

Changing health habits requires more than informing: Social marketing for healthier and sustainable communities

Growing
Green
Communities

Empowering young
people in climate
change action through
Growing Green
Communities

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- Vice-president, Swiss School of Public Health
- Chair, SSPH+ Summer School in Public Health Policy, Economics, and Management

Why this matters

**NCDs cause 70% of deaths globally
~37% in low-income countries
~88% in high-income countries**

Most are result of 4 behaviours:

- tobacco use
- physical inactivity
- unhealthy diet
- harmful use of alcohol

That lead to 4 key risk factors:

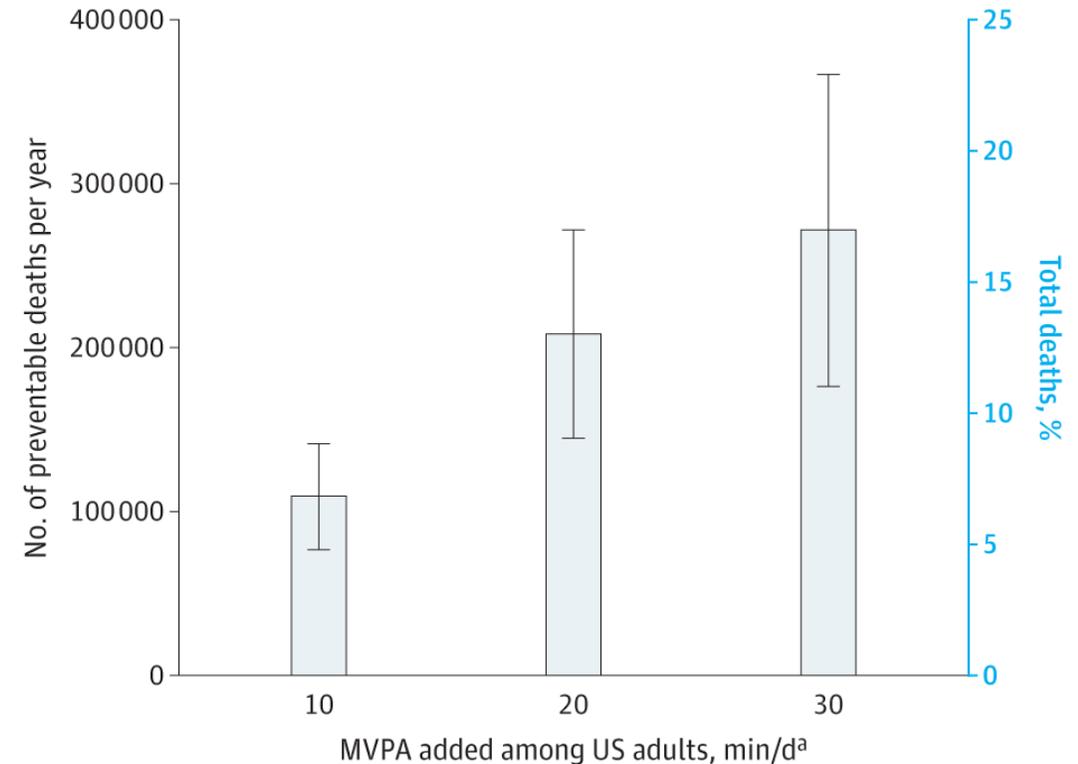
- raised blood pressure
- raised blood glucose
- raised cholesterol
- overweight/obesity

Behavior: Tobacco use

- Kills up to ½ of its users.
- Kills > 8 million people each year.
 - > 7 million of those deaths are the result of direct tobacco use while
 - ~1.2 million are the result of non-smokers being exposed to second-hand smoke.
- Also causes:
 - Lung Cancer, COPD, Heart Disease, Stroke, Asthma, Diabetes, Blindness, Cataracts and Age-Related Macular Degeneration, > 10 other types of Cancer, including Colon, Cervix, Liver, Stomach and Pancreatic

Behavior: Physical Inactivity

More than 110,000 US deaths could be prevented each year if adults > 40 added **10 minutes of daily moderate to vigorous physical activity to their normal routines**



Behavior: Poor diets

Bad diets killing more people globally than tobacco, study finds

Eating and drinking better could prevent one in five early deaths, researchers say



▲ While sugar and trans-fats are harmful, the biggest problem is the lack of healthy foods in our diets, researchers found. Photograph: Philip Toscano/PA

- responsible for more deaths (~11m deaths, or 22% of all deaths among adults) than any other risks
- eating & drinking better could prevent 1 in 5 deaths around the world
- while sugar and trans-fats are harmful, more deaths are caused by the absence of healthy foods in our diet
- The biggest problem is: **“not the junk we eat but the nutritious food we don’t eat”**

'The Mediterranean diet is gone': region's children are fattest in Europe

The diet Greece, Spain and Italy are famous for - rich in fruit, vegetables, fish and olive oil - is supposedly the healthiest in the world, but obesity is rocketing



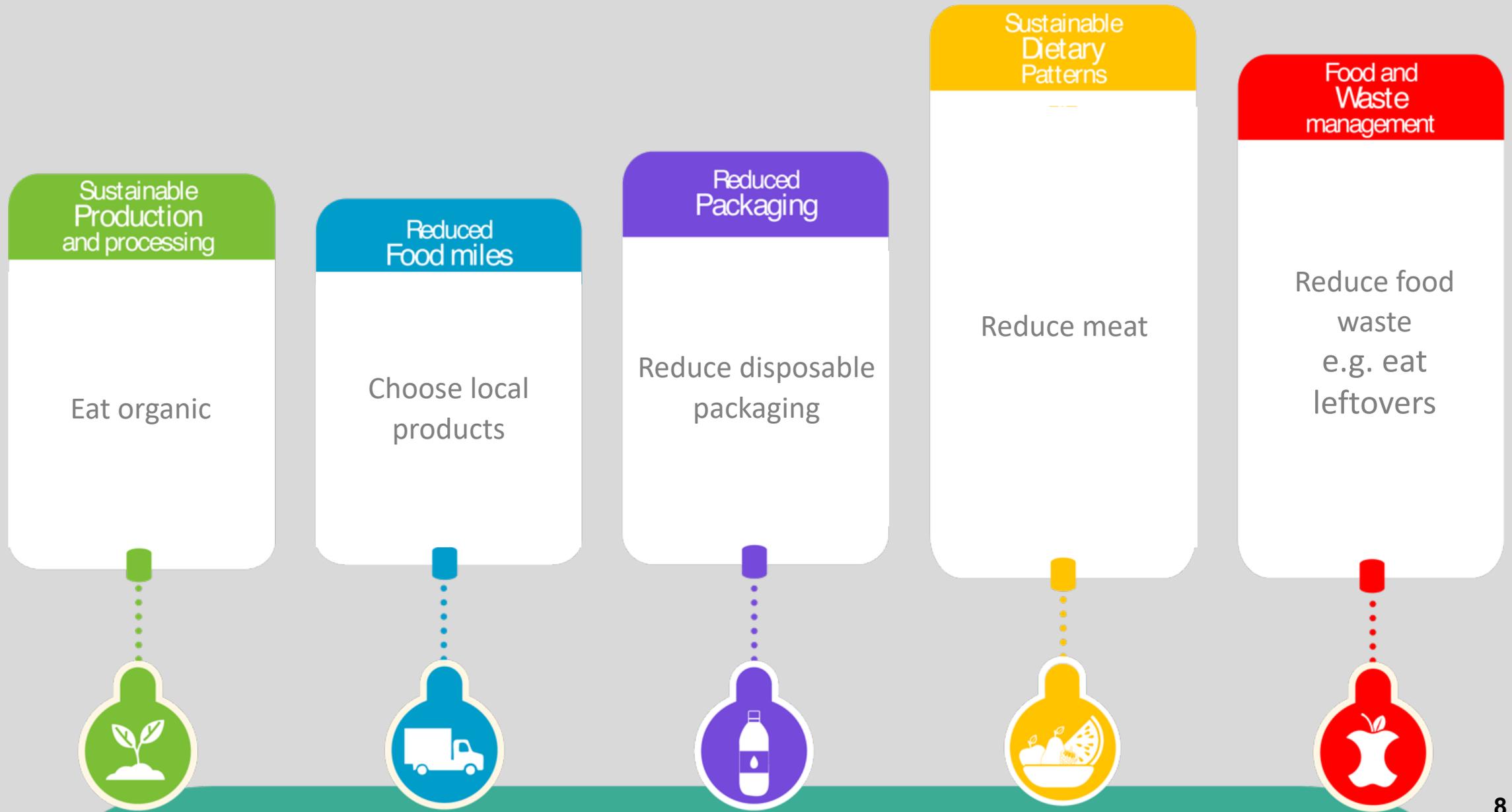
▲ The Mediterranean diet is said to be the healthiest in the world. Photograph: Alamy Stock Photo

The Mediterranean countries which gave their name to the famous diet that is supposed to be the healthiest in the world have children with Europe's biggest weight problem.

Children in **Sweden** are more likely to eat fish, olive oil and tomatoes than those in southern Europe.

Is information enough to
encourage sustainable food
choices?

