

A highway to greenness

Analysing green narratives in car brands' adverts



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SCHOOL OF DESIGN

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LM in Communication Design
Sez. C3 — 2022/2023

*A highway to greenness. Analysing green narratives
in car brands' adverts*

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The automotive sector and greenwashing: quick overview

During these last decades, the automotive industry seems to have taken some steps towards “sustainability”, by increasing fuel efficiency and developing hybrid and “emission-free” powertrains*. Despite this, it is still often accused of greenwashing, since many brands still don’t plan to cease the production of internal combustion engine vehicles nor to stop collaborating or lobbying with fossil fuel companies, even when their line-up is “fully electric”. And when it comes to batteries, there lays the problem of mining rare-earth metals.

** (in a motorized vehicle) the whole mechanism by which power is generated and transmitted to the road, surrounding air, water, etc. (Collins English Dictionary, n.d.)*

Research objectives, chosen platform (YouTube), and dataset

We decided to investigate some of the communication strategies that car brands adapt to make their models appear more “eco-friendly” in their video advertisements. More specifically, we analysed 30 internal combustion engine (ICE), 30 hybrid electric (HE) and 30 battery electric (BE) models—for a total of 90 different vehicles—to see if they present them differently according to their propulsion.

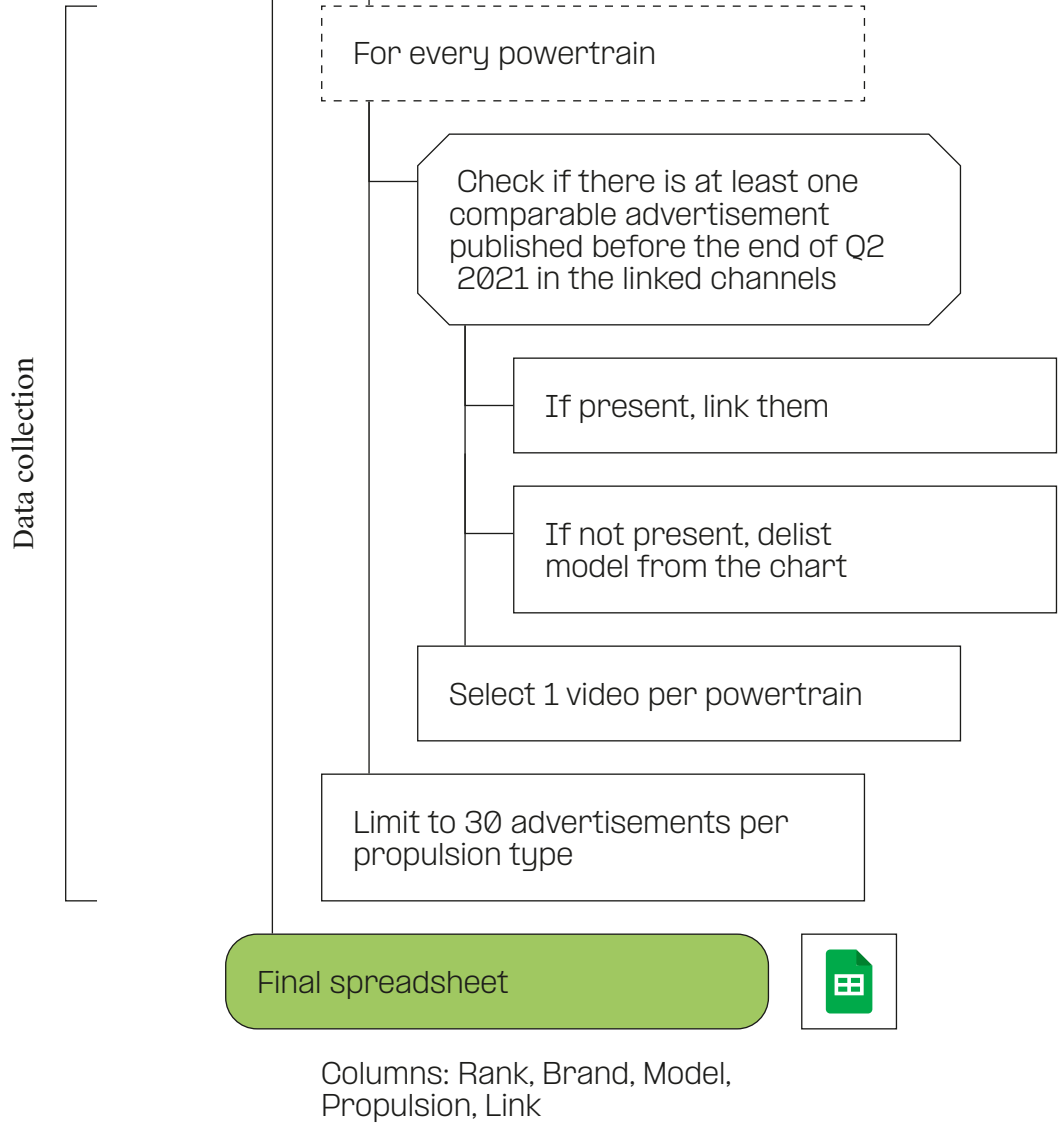
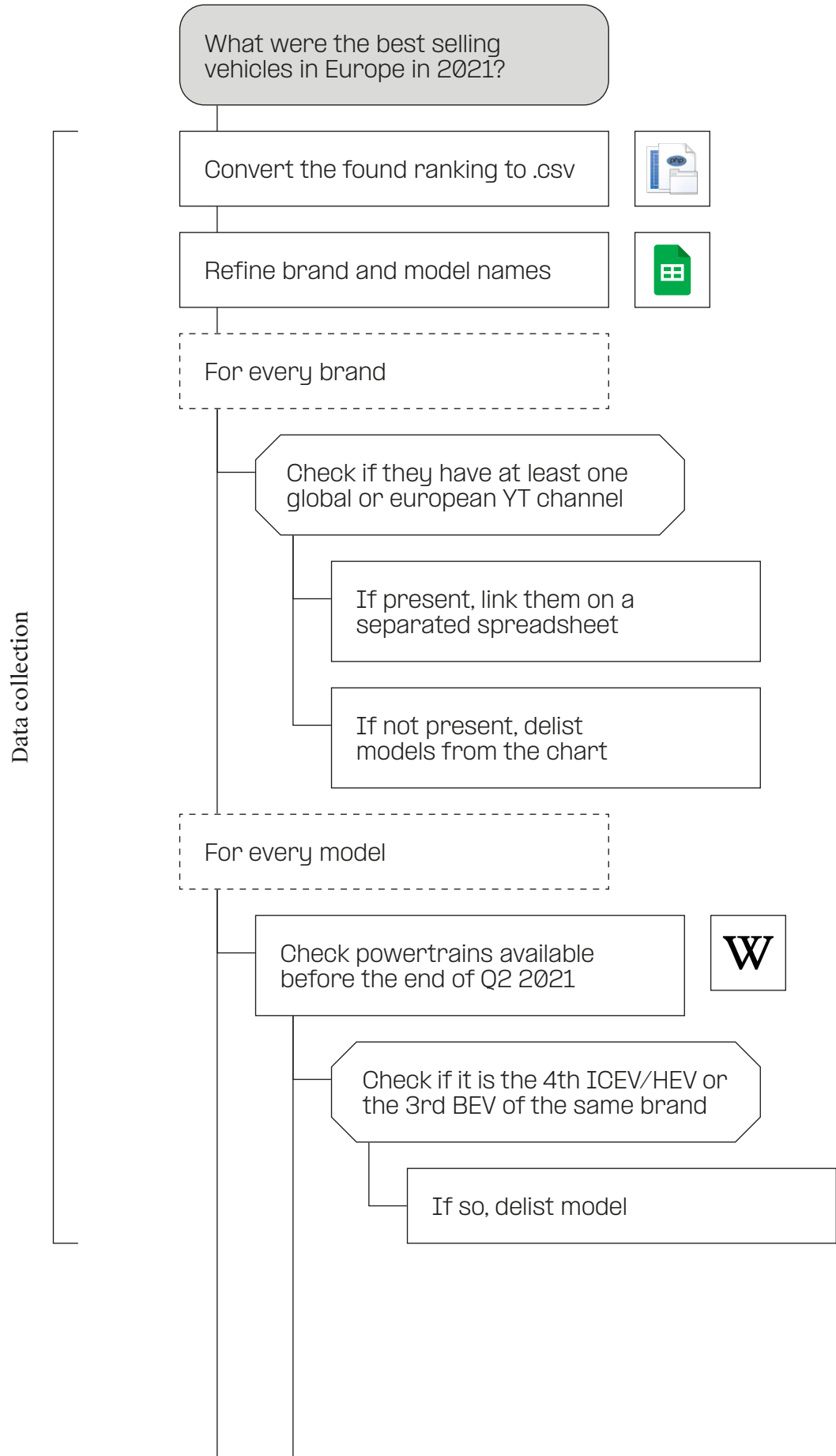
In order to have a series of comparable and relevant advertisements across as many brands as possible, we focused on the ones published on YouTube, starting from a ranking of all the models sold in Europe in 2021 by number of sales, published in an article written by Demandt (n.d.).

Picked models

Rank	Brand	Model	Propulsion
1	Volkswagen	Golf	ICE
3	Peugeot	208	BE
5	Peugeot	2008	BE
6	Opel/Vauxhall	Corsa	BE
7	Volkswagen	T-Roc	ICE
8	Toyota	Yaris	HE
9	Fiat	500	BE
10	Renault	Captur	ICE
12	Volkswagen	Polo	ICE
13	Skoda	Octavia	ICE
15	Hyundai	Tucson	ICE
16	Toyota	Corolla	HE
19	Ford	Puma	HE
23	Volvo	XC40	ICE
23	Volvo	XC40 Recharge	BE
24	Mercedes-Benz	A-Class	ICE
25	Mini	Cooper	ICE
25	Mini	Cooper SE	BE
26	Nissan	Qashqai	HE
27	BMW	3-series	ICE
28	Hyundai	Kona	BE
29	Ford	Kuga	HE
33	Seat	Leon	HE
34	BMW	1-series	ICE
35	Audi	A3	ICE
36	Audi	Q3	ICE
37	Skoda	Fabia	ICE
39	BMW	X1	ICE
40	Ford	Fiesta	ICE
44	Volkswagen	Passat	HE
45	Skoda	Kamii	ICE
46	BMW	iX3	BE
47	Opel/Vauxhall	Crossland X	ICE
49	Mercedes-Benz	GLA	ICE
50	Mercedes-Benz	GLC	ICE
51	Skoda	Karoq	ICE
52	Volvo	XC60	HE
53	Volkswagen	ID.3	BE
54	Opel/Vauxhall	Mokka	BE
56	Renault	Zoe	BE
59	Citroën	C3 Aircross	ICE
62	Jeep	Renegade	ICE
62	Jeep	Renegade 4xe	HE
64	Hyundai	i20	ICE
65	Audi	Q5	ICE

Dataset

Rank	Brand	Model	Propulsion
68	Suzuki	Swift	HE
70	Opel/Vauxhall	Astra	ICE
77	Suzuki	Vitara	ICE
78	Jeep	Compass	ICE
80	Ford	Ranger	ICE
84	Volkswagen	ID.4	BE
87	BMW	5-series	HE
88	Opel/Vauxhall	Grandland X	ICE
88	Opel/Vauxhall	Grandland X Hybrid4	HE
93	Skoda	Enyaq	BE
97	Mini	COUNTRYMAN	HE
103	Suzuki	Ignis	HE
104	Renault	Arkana	HE
118	Land Rover	Range Rover Evoque	HE
123	Volvo	XC90	HE
124	MG	ZS	BE
129	Tesla	Model Y	BE
136	Peugeot	508	HE
137	BMW	i3	BE
138	DS	7 Crossback	HE
141	Hyundai	Ioniq	BE
146	Polestar	2	BE
148	Audi	e-Tron	BE
150	Lexus	UX	HE
153	Hyundai	Ioniq 5	BE
156	Mercedes-Benz	EQC	BE
158	Honda	CR-V	HE
164	MG	EHS	HE
167	Porsche	Taycan	BE
169	DS	3 Crossback	BE
172	Land Rover	Discovery Sport	HE
174	Hyundai	Bayon	HE
180	Mitsubishi	Outlander	HE
182	Lexus	NX	HE
189	Mazda	MX-30	BE
190	Jaguar	F-Pace	HE
193	Land Rover	Range Rover Velar	HE
197	Audi	e-Tron Sportback	BE
210	Jaguar	I-Pace	BE
211	Kia	EV6	BE
212	Lynk & Co	1	HE
263	Toyota	Prius	HE
298	Volvo	C40	BE
301	BYD	Tang	BE
332	Xpeng	g3	BE



