELNUTS, PEANUTS, PINE NUTS, PISTACHIOS AND WALNUTS

Drink

An accounting of refreshments.

FIGURE 16. NON-ALCOHOLIC BEVERAGES REPORTED

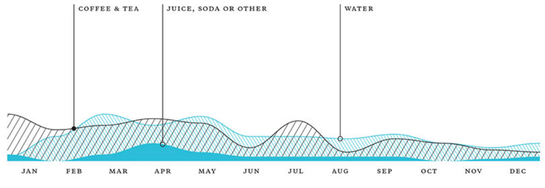
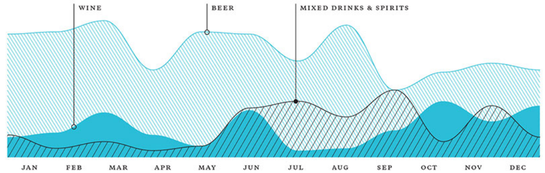


FIGURE 17. ALCOHOLIC BEVERAGES REPORTED



DRINKS REPORTED

778

AVERAGE OF 2.13 PER DAY

MOST REPORTED BEVERAGE

Beer

REPORTED 135 TIMES

MOST REPORTS FROM ONE BAR

41

SHEBEEN

ASSORTED MIXED DRINKS ENJOYED

35

BASIL MARTINI, BLOODY MARY, BOQUEDITO COCKTAIL, CHILI FLAKE MARGARITA, CHRISTMASY PEAR TEQUILA DRINK, CLOVING COCKTAIL, DARK AND STORMY, DARK-AND-STORMY-RITA, DOMAINE DE CANTON WITH LEMONADE, ELIXIR, FANCY TAMARIND DRINK, FROZEN MARGARITA, GIN AND TONIC, GINGER MARGARITA, GOLD RUSH, GRAPEFRUIT MARGARITA, LOISAIDA SLING, MANHATTAN, MARGARITA, MIMOSA, MOSCOW MULE, MYSTERIOUS RYE AND RYE, MYSTERIOUS TOO-SWEET GINNY LEMONADE, PIMM'S PUNCH, REMEMBER THE ALAMO, SAKE COCKTAILS, SAKE MOJITO, SANGRIA, SHISO MOJITO, SOJITO, STICKY ICKY, STRANGE SOAPY DRINK, TART AND GOOD MIXED DRINK AND WARD 9

BARS VISITED IN NEW YORK

63

BLOODY MARYS ENJOYED

13

MOST REPORTED BEER

Stella Artois

29.5 REPORTS

FIRST ICED COFFEE OF THE YEAR

April 26

FLAVORS OF BEER ENJOYED

Fifty

AMBER ALE, ANCHOR STEAM, ASAHI, BASS ALE, BITTER, BLUE POINT, BLUE POINT TOASTED LAGER, BODDINGTONS, BROOKLYN, BROOKLYN BREWERY BEER, BROOKLYN IPA, BROOKLYN LAGER, BUD LIGHT, CHANG, COORS LIGHT, CORONA, DOS EQUIS LAGER, GUINNESS, HARPOON, HEINEKEN, HITACHINO JAPANESE CLASSIC ALE, HOEGARDEN, HOME-BREWED APPLE CRISP ALE, IPA, JAPANESE, KIRIN, LAGER, LEZAISK, MCSORLEY'S ALE, MORETTI, NEGRO MODELO, OB, ORION, PERONI, RED STRIPE, SAM ADAMS, SAPPORO, SIERRA NEVADA, SINGHA, SIX POINTS BROWNSTONE, SIX POINTS IPA, SIX-POINT, SIXPOINT SWEET ACTION, SMUTTYNOSE IPA, STELLA ARTOIS, STONE RUINATION ALE, STOUT, TECATE, THAI AND TSINGTAO

VARIETIES OF COFFEE

Seven

AMERICANO, CAPPUCCINO, COLD, ICED, ICED LATTE, INSTANT AND LATTE

VARIETIES OF SAKE ENJOYED

Seven

CLEAR, CLOUD BANANA, CLOUDY, COLD, IN-A-BOX, NIGORI AND STRONG

SERVINGS OF SODA

10

ARANCIATA, COCA-COLA, LIMONATA AND SPARKLING RASPBERRY DRINK

COFFEE SHOPS VISITED IN NEW YORK

Ten

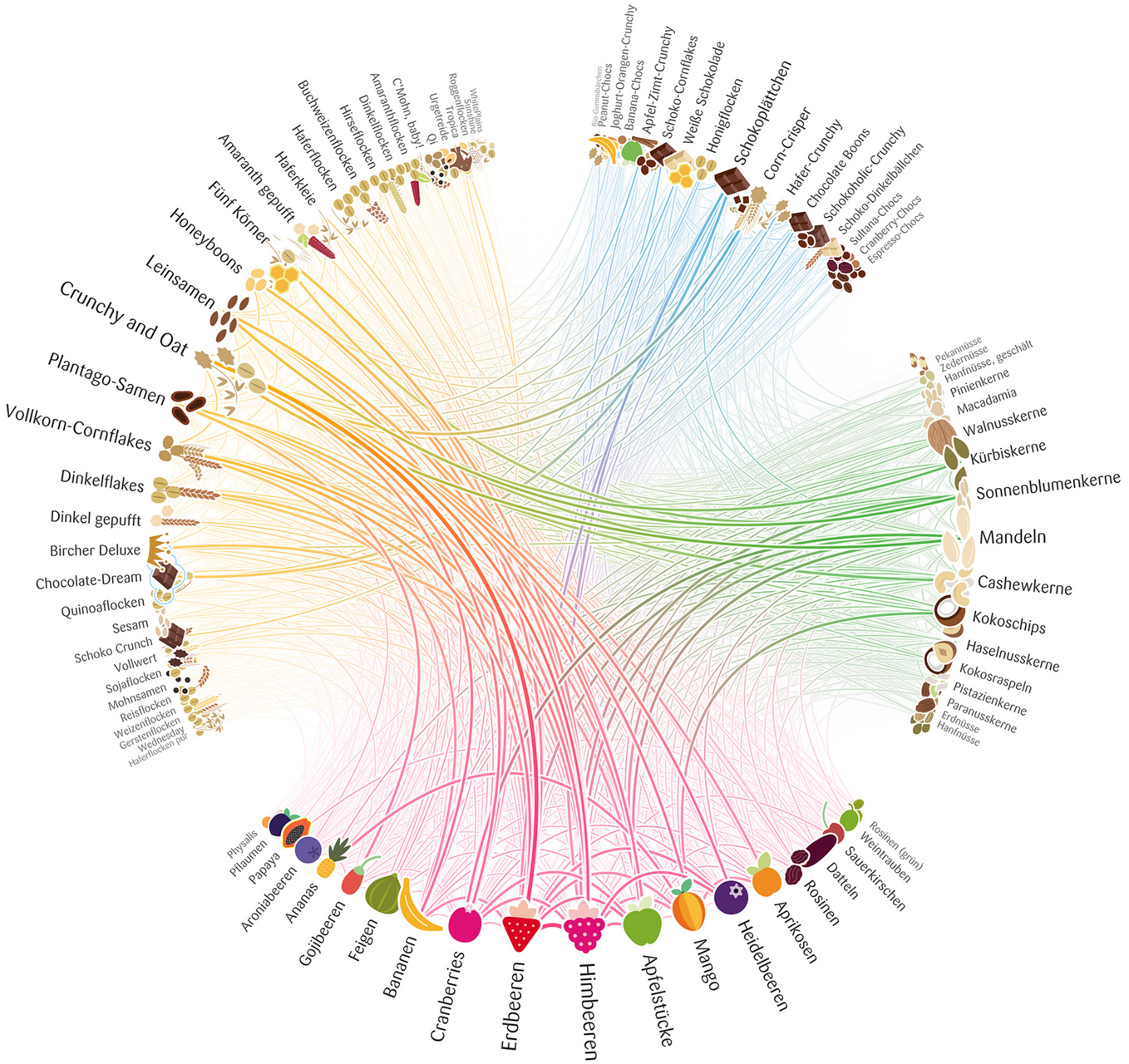
9TH STREET ESPRESSO, ABRACO, ANGELIQUE, COLOMBE, DUMBO GENERAL STORE, EL BEIT, GIMME, KAFFE 1668, LUCKY SHOT AND SUGAR SWEET SUNSHINE

