The Digital Ethics Compass

DESIGN MATTERS JP 2022

CHARLIE TANGO

Charlie Tango **Design Matters** 15.05.2022

Rasmus Sanko

Chief Strategy Officer





Who we are and what we do





We assist businesses and organisations that are passionate about their field of expertise and aspire to excel digitally.

We accomplish this by designing and implementing user centric, data driven products and services of the highest quality.

Together we create modern, digital businesses and organisations that provide meaning and value for society as well as individuals. Charlie Tango Design Matters

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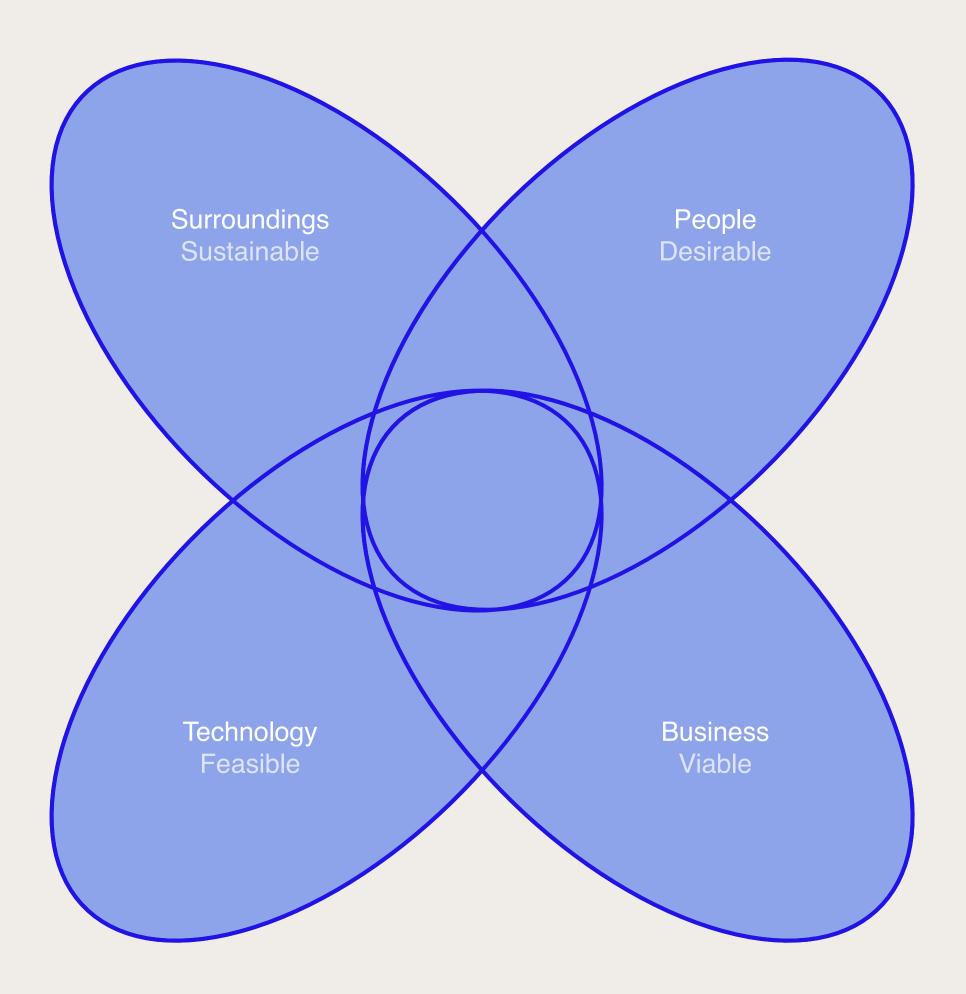
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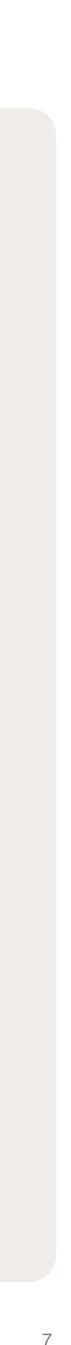
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Design approach