How to read

Query

Action

Iteration

Condition

Output

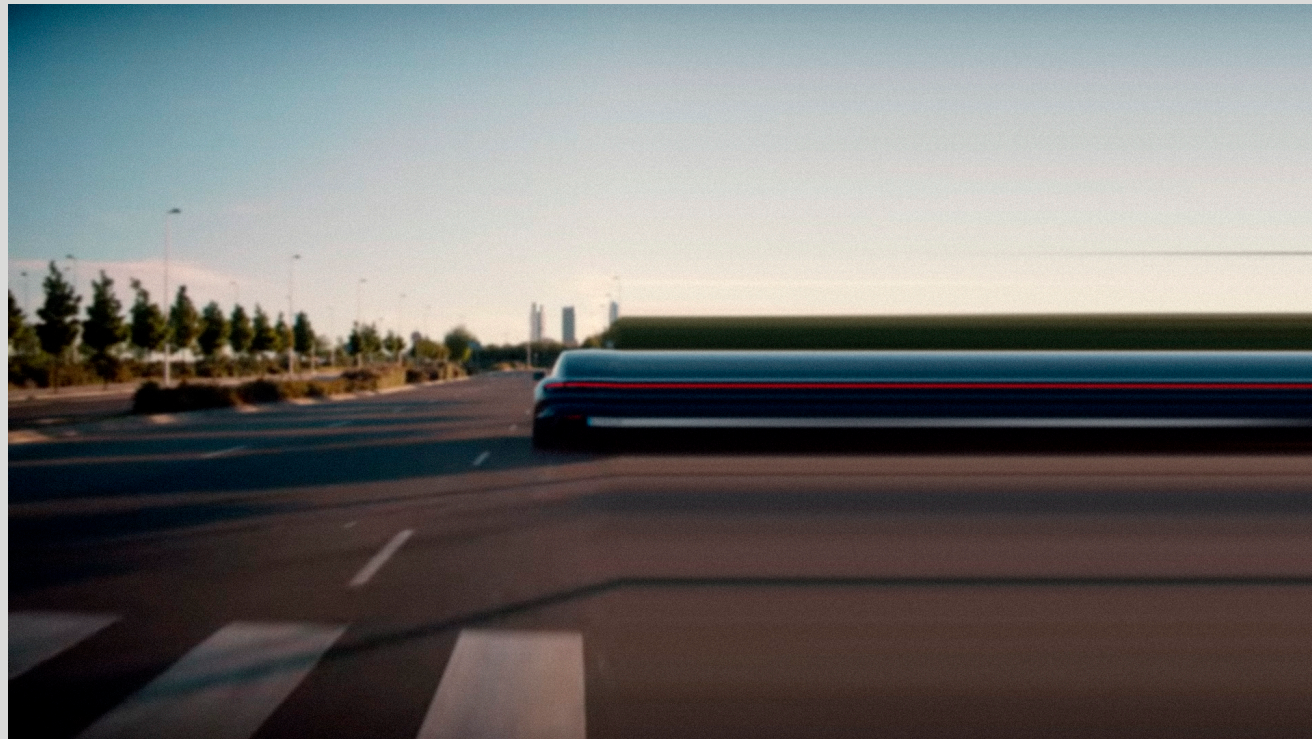
Tools

convertosv

Google Sheets

Wikipedia

What kinds of environments are chosen by car brands to present their models via video advertisements on YouTube?




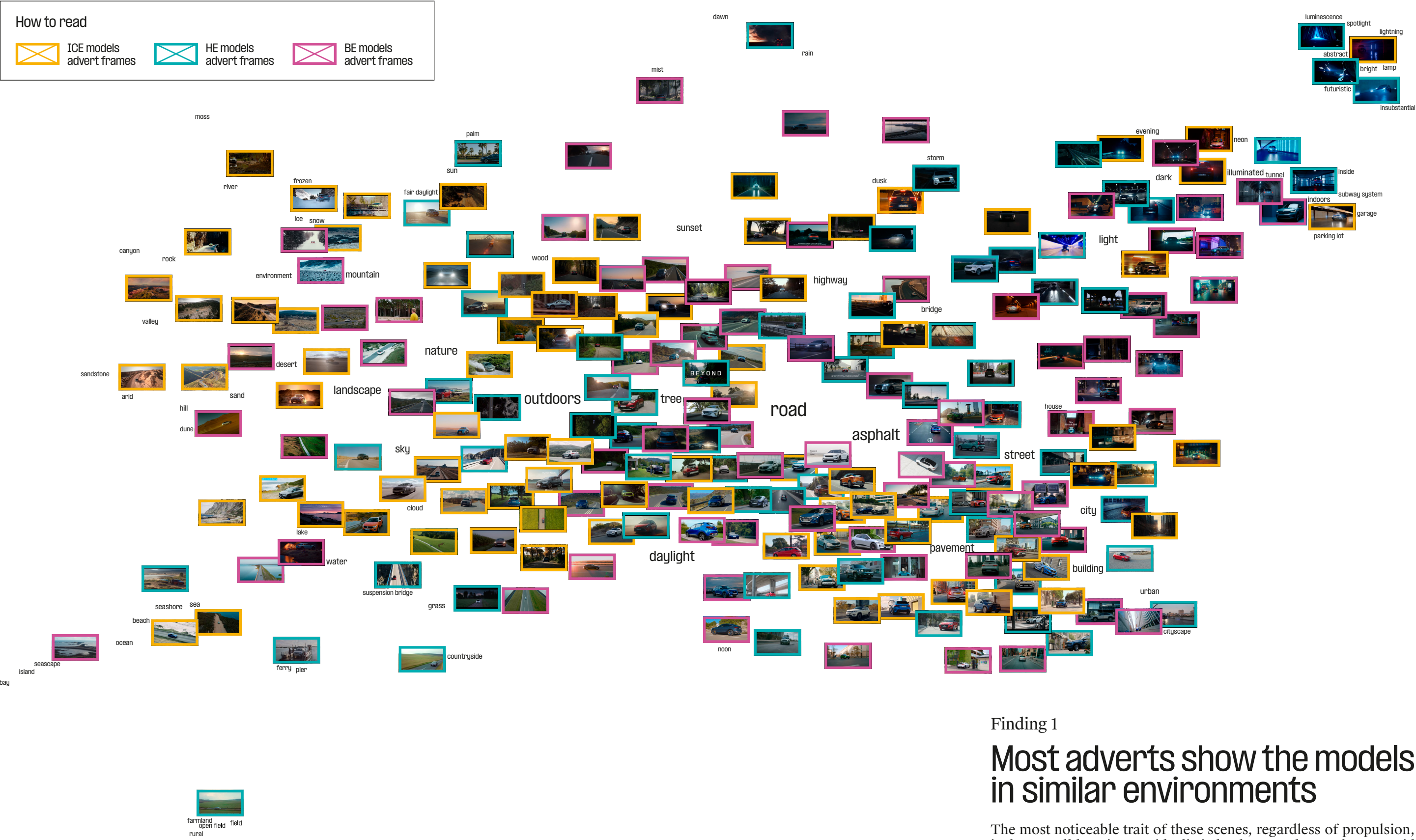
Car brands are notorious for integrating their models in natural landscapes. Hence, we decided to analyse all the shots in which the selected advertisements focus on the vehicles: are there any recurring stereotypical environments around the models, regardless of brand or propulsion type? What are the most common elements that characterise these landscapes?

How to read

 ICE models
advert frames

 HE models
advert frames

 BE models
advert frames



Finding 1

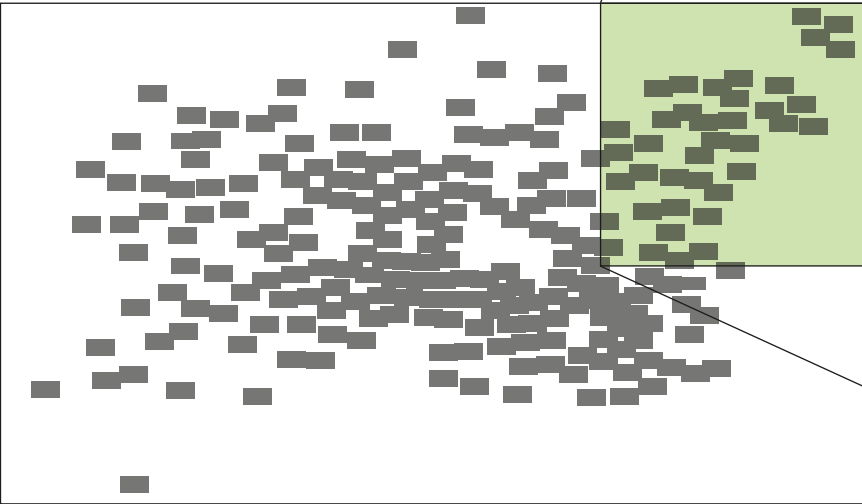
Most adverts show the models in similar environments

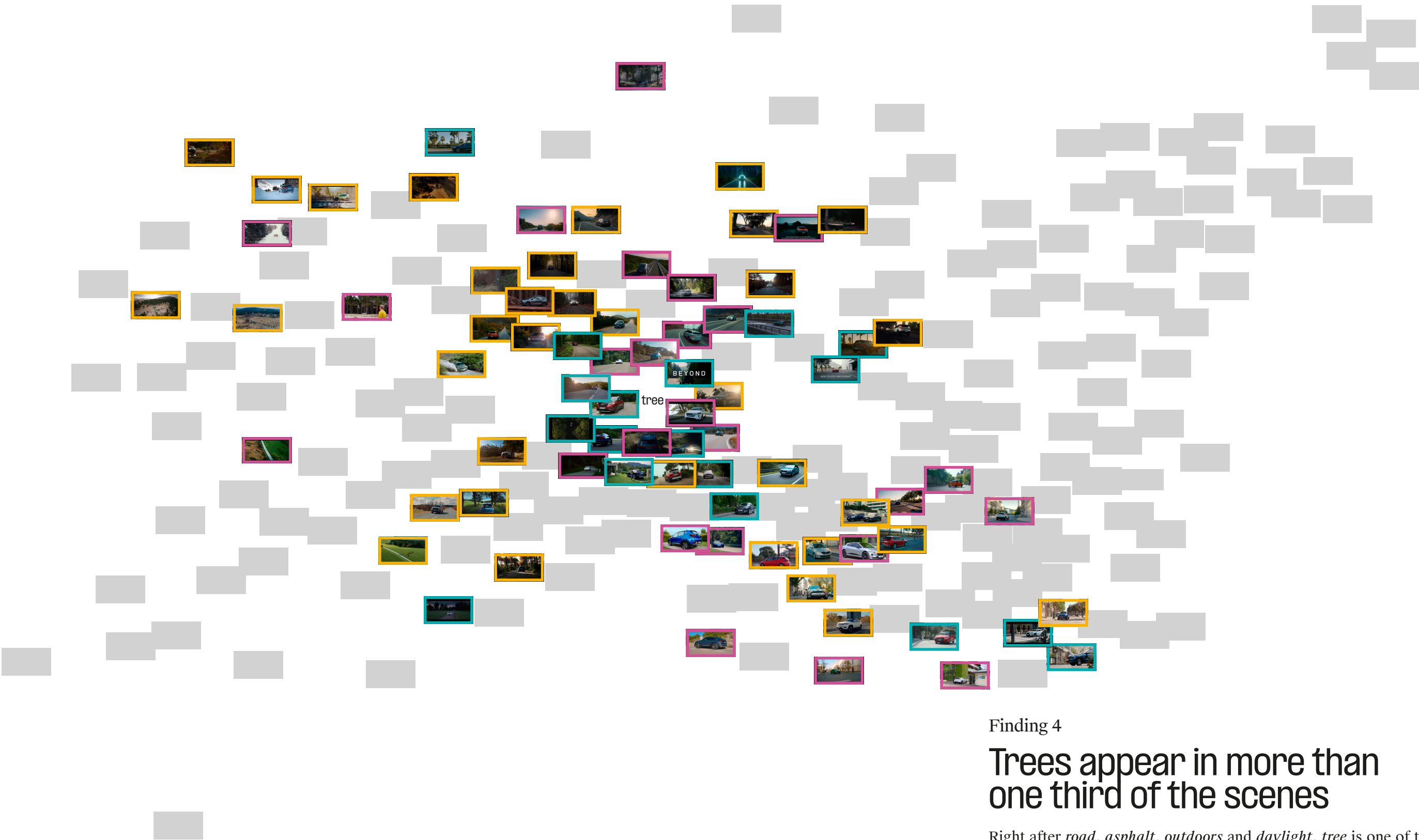
The most noticeable trait of these scenes, regardless of propulsion, is the overall location: an idealistic landscape—almost always avoid of people and signs of anthropisation.

Finding 3

Many electric and hybrid vehicles are shown in futuristic and urban contexts

Another common featured environment is a much more urbanised or futuristic one—usually by night. It seems that car brands feel less the need to associate their electric and hybrid models to nature, and prefer to emphasise their technological capabilities, even via CGI (computer generated imagery).






Finding 4
Trees appear in more than
one third of the scenes

Right after *road*, *asphalt*, *outdoors* and *daylight*, *tree* is one of the most common visual elements (with 78 occurrences) associated to the scenes. Thus, we can argue that many brands try to maintain some level of greenery in most of the shots, even when filmed in urban settings.