ALCOHOLIC TO NON-ALCOHOLIC RATIO

2.5:1

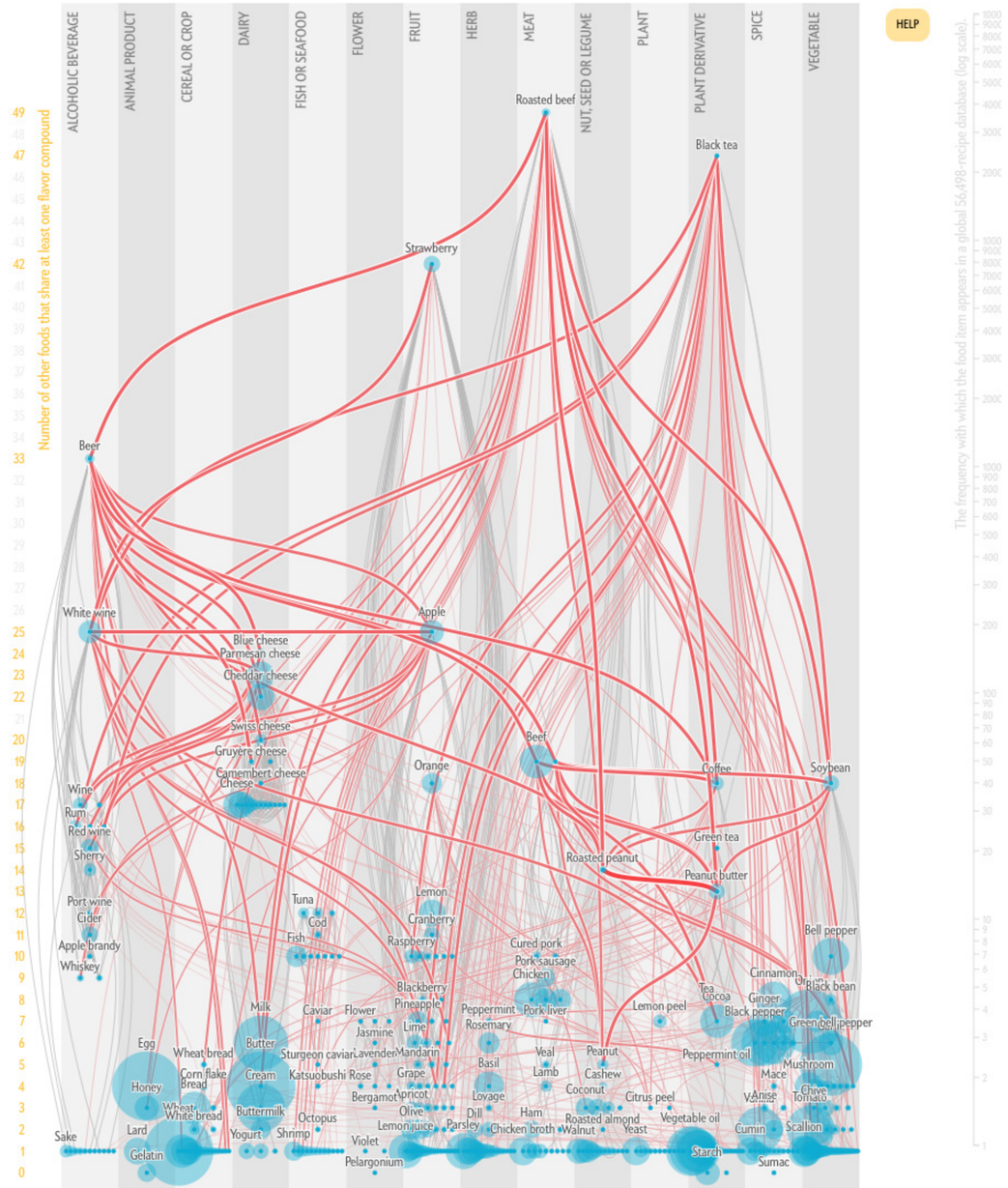


Food Consumed by Lauren Manning
https://flic.kr/s/aHsjuzhEFf



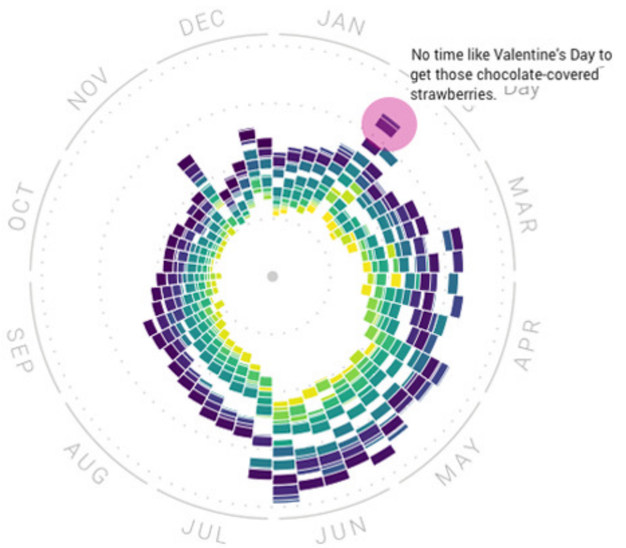
Müsli Ingredient Network by Moritz Stefaner

http://moritz.stefaner.eu/projects/musli-ingredient-network/

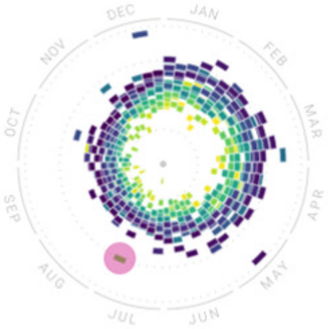


The Flavor Connection by Scientific American

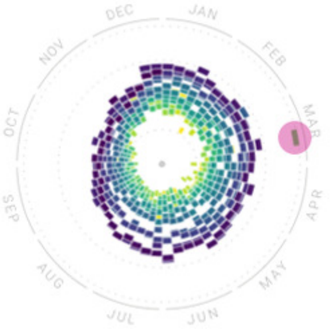
http://www.scientificamerican.com/article.cfm?id=flavor-connection-taste-map-interactive