Insight driven & user centric

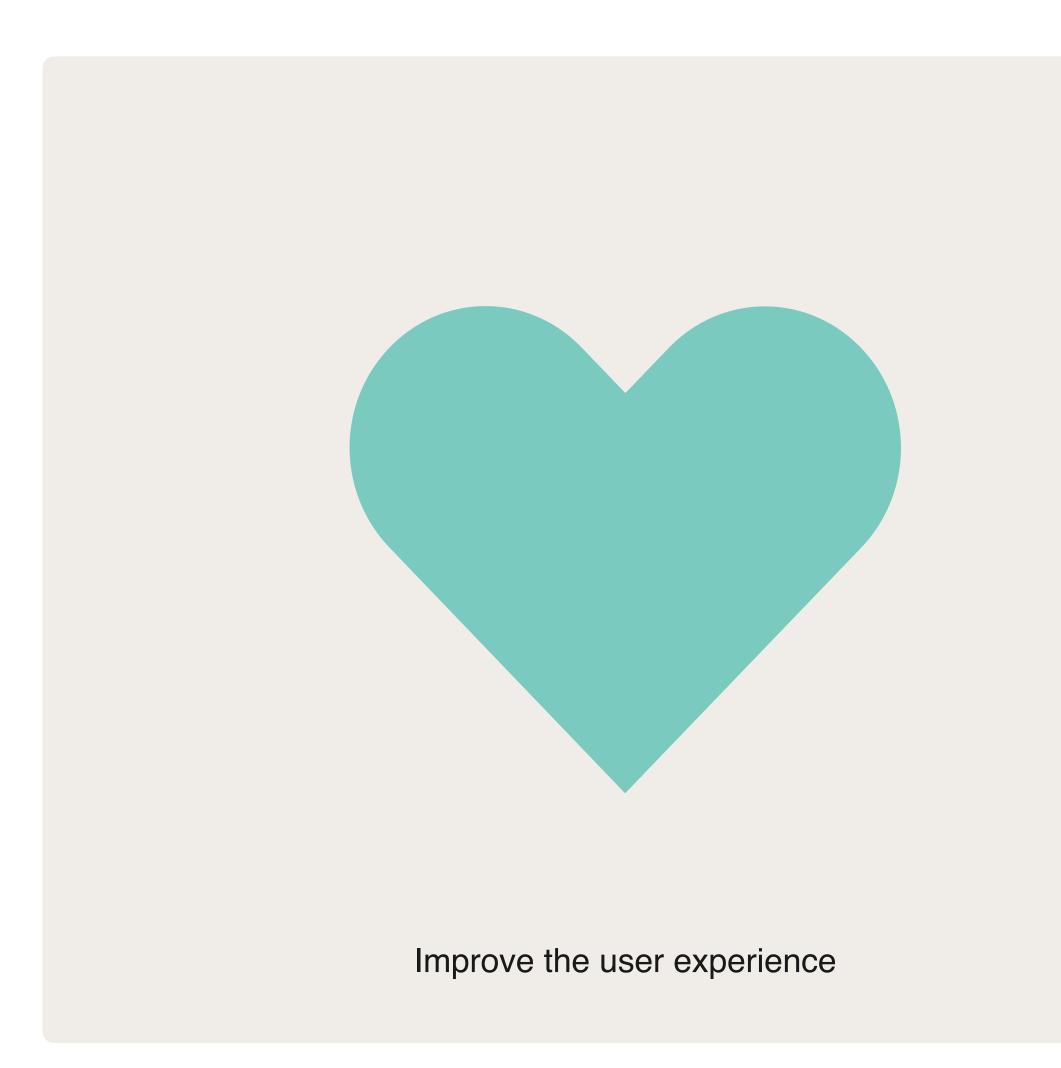




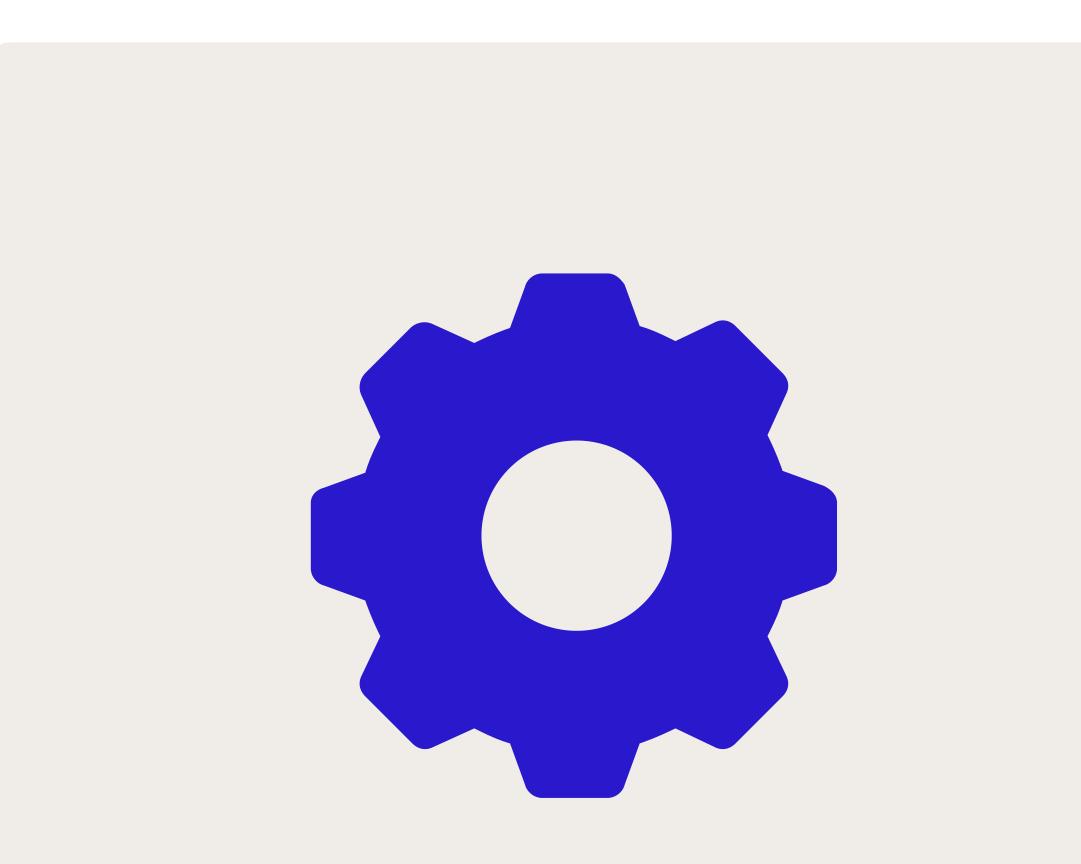
Co-creating, conceptualising & validating



Two main tasks



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Streamline and automate workflows

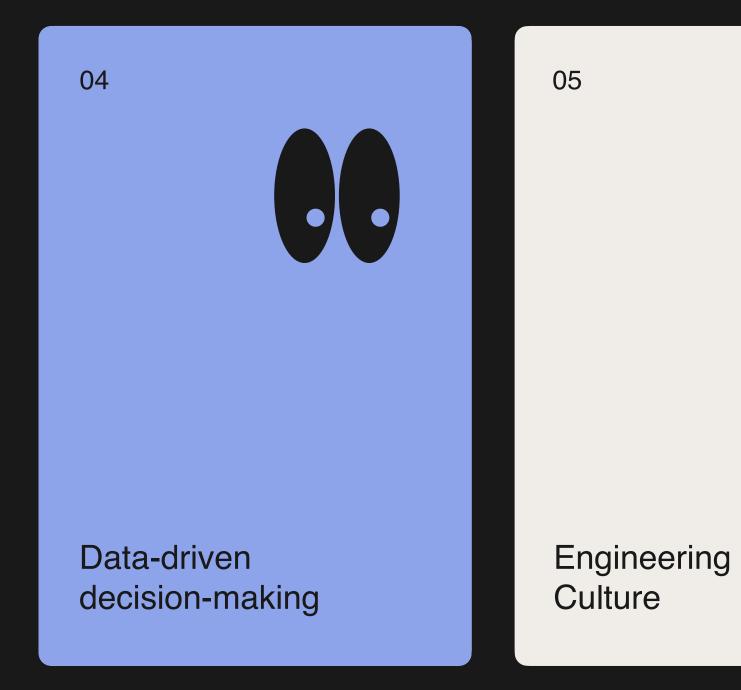


Digital transformation

Key areas for the modern organisation

010203Frictionless
Operation ModelExperience
DesignPlatfor
& Implet

Platform Strategy & Implementation



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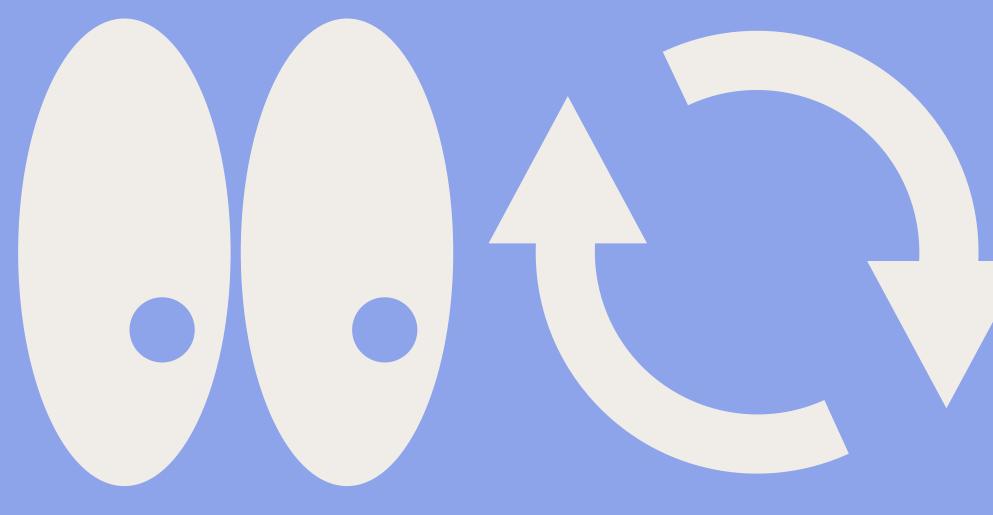