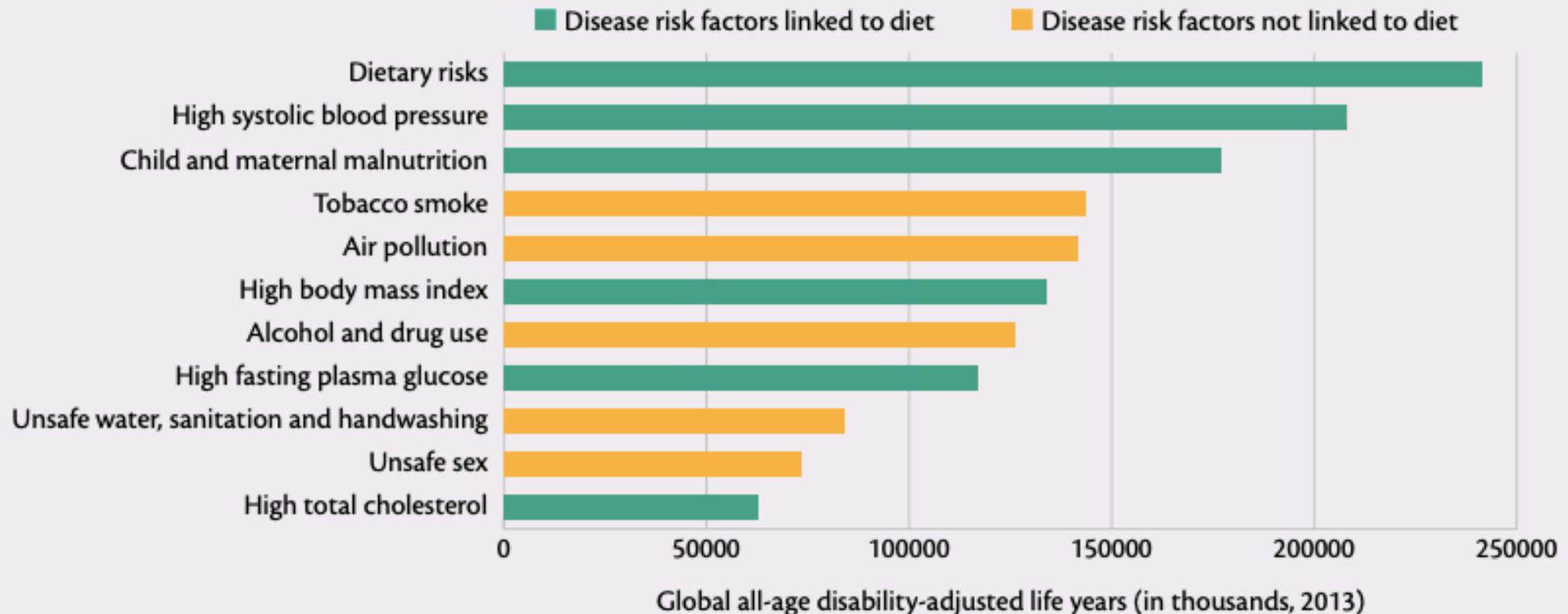
Operationalizing sustainable food consumption behaviours



Food and health

•Global Panel on Agriculture and Food Systems for Nutrition and diets: Facing the challenges of the 21st century. London: sites/default/files/ForesightReport.pdf

FIGURE 1.2: Six of the top 11 risk factors driving the global burden of disease are related to diet

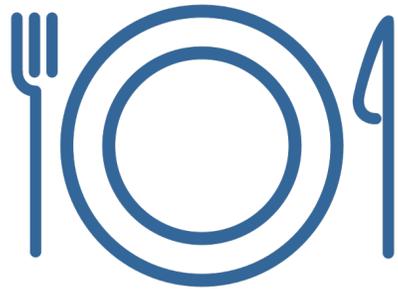


Source: Global Burden of Disease Study 2013 Collaborators (2015), Figure 5

Note: The graph shows global disability-adjusted life years (DALYs) attributed to level 2 risk factors in 2013 for both sexes combined.

Food and the environment

Food systems are responsible for **a third** of global GHG emissions coming from human activity



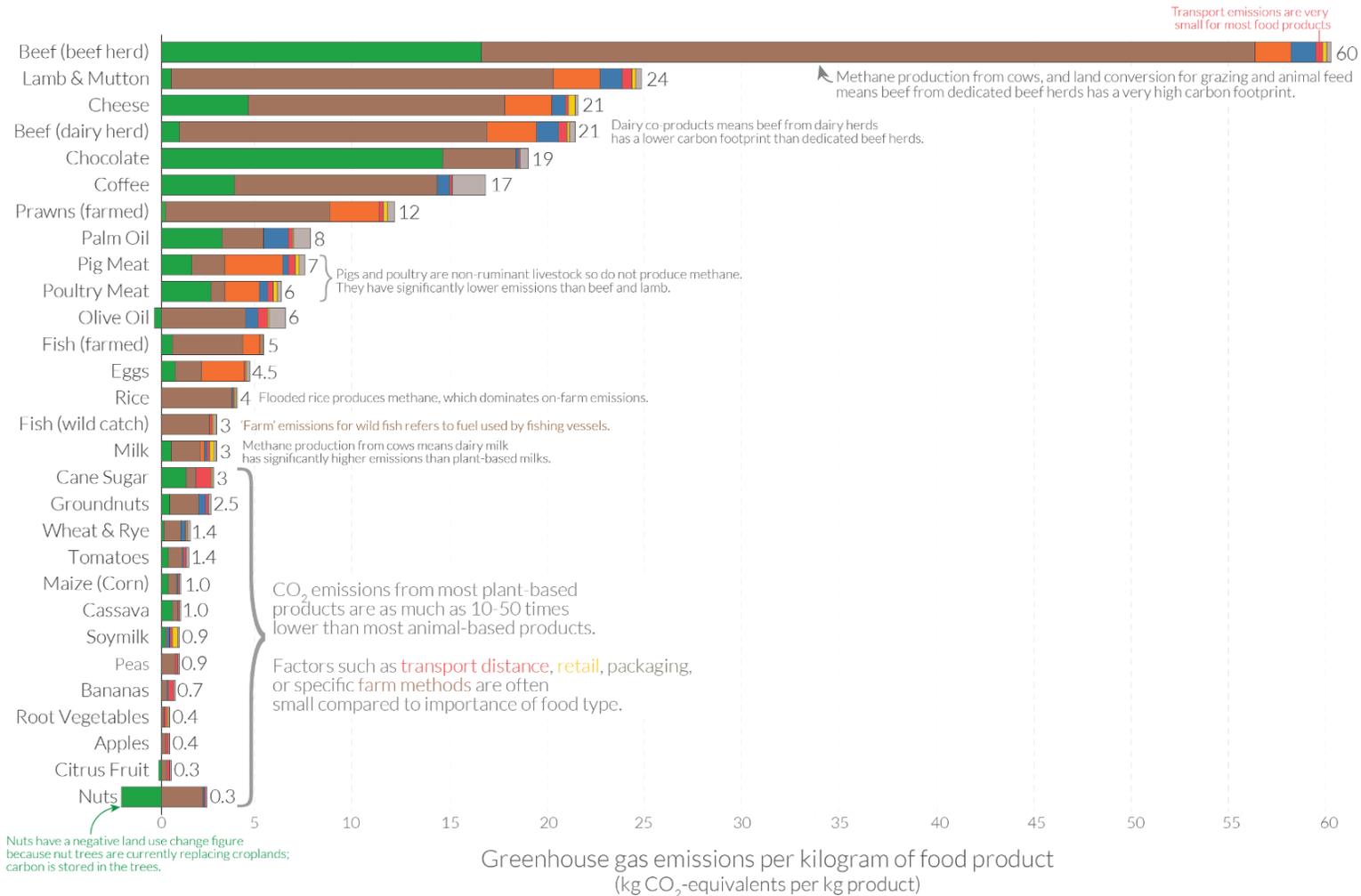
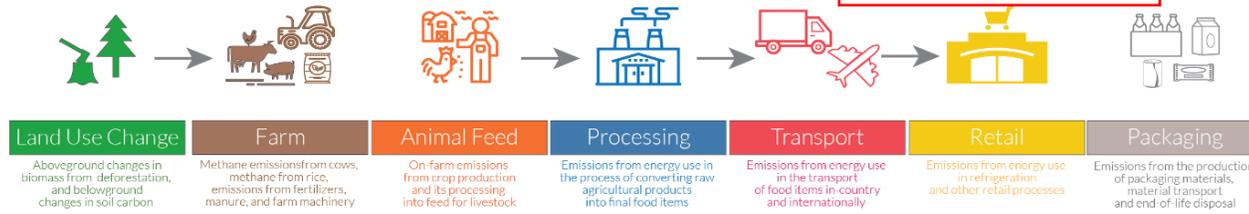
(Crippa et al., 2021)

An orange brushstroke graphic with a textured, hand-painted appearance, serving as a background for the text.

Health and
environmental impact
of foods:

Are they all equal?

Food: greenhouse gas emissions across the supply chain

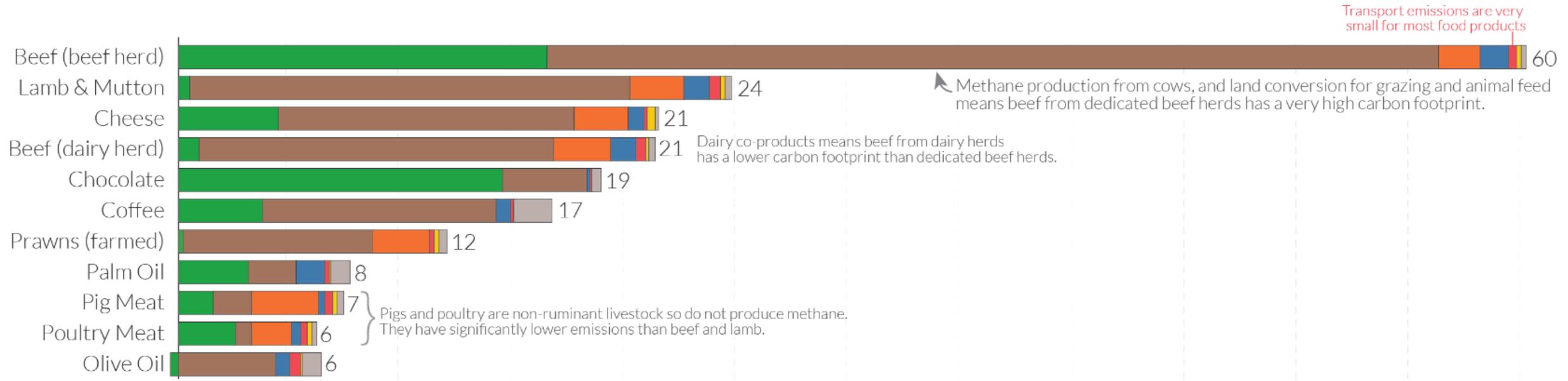


Note: Greenhouse gas emissions are given as global average values based on data across 38,700 commercially viable farms in 119 countries.
 Data source: Poore and Nemecek (2018). Reducing food's environmental impacts through producers and consumers. *Science*. Images sourced from the Noun Project.
 OurWorldinData.org - Research and data to make progress against the world's largest problems. Licensed under CC-BY by the author Hannah Ritchie.