21/30

ICE models adverts


Volkswagen T-Roc




Skoda Octavia



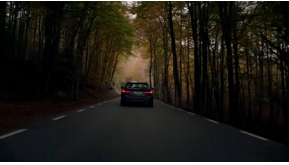


Volvo XC40



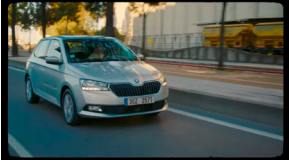
Mini Cooper





BMW 3-series




Skoda Fabia




BMW X1




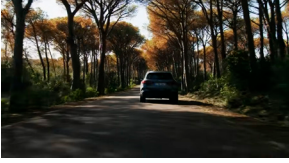
Ford Fiesta




Skoda Kamiq






Mercedes-Benz GLA





Opel/Vauxhall Crossland X




Skoda Karoq




Citroën C3 Aircross






Jeep Renegade




Hyundai i20





Audi Q5





Suzuki Vitara




Jeep Compass



Ford Ranger



Opel/Vauxhall Grandland X



15/30

HE models adverts

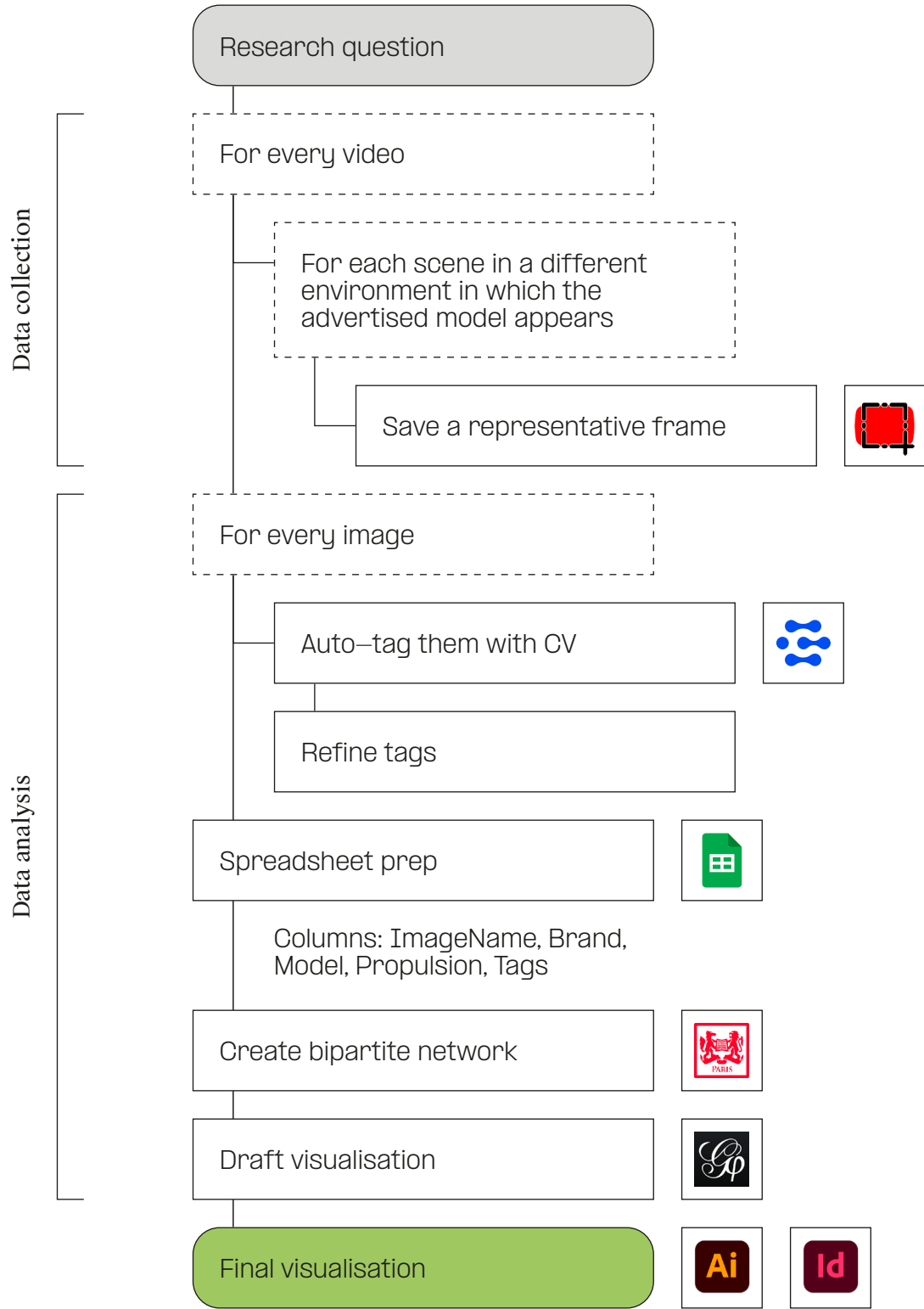
<div>Toyota Yaris</div> <div></div>	<div>Seat Leon</div> <div></div>	<div>Volvo XC60</div> <div></div>
<div>Suzuki Swift</div> <div></div>	<div>BMW 5-series</div> <div></div>	<div>Opel/Vauxhall Grandland X Hybrid 4</div> <div></div>
<div>Land Rover Range Rover Evoque</div> <div></div>	<div>Volvo XC90</div> <div></div>	<div>Lexus UX</div> <div></div>
<div>Hyundai Bayon</div> <div></div>	<div>Mitsubishi Outlander</div> <div></div>	<div>Lexus NX</div> <div></div>
<div>Jaguar F-Pace</div> <div></div>	<div>Lynk & Co 01</div> <div></div>	

15/30

BE models adverts

<div>Peugeot 2008</div> <div></div>	<div>Opel/Vauxhall Corsa</div> <div></div>	<div>Volkswagen ID.3</div> <div></div>	<div>Opel/Vauxhall Mokka</div> <div></div>
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<div>Skoda Enyaq</div> <div></div>	<div>MG ZS</div> <div></div>
<div>Tesla Model Y</div> <div></div>	<div>Hyundai Ioniq</div> <div></div>
<div>BMW i3</div> <div></div>	<div>Mercedes-Benz EQC</div> <div></div>
<div>Audi e-Tron</div> <div></div>	<div>Porsche Taycan</div> <div></div>
<div>Mazda MX-30</div> <div></div>	<div>Audi e-Tron Sportback</div> <div></div>
<div>Jaguar I-Pace</div> <div></div>	



How to read

Query








Action

Iteration

Condition

Output

Tools

	Screenshot YouTube extension		Clarifai		Google Sheets		Table2Net
	Gephi		Adobe Illustrator		Adobe InDesign		

What kinds of narrative strategies are used by car brands to present their models via video advertisements on YouTube?




Another strategy that car brands often use to promote their models as more sustainable in their video advertisements is via storytelling and rhetoric. Thus, we analysed the overall narrative structure of all the videos, including the often times added information related to emissions and consumption data: are there any recurring patterns or specific approaches between brands or propulsion types? How much time and space is given to emissions and consumption information?

** In each visualisation, the arrangement of the analysed adverts follows the ranking of the best-selling car models of the main dataset.*

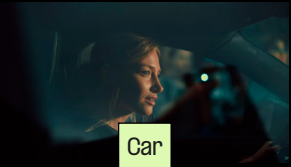
4/30

ICE models adverts

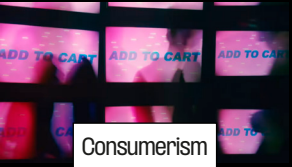
Volvo XC40



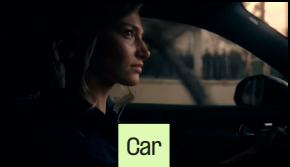
Consumerism



Car

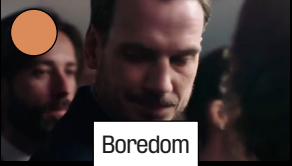


Consumerism




Car

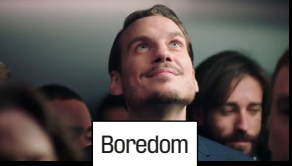
Jeep Compass



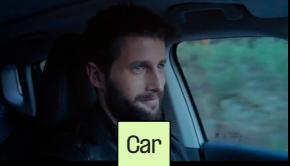
Boredom



Car




Boredom

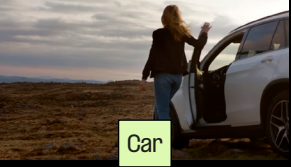


Car

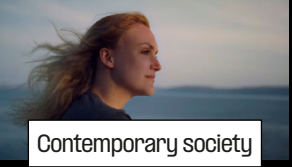
Mercedes-Benz GLC



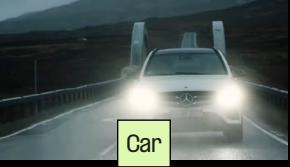
Contemporary society



Car




Contemporary society




Car

Opel/Vauxhall Grandland X



Boredom



Car


Question 2

29

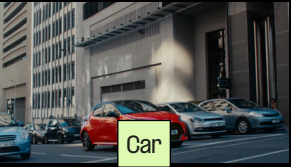
5/30

HE models adverts

Toyota Yaris




Traffic




Car


BMW 5-series



Family




Family




Car


Opel/Vauxhall Grandland X Hybrid4



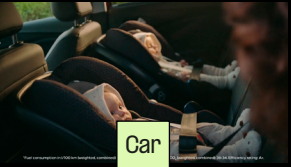
Family



Family

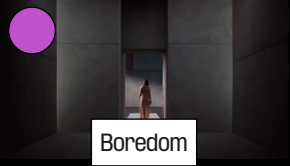


Family




Car


Hyundai Bayon



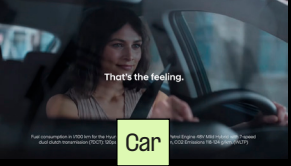
Boredom



Change of perspective




Change of perspective

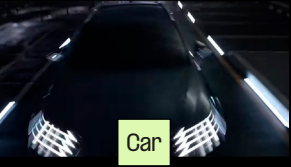


Car


Lexus NX




Contemporary society



Car




Contemporary society




Car


How to read




Frames of the same advert



Single frame



Advert on a individual problem



Advert on a collective problem

...

Problem

...

Solution

5/30BE models adverts

Peugeot 208

Noise pollution

Noise pollution

Car

Opel/Vauxhall Corsa

Fake "green" ad

Fake "green" ad

Car

Fiat 500

Climate change

Climate change

Climate change

Car

Opel/Vauxhall Mokka

Contemporary society

Contemporary society

Contemporary society

Car

BMW i3

Contemporary society

Car

Finding 1

Fighting climate change by buying a new electric vehicle

A common theme chosen for **BEVs** is showing contemporary societal and environmental issues: consumerism, noise pollution, and climate change are the most recurring ones. Thus, **BEVs** tend to be represented as the embodied solution to these problems.

4/30ICE models adverts

Volkswagen T-Roc

Skoda Karoq

Citroën C3 Aircross

Ford Ranger

3/30HE models adverts

Volkswagen Passat

Land Rover Discovery

Mitsubishi Outlander

4/30BE models adverts

Peugeot 208

Opel/Vauxhall Corsa

Fiat 500

BMW iX3

Finding 2

Electric and hybrid vehicles as an expression of a more sustainable lifestyle

It is also quite common for some advertisements to refer—either implicitly or explicitly—to “green” lifestyles. Interestingly, in the ones made for **BEVs** and **HEVs**, there are more explicit references to “sustainable” choices. In these cases, the car becomes an expression of the owner’s lifestyle: sporty, ‘green’ and sustainable.

How to read

Single frame (cropped)

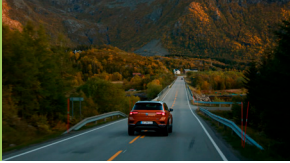


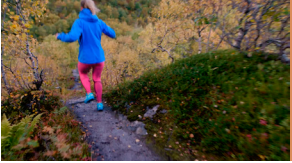
Implicit reference to a “green” lifestyle (visual)

Explicit reference to a “green” lifestyle (voiceover)


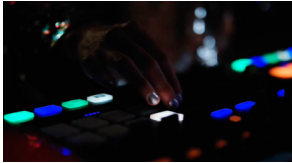


7/30

ICE models adverts

Volkswagen T-Roc




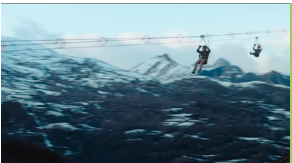


Skoda Octavia







Mercedes-Benz A-Class




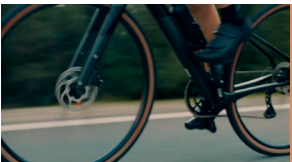
BMW X1







Skoda Karoq





Citroën C3 Aircross







Ford Ranger





8/30

HE models adverts

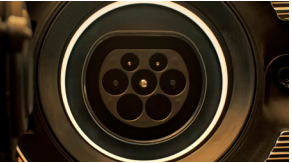



Toyota Yaris







Nissan Qashqai



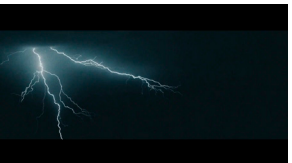
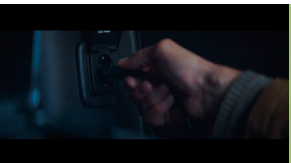
Mini Countryman





DS 7 Crossback





Mitsubishi Outlander





Jaguar F-Pace




Link & Co 1







Toyota Prius





How to read

 Single frame

 Natural metaphors

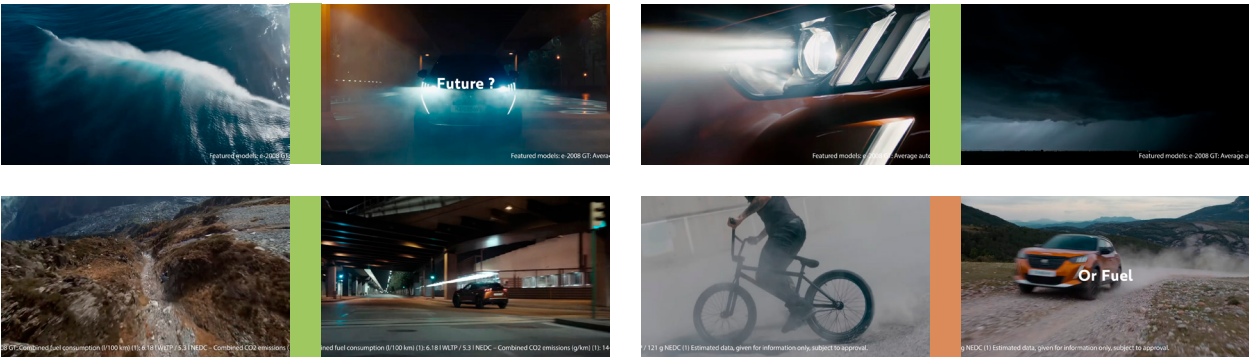
 Human / Bike metaphors

 Technological metaphors


3/30

BE models adverts

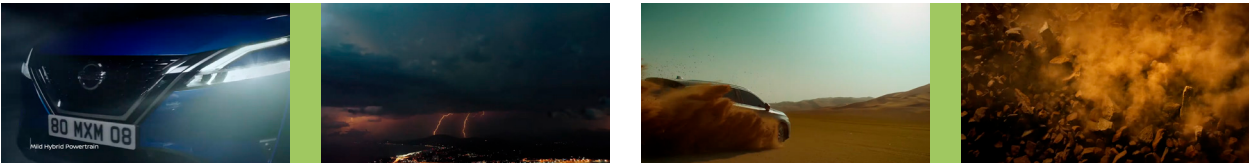
Peugeot 2008



DS 3 Crossback



BYD Tang



Finding 3

Rhetorical associations between vehicles and nature are common among all propulsion types

Through a succession of dynamic imagery, car brands tend to link characteristics of their models, regardless of propulsion, to nature—from animals to natural phenomena.