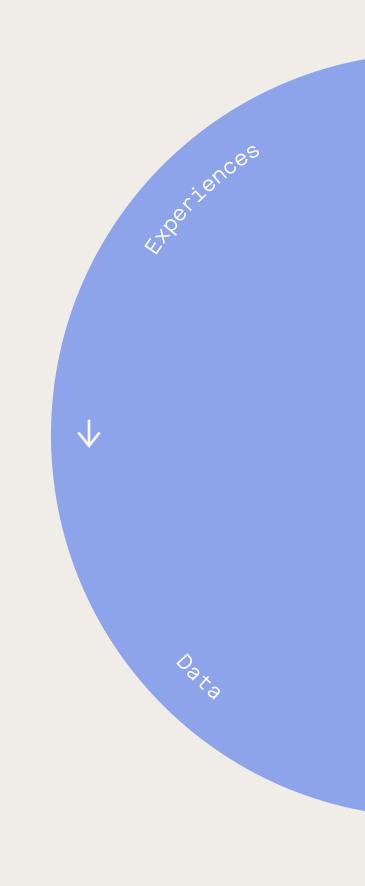
How Might We

Data Driven **Products & Services**

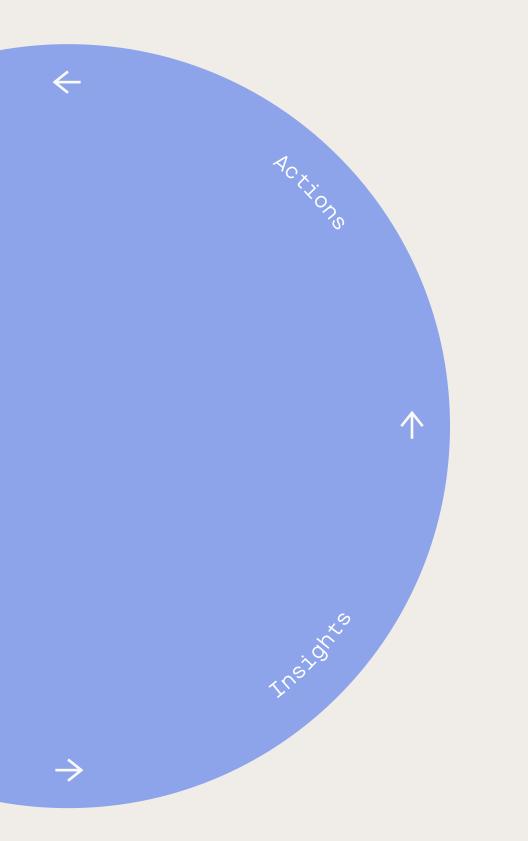
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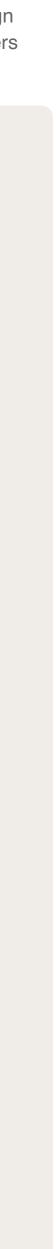
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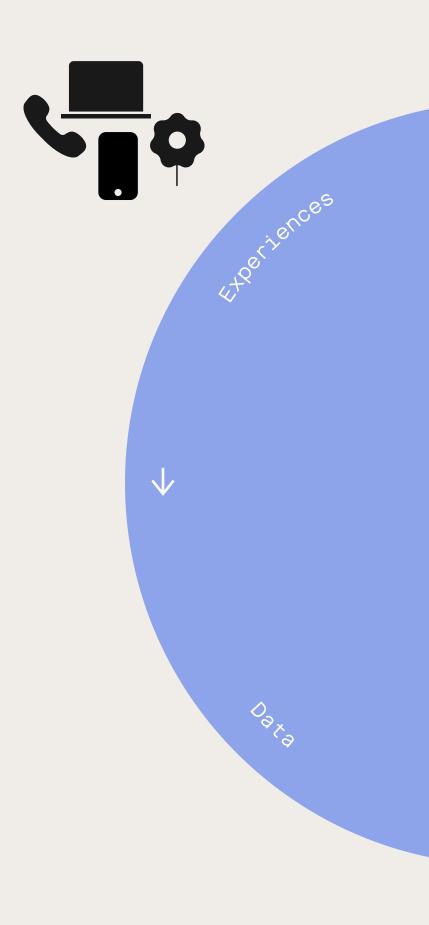




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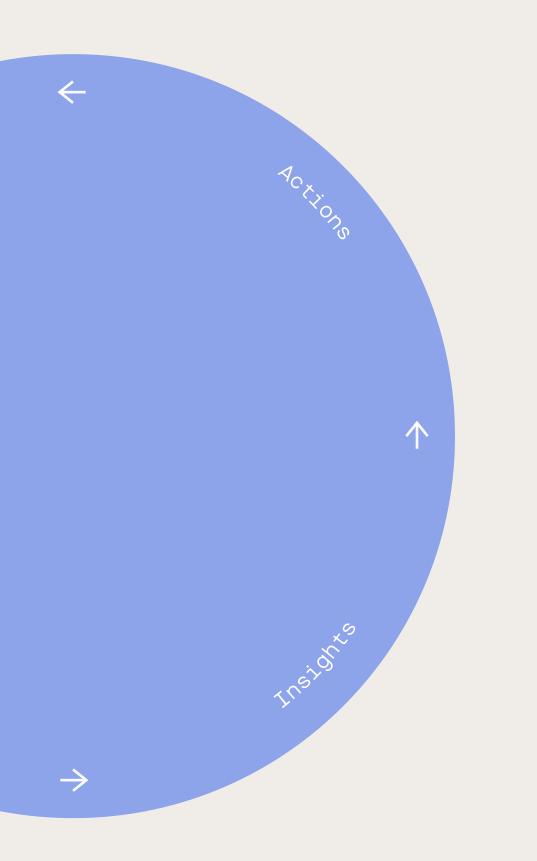




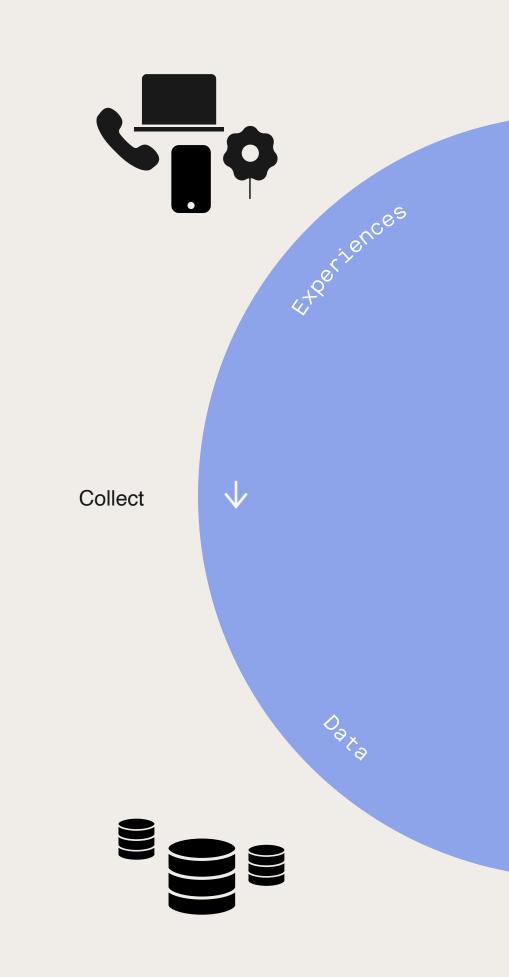


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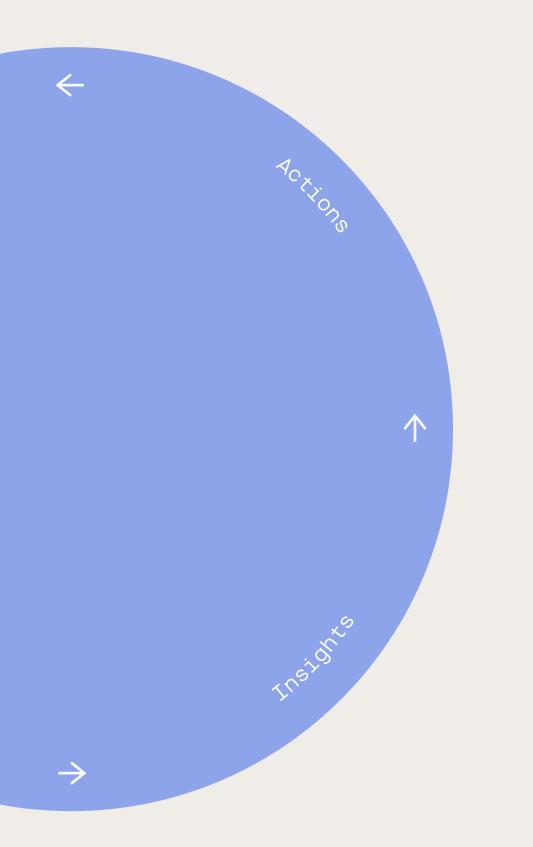