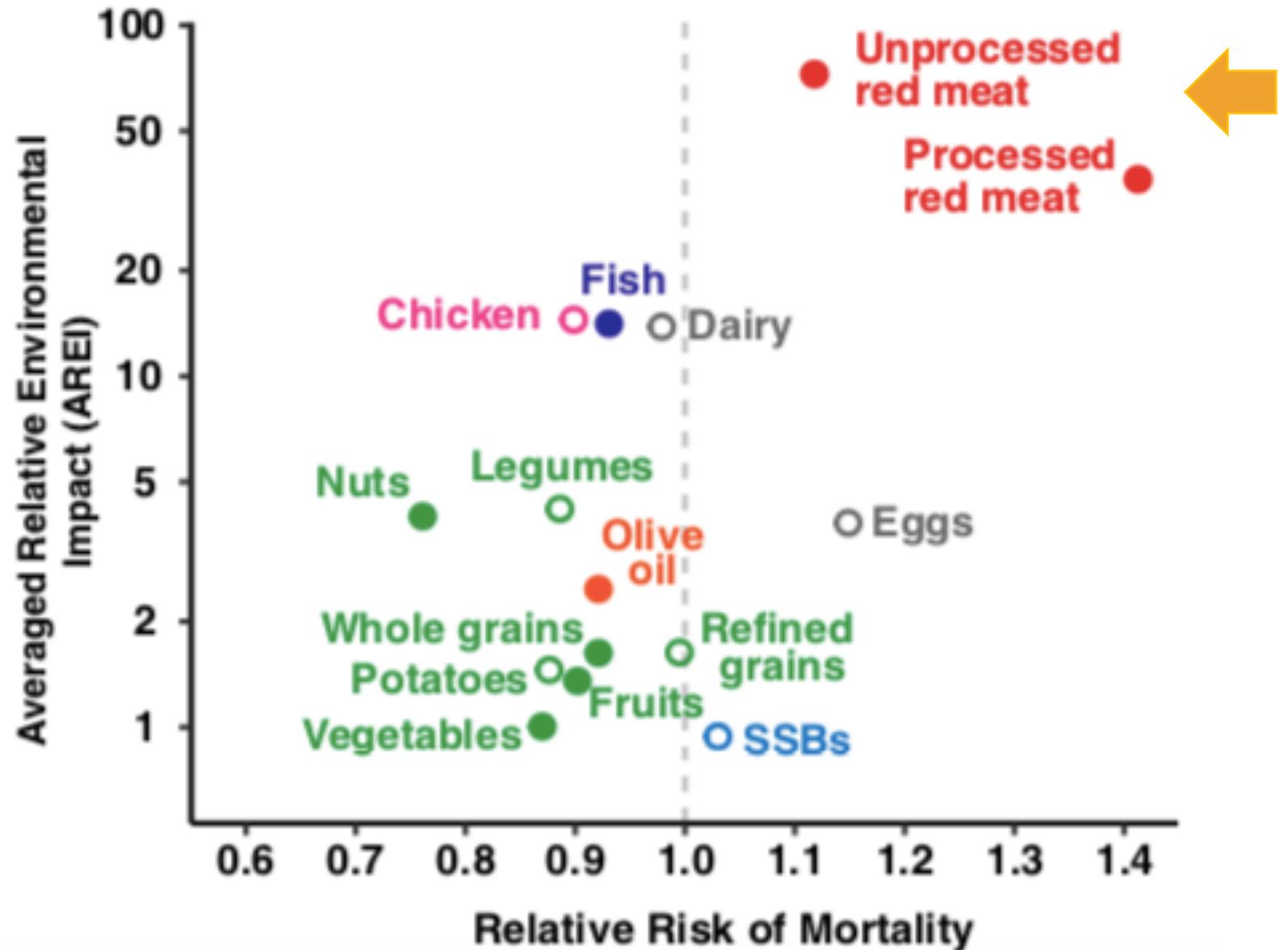
Food: greenhouse gas emissions across the supply chain



Land Use Change	Farm	Animal Feed	Processing	Transport	Retail	Packaging
Aboveground changes in biomass from deforestation, and belowground changes in soil carbon	Methane emissions from cows, methane from rice, emissions from fertilizers, manure, and farm machinery	On-farm emissions from crop production and its processing into feed for livestock	Emissions from energy use in the process of converting raw agricultural products into final food items	Emissions from energy use in the transport of food items in-country and internationally	Emissions from energy use in refrigeration and other retail processes	Emissions from the production of packaging materials, material transport and end-of-life disposal



Health and environmental synergies



Plan your meal

Order dishes of each day from the highest to the lowest climate footprint



Assumptions:

- Food chain stages from production to cooking are considered
- Mostly conventional agriculture (e.g. no organic)
- Most meats are local

RULES

Do not mix days

No google, or external help

	kg CO2- eq/m		kg CO2- eq/m		kg CO2- eq/m		kg CO2- eq/m		kg CO2- eq/m
Monday	ea	Tuesday	ea	Wednesday	ea	Thursday	ea	Friday	ea
BEEF MEATBALLS	3.22	DÜRÜM KEBAB	3.43	CHILI CON CARNE	2.65	BEEF BURGER	2.49	VEAL BRATWURS T	3.18
FISH FILLET SEA BREAM	1.08	THAI CHICKEN	1.13	ROASTED CHICKEN	1.15	PASTA ALL'AMATRI CIANA	0.67	FISH FILLET TILAPIA	0.87
RISOTTO	0.54	MUSHROO M BURGER	1.01	VEGGIE CARBONAR A	0.47	NASI GORENG	0.65	HUMMUS PLATTER	0.64
DÜRÜM FALAFEL	0.36	BLACK LENTILS	0.23	THAI "BUTTER" BEANS	0.28	VEGGIE SCHNITZEL	0.45	VEGGIE CHILI	0.54

Choosing Imagery in Advertising Healthy Food to Children

Are Cartoons the Most Effective Visual Strategy?

Maria Lagomarsino, L. Suzanne Suggs

DOI: 10.2501/JAR-2018-003 Published 19 February 2018



We wanted to know:

- Do children know what foods are healthy or unhealthy?
- Do children like healthy foods?
- How to communicate with children in such a way that it motivates them to eat healthy food?



Experimental design – Card sort

N=100 children (first class of elementary school), 8 classes from 5 schools in Ticino

Mean age: 6.4 years old. 56% Girls



Exercise 1
What they like
Tasty-categorization

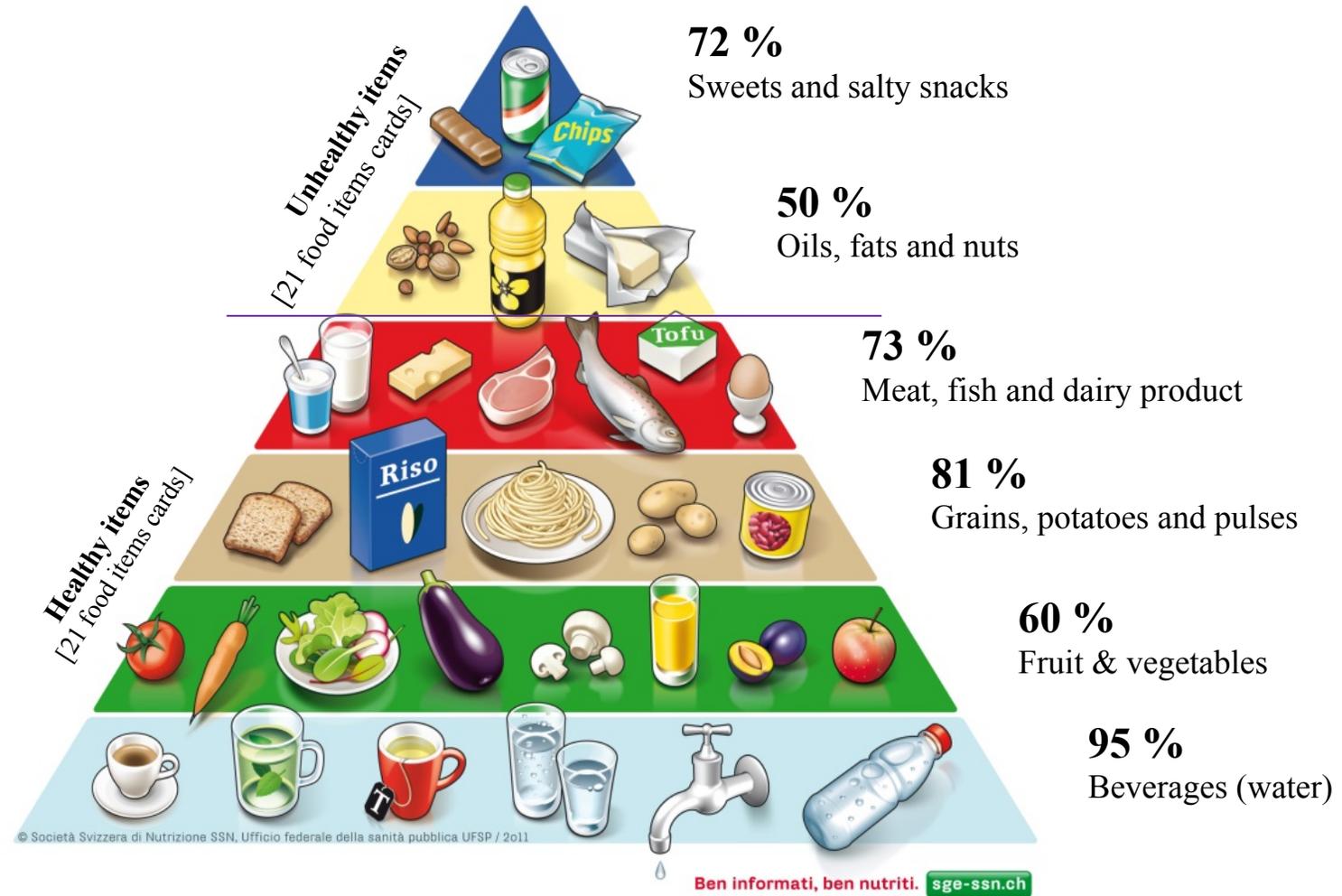
Exercise 2
What they know
Healthy-categorization