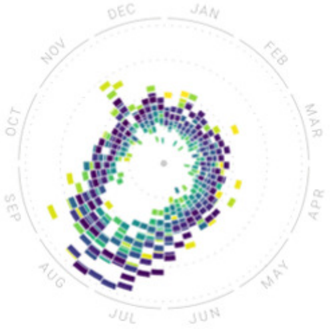
STRAWBERRY



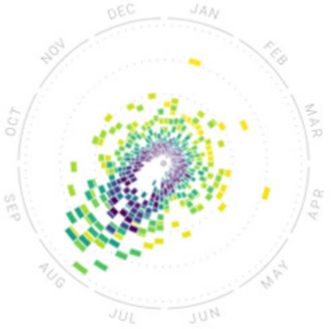
KUMQUAT



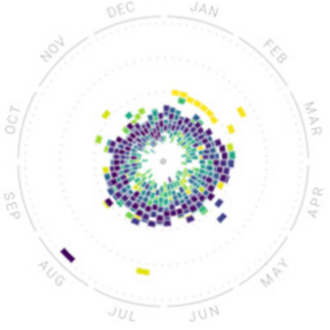
GRAPEFRUIT



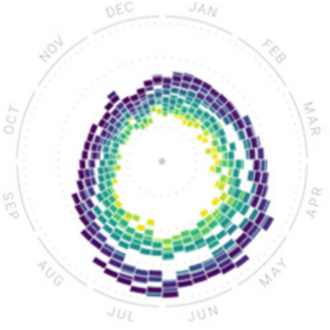
HUCKLEBERRY



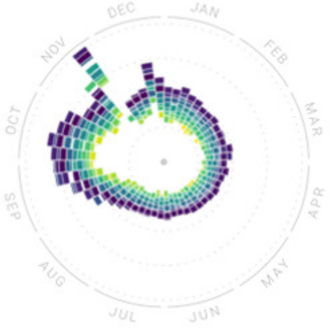
CHOKECHERRY



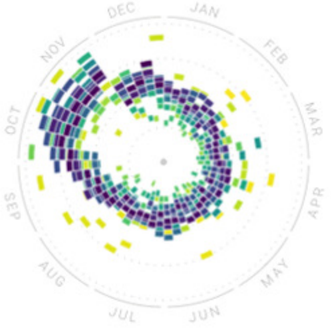
FIG



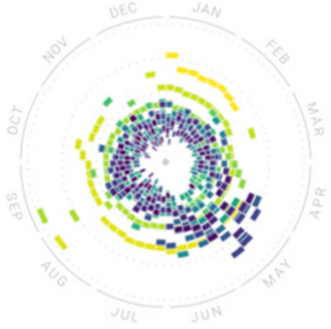
MANGO



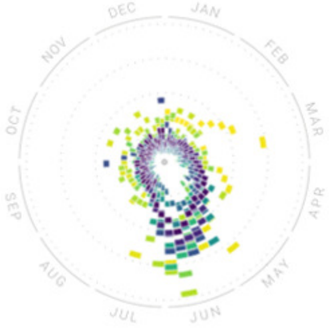
APPLE



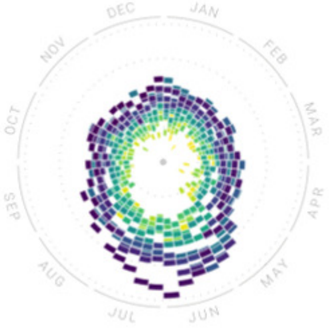
QUINCE



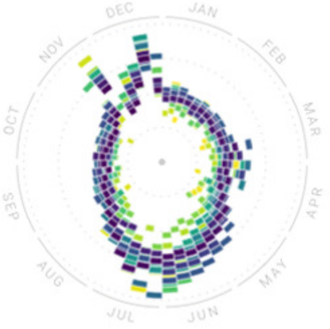
PLUM



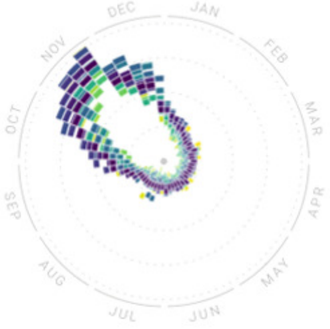
MULBERRY



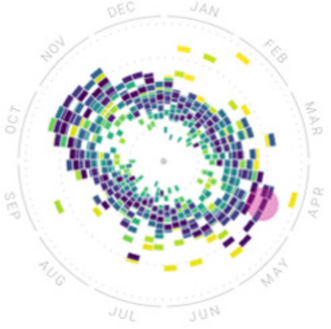
LYCHEE



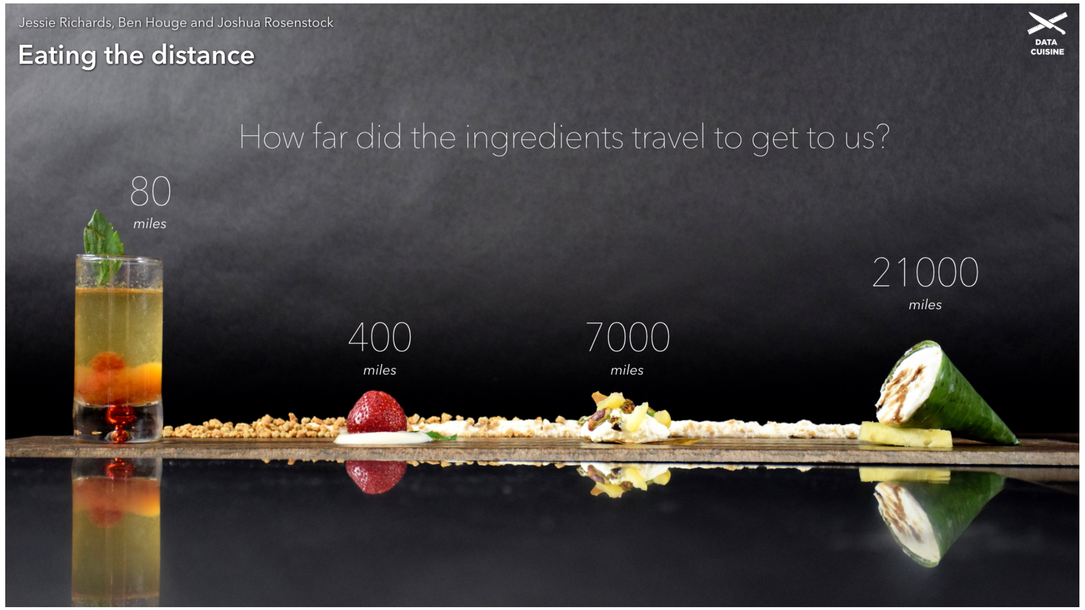
APRICOT



PERSIMMON

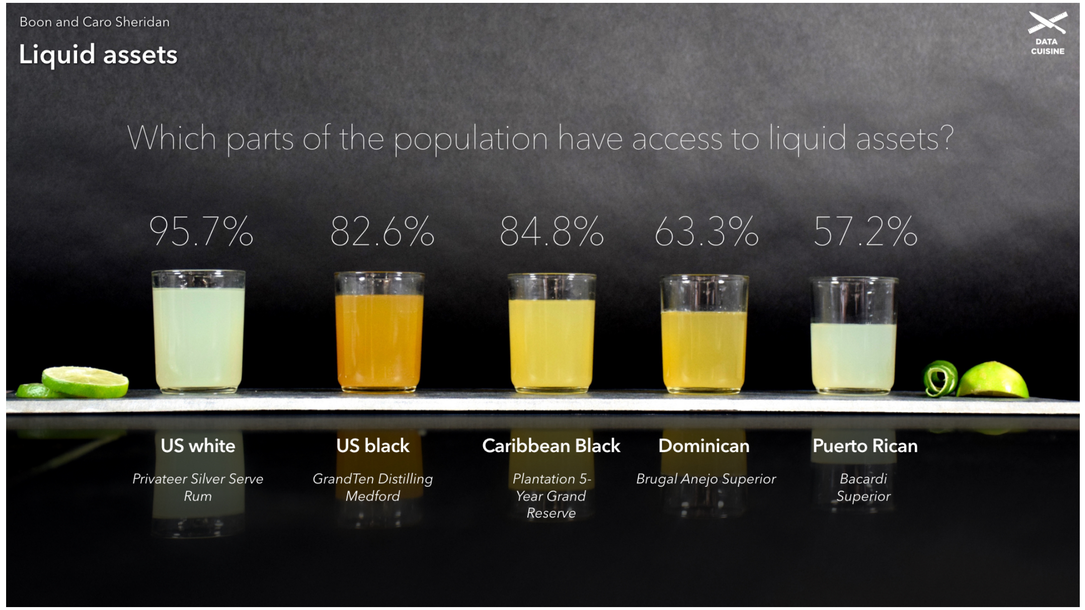


FEIJOA


Jessie Richards, Ben Houge and Joshua Rosenstock
Eating the distance
DATA CUISINE
How far did the ingredients travel to get to us?
80
miles
400
miles
7000
miles
21000
miles


Ben Snell, Steven Braun, Ann McDonald
Unequal exposure
Does pollution affect everybody alike?
DATA CUISINE
Income group
Hazardous waste sites / sq mile
>65k US$
4.6
>53k US$
5.3
>40k US$
7.2
<40k US$
19.4

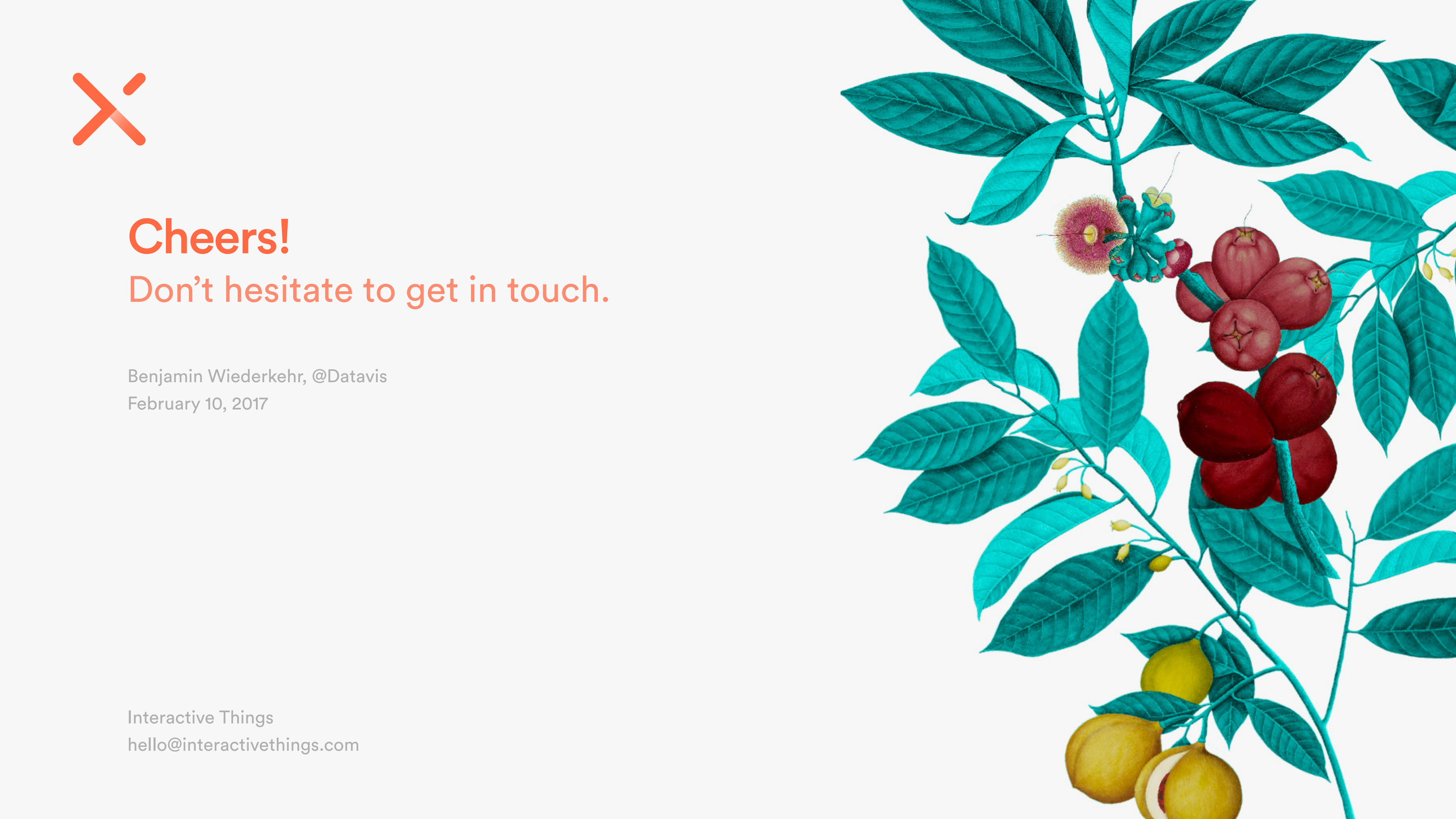

Skye Moret, Amanda Chu
A million new friends
Number of fecal coliform bacteria in the Boston Harbor
DATA CUISINE
Summer
34163
organisms / 100mL
Winter
409
organisms / 100mL
Recreational limits
34
organisms / 100mL


Boon and Caro Sheridan
Liquid assets
DATA CUISINE
Which parts of the population have access to liquid assets?
95.7%
82.6%
84.8%
63.3%
57.2%
US white
Privateer Silver Serve Rum
US black
GrandTen Distilling Medford
Caribbean Black
Plantation 5-Year Grand Reserve
Dominican
Brugal Anejo Superior
Puerto Rican
Bacardi Superior

How Much Does Beer Consumption Vary by Country?



Relative Beer Consumption by Country by Anonymous
http://snippets.com/how-much-does-beer-consumption-vary-by-country.htm



Cheers!

Don’t hesitate to get in touch.