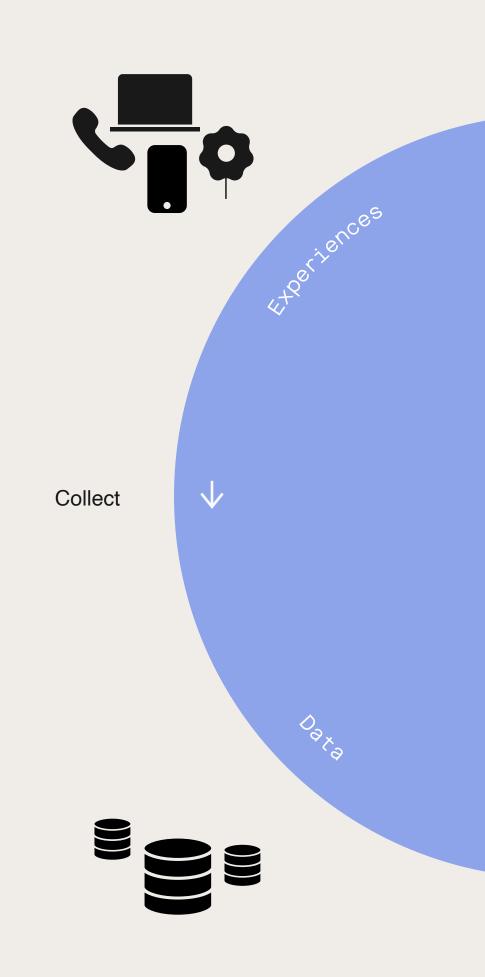


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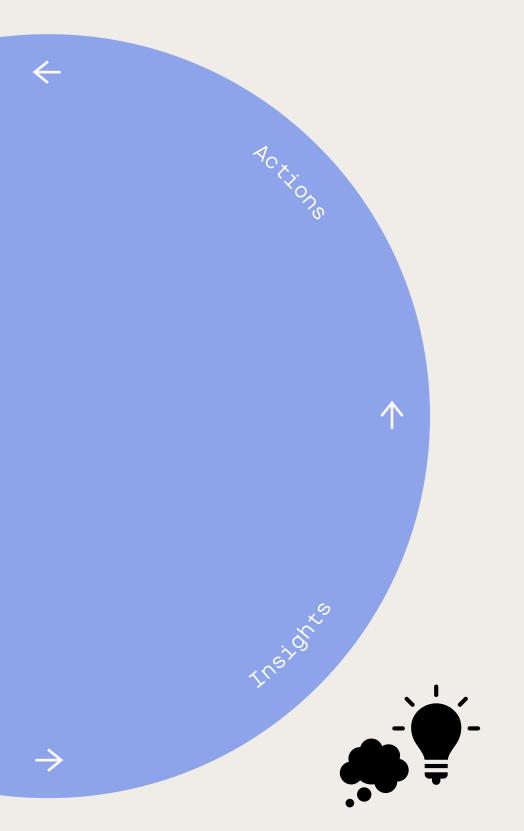




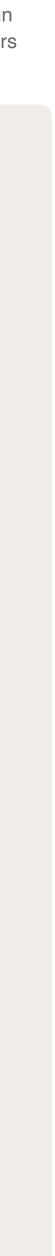


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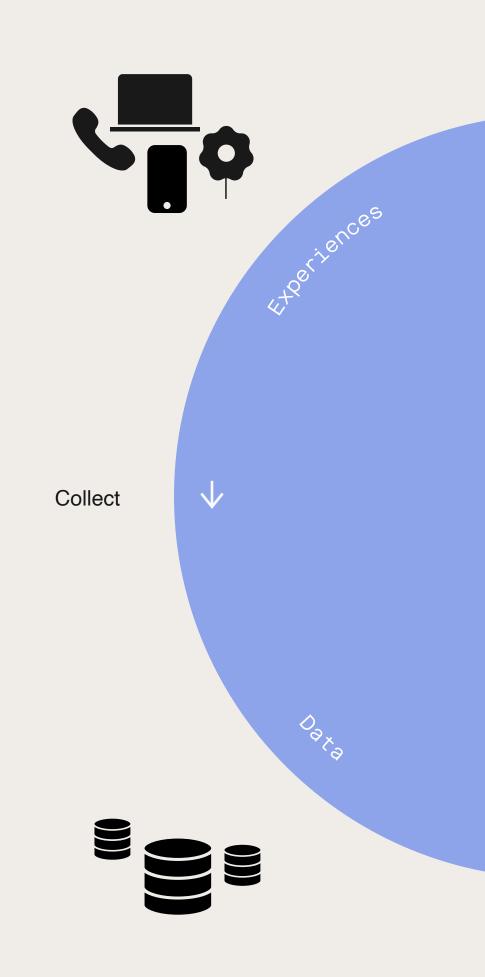
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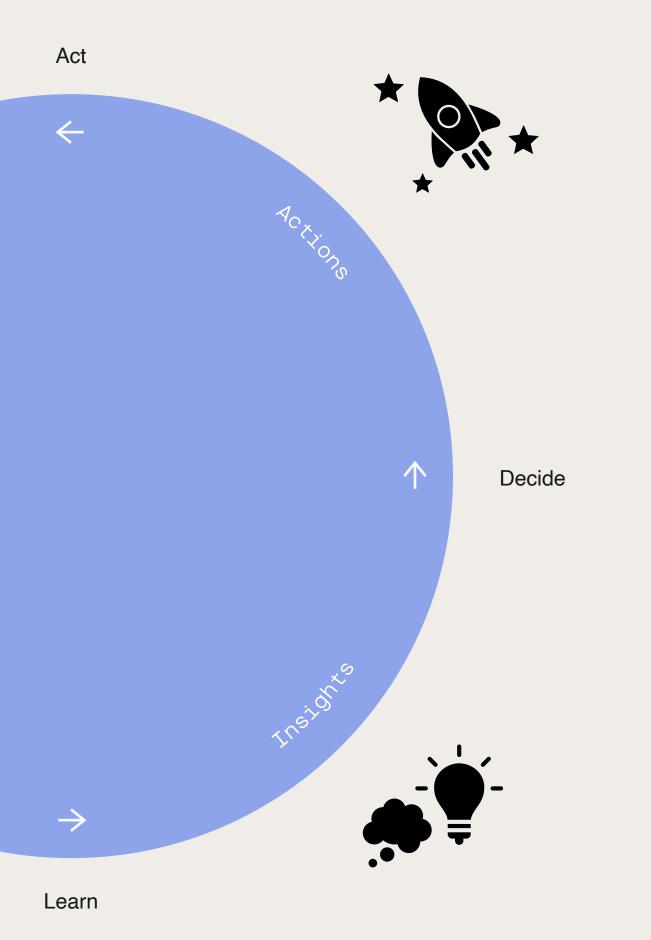
Learn