Exercise 3
What motivates them
Visual techniques



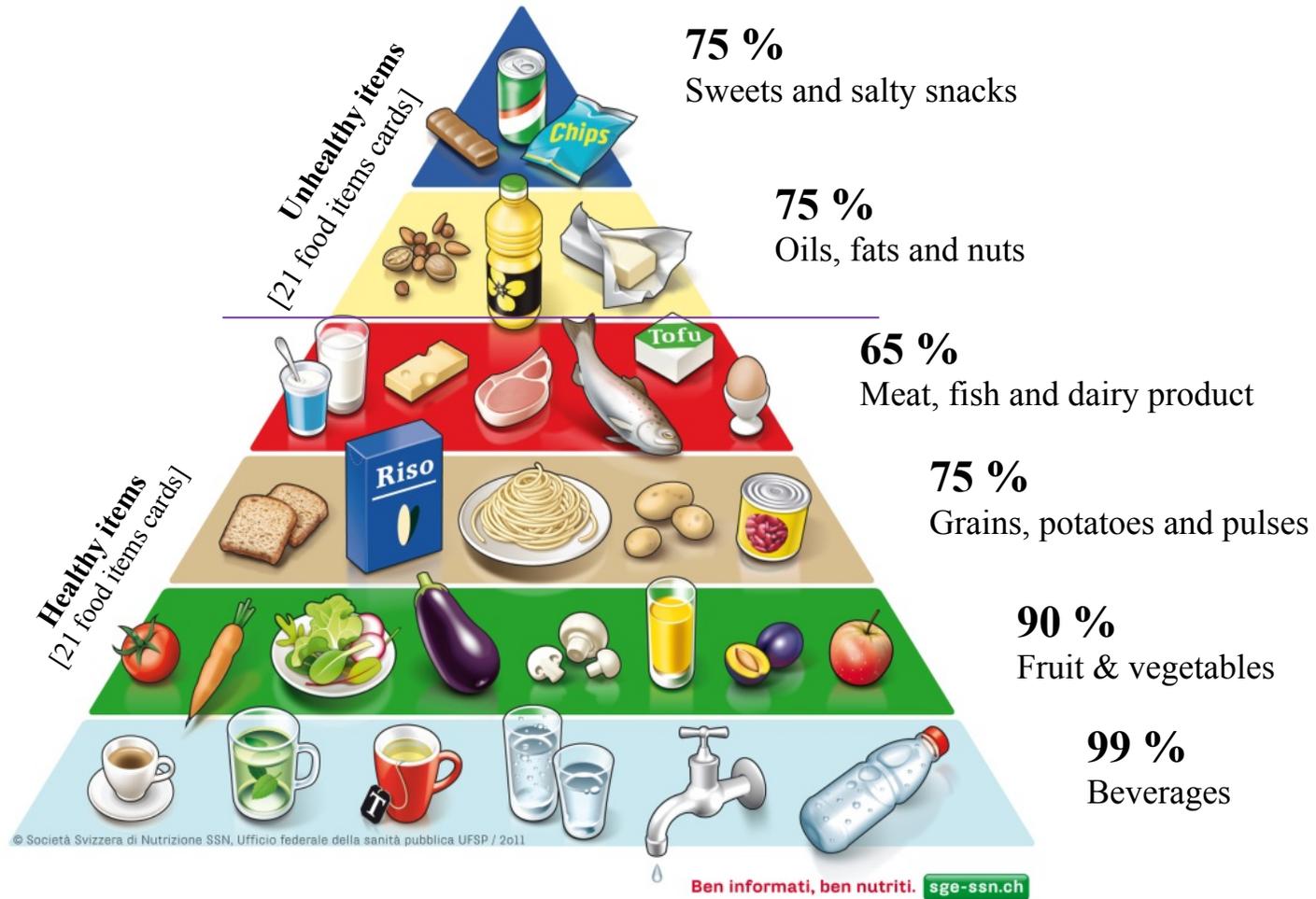
Exercise 1:

Percentage of children that liked the foods



Swiss Food Pyramid (SSN, 2011)

Exercise 2: Percentage of children that correctly categorized foods.

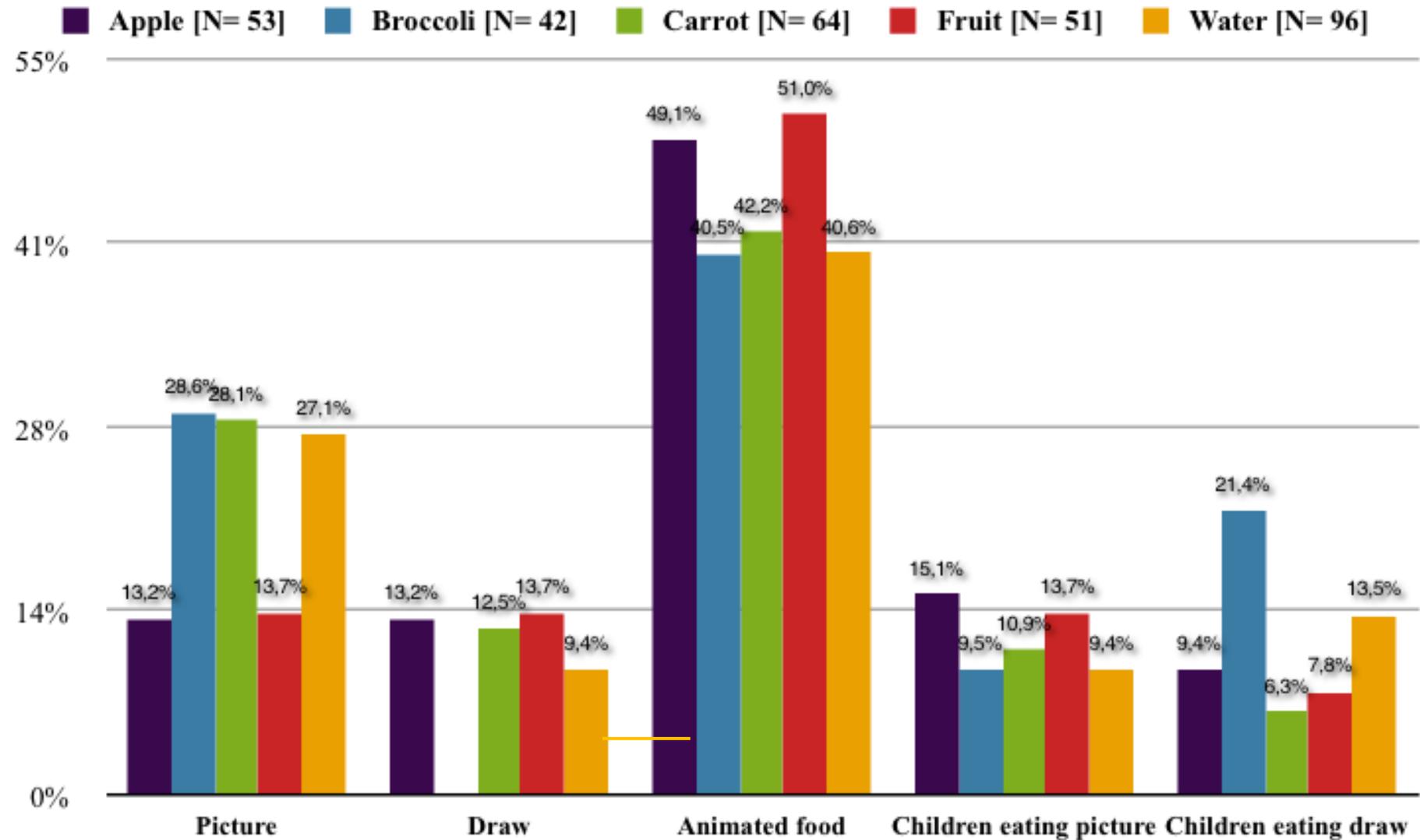


Swiss Food Pyramid (SSN, 2011)