Total (all propulsions)

15

Natural metaphors

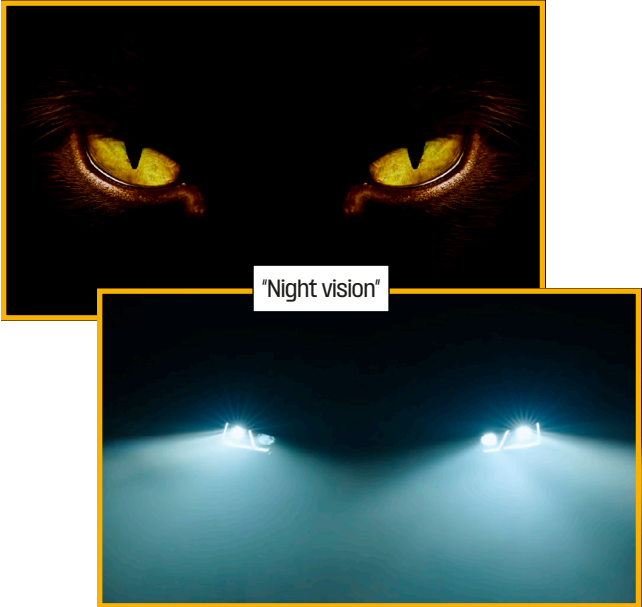
10

Human / Bike metaphors

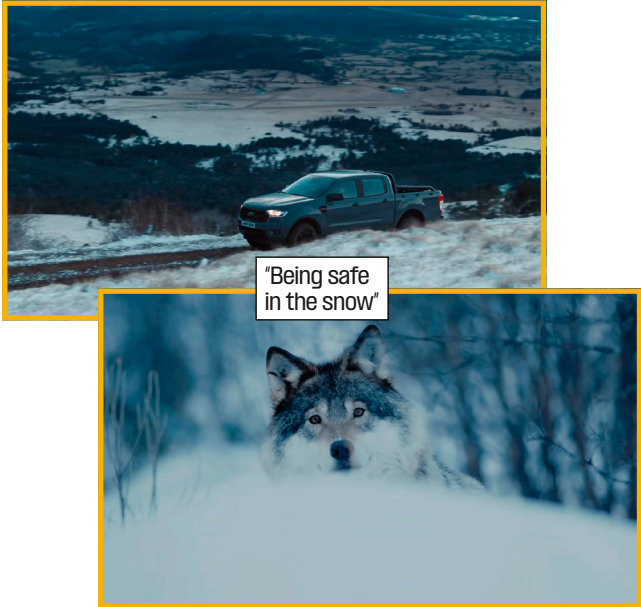
6

Technological metaphors

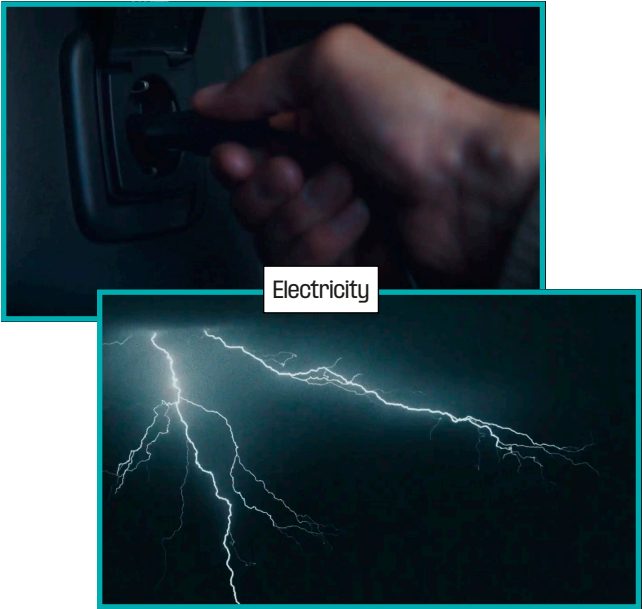
Skoda Octavia



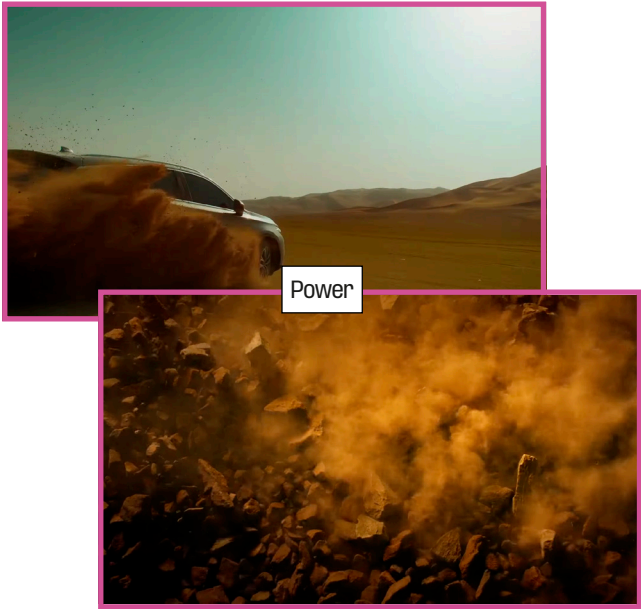
Ford Ranger



Mitsubishi Outlander



BYD Tang



How to read

 ICE models advert frames

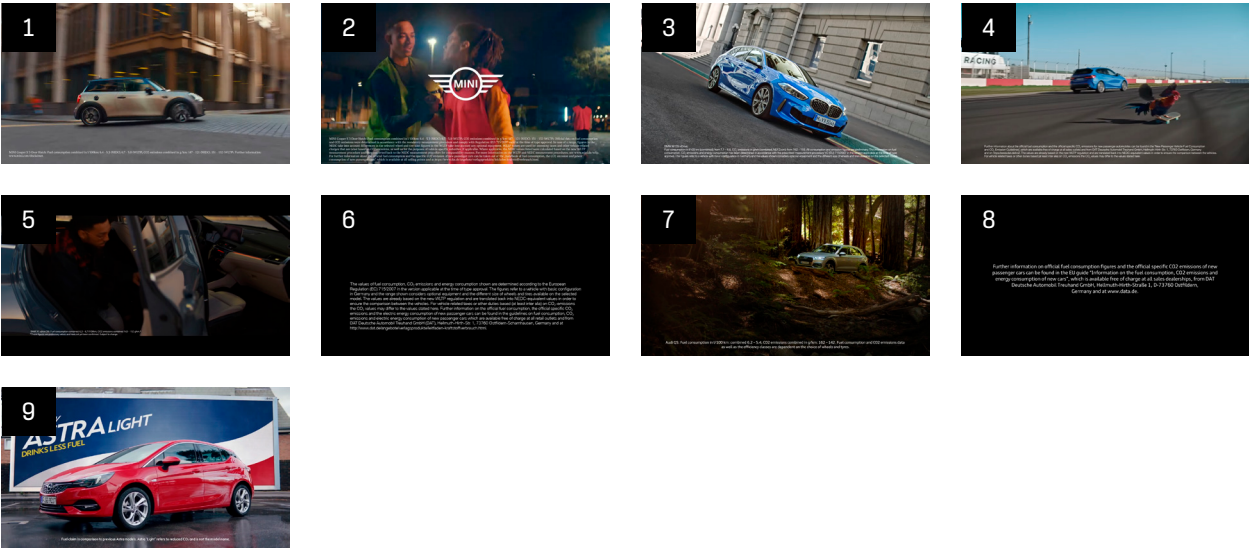
 HE models advert frames

 BE models advert frames

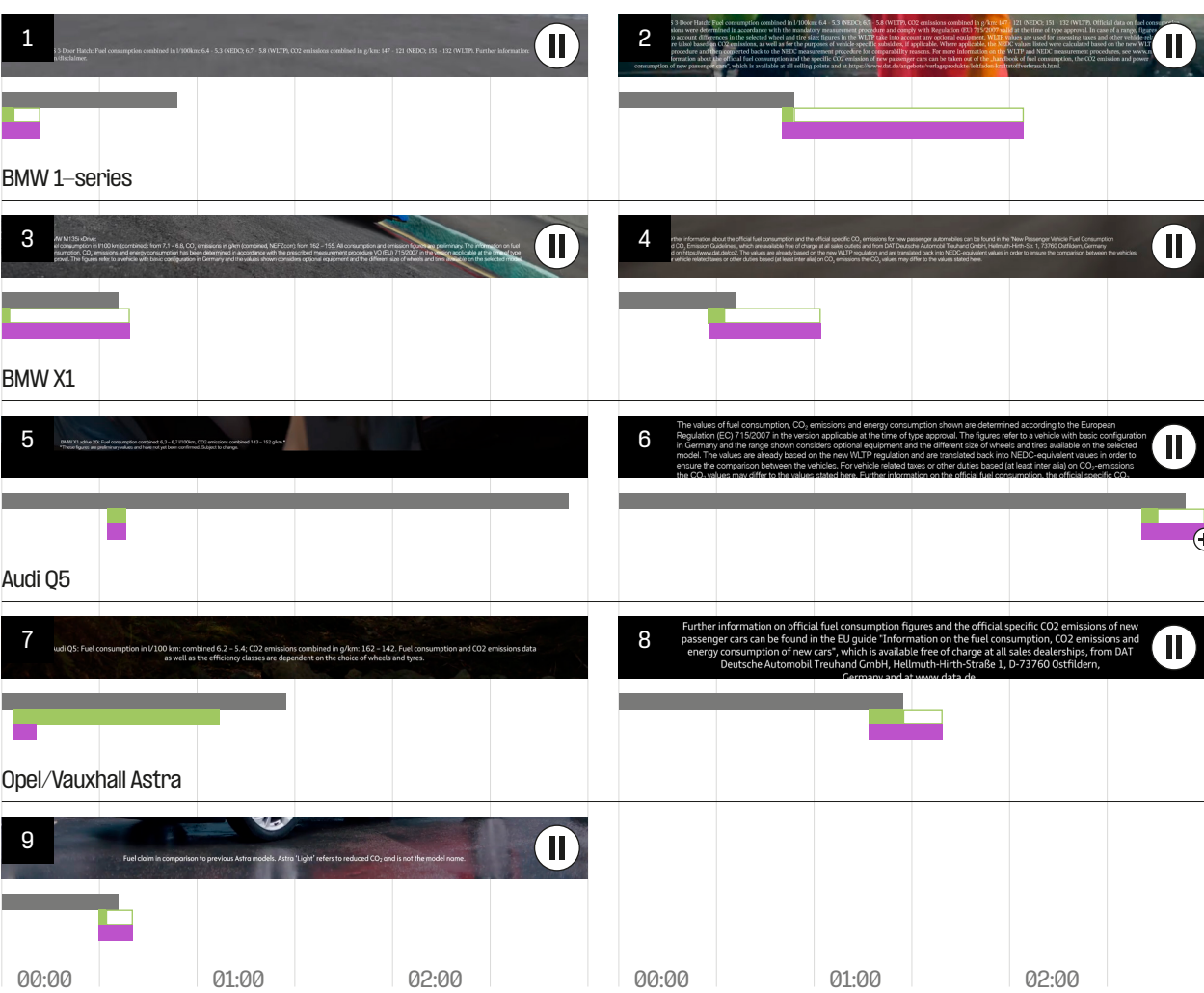
 Metaphor

Strategy 4: giving less space and time to emissions and consumption information

5/30 ICE models adverts

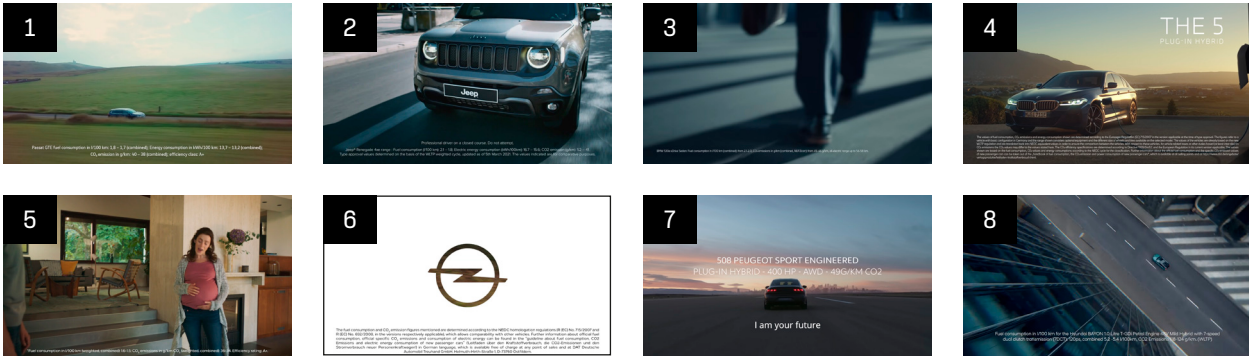


Mini Cooper



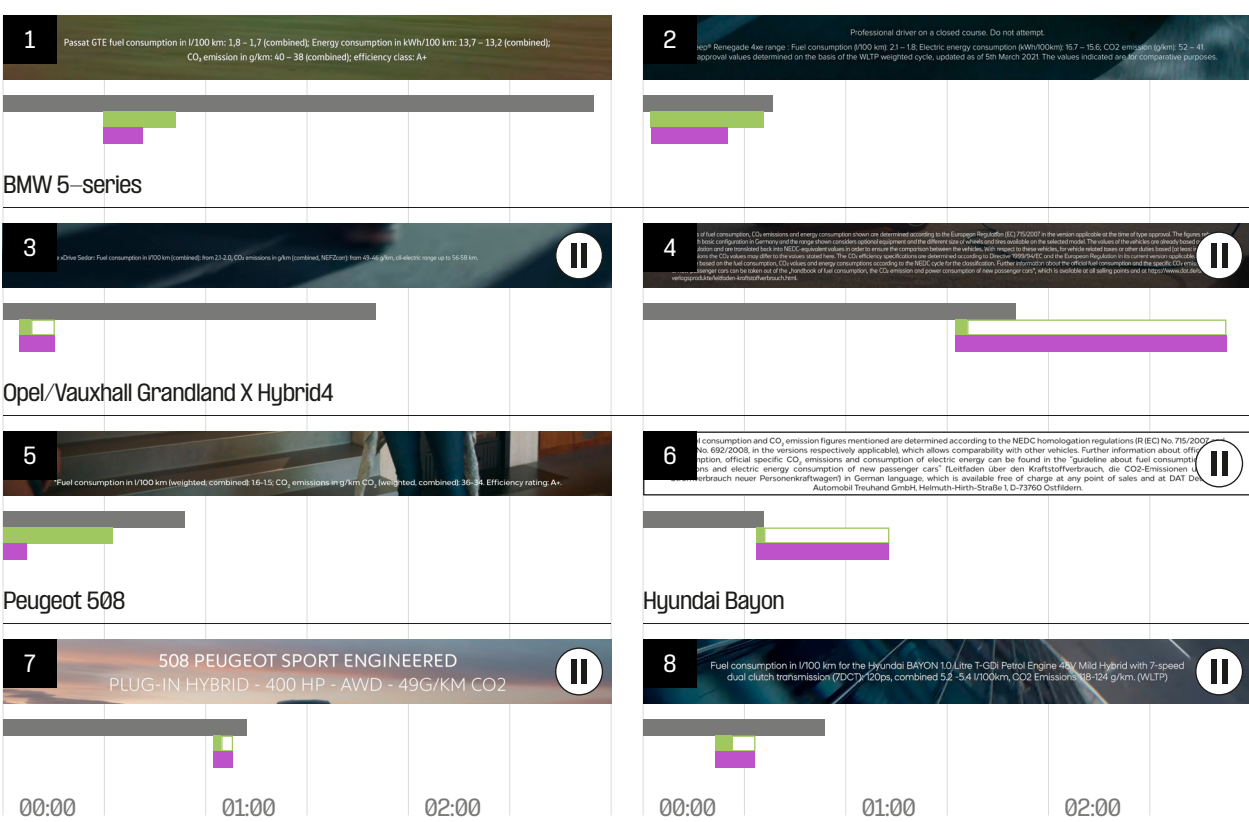
Question 2

6/30 HE models adverts



Volkswagen Passat

Jeep Renegade 4xe



How to read

- Advert length
- Average time needed to read the statement
- Screen time of the statement
- Time needed to finish reading
- The bar exceeds the graph
- One must pause the video to read

8/30

BE models adverts

1

your future adventure

6.18 WELP / 5.3 l/100km* Combined CO2 emissions (g/km) (1): 140 g WELP / 121 g NEDC (1) Estimated

2

SA-C

3

BY LISBON'S CHARGING STATIONS

MINI ELECTRIC

5

6

IX3

7

MORE RECHARGE

8

all-new ID.4

9

[Stromverbrauch kombiniert: 21,5-20,1 kWh/100 km | CO2-Emissionen kombiniert: 0 g/km | Mercedes-Benz EQC 400 4MATIC]*

10

Peugeot 2008

1

TP / 5.3 l NEDC – Combined CO2 emissions (g/km) (1): 140 g WELP / 121 g NEDC (1) Estimated

Mini Cooper SE

3

MINI COOPER SE. ENERGY CONSUMPTION IN kWh/100 km COMBINED: 18.8 - 14.8. FUEL CONSUMPTION IN l/100 km COMBINED: 0. CO2 EMISSIONS IN g/km COMBINED: 0.

BMW IX3

5

Opel/Vauxhall Mokka

7

Energy consumption Opel Mokka-e in kWh/100 km: 18.0 - 17.4; CO2 emission in g/km (in range: 0 - 112 km (depending on equipped options) according R (EC) No 715/2007, R (EU) No 2017/1153 and R (EU) No 2019/1161

Mercedes-Benz EQC

9

[Stromverbrauch kombiniert: 21,5-20,1 kWh/100 km | CO2-Emissionen kombiniert: 0 g/km | Mercedes-Benz EQC 400 4MATIC]*

Opel/Vauxhall Corsa

2