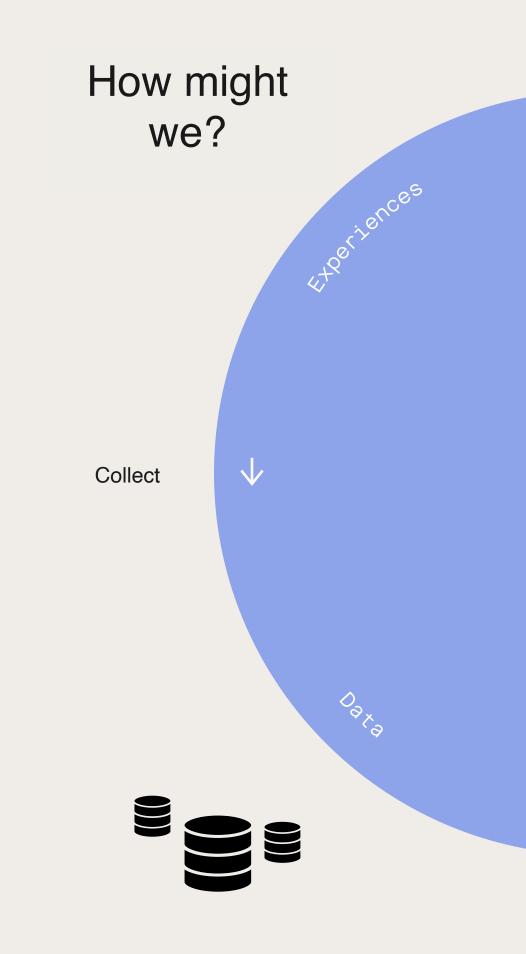


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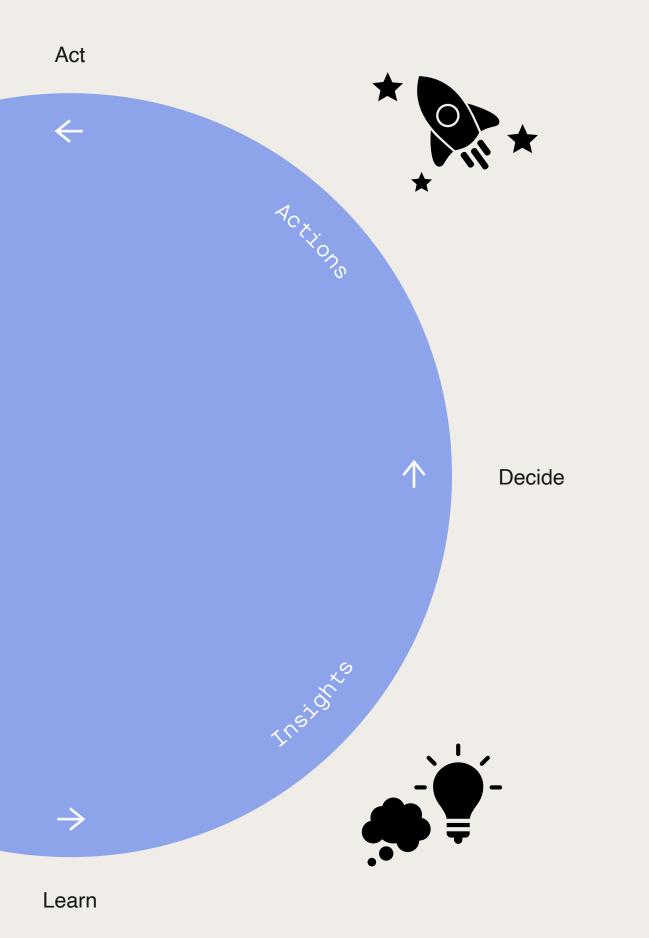


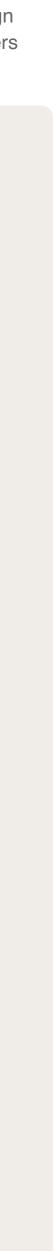
Data Driven Products & Services



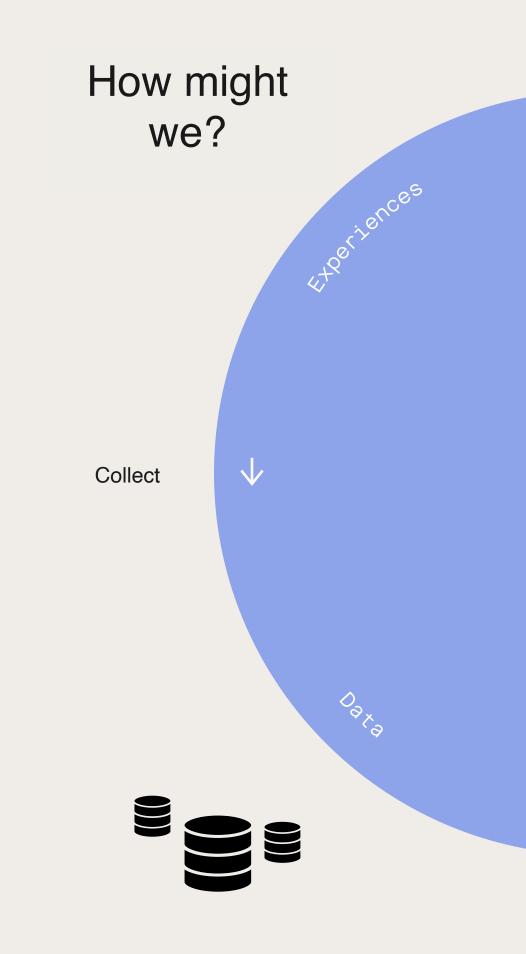
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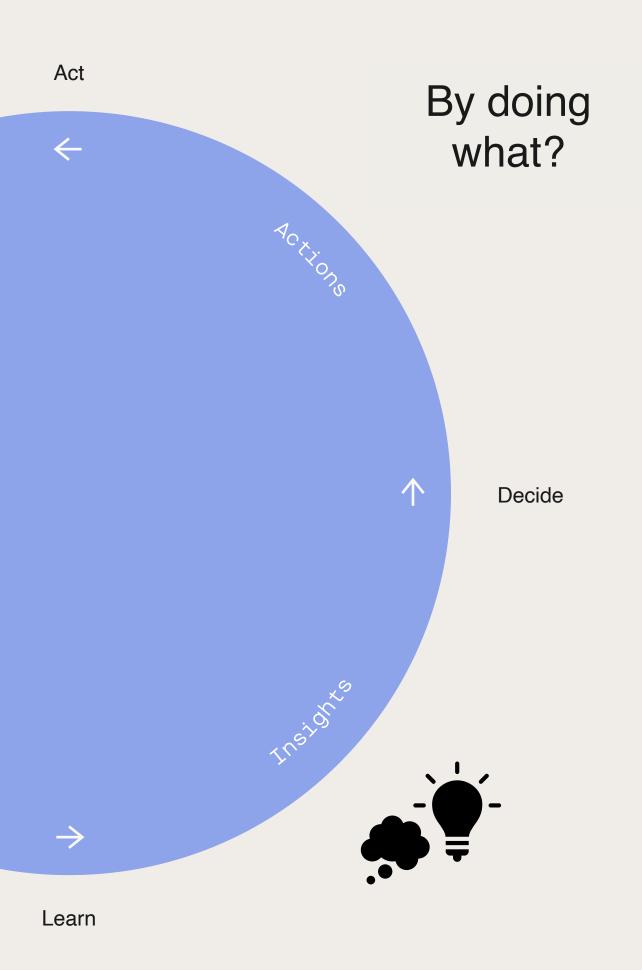


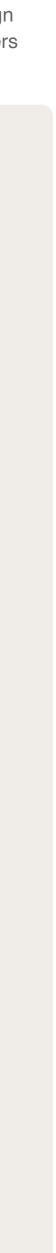


Data Driven Products & Services

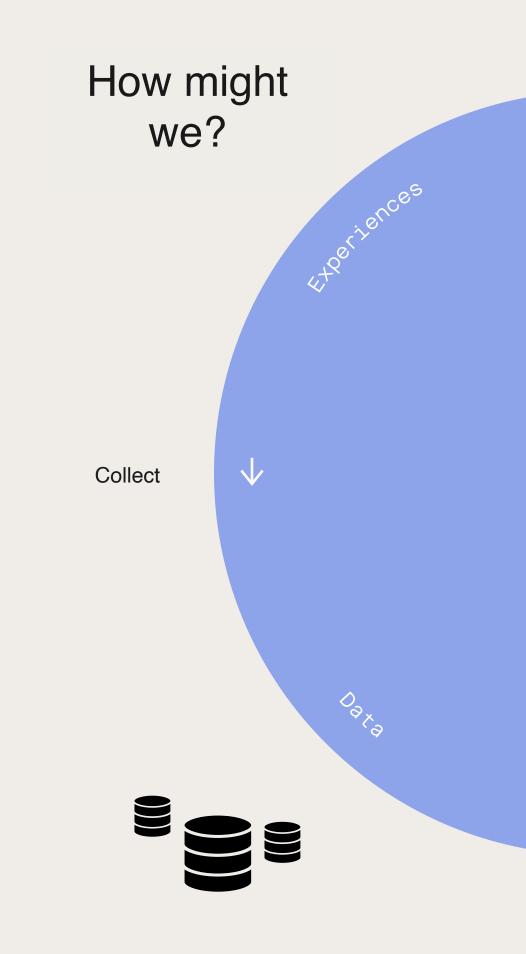


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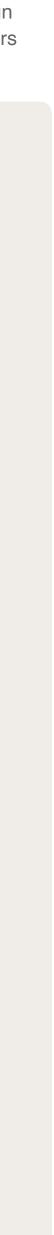