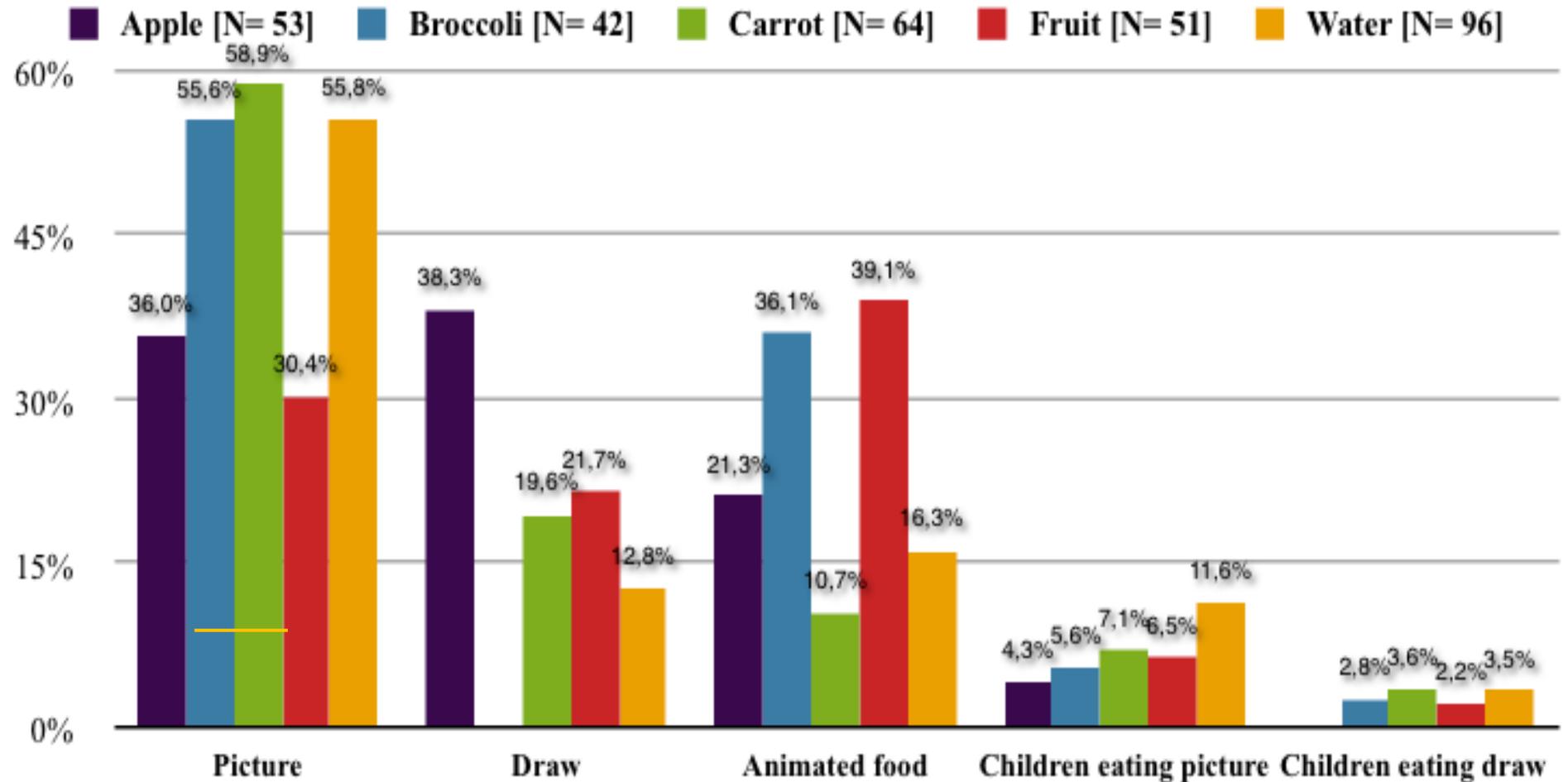
Exercise 3:

Food item cards	Visualizations				
	Style of display: Only the food			Style of display: Food displayed while being consumed	
	Photo	Drawing	Cartoon	Photo of children consuming the food	Drawing of children consuming the food
	Fantasy: No	Fantasy: Low	Fantasy: High	Fantasy: No	Fantasy: Yes
Apple cards					
Broccoli cards					
Carrot cards					
Fruit cards					
Water cards					

Exercise 3: Visual Techniques preferred



Exercise 3: Visual Techniques of food they thought was tasty



Conclusions



- **Understanding:**

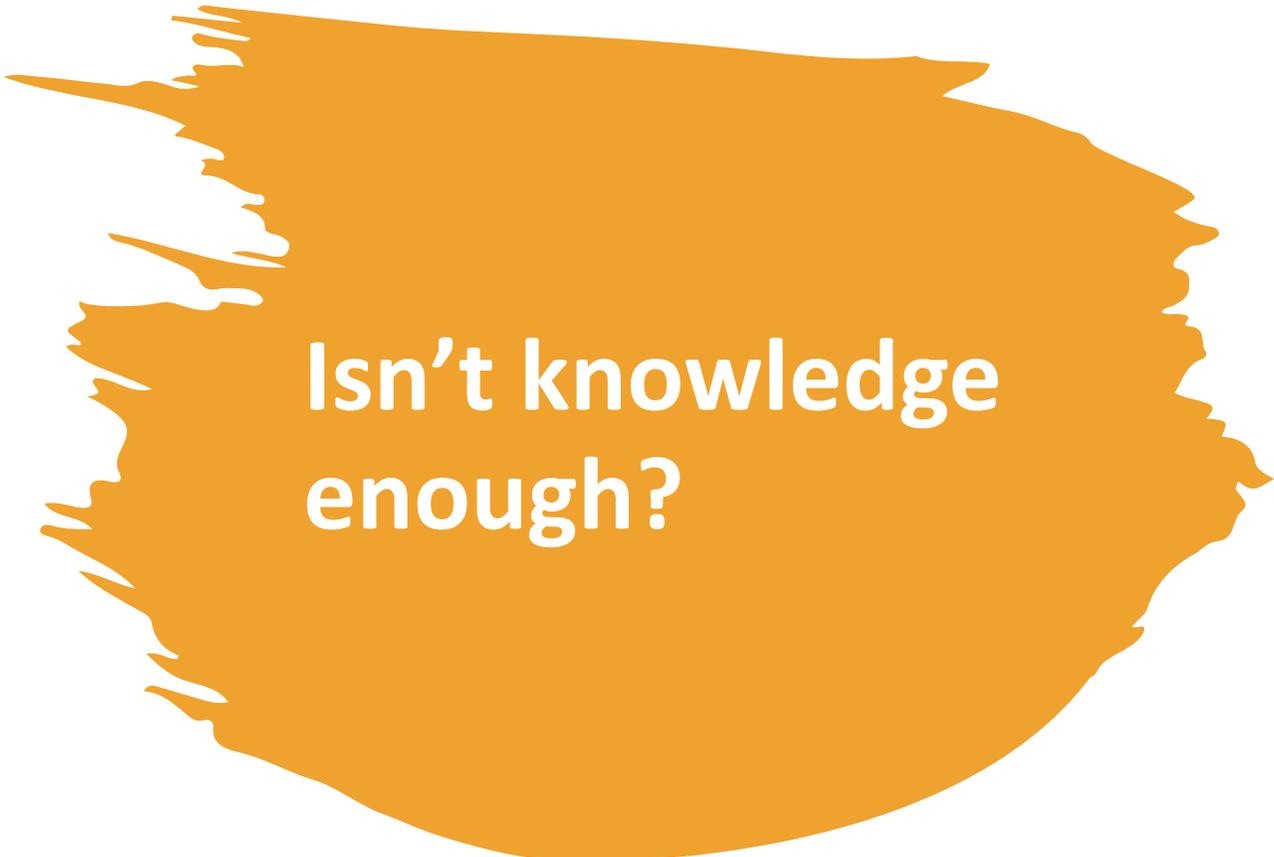
- Children like healthy food
- Children know what foods are healthy and unhealthy.

- **Promoting:**

- If the aim of food promotion is to attract children, then cartoons seem to be effective.
- If the aim is to increase the likelihood that a child will want to eat it, then the use of photos may be the most effective visualization to employ.

- **Behavior:**

- Given a choice, they choose unhealthy foods

An orange brushstroke graphic with a rough, hand-painted edge, containing the text "Isn't knowledge enough?".

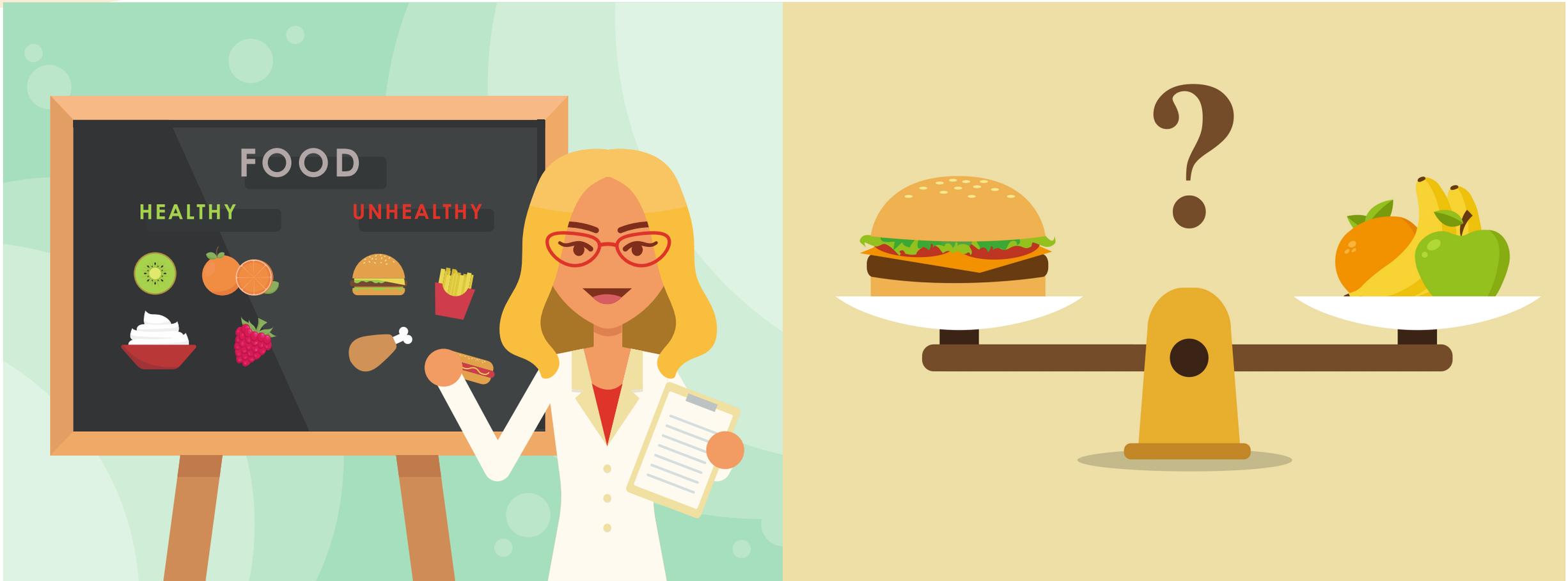
Isn't knowledge
enough?