The fully electric Opel Corsa e offers local emission free driving. However vehicle production and power generation still have carbon footprint.

Volkswagen ID.4

8

Electricity consumption in kWh/100 km: combined 14.9-16.2; CO2 emissions in g/km: 0; efficiency class: A+ (image shows optional equipment. Vehicle shown may deviate from the actual series product. Please be aware of the standard corona regulations.

Audi e-Tron Sportback

10

Combined electric power consumption in kWh/100 km (NEDC): 22.7 - 20.6 (NEDC) CO2 emissions combined in g/km (NEDC): 0 Information on fuel/power consumption and CO2 emissions in ranges depending on the chosen equipment level of the car

00:00

01:00

02:00

00:00

01:00

02:00

THE VALUES OF FUEL CONSUMPTIONS, CO2 EMISSIONS AND ENERGY CONSUMPTIONS SHOWN WERE DETERMINED ACCORDING TO THE EUROPEAN REGULATION (EC) 715/2007 IN THE VERSION APPLICABLE AT THE TIME OF TYPE APPROVAL. THE FIGURES REFER TO A VEHICLE WITH BASIC CONFIGURATION IN GERMANY AND THE RANGE SHOWN CONSIDERS OPTIONAL EQUIPMENT AND THE DIFFERENT SIZE OF WHEELS AND TIRES AVAILABLE ON THE SELECTED MODEL. THE VALUES OF THE VEHICLES ARE ALREADY BASED ON THE NEW WLTP REGULATION AND ARE TRANSLATED BACK INTO NEDC-EQUIVALENT VALUES IN ORDER TO ENSURE THE COMPARISON BETWEEN THE VEHICLES. [WITH RESPECT TO THESE VEHICLES, FOR VEHICLE RELATED TAXES OR OTHER DUTIES BASED (AT LEAST INTER ALIA) ON CO2-EMISSIONS THE CO2 VALUES MAY DIFFER TO THE VALUES STATED HERE.] THE CO2 EFFICIENCY SPECIFICATIONS ARE DETERMINED ACCORDING TO DIRECTIVE 1999/94/EC AND THE EUROPEAN REGULATION IN ITS CURRENT VERSION APPLICABLE. THE VALUES SHOWN ARE BASED ON THE FUEL CONSUMPTION, CO2 VALUES AND ENERGY CONSUMPTIONS ACCORDING TO THE NEDC CYCLE FOR THE CLASSIFICATION. FOR FURTHER INFORMATION ABOUT THE OFFICIAL FUEL CONSUMPTION AND THE SPECIFIC CO2 EMISSION OF NEW PASSENGER CARS CAN BE TAKEN OUT OF THE HANDBOOK OF FUEL CONSUMPTION, THE CO2 EMISSION AND POWER CONSUMPTION OF NEW PASSENGER CARS*, WHICH IS AVAILABLE AT ALL SELLING POINTS AND AT [HTTPS://WWW.DAT.DE/ANGEBOTE/VERLAGSPRODUKTE/LEITFADEN-KRAFTSTOFFVERBRAUCH.HTML](https://www.dat.de/ANGEBOTE/VERLAGSPRODUKTE/LEITFADEN-KRAFTSTOFFVERBRAUCH.HTML).