Data Driven Products & Services



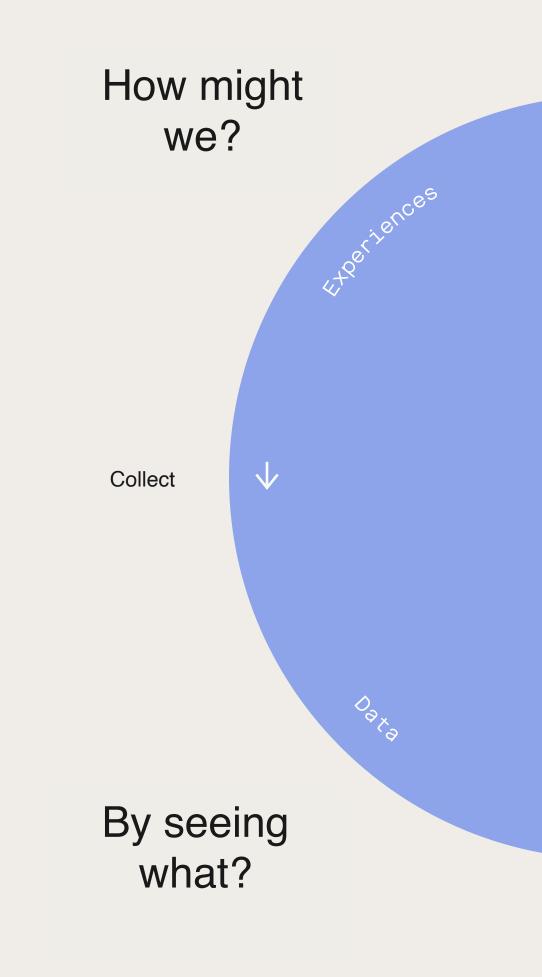
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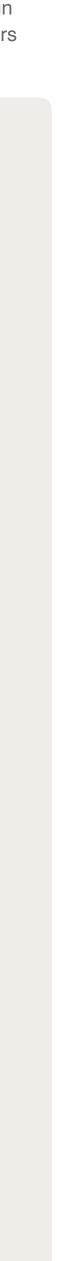
Data Driven Products & Services



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Radiologisk Artificial Intelligence Testcenter











Voter Declarations



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Citizen Proposals

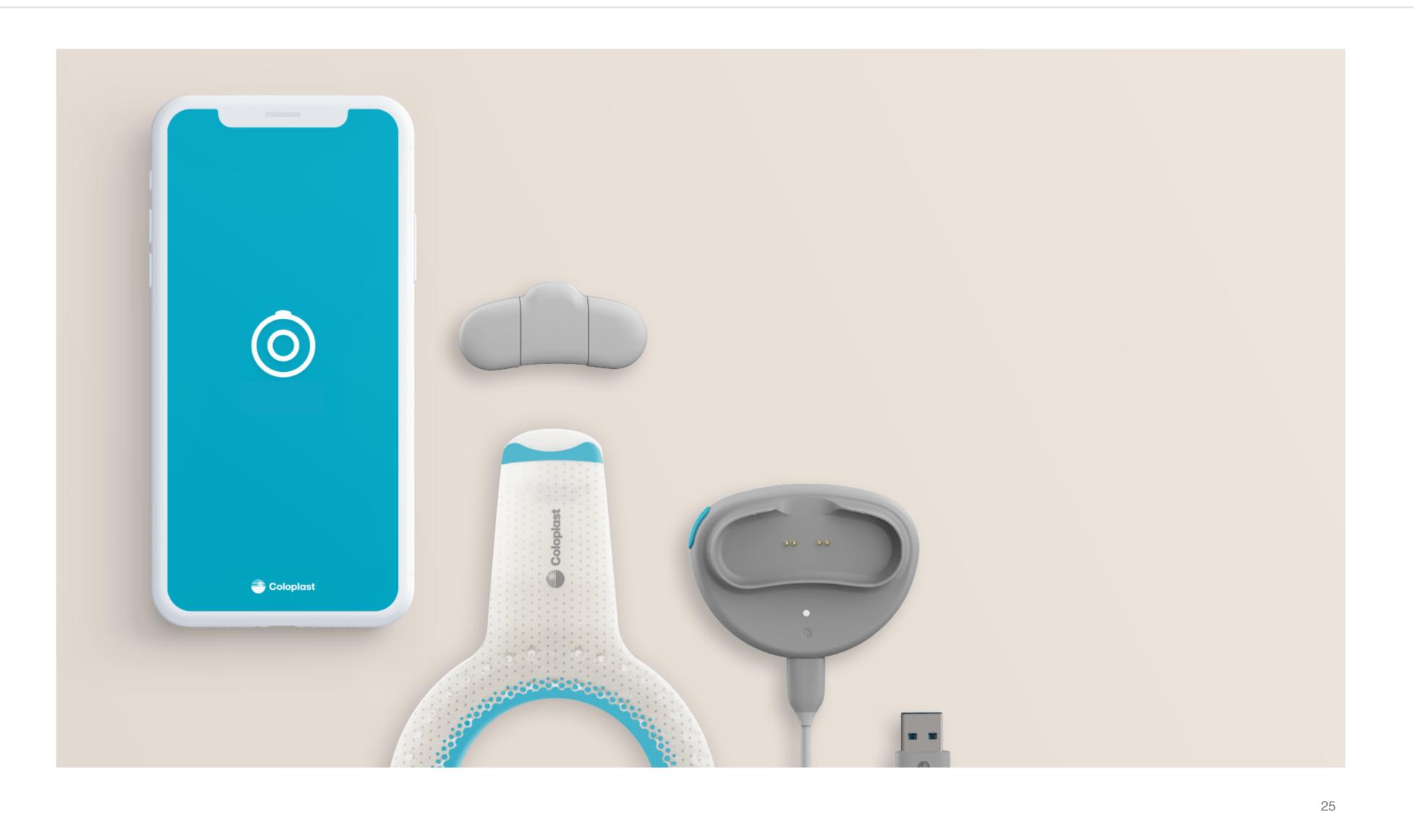




Coloplast









The Digital Ethics Compass

What, why and how





The Scandinavian design tradition is about people







We are becoming more & more digital and automated

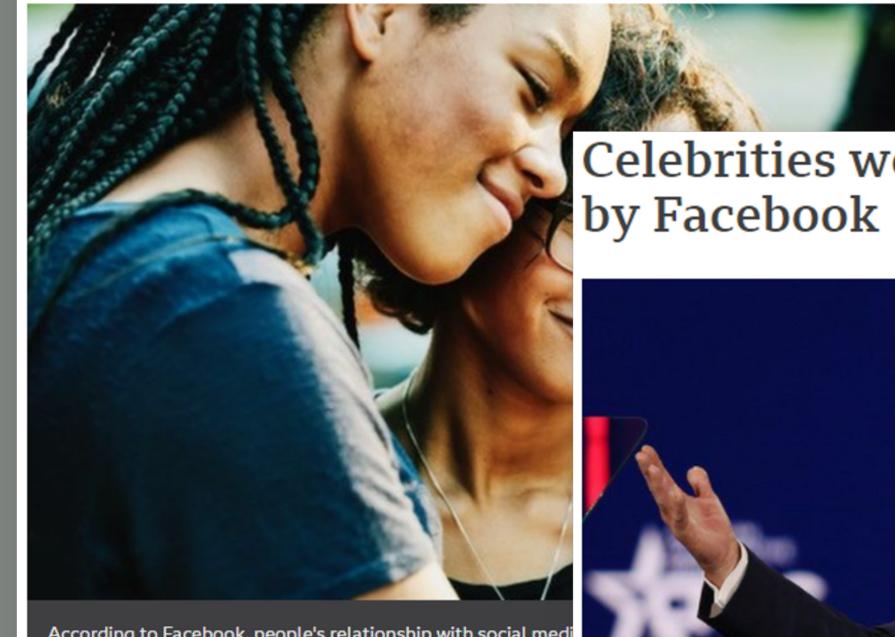
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We are constantly making decisions with ethical consequences

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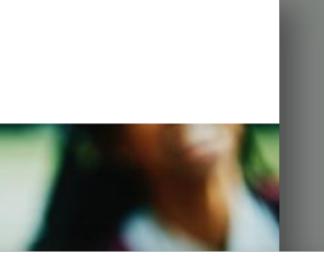


Facebook knew Instagram was 'toxic' for teens



According to Facebook, people's relationship with social medi

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Celebrities were treated differently



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19

someone.