Benjamin Wiederkehr, @Datavis
February 10, 2017

Interactive Things
hello@interactivethings.com

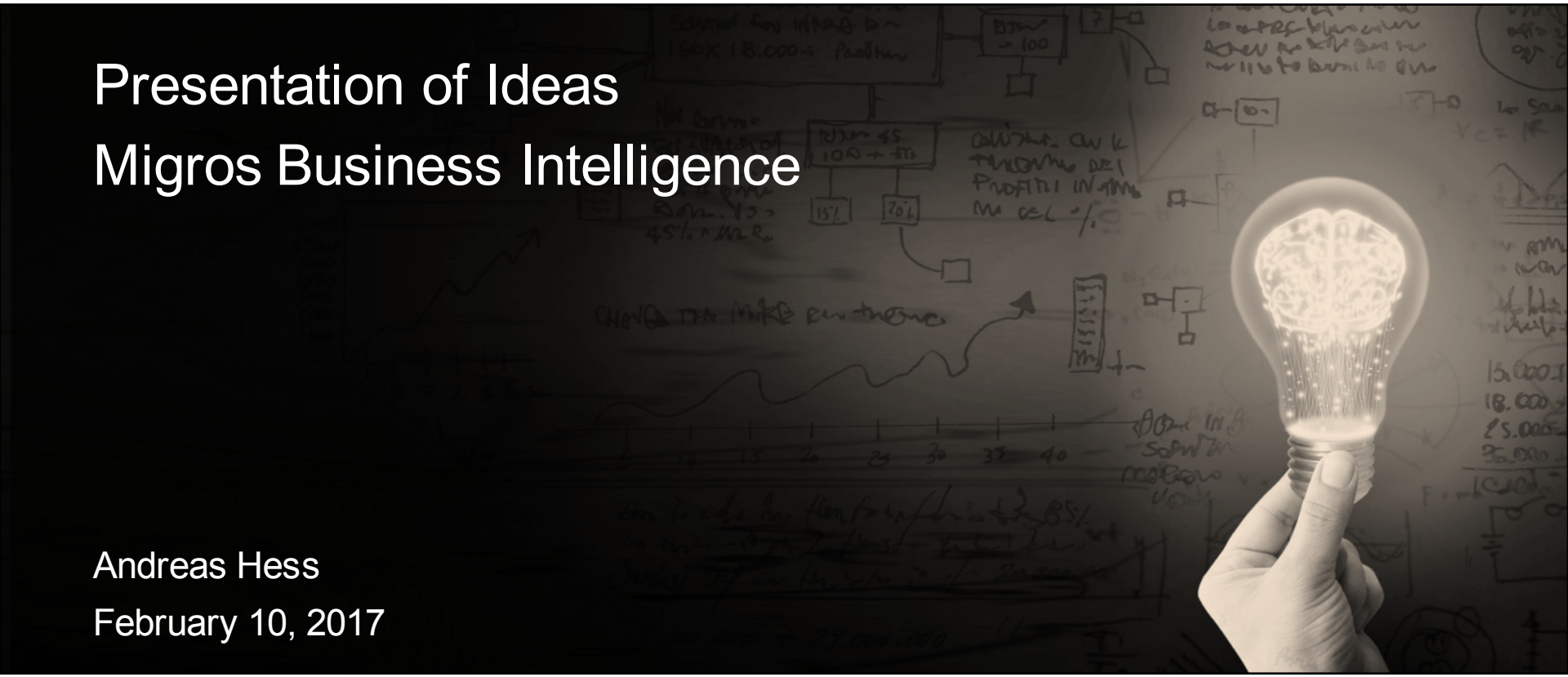


Andreas Hess

Migros Business Intelligence

MIGROS

Presentation of Ideas
Migros Business Intelligence



Andreas Hess

February 10, 2017

1

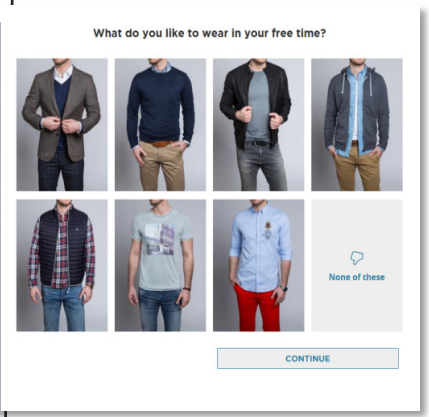
Personalized Food Services

Introduction of a personalized food service that supports you to achieve your nutrition goals

Personalized Food Service

From Personal Style Advice…





- The **most convenient** way to **suitable outfits**
- Customized to **individual taste**
- Personalized advice from your **fashion adviser**
- **«Shopping has never been so simple»**

… to Personalized Food Services



- The **most convenient** way to **achieve your nutrition goals**
- Customized to **individual needs & goals**
- Personalized advice from your **nutrition specialist**
- **«Achieving your nutrition goals has never been so simple»**

Market Gap: Food boxes are not yet tailored to individual needs and personal nutrition goals

Market Research

International Food Box Providers

BioKitchen
Einfach. Gesund. Essen.

plated

DAILY KITCHEN dk MODERN EATERY & ROTISSERIE

COOKBUTLER

Market Gap:
Personalized
Food Boxes & Nutrition
Advice

Blue Apron

dinnery

kochpost

MARLEY SPOON







«Achieving your nutrition goals has never been so simple»

Customization of Food Services



Personal Characteristics

- Age / Gender
- Weight / Height
- Allergies
- Vegetarian / Vegan
- Sport activities
- Blood values
- …

Personal Goals

- Weight loss
- Muscle gain
- Low carb / Paleo
- Ecological awareness
- Pregnancy
- …

2

In-Store Online Shopping

Scan your heavy and bulky shopping items in-store and have them delivered to your home

In-Store Online Shopping

From heavy and bulky bags…



- You have to buy **heavy and bulky items**
- You would like to buy your ingredients for dinner **over lunchtime**
- You are going to **meet a friend** right after shopping

… to a stress-free shopping experience



- **Get inspired** by the offers in-store, but you **don't need to carry** your shopping home
- **Scan the bar code** of your products in-store and have them **delivered to your door**
- **Additional benefits:** Free delivery, cumulus points, special offers, etc.