“It would be easy to give the public information and hope they change behavior, but we know that doesn’t work very satisfactorily.

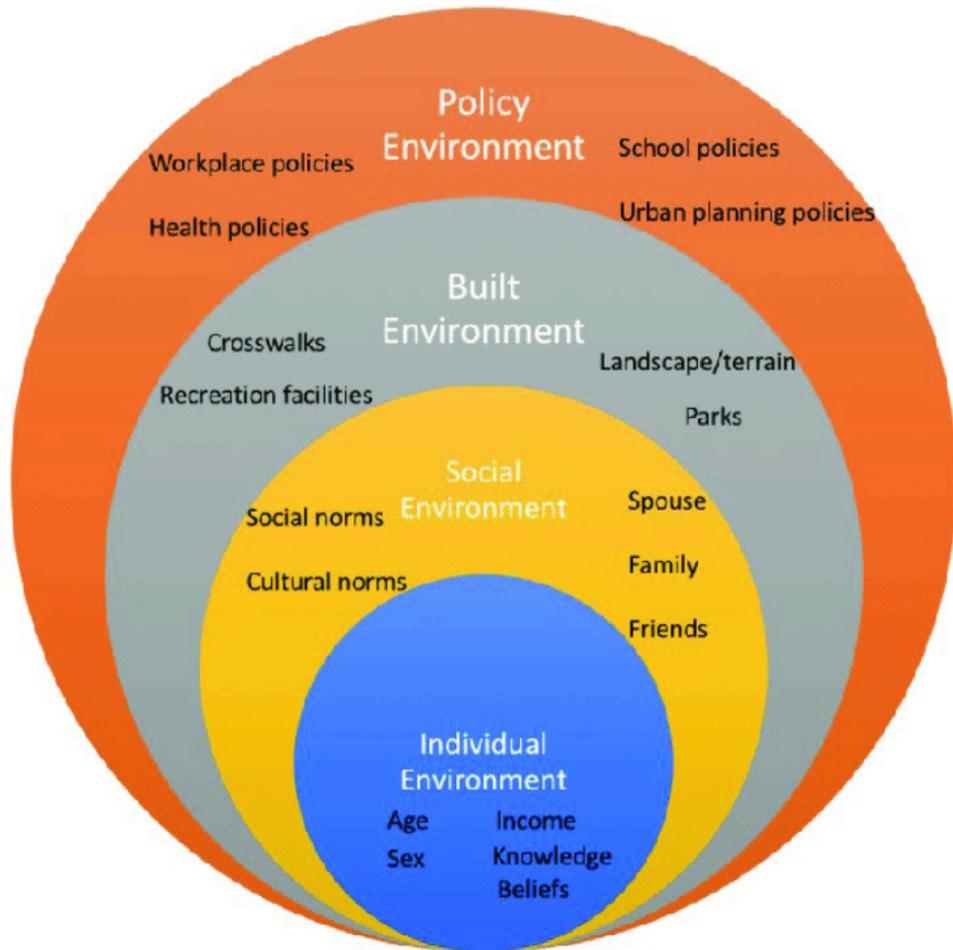
[If it did] none of us would be obese, none of us would smoke and none of us would drive like lunatics.”

- Ian Potter, Director of the New Zealand Health Sponsorship Council

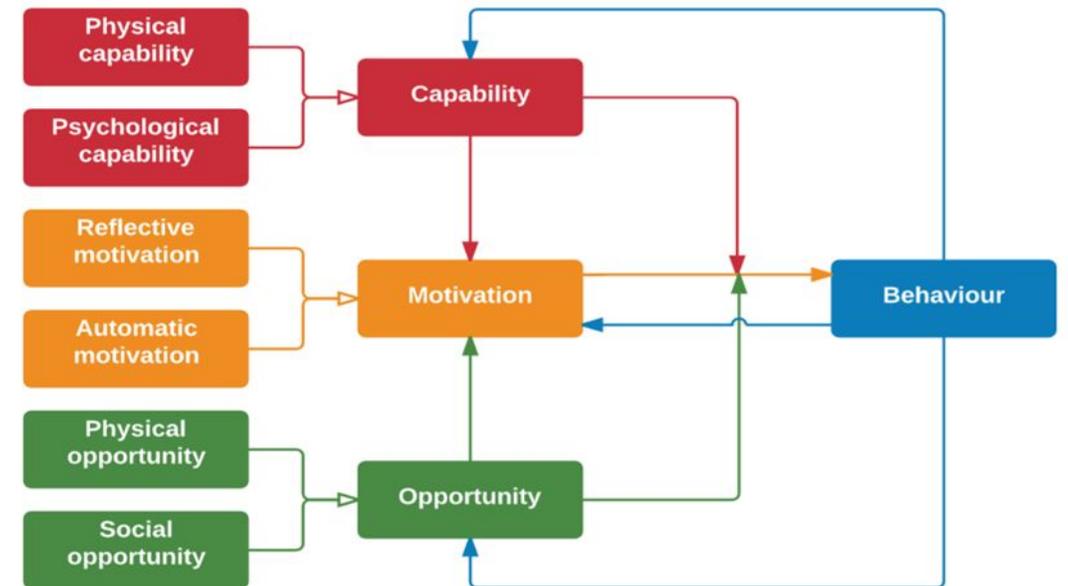
Why do we do what we do?



What determines behavior?



COM-B model of behaviour change



Continuum of behavior change approaches



Tell me: Information



Each serving (150g) contains

Energy 1046kJ 250kcal	Fat 3.0g LOW	Saturates 1.3g LOW	Sugars 34g HIGH	Salt 0.9g MED
13%	4%	7%	38%	15%

of an adult's reference intake

Typical values (as sold) per 100g: 697kJ/ 167kc

Help me: Opportunities / Nudge



Show me: Educate (Capabilities)

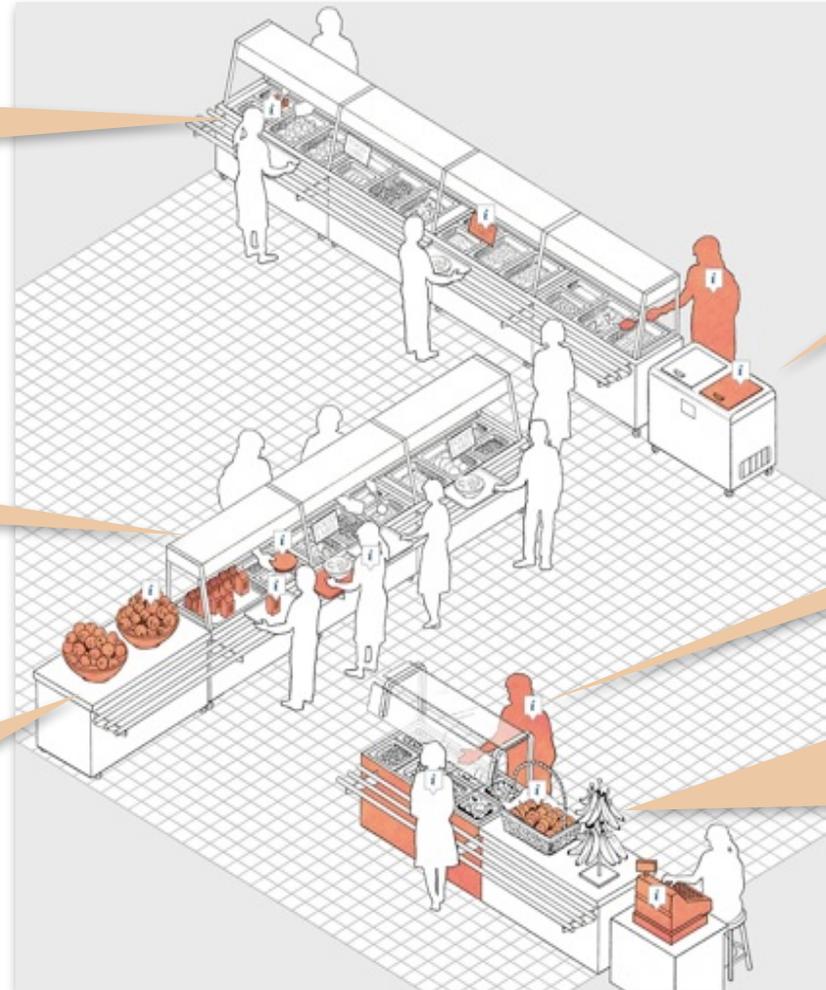


Help me: Nudge (Opportunities)

Move the vegetables to the start of the queue

Shrink the plate

Use glass bowls for fruit



Hide the ice cream.
Close the lid

Move salad bar away
from wall

Make an express line that
emphasis on healthy products

An orange brushstroke graphic with a rough, hand-painted edge, containing the word "Marketing" in white text.