Raeschell Niakya Wakiesha Sumata Latrella Sahirah Keytra Resheda Tashenia Flisha Quitalla Kolethia Kesia Dabratzi Snicka Chalay Rovetta Meosha Tamikka Nakia Mirmala Tanika Jemelah Laneeda Lkiesha Sonyette Contrennia Jacinda Khadija Ginnette Tynette Veneitte Talana Keshia Lennette Salathia Peninnah Chanteria Roneshia Coletta Mishayla Tawana Shamecca Lakesha Inetha Tenera Desibrace Coletha Keesha Drwilda Shiqundia Queenlana Delinda Ayanna Malique Argirtha Fekisha Sharnell Jamaka Tetelalisa Khepri Claretta Hairothea Caprolanda Niakya Demetra Sumatra Neeama Cleastine Tashondria Lashon Natacha Shadelle Theresia Valkisha Bethena Kianna Nichelle Shemika Everloyce Sharkesha Jenise Ziondrea Latanza Noella Syretta Ghalyah Shalako Jilisa Tafreesa Sheritta Keyah Latifah Charisa Renneda Quonish Kiyanka Tanisha Shonta Shennelle Mandisa Tonisha Kenisha Makayla Narie Jerrica Shontel Felisha Tizza Moniqua Lashae Tinisha Tawonda Shanita Shonek Hazline Jazmin Shkise Tiara Shranda Sakura Ronisha Anaijah Raeschell Sha'Shauna Gerschell Zoriyah Evaretta Malyaia Qadeera Camesha Tynisha Briahna NaTasha Schanta Curtisa La'tonia Kalia Oryntha Mikayla Ebonee Chantel Quentera Keziah Shekila Cludetta Aaleah Ebony Danette Shanice Takira Sharee DeNisha Nalsya Tekena Thomeka Malvina Laquinda Sharleene Nekasa Kwadi Ja'Tovia Rashida Anunnaki Nashira Faizah Shayna Lethia Phelisa Dronellar Meechala Hynifah Nikia Shiann Akllah Shamiyah Shatora Larrika Lavetta Meosha Jaterra Zeldra Natanya Daleshawna Shawanna Lateatha E'monie Destine Kamildh Denisha Carlette Glenshler Deecoily Shantil Tamala Tamielya Nakeisha Tamisha Khlana Schnika Charnell Tiyon Shantelle Jzonque Ca'tina Joscalyn Shawnya Shalonda Ral'Nece Chalandra Taloria Tiffanique Tanachi Jakyra Zanaysha Chieboni Aivaye Jakerria Janieka Raenette Michel'le VeEtta Chanell Jawon Ronette Kawanda Seechanna Denishia Senalka La-a . . . Harlow Bristol

A collage of dozens of Black names marked as misspelled by Microsoft Word's built-in spell checker. 2016, Pluralism, Deborah Roberts, Serigraph on Paper.

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ARTIFICIAL INTELLIGENCE TECH AMAZON Amazon reportedly scraps internal Al recruiting tool that was biased against women

The secret program penalized applications that contained the word "women's"

By James Vincent | Oct 10, 2018, 7:09am EDT

NEWS 24 October 2019 Update <u>26 October 2019</u>

Millions of black people affected by racial bias in health-care algorithms

Study reveals rampant racism in decision-making software used by US hospitals – and highlights ways to correct it.

Heidi Ledford





Black people with complex medical needs were less likely than equally ill white people to be referred to programmes that provide more personalized care. Credit: Ed Kashi/VII/Redux/eyevine

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What's ethical anyway?





02. The Digital Ethics Compass

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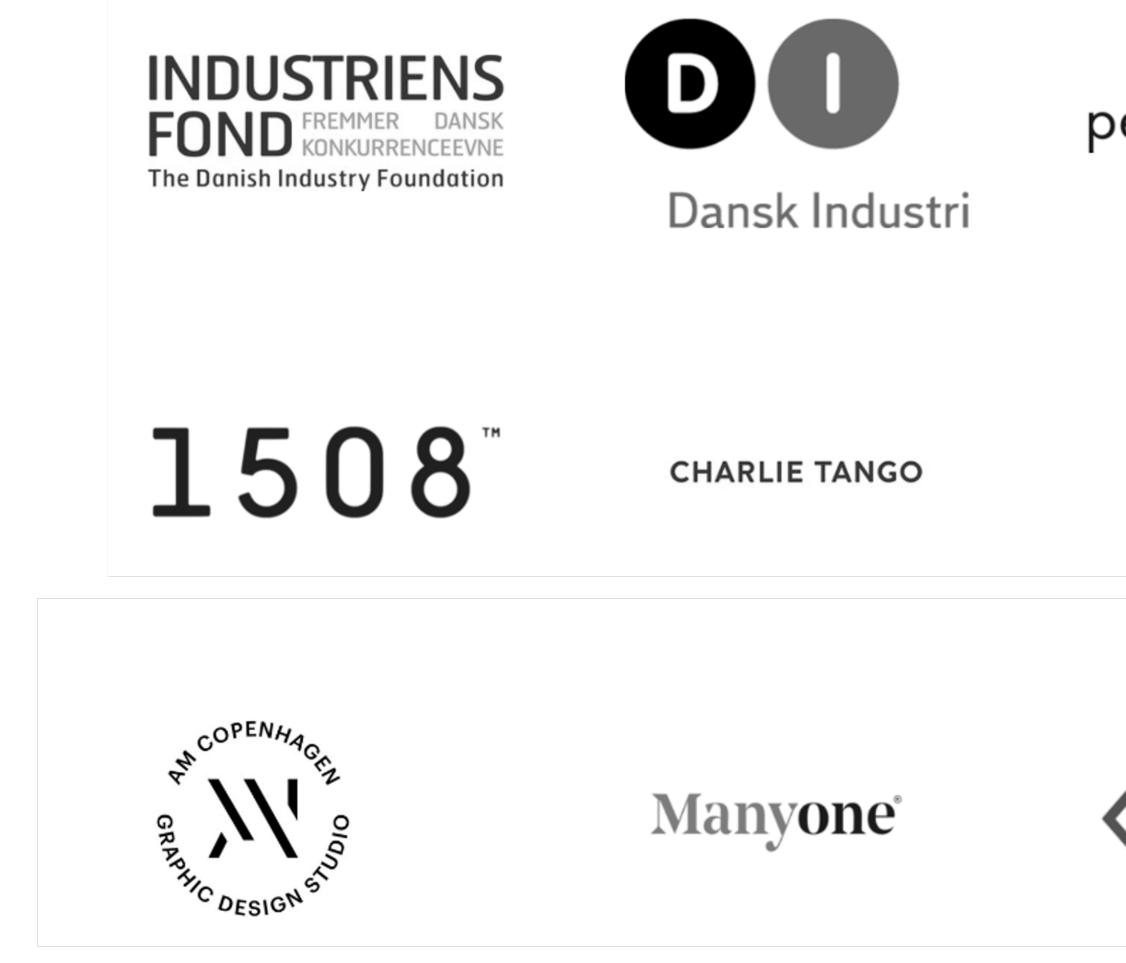


"The one who is very strong, should also be very nice"

Pippi Longstocking, by Astrid Lindgren Charlie Tango Design Matters











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petersvarre.dk

Flip Stud!o

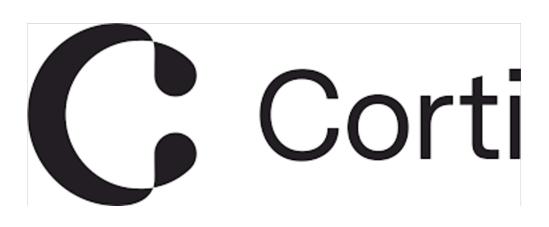
A customer experience company



Dansk Design Center

DATAETHICS

elektronista



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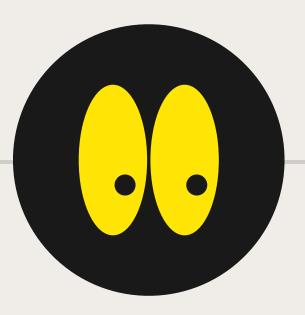
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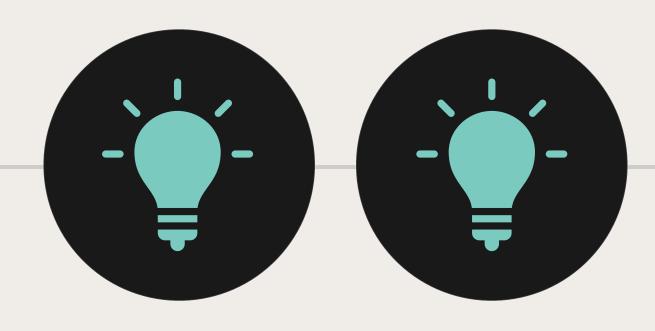