Aurelian Jaggi

Eaternity

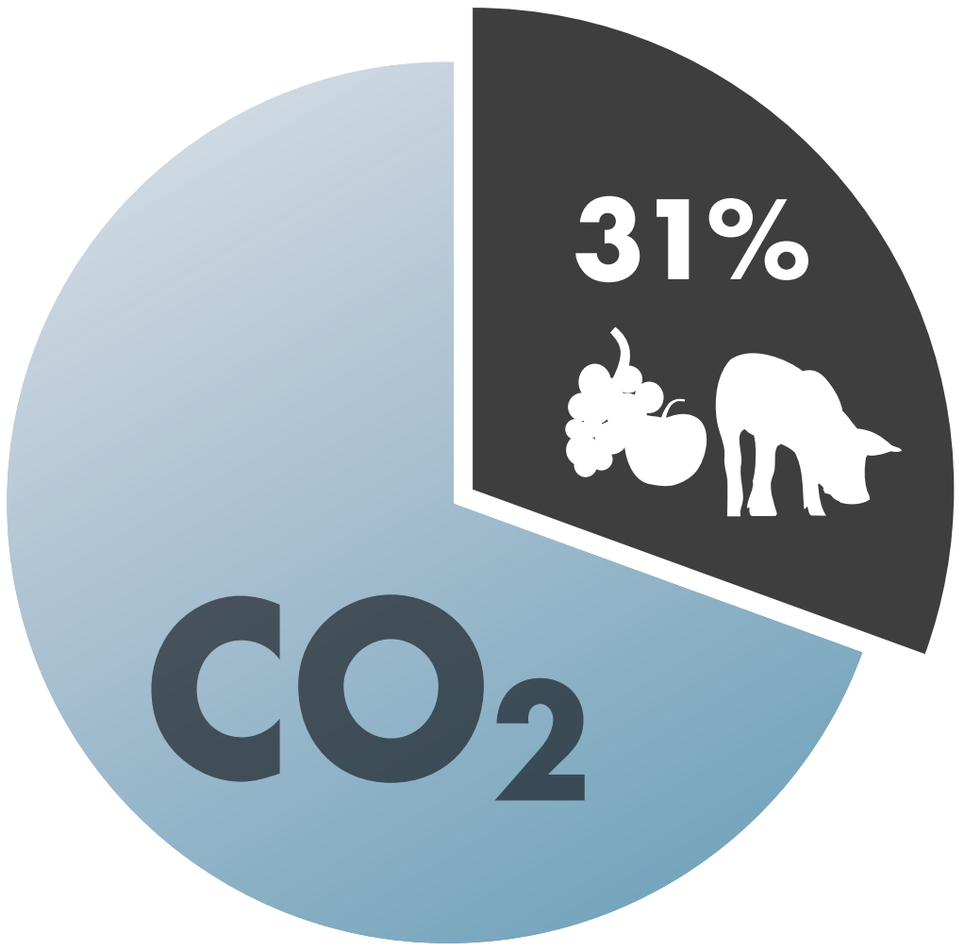


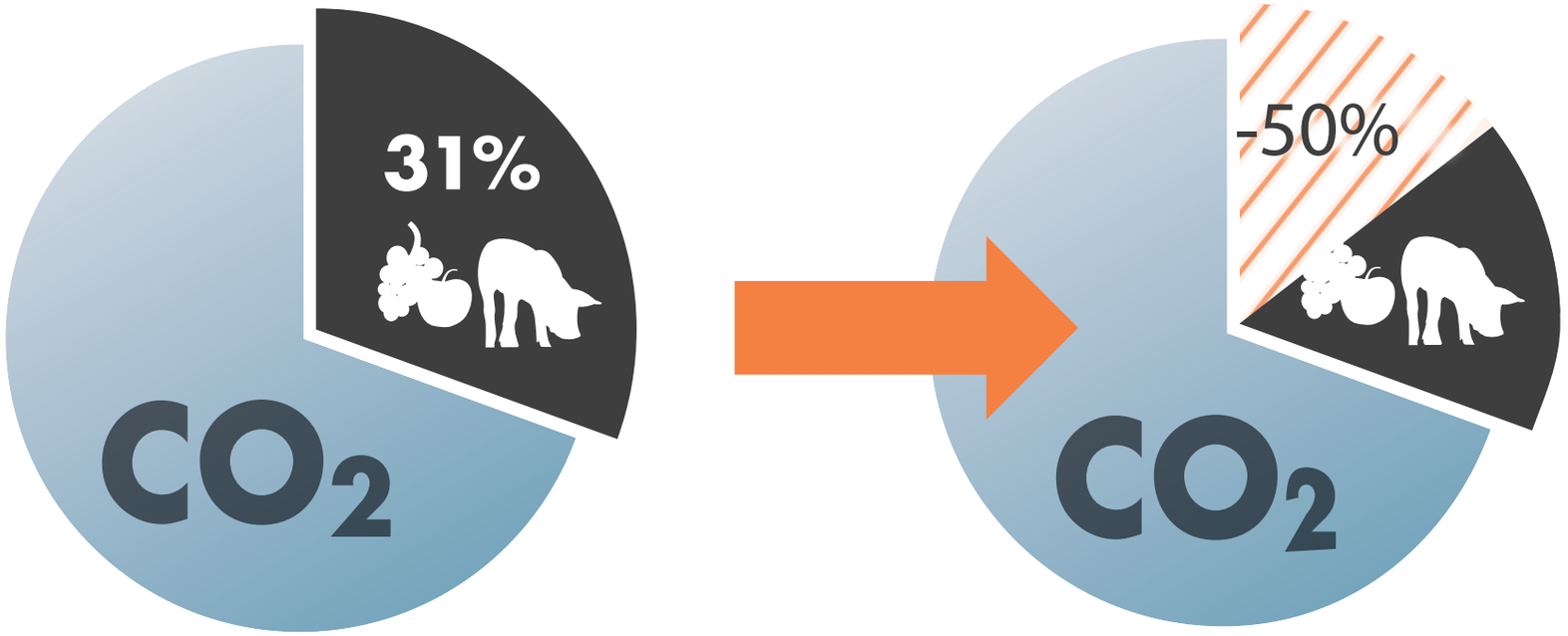
APP'ETITE

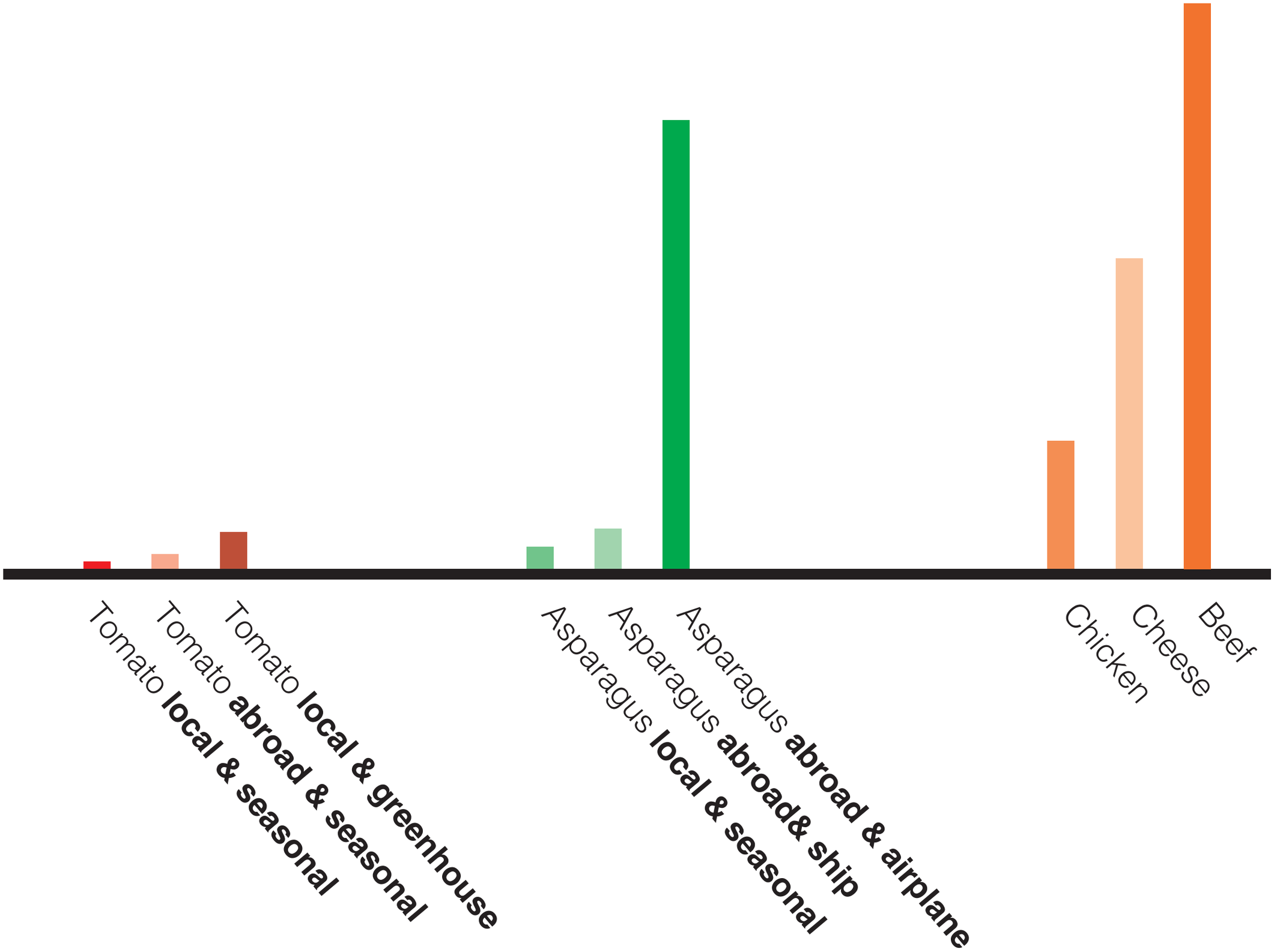
for change?

eaternity

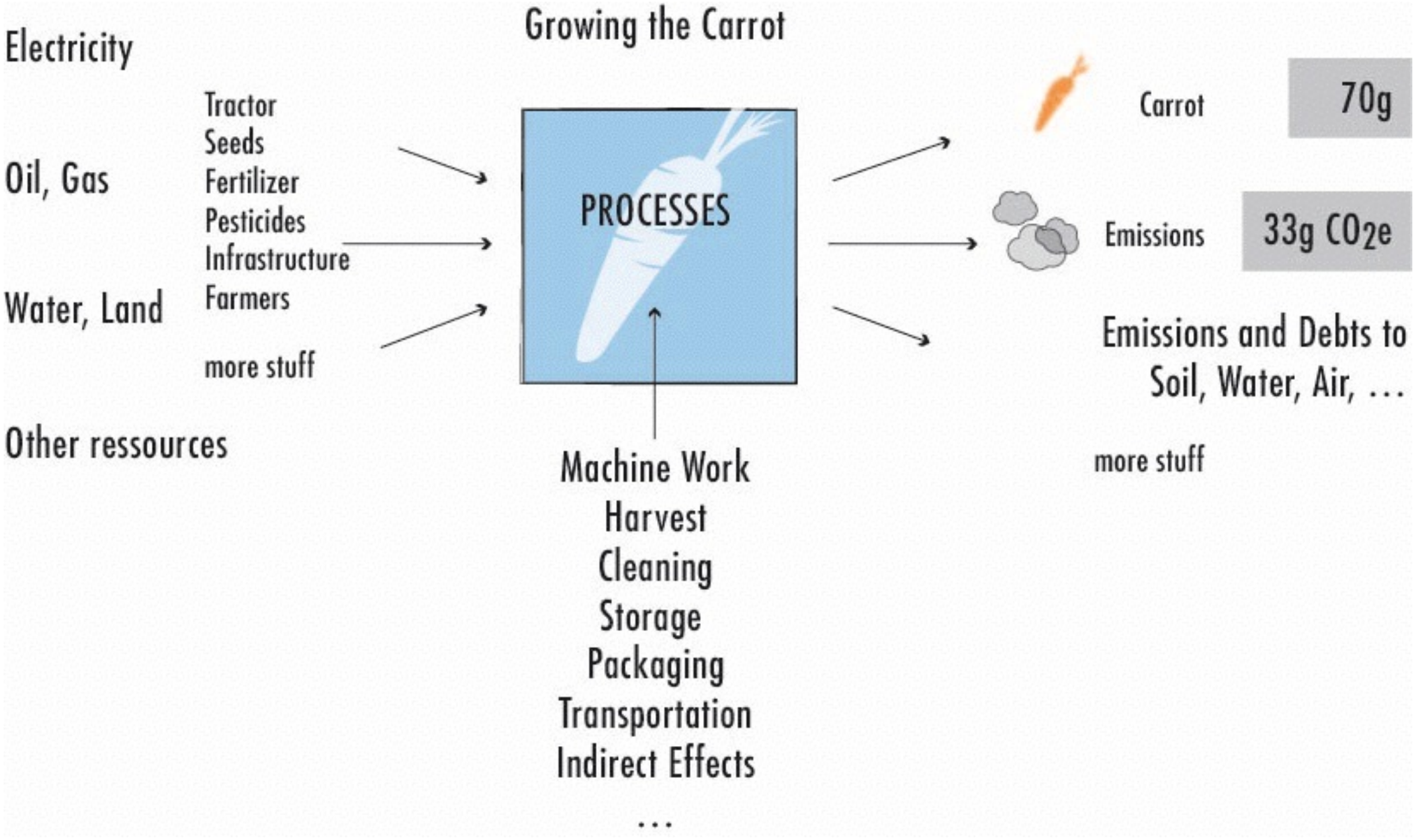
1/3 of our **emissions**
originate from **our foods**

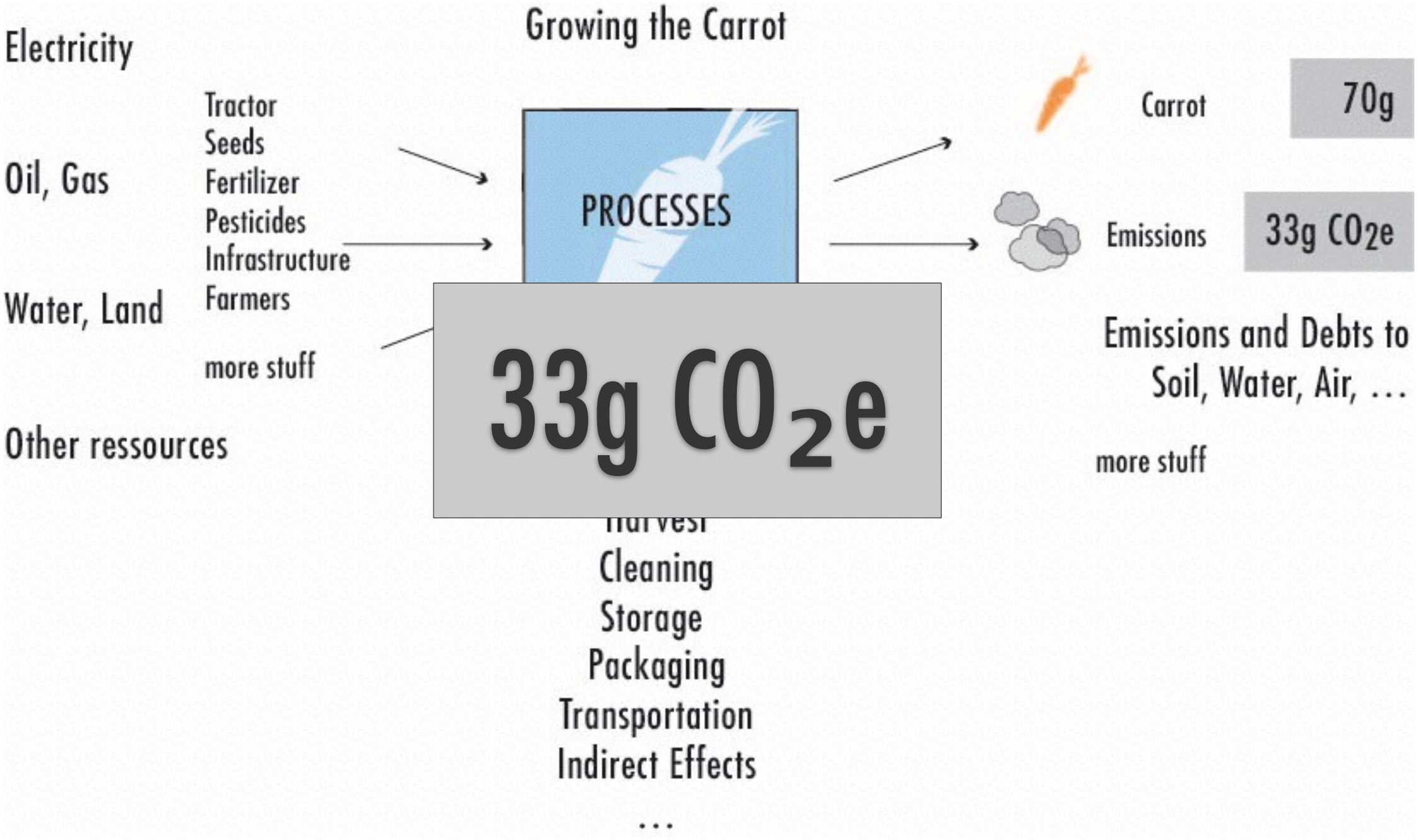



31%
CO_2
-50%
CO_2


Tomato local & seasonal
Tomato abroad & seasonal
Tomato local & greenhouse
Asparagus local & seasonal
Asparagus abroad& ship
Asparagus abroad & airplane
Chicken
Cheese
Beef