Screen time: 00:01

01:04 to finish reading

Average reading time: 01:05

00:00

01:00

02:00

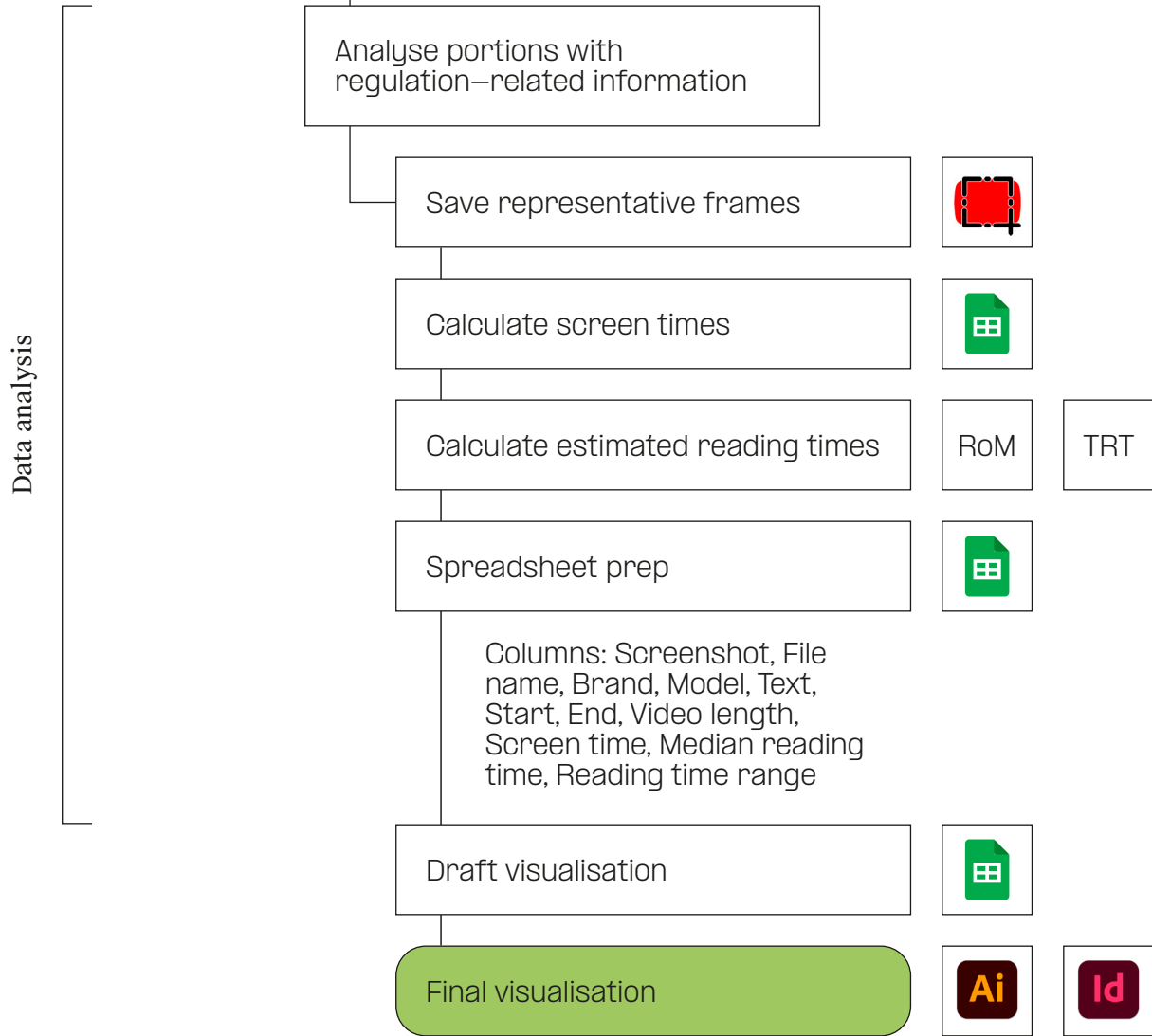
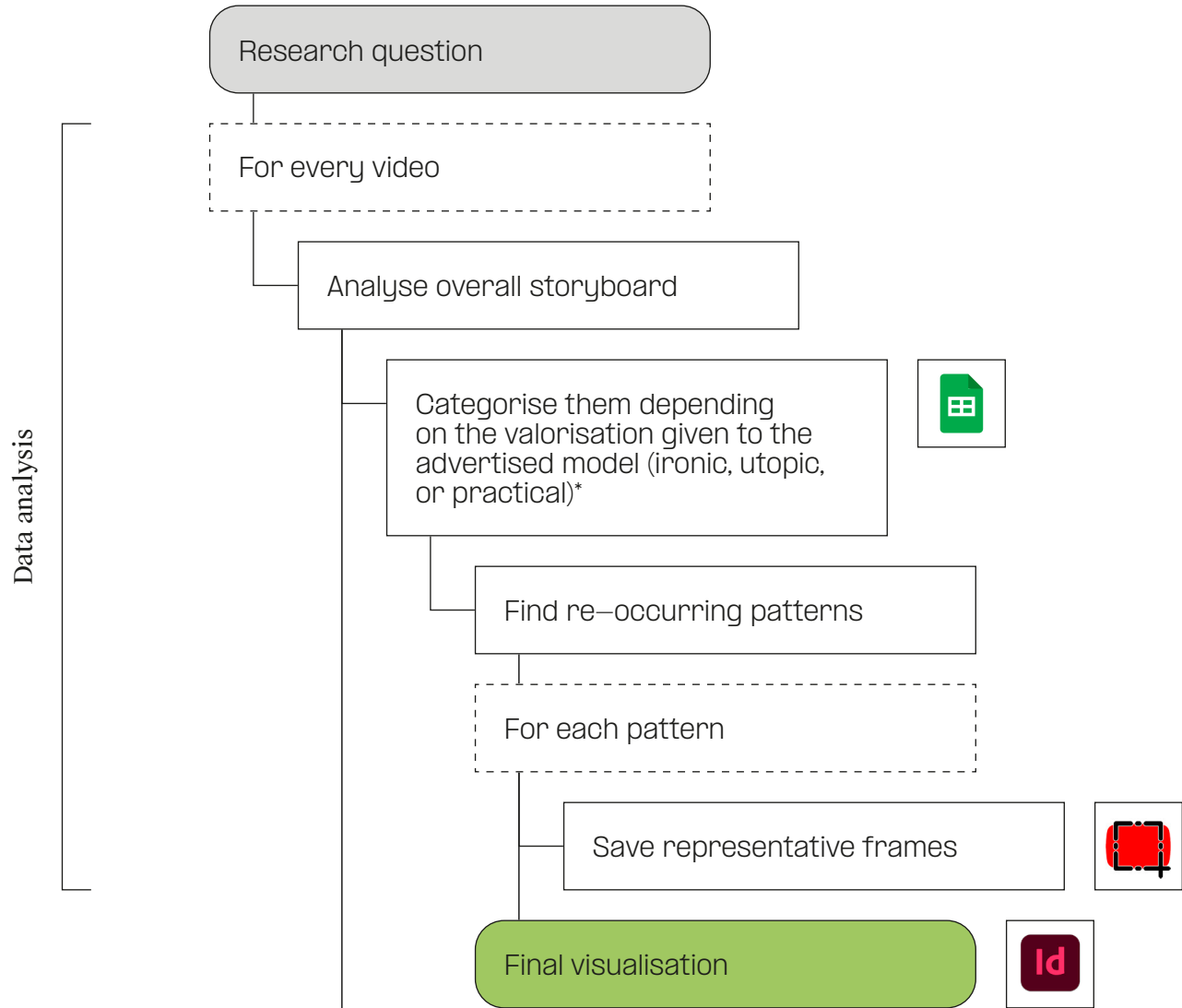
THE VALUES OF FUEL CONSUMPTIONS, CO2 EMISSIONS AND ENERGY CONSUMPTIONS SHOWN WERE DETERMINED ACCORDING TO THE EUROPEAN REGULATION (EC) 715/2007 IN THE VERSION APPLICABLE AT THE TIME OF TYPE APPROVAL. THE FIGURES REFER TO A VEHICLE WITH BASIC CONFIGURATION IN GERMANY AND THE RANGE SHOWN CONSIDERS OPTIONAL EQUIPMENT AND THE DIFFERENT SIZE OF WHEELS AND TIRES AVAILABLE ON THE SELECTED MODEL. THE VALUES OF THE VEHICLES ARE ALREADY BASED ON THE NEW WLTP REGULATION AND ARE TRANSLATED BACK INTO NEDC-EQUIVALENT VALUES IN ORDER TO ENSURE THE COMPARISON BETWEEN THE VEHICLES. [WITH RESPECT TO THESE VEHICLES, FOR VEHICLE RELATED TAXES OR OTHER DUTIES BASED (AT LEAST INTER ALIA) ON CO2-EMISSIONS THE CO2 VALUES MAY DIFFER TO THE VALUES STATED HERE.] THE CO2 EFFICIENCY SPECIFICATIONS ARE DETERMINED ACCORDING TO DIRECTIVE 1999/94/EC AND THE EUROPEAN REGULATION IN ITS CURRENT VERSION APPLICABLE. THE VALUES SHOWN ARE BASED ON THE FUEL CONSUMPTION, CO2 VALUES AND ENERGY CONSUMPTIONS ACCORDING TO THE NEDC CYCLE FOR THE CLASSIFICATION. FOR FURTHER INFORMATION ABOUT THE OFFICIAL FUEL CONSUMPTION AND THE SPECIFIC CO2 EMISSION OF NEW PASSENGER CARS CAN BE TAKEN OUT OF THE HANDBOOK OF FUEL CONSUMPTION, THE CO2 EMISSION AND POWER CONSUMPTION OF NEW PASSENGER CARS*, WHICH IS AVAILABLE AT ALL SELLING POINTS AND AT [HTTPS://WWW.DAT.DE/ANGEBOTE/VERLAGSPRODUKTE/LEITFADEN-KRAFTSTOFFVERBRAUCH.HTML](https://www.dat.de/ANGEBOTE/VERLAGSPRODUKTE/LEITFADEN-KRAFTSTOFFVERBRAUCH.HTML).

The greyed out words cannot be read unless the advert is paused

Finding 4

If included, most adverts don't give enough time to read emissions and consumption information

Not all car brands place emissions and consumption information within the adverts, and the ones that do, place it right at the end of them—in a small and hard to read block of text. In many of these cases, the screen time is shorter than the average reading time required read all of it. Thus, one must pause the video if interested in checking such information.



How to read

Query

Action

Iteration

Condition

Output

Tools

	Google Sheets		Screenshot YouTube extension		Adobe InDesign		Read-o-Meter
	The Reading Time		Adobe Illustrator				

Are there recurring patterns related to sustainability from the video advertisements' descriptions?



To make the advertisements more easily suggestible to users and thus more reachable, car brands use various options provided by YouTube to describe their content. Therefore, We decided to investigate if there is a striking difference across different propulsion types and brands in terms of what kind of language they tend to use, if they refer to typical 'green' buzzwords or regulation-related information, and how frequently if so.