Marketing

- **“The aim of marketing is to know and understand the customer so well the product or service fits them and sells itself.”**
 - Peter F. Drucker
- The right product, in the right place, at the right time, at the right price
 - Adcock

Social Marketing



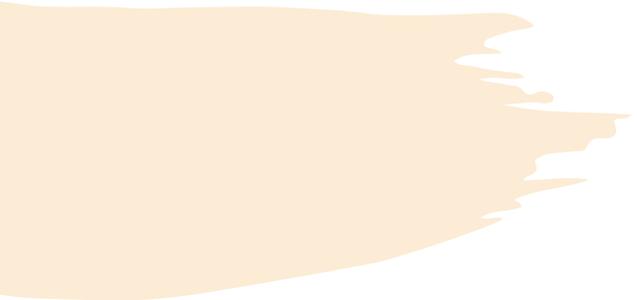
- Develop and integrate marketing concepts with other approaches to *influence behaviour* **that benefit individuals and communities for the greater social good.**
- Social Marketing practice is guided by **ethical principles**. It seeks to integrate research, best practice, theory, audience and partnership insight, to inform the delivery of competition sensitive and segmented social change programmes that are effective, efficient, equitable and sustainable.

GLOBAL WARMING CLIMATE CHANGE



1. What causes this?
2. Where and how should we intervene?

- Social Marketing understands determinants of behaviors that lead to social problems
- THEN designs strategies to change behavior



**Determinants
of behavior**

Personal or individual

Social

Economic

Environmental

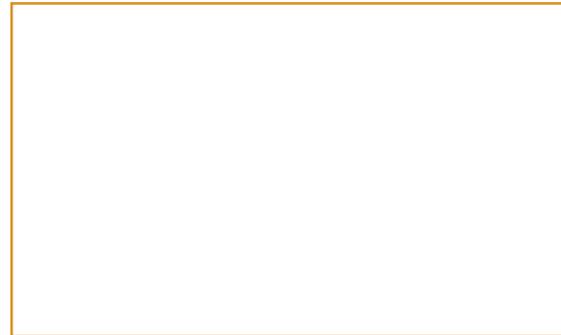
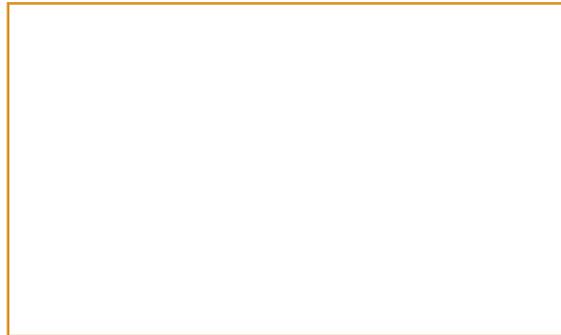
An orange brushstroke graphic with a rough, hand-painted edge, containing white text.

Social Marketing =
understanding what
people value and
showing how health
fits in to that

“**Listen** to consumers and what they really care about in terms of an issue ...

So begin with them, rather than beginning with us.”

“Bill” Smith, EdD, PhD, President, Making Change4u, Washington, DC



1. Customer Orientation

- Develops a robust understanding of the audience, based on good market and consumer research, combining data from different sources.



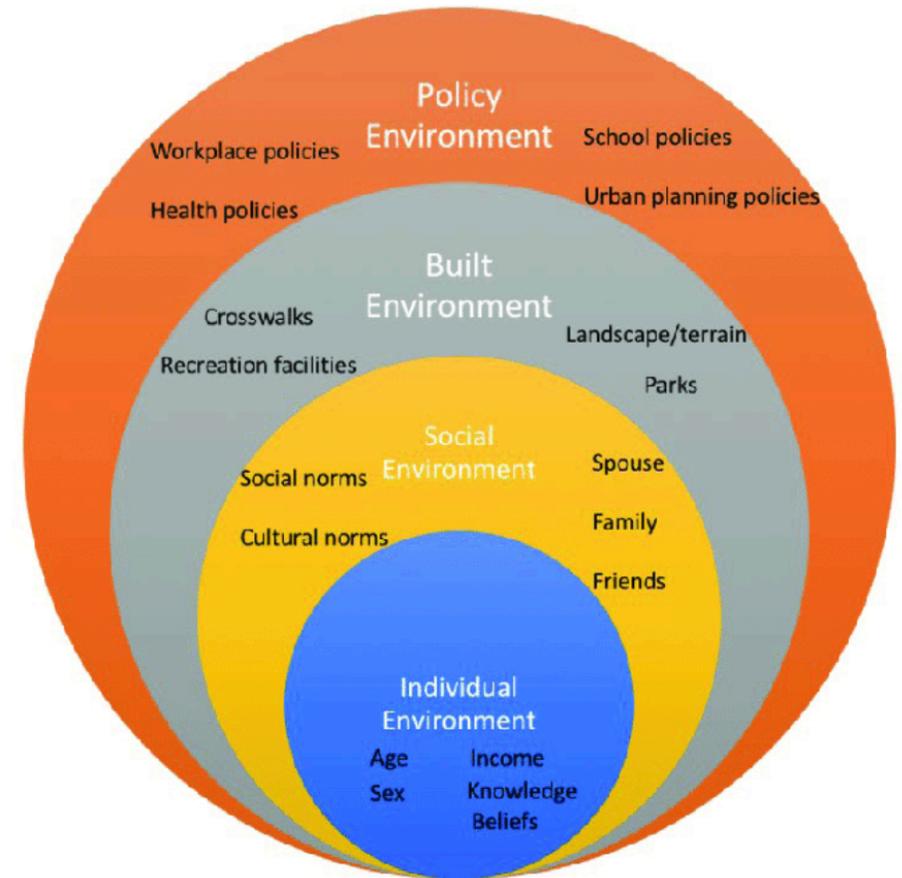
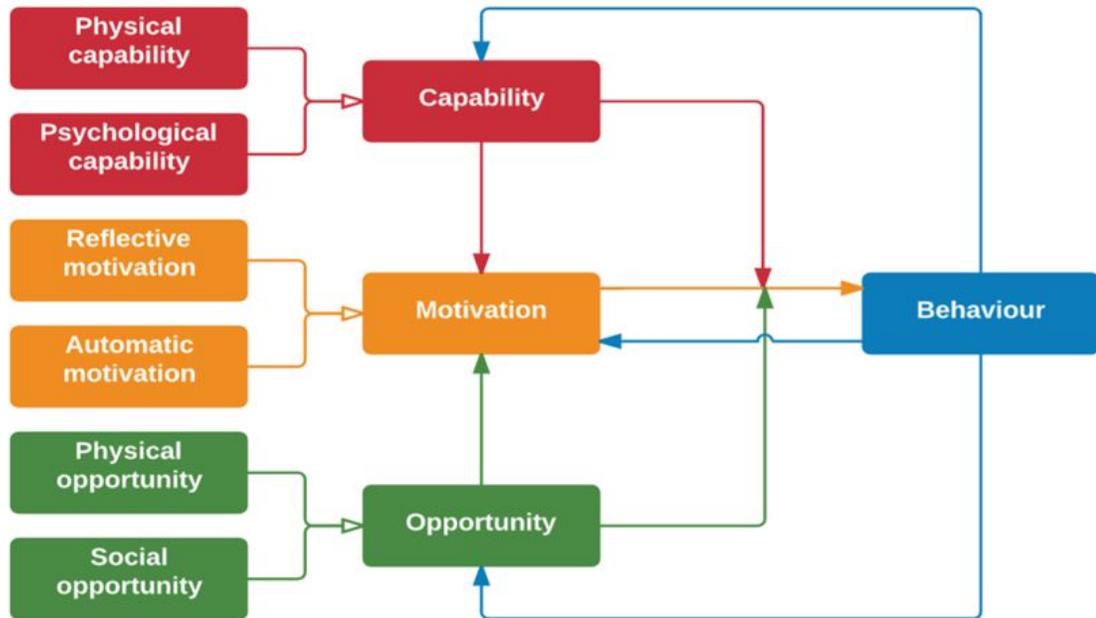
2. Behavior

- Has a clear focus on behavior, based on a strong behavioral analysis, with specific behavior goals.



3. Theory

- Behavioral theory-based and informed.
- What determines behavior?



Social ecological model. Adapted from Sallis et al, 2006.

BEHAVIOURAL INSIGHTS

SMART POLICIES YOU BY BI

Help me: understand motivators of eating behavior

We want to feel things, experience things & food can help make those emotional connections

Taste and liking:

What do I feel like eating

Convenience:

What is easy & affordable

Cultural influence:

This is how we have always eaten

Social influences:

Everyone is drinking sugary drinks

Short term gains vs long term gains:

If I drink this fizzy drink now, it will make me feel happy and energized

Loss Aversion:

If I don't get that McDonalds deal today, I might miss out

5. Exchange

- Incorporates an 'exchange' analysis.
- Understanding what the person has to give to get the benefits proposed.
- including emotions, trust, commitment, and collective behavior.



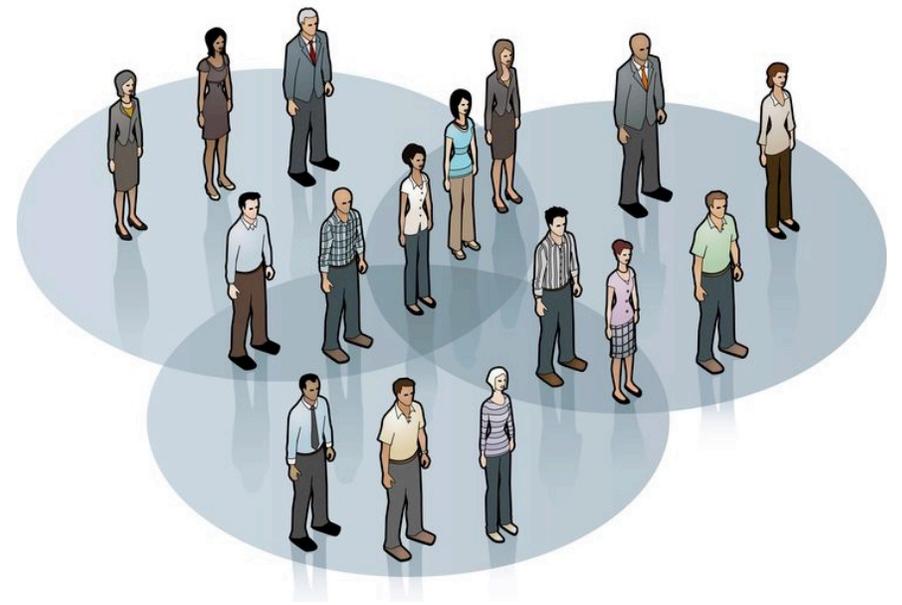
6. Competition

- Incorporates a 'competition' analysis to understand what competes for the time and attention of the audience.