Growing the Carrot




Growing the Carrot
Electricity
Oil, Gas
Water, Land
Other ressources
Tractor
Seeds
Fertilizer
Pesticides
Infrastructure
Farmers
more stuff
PROCESSES
Harvest
Cleaning
Storage
Packaging
Transportation
Indirect Effects
...
33g CO2e
Carrot
70g
Emissions
33g CO2e
Emissions and Debts to Soil, Water, Air, ...
more stuff

CLIMATE FRIENDLY

6%
LESS CO_2-Emissions

awarded

GOOD

more CO_2 than an average



This restaurant
37,200 kg

All restaurants
39,500 kg



ø meals of this restaurant
1,930 g

ø meals of all restaurants
1,715 g



ø climate-friendly meals
528 g


FIRE
WATER
PROTECT GRANDMOTHER EARTH
KEEP THE OIL IN THE GROUND
RESPECT
FRONTLINES OF CRISIS
FOREFRONT OF CHANGE
PEOPLES CLIMATE MARCH

Show API Blueprint
Fork on GitHub
ajaggi/eaternity-api

INTRODUCTION
Authentication
CO₂-Values
Language
Server Responses

REFERENCE
Recipe Resources
Kitchen Resources
Supply Resources

Eaternity API

INTRODUCTION

The Eaternity API is a Web Service that calculates the CO2-footprint of recipes and restaurants dynamically and provides a CO2-indicator for ingredients. It includes daily changing information on origin, seasonality and other factors in the calculation. It further, delivers CO2-reports with sophisticated and easy to understand statistics, graphsand analysis.

The Eaternity API is a RESTful interface, providing programmatic access to Eaternity's calculation algorithms, indicator systems and data collections. It provides predictable URLs for accessing resources, and uses built-in HTTP features to receive commands (GET, POST, PUT, DELETE) and return responses.

Authentication

Each client gets his own unique API key, which he needs to provide to be able to talk to the Eaternity API.

To authenticate a request, clients should use the widely supported HTTPS Basic Authentication and pass the API key as the username, and an empty password. Note that the API only accepts secure connections via **HTTPS** with SNI (Server Name Indication). Servername is `co2.eaternity.ch`. Most HTTP request utilities and libraries that allow to specify a username and password will handle proper encoding of the header for you.

API Key Example: FmZ23.M4mTKmDA4ssFCkEnYi

Switch to Console

Recipe Resources / Recipe Collection / Create a recipe

POST https://co2.eaternity.ch/api/recipes

Request

Production | Raw | Try

HEADERS

```
Content-Type:application/json
```

BODY

```
{
  "recipe": {
    "titles": [
      {
        "language": "de",
        "value": "Kürbisrisotto"
      },
      {
        "language": "en",
        "value": "Pumpkin Risotto"
      }
    ],
    "author": "Eckart Witzigmann",
```

docs.eaternity.apiary.io

Eaternity Challenge

"Motivate people to eat
more climate friendly and reduce
food related CO2 emissions"

André Golliez

i.V. Schweizer Konsumentenschutz

KONSUMENTEN SCHUTZ

Open Food Data

Open Food Hackdays

Challenges der Stiftung Konsumentenschutz

Zürich, 10. Februar 2017

Die Stiftung Konsumentenschutz

- Die Stiftung für Konsumentenschutz vertritt seit 1964 engagiert und unabhängig **die Interessen der Konsumentinnen und Konsumenten** gegenüber Wirtschaft, Politik und Öffentlichkeit. Sie nimmt aktiv am politischen Prozess teil.
- Die SKS bewahrt stets ihre **Glaubwürdigkeit und Unabhängigkeit** und nimmt weder von der Wirtschaft noch von der Politik **Spenden** an.
- Die SKS ist auch in der **Beratung und Information** tätig. Zur Beratung und Information gehören traditionsgemäss auch die **SKS-Ratgeber** zu 11 Themengebieten, darunter auch **Gesundheit & Ernährung** (siehe
  - https://www.konsumentenschutz.ch/themen/lebensmittelabfall/
  - https://www.konsumentenschutz.ch/themen/lebensmittelproduktion/
  - https://www.konsumentenschutz.ch/themen/lebensmittelproduktion/)

Challenge «Food Waste»

«Auf Basis der Daten der BAFU-Studie (und anderer Quellen) Rückschlüsse auf das **Verhalten** der Konsumentinnen und Konsumenten ziehen. Z.B. herausfinden, ob sich Food Waste **regional** unterschiedlich zeigt?

Ist es möglich anhand der aufgesplitteten Zahlen **Durchschnittskosten** auszurechnen, wie viel Geld ein Haushalt/eine Person durch Foodwaste (Teil noch geniessbare Produkte) pro Jahr in den Abfall wirft?»

Daten zur Challenge «Food Waste»

- Studie des Bundesamtes für Umwelt BAFU zu Lebensmittelabfällen (https://www.bafu.admin.ch/bafu/de/home/themen/abfall/abfallwegweiser-a-z/biogene-abfaelle/abfallarten/lebensmittelabfaelle.html)
- Informationen des Bundesamtes für Landwirtschaft BLW zu Food Waste https://www.blw.admin.ch/blw/de/home/politik/food-waste.html
- Weitere Quellen

Challenge «Wasserqualität»

- «Lassen sich anhand der Daten von www.trinkwasser.ch Schweizer Karten erstellen mit der Belastung durch Fremd- und Inhaltsstoffe, Nitrat, allenfalls Wasserhärte oder Spurenstoffe?»
- Informationsquellen/Daten:
  - http://trinkwasser.svgw.ch/
  - http://wasserqualitaet.svgw.ch/index.php?id=760



Enabling Open Data in Switzerland



Roman Bleichenbacher

Codecheck

Codecheck App:

Number One In Healthy Shopping.

Codecheck AG, Hardturmstrasse 133, 8005 Zürich, Switzerland
Codecheck GmbH, Zimmerstraße 32, 10969 Berlin, Germany

We empower consumer

Limited product transparency worldwide
Chemical additives, labels, working conditions, destruction of the environment, price, etc.

Increase of intolerance and allergies
awareness in health and environment
personal needs like religious minorities, vegan, vegetarians

75% of the consumers want a qualified purchase decision, but have no time to get that information*

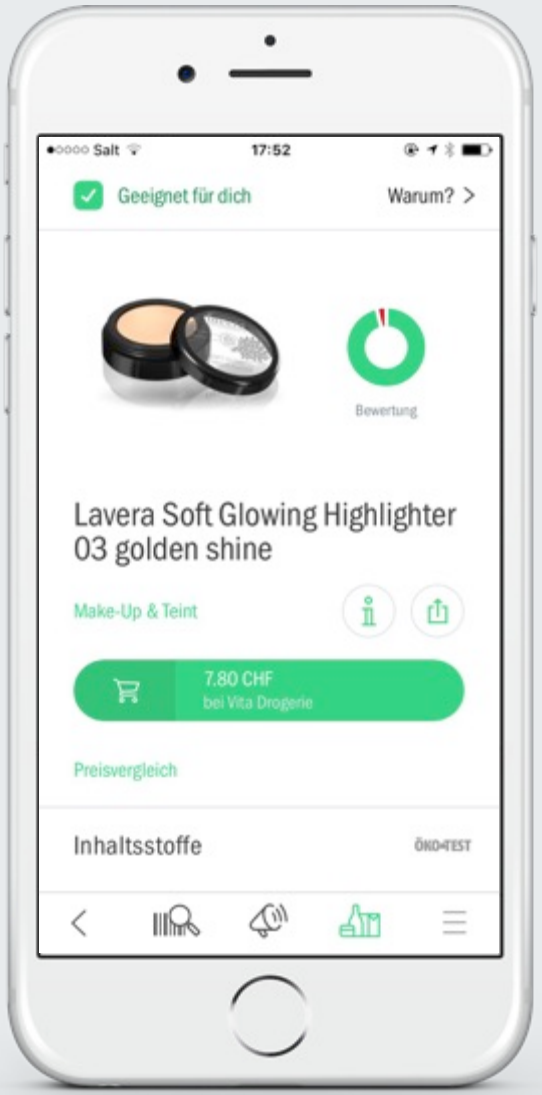
- Source: Center for Research on Environmental Decision (CRED), Columbia University, New York, 2010

We have a dream

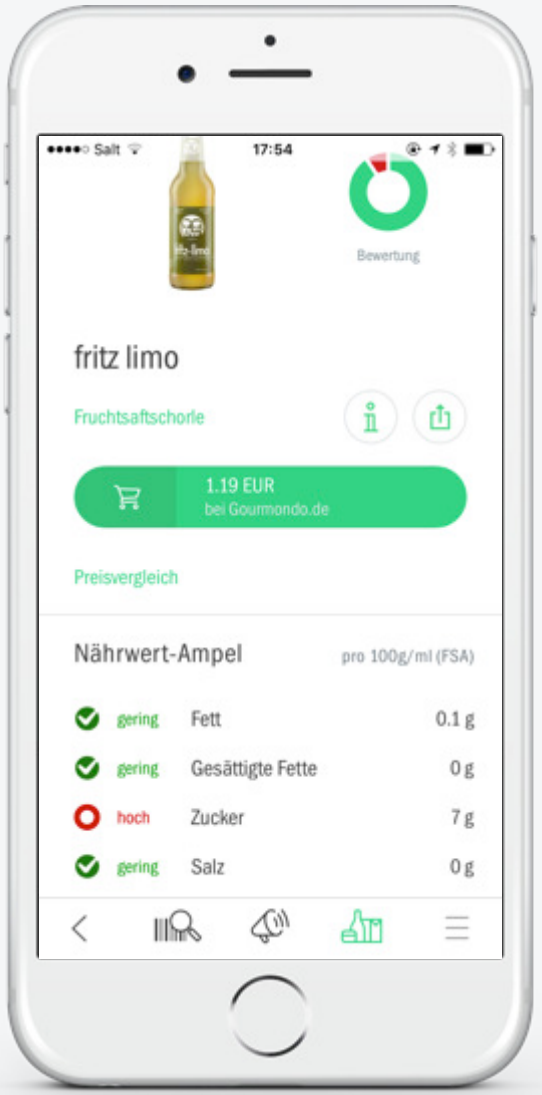
People only buy products that are healthy for them and have been sustainably produced.