How to read

ICE models adverts

HE models adverts

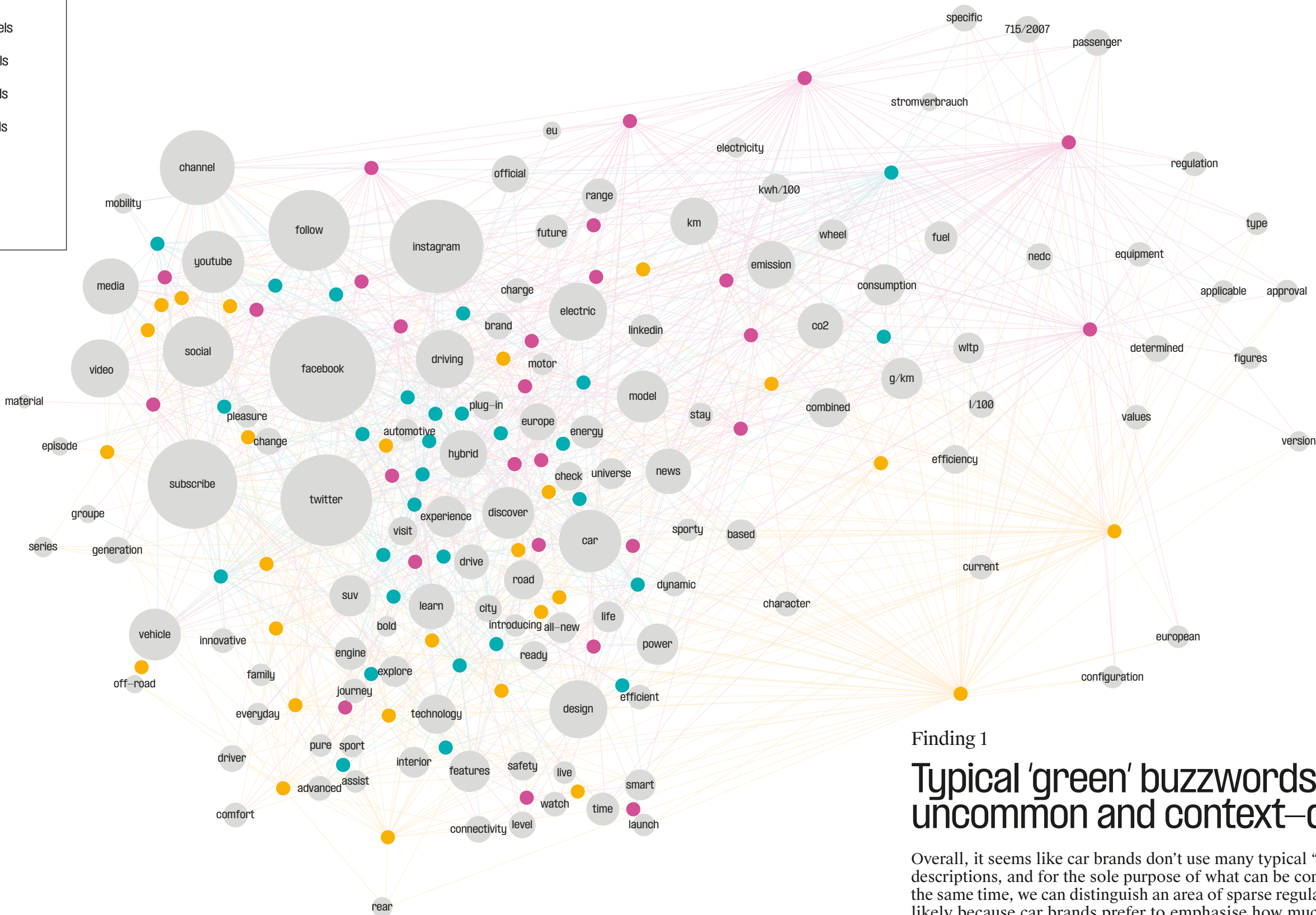
BE models adverts

Keywords

Keywords occurrences

45

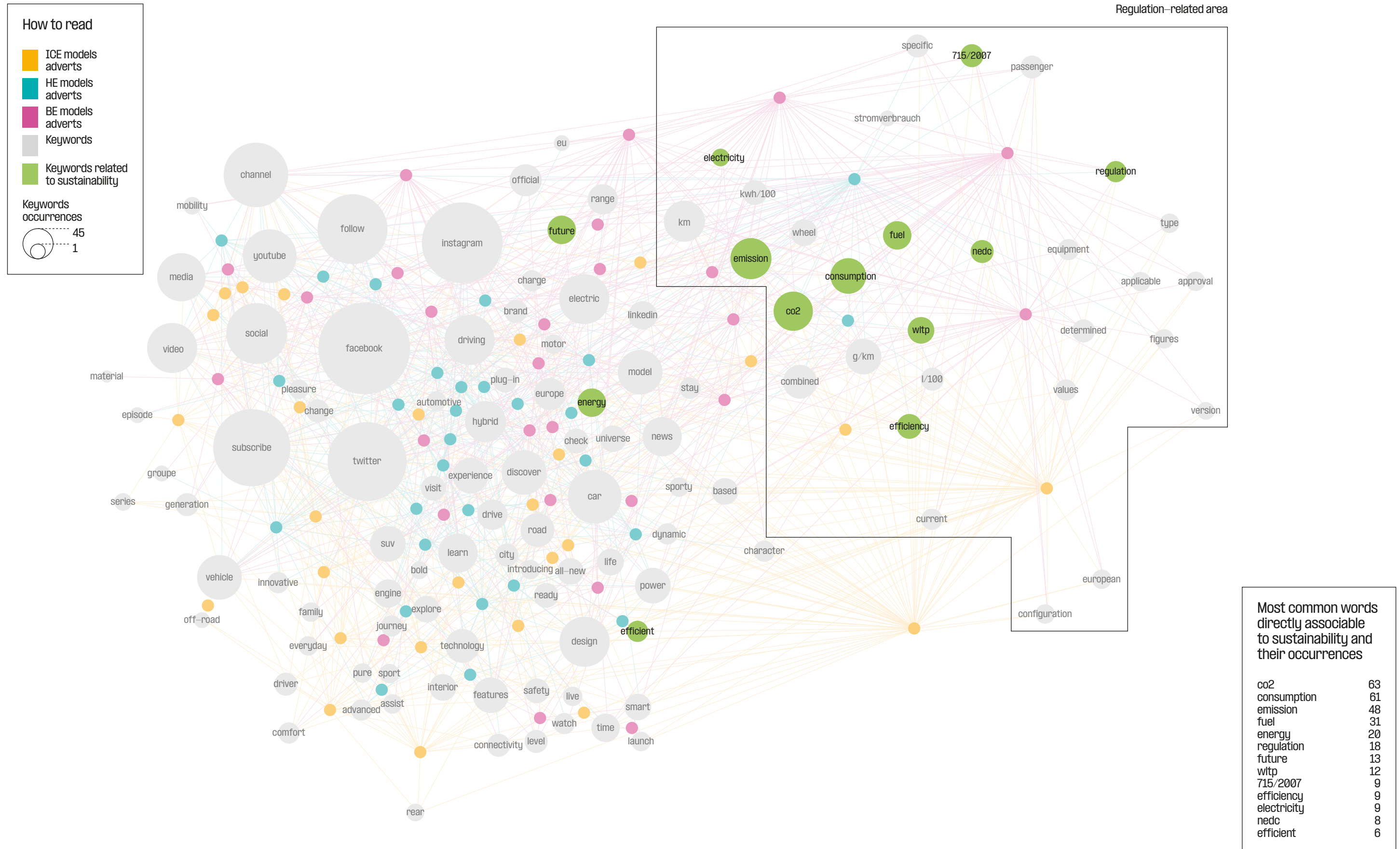
1

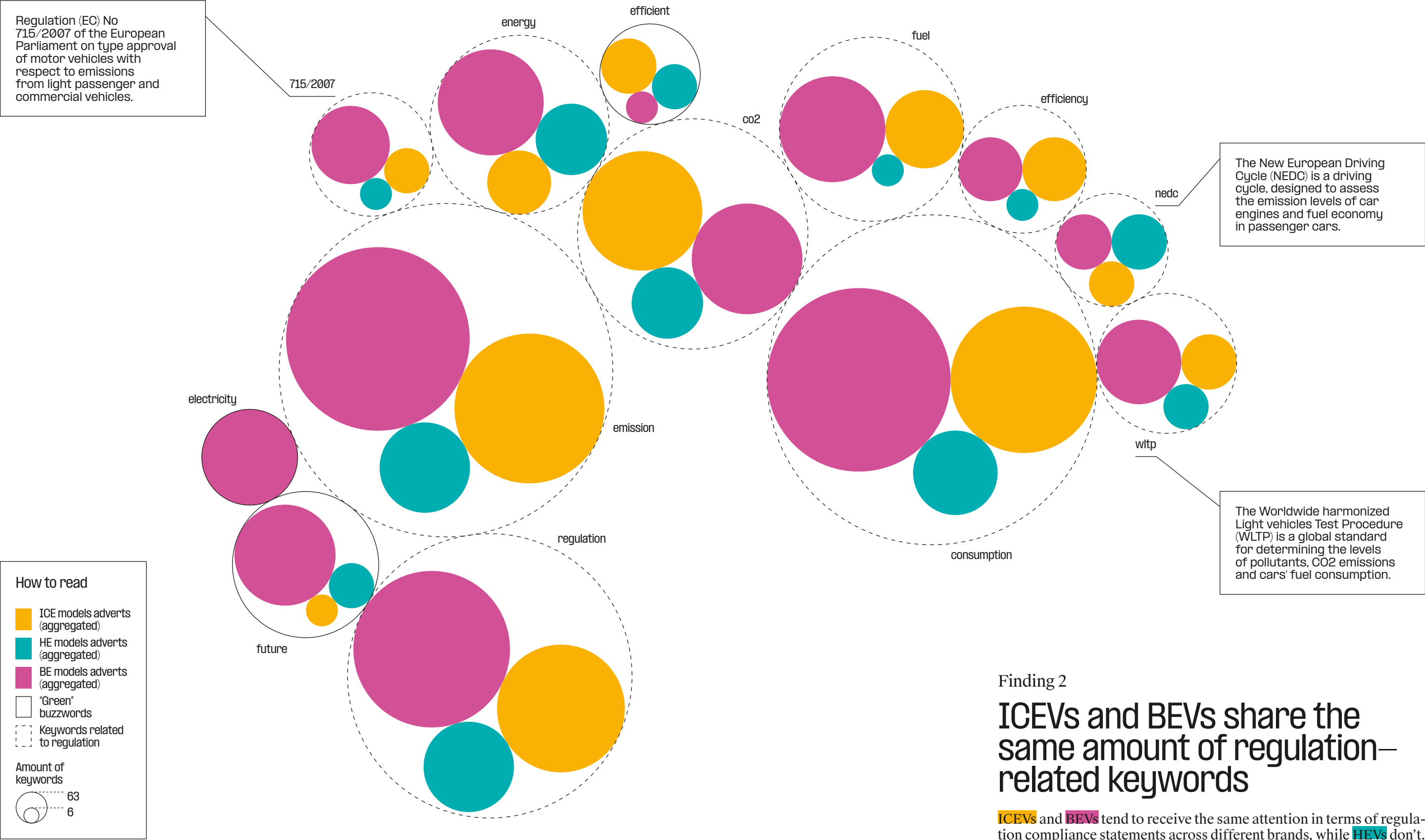


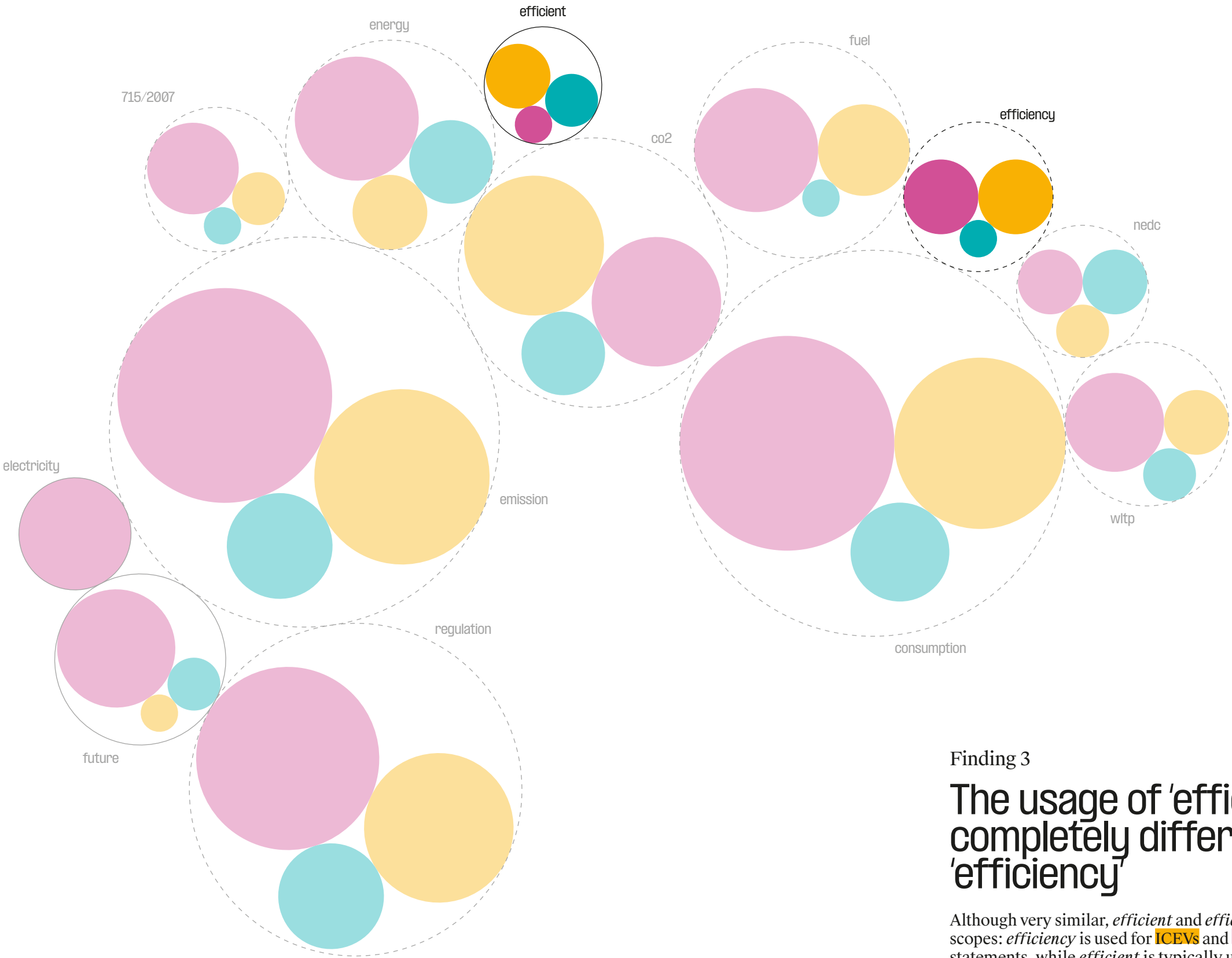
Finding 1

Typical ‘green’ buzzwords are uncommon and context–dependent

Overall, it seems like car brands don’t use many typical “green” buzzwords inside the descriptions, and for the sole purpose of what can be considered as greenwashing. At the same time, we can distinguish an area of sparse regulation-related keywords, most likely because car brands prefer to emphasise how much they’re respecting current emission and fuel consumption standards or legislation instead of putting themselves under the spotlight by using bold claims.

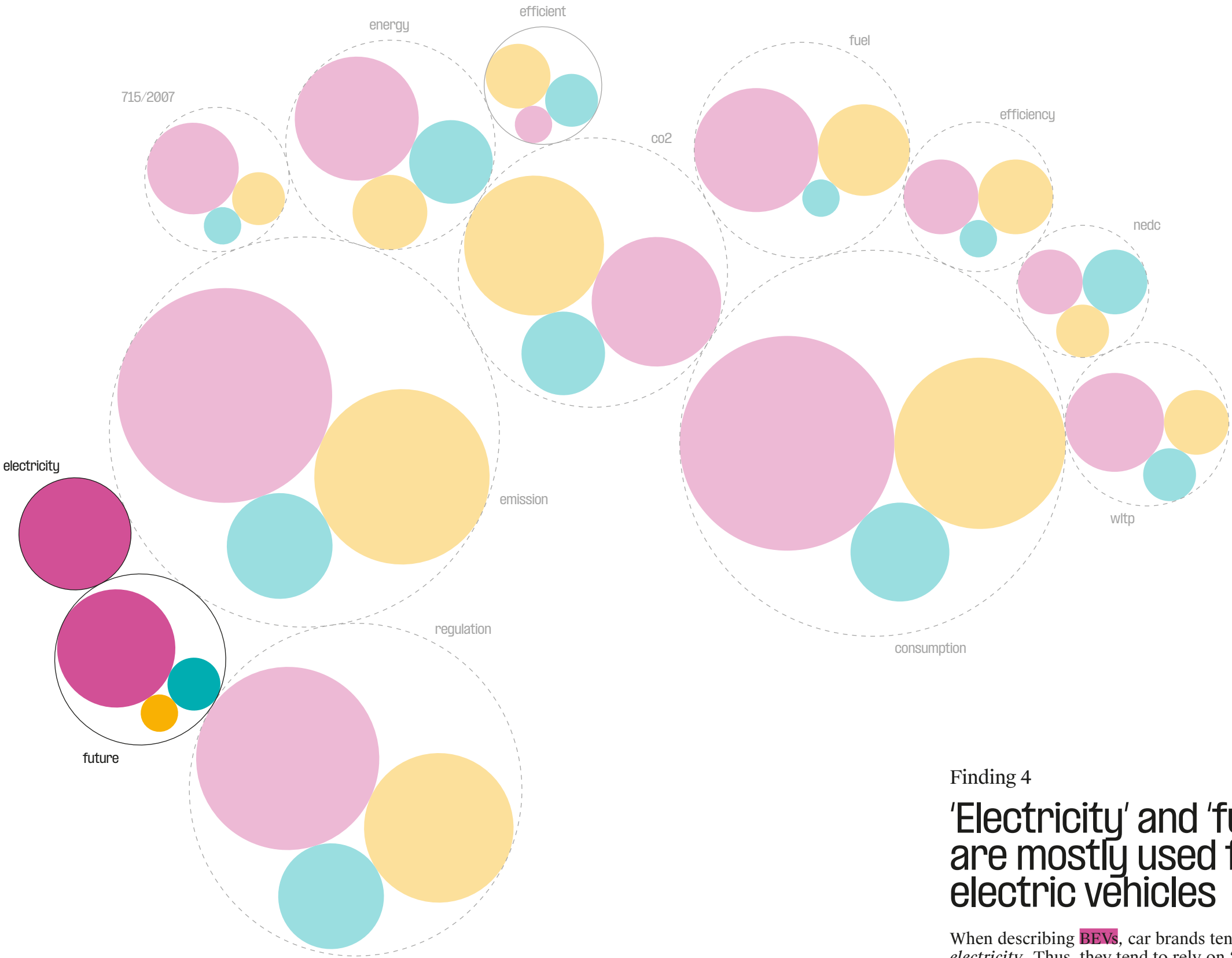






Finding 3
The usage of 'efficient' is completely different from 'efficiency'

Although very similar, *efficient* and *efficiency* satisfy entirely different scopes: *efficiency* is used for ICEVs and BEVs in regulation compliance statements, while *efficient* is typically used for ICEVs and HEVs when describing the 'green' properties of their engines.