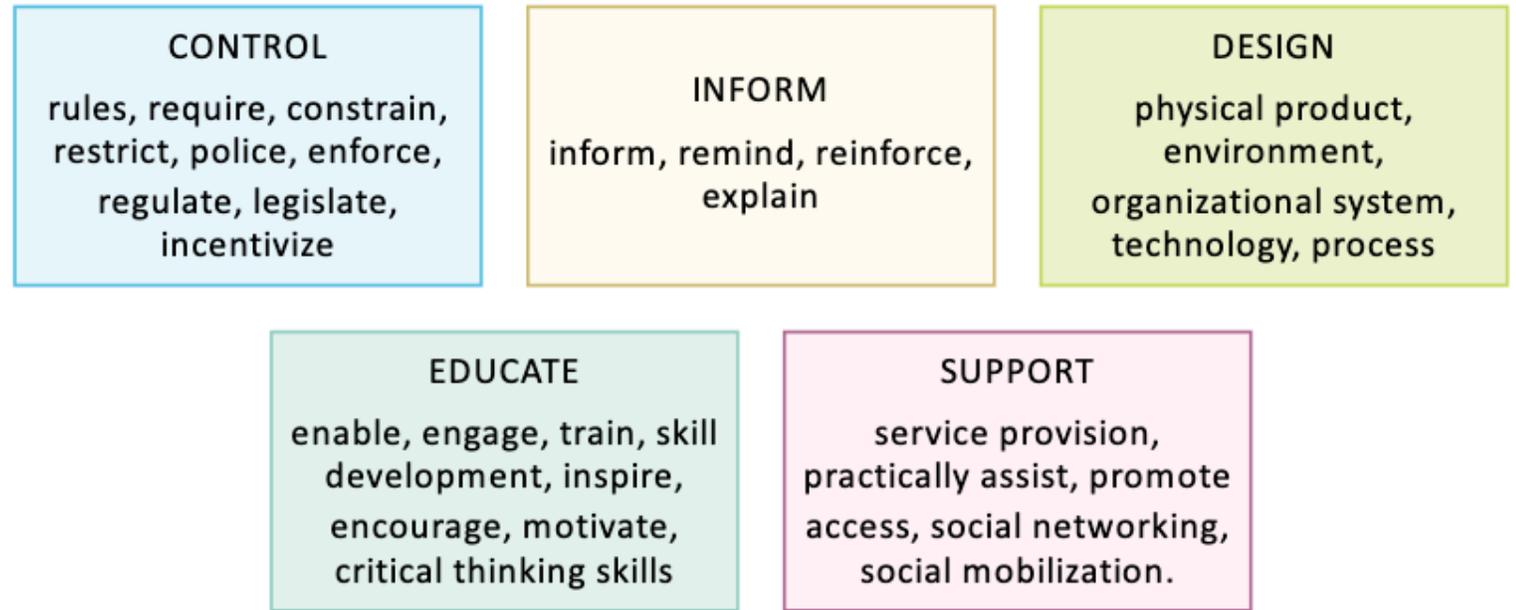


7. Segmentation

- Uses a developed segmentation approach (not just targeting). Avoiding “one size fits all” approaches.
- Identifies groups who share similar views and behaviors and can be influenced in similar ways.
- Who influences who?



8. Methods Mix



- 6 P's: product, place, price, promotion, policy, partnerships
- Identifies an appropriate 'mix of methods'
- Avoids reliance on single methods or approaches used in isolation
- Methods and approaches developed, taking full account of any other interventions in order to achieve synergy and enhance the overall impact

Aims of communication

• Inform and Empower

- Science communication
- Evidence communication



- Inform, not persuade
- Offer balance, not false balance
- Disclose uncertainties
- State evidence quality
- Inoculate against misinformation

• Inform, Empower, and Motivate

- Persuasive communication



- address the audience's needs, values and desires
- interaction between the recipient of the message and the source of the message, who consciously tries to influence the recipient's attitudes or behaviors by means of a specifically designed persuasive message

Persuade vs only inform or educate



BONUS: **SIMPLICITY**— If you want more of something make it easy. If you want less, make it hard.

social influences

- The model for the celebrity shot dates to 1956, when few teenagers were getting the year-old polio vaccine.
 - immunization levels among American teens were at an abysmal 0.6 %
- 2 critical things happened that fall to reverse the trend.
 1. 21-year-old Elvis Presley got the shot in front of cameras before “The Ed Sullivan Show.”
 2. the March of Dimes launched a wildly successful peer-to-peer campaign among teen social groups. In short, it leveraged the cool kids, **but** it may not have gotten the cool kids without the “King” (Elvis)

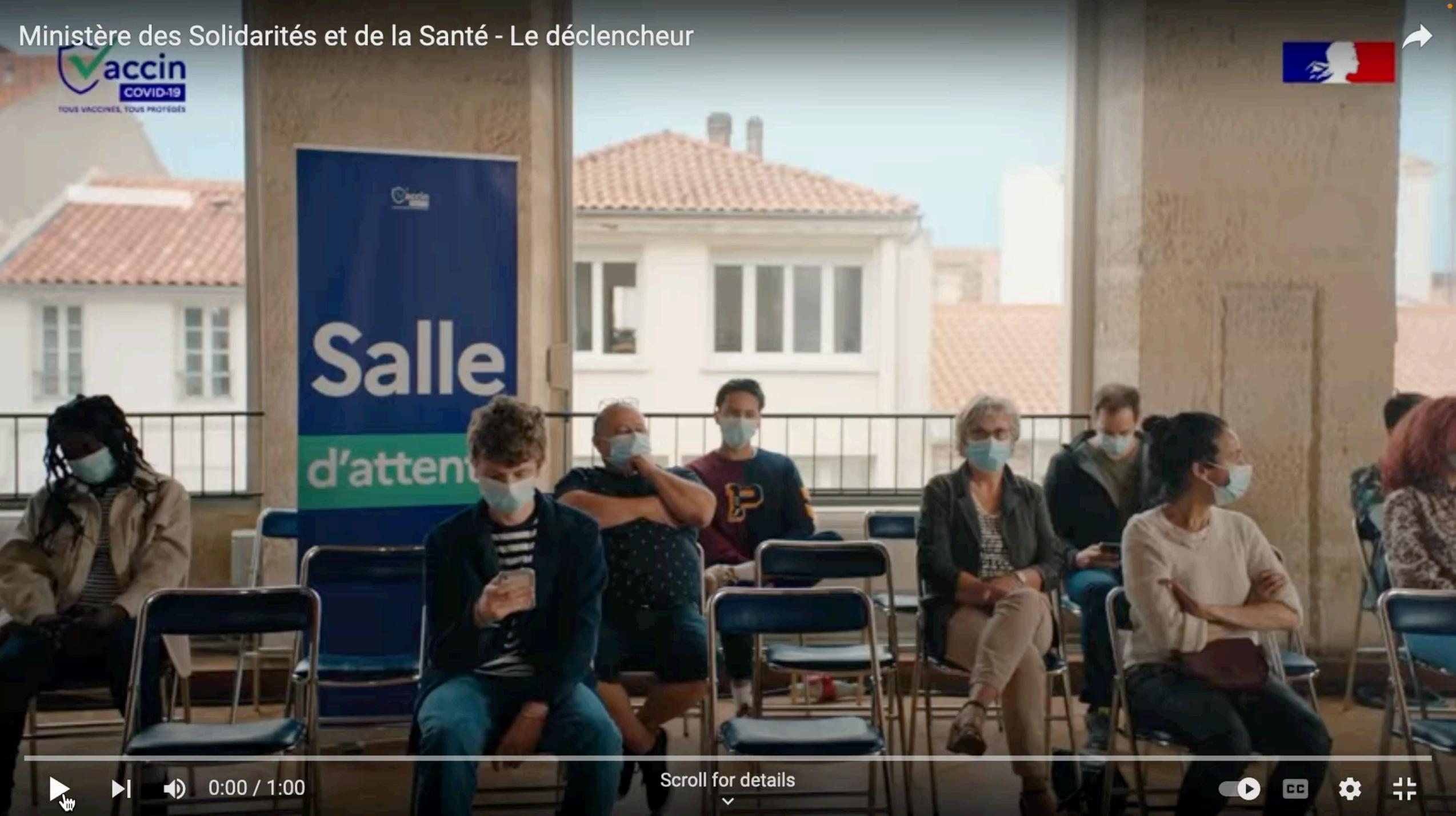


Elvis Presley is vaccinated on The Ed Sullivan Show, 1956. Credit: Getty Images

- after Elvis publicly got vaccinated against Polio,
 - vaccination rates among American youth skyrocketed to **80% after 6 months** (up from .6%)
- Elvis's public act contained 3 crucial ingredients inherent to many of the most effective behavioral change campaigns:
 - social influence,
 - social norms,
 - vivid examples



Salle
d'attente



**Think like a
social marketer
to make
communities
greener and
health people
and planet**