Codecheck helps consumers buy healthier and more sustainable products.

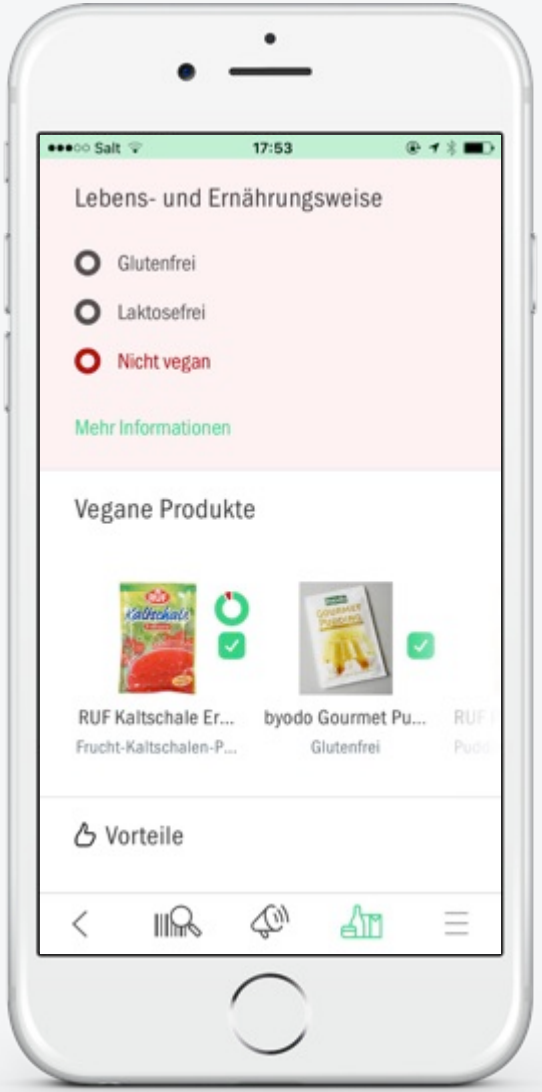
- German-language market leader
- 1.3 M monthly unique users
- Unique expert rating
- Biggest database with 37 M products



Users scan a product and the app shows unique health information and proposes better alternatives.



Codecheck helps people suffering from food intolerances and supports a healthy lifestyle by recommending the most suitable products.



Idea for the Hackathon





Codecheck Sugar Challenge – Reduce sugar intake

Help our users to...

- understand what is behind the amount of sugar in the nutrition values
- keep track of their daily sugar intake
- easily reduce their daily sugar intake

Sugar Challenge / Reduce sugar intake

What have we now?

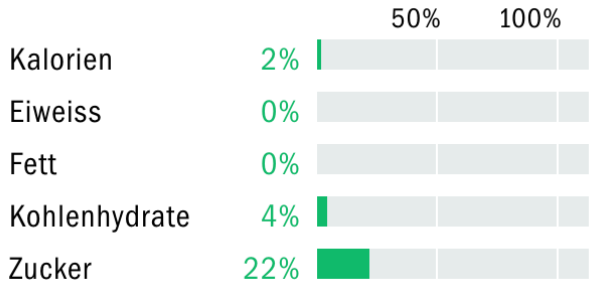
NÄHRWERT-AMPEL

Angaben für eine Portionsgrösse von 100g.
Quelle: FSA

✓	gering	Fett	0 g
✓	gering	gesättigte Fettsäuren	0 g
○	hoch	Zucker	10,6 g
✓	gering	Salz	0 g

TAGESBEDARF

100 g decken folgenden Anteil des Tagesbedarfs von 2'000 kcal. Quelle: FSA



Sugar Challenge / Reduce sugar intake

Goal

- New function for the Codecheck App
- As simple as possible
- Easy to understand
- Generate a big impact



Codecheck AG

Hardturmstrasse 133
8005 Zürich, Switzerland
+41 44 450 25 41

Roman Bleichenbacher
roman.bleichenbacher@codecheck.info

Adrian Boller

Elsa Mifroma

Introducing Rita...





Every day, Rita needs...

Energy: 2100 Kcal
Protein: 44 g
Lipid: 70 g
Carbs: 260 g
Sugar: 53g total energy
Fiber: min. 30 g per day

Rita‘s fridge and kitchen contain...







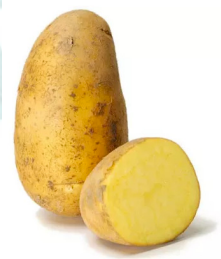


















Challenge: Help Rita...

...find menus she can prepare
...based on the food she has at home
(...or based on the food in her shopping cart)
...matching her average daily intake needs
...minimising food waste throughout the week

Recommended databases

Intake recommendations for individuals
www.sge-ssn.ch // Schweizerische Gesellschaft für Ernährung

Nutrition values of fresh products
http://www.naehrwertdaten.ch // by Swiss Government