How to read

- ICE models adverts (aggregated)
- HE models adverts (aggregated)
- BE models adverts (aggregated)
- "Green" buzzwords
- Keywords related to regulation

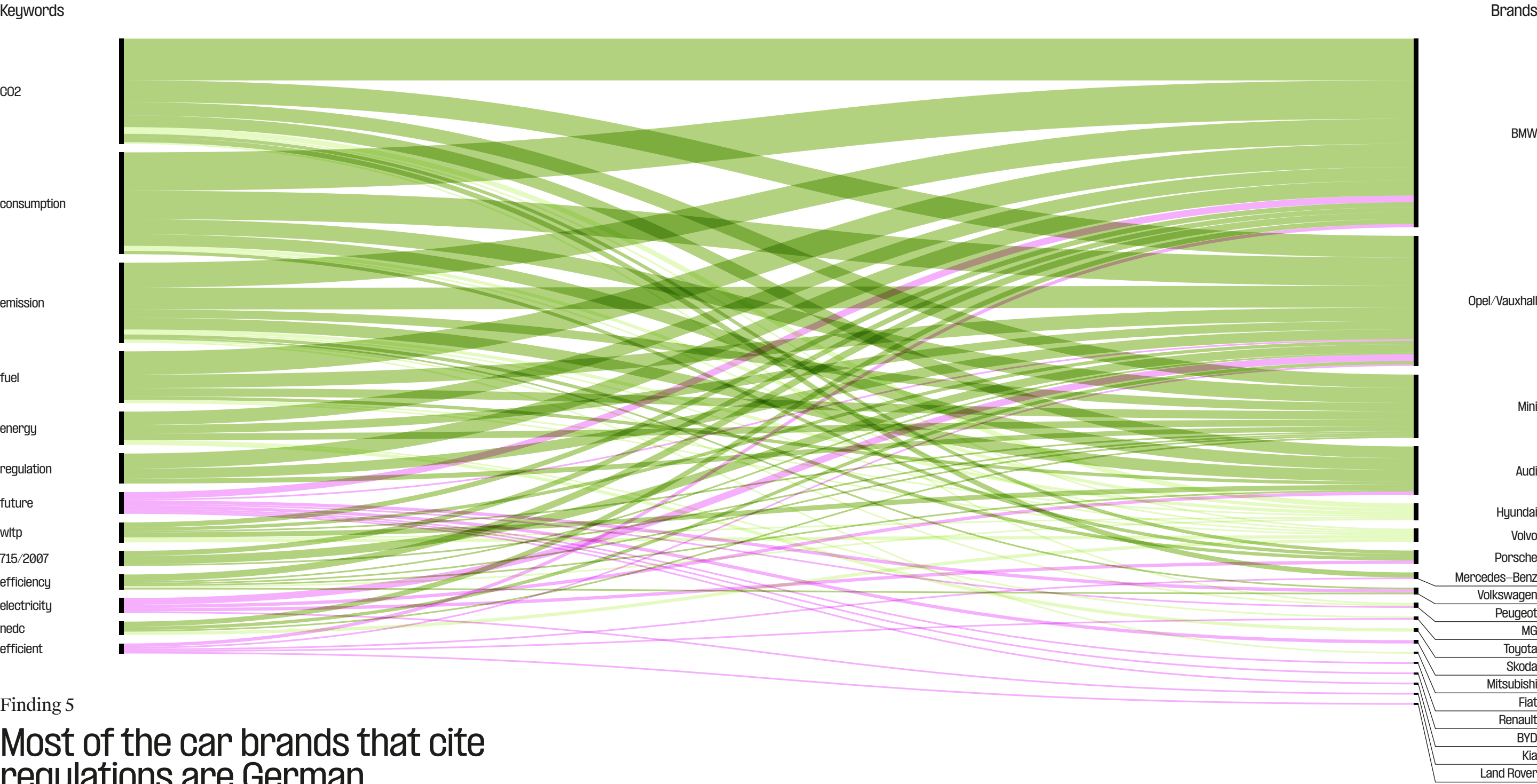
Amount of keywords

- 63
- 6

Finding 4

'Electricity' and 'future' are mostly used for electric vehicles

When describing **BEVs**, car brands tend to use the words *future* and *electricity*. Thus, they tend to rely on "green" buzzwords more than for other propulsion types.



Finding 5

Most of the car brands that cite regulations are German

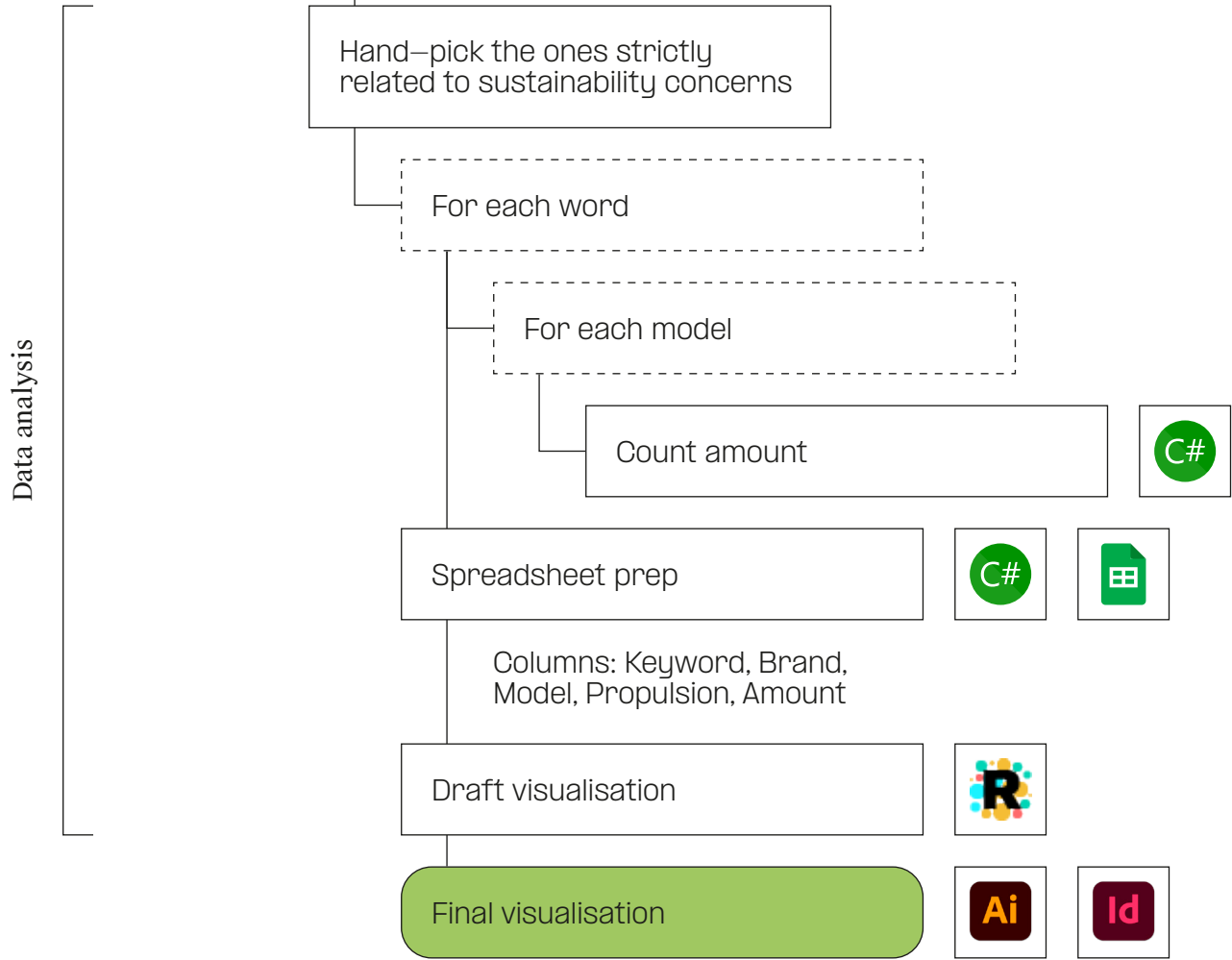
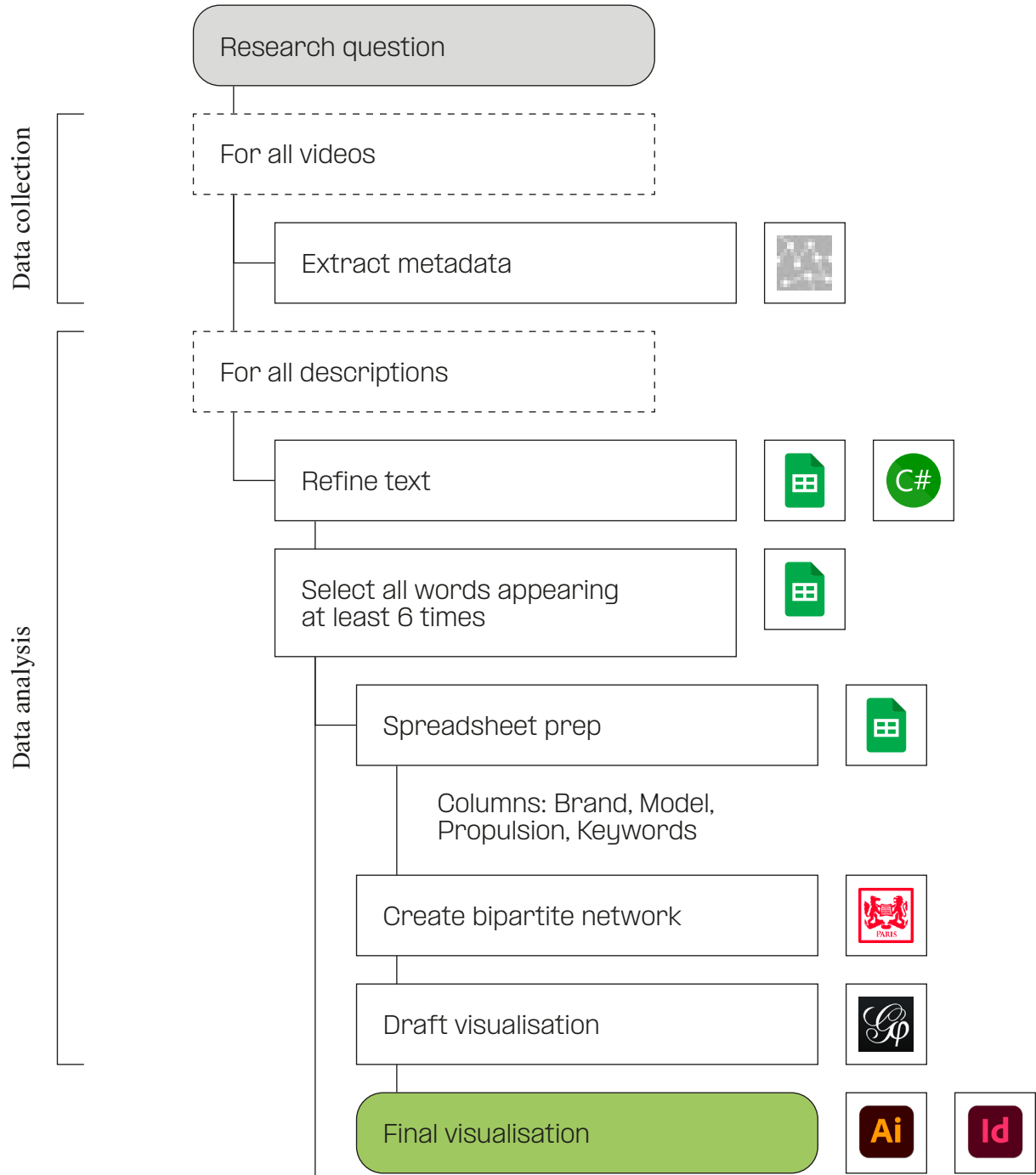
Many car brands that are headquartered in Germany tend to stress how much they respect regulations—especially BMW, Mini, Opel and Audi. It could be related both to local legislation, but also attributed to the amount of pressure that rose after the controversies that generally affected them in the past and still do today. It isn't the case for all of them, though, hence why we can see how Porsche, Mercedes-Benz, and Volkswagen generally prefer to maintain a lower profile.

How to read

Use of regulation-related keywords by German brands

Use of regulation-related keywords by non-German brands

"Green" buzzwords



How to read

Query

Action

Iteration

Condition

Output

Tools

	Youtube Data Tools		Google Sheets		C# CLI custom application		Table2Net
	Gephi		Adobe Illustrator		Adobe InDesign		Rawgraphs

More subtle than expected

To sum it up, we couldn't find glaring cases of greenwashing in the selected advertisements. Nevertheless, we noticed how most brands prefer to show their models in a stereotypical, de-anthropised setting, rather than in realistic scenarios. In particular, **ICEVs** tend to be associated with natural, wild and adventurous landscapes (with the vehicles perfectly integrated as a part of them), while **HEVs** and **BEVs** are often exalted for their high-tech qualities, and regarded as the future of the whole sector. Moreover, we noticed the ubiquity of trees and greenery in the backgrounds of the videos to make them look greener across all settings and propulsion types.

This trend—from a narrative and rhetorical standpoint—is also true: most car brands decide to make use of more subtle strategies to associate their models to the concept of sustainability—especially for **ICEVs**—and often disclose emissions and consumption information, but not for enough time.

From the videos' descriptions, we also understood that most brands tend to limit how much they talk about sustainability by stressing the fact that they're respecting emissions standards and generally avoiding bold claims or “green” buzzwords.

References and resources

HarperCollins. (n.d.). Powertrain. In Collins English Dictionary. Retrieved November 11, 2022 from <https://www.collinsdictionary.com/dictionary/english/powertrain/>

Demandt, B. (n.d.). European car sales analysis 2021 – Models. carsalesbase.com. Retrieved from <https://carsalesbase.com/european-car-sales-analysis-2021-models/>

<https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32007R0715>

https://en.wikipedia.org/wiki/New_European_Driving_Cycle

https://en.wikipedia.org/wiki/Worldwide_Harmonised_Light_Vehicles_Test_Procedure#cite_note-1