Ferdinand Vogler

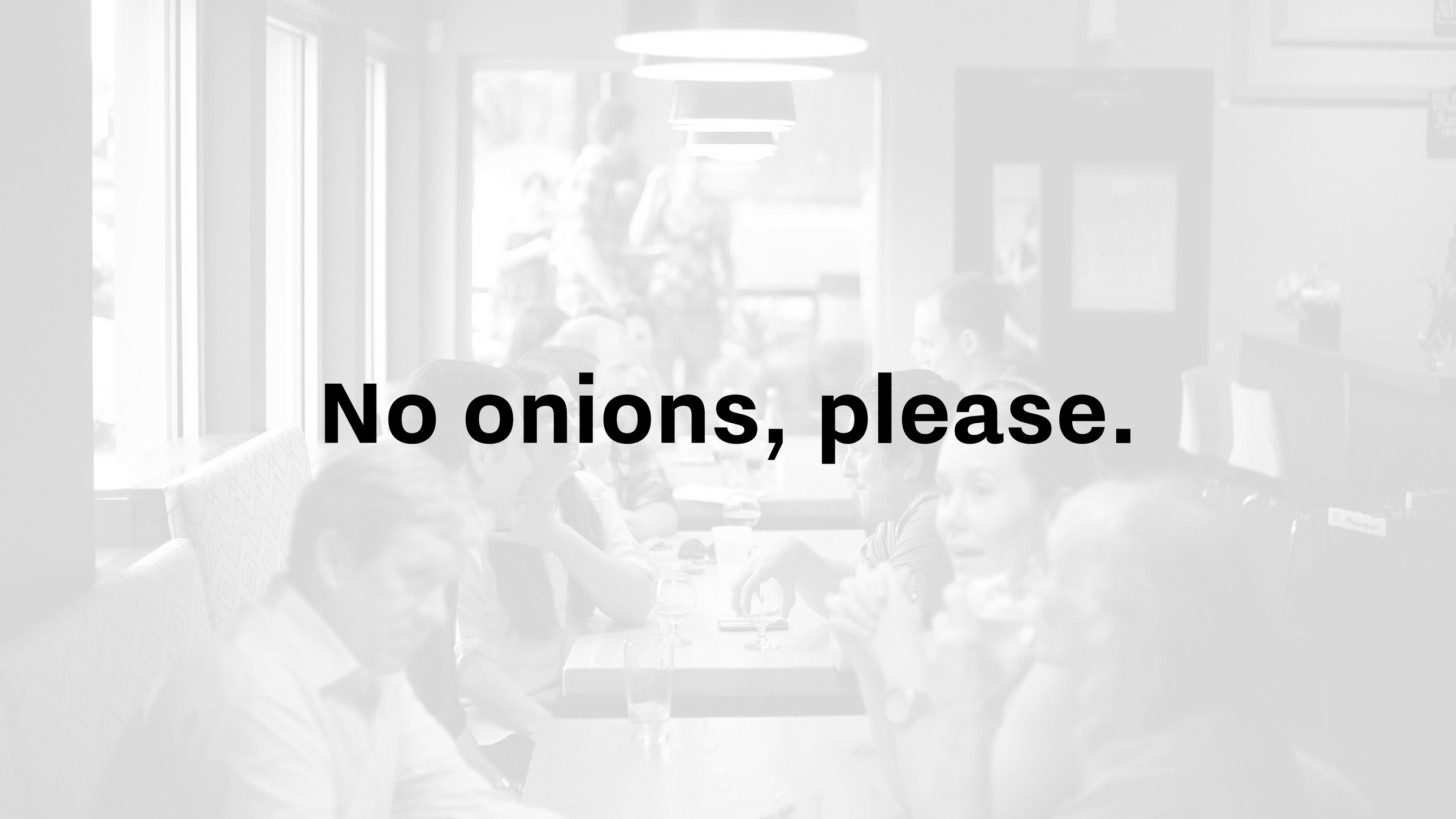
Designer

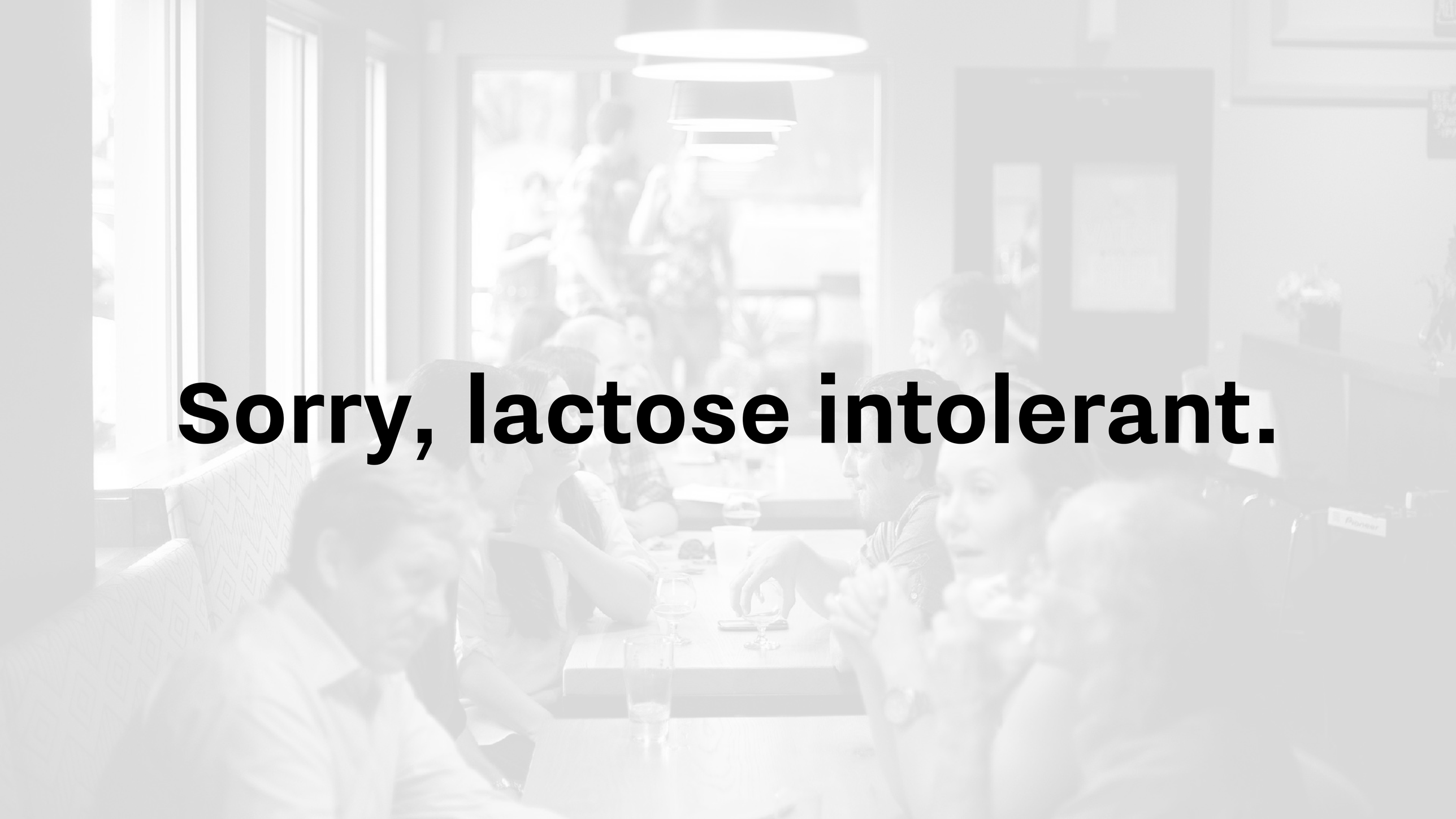
Ferdinand Vogler, Designer



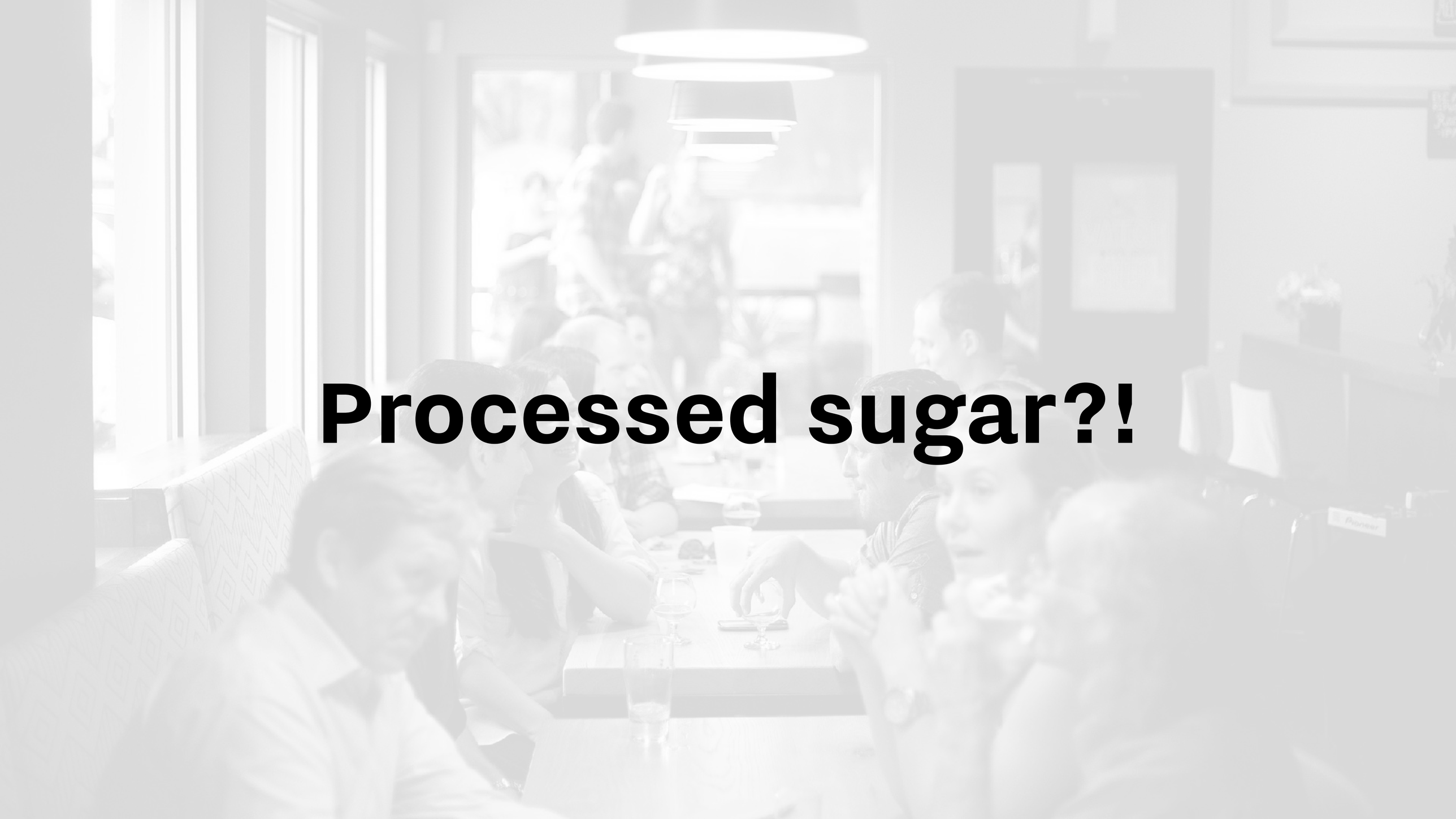


Gluten-free?


No onions, please.



Sorry, lactose intolerant.



Processed sugar?!





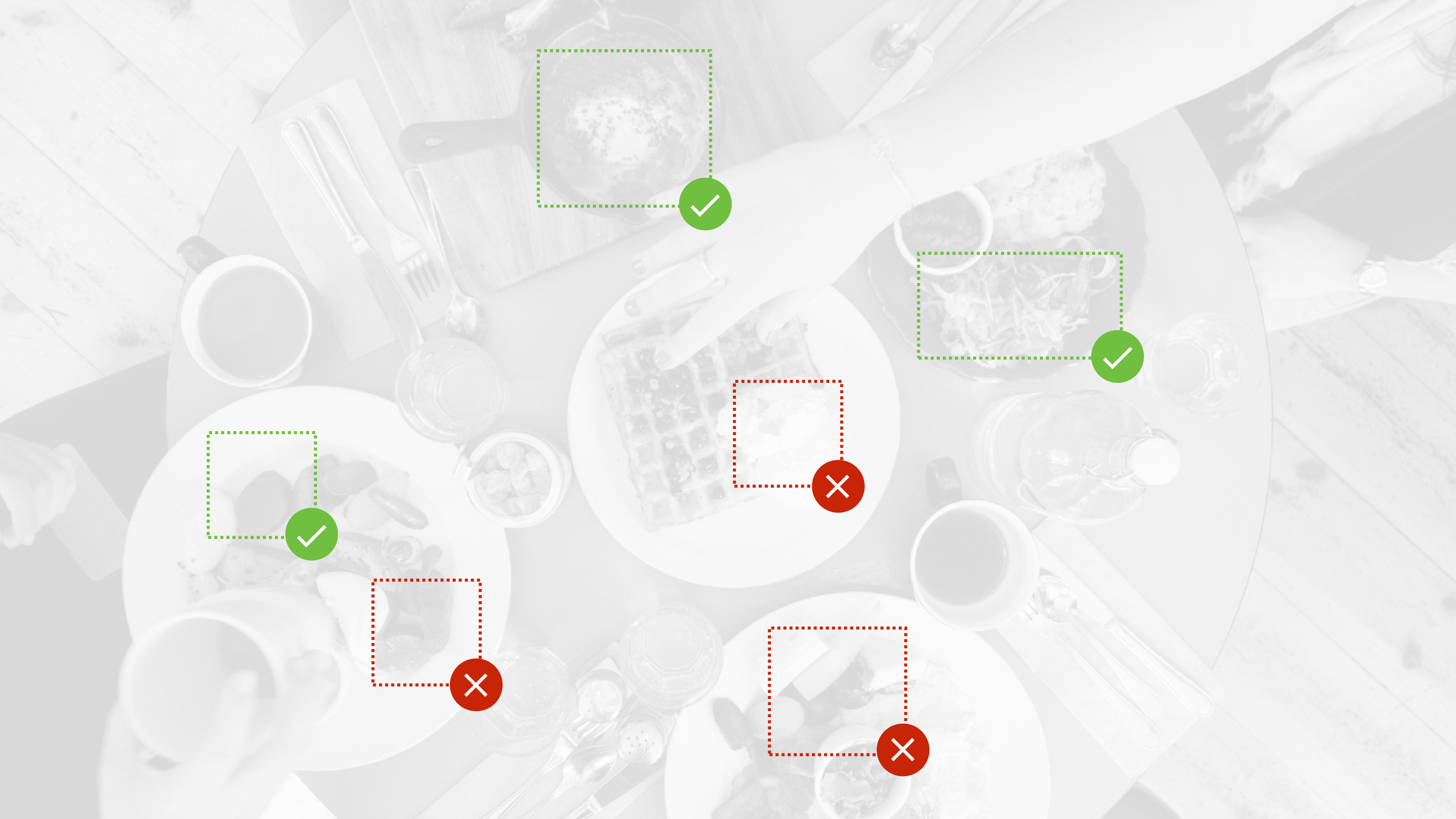



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How can companies cater for their customers dietary needs?

Personalized eating

I’m looking for a team.

Master thesis

Let’s talk.

 @ferdinandvogler



... the
stage
is yours

Pitch your idea
in 2 minutes