02. Gor I det bevidst svært for brugere at finde eller forstå information eller funktionaliter?

Marken and American A







2x workshops

Scoping

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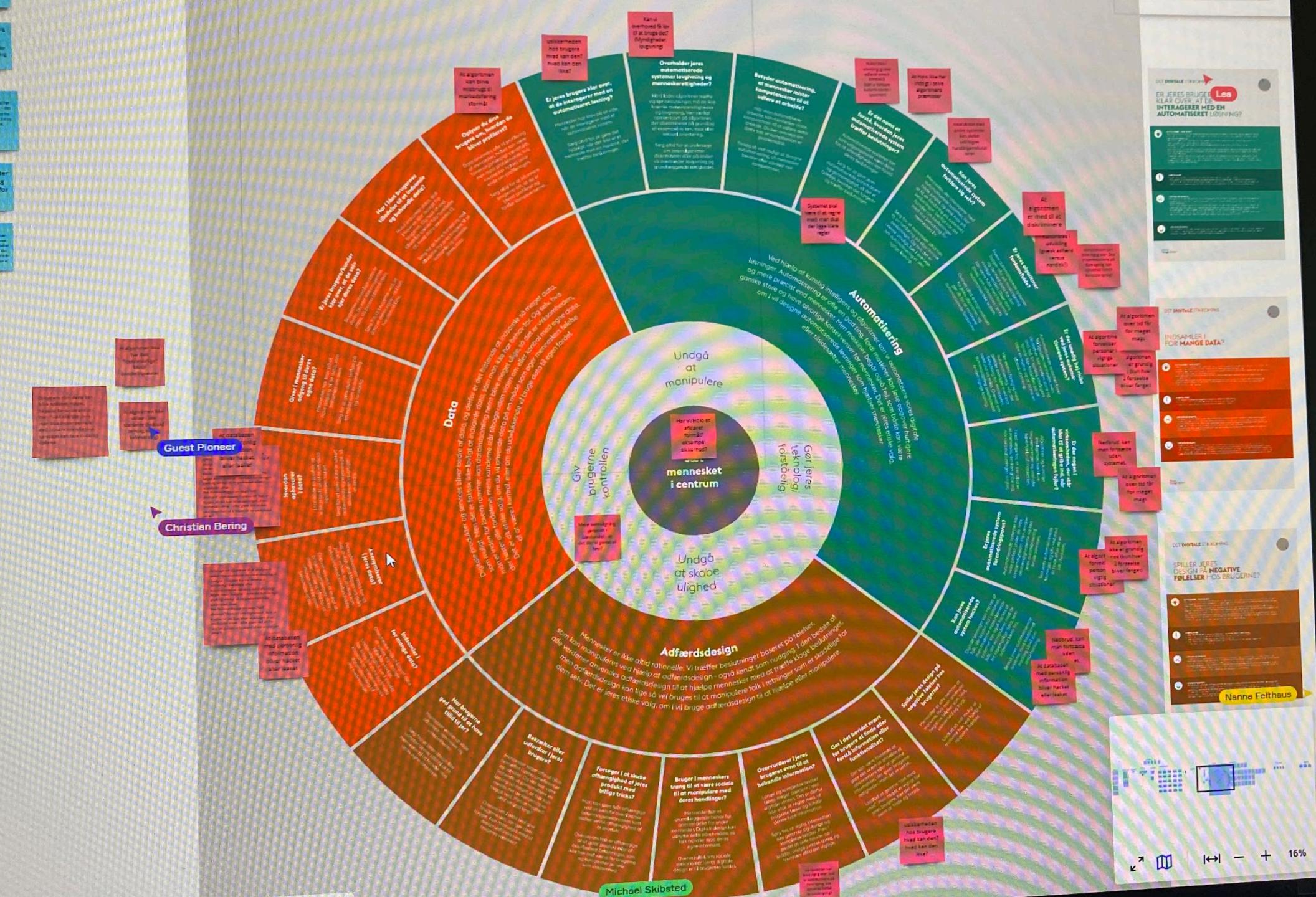


Continuing the work

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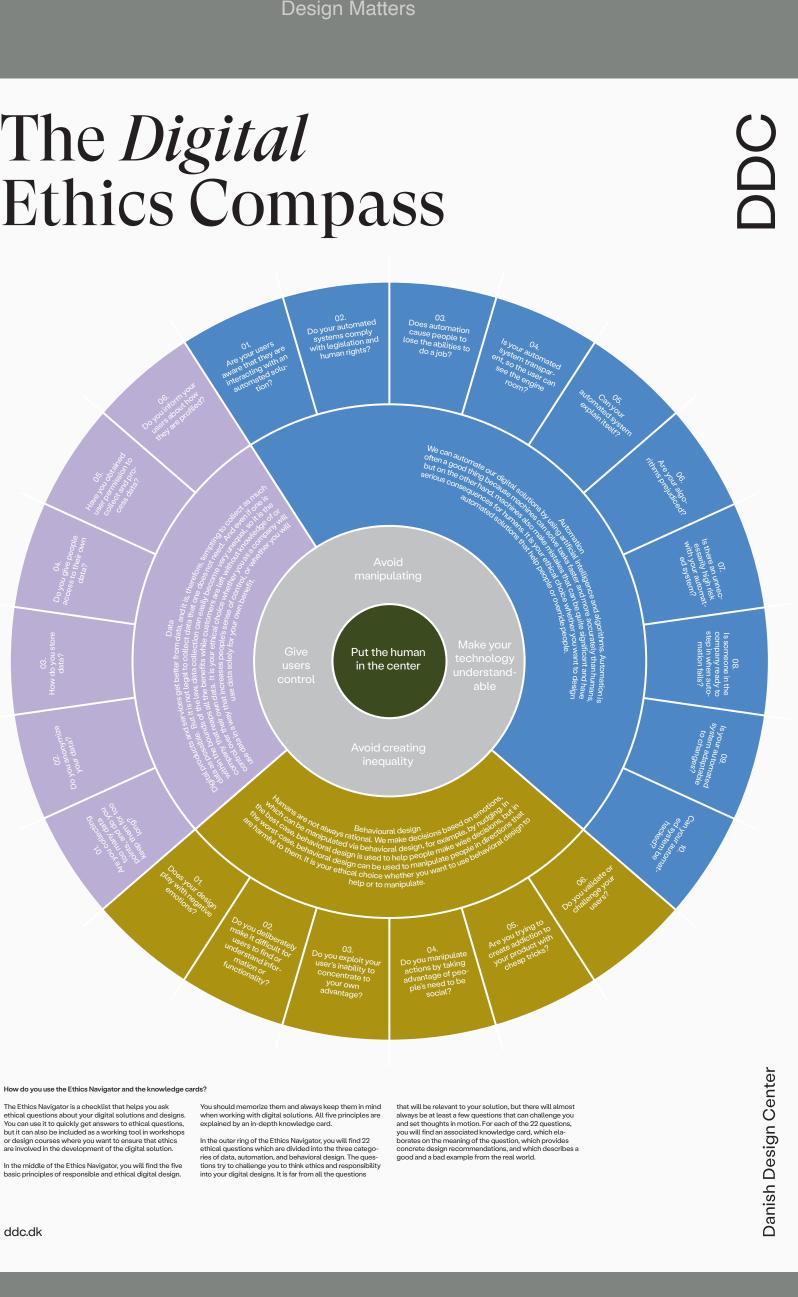
The Digital Ethics Compass is a tool that...

Helps companies create a shared focus on, understanding of and vocabulary around ethics

Provides companies with a framework for working with and securing an ethical focus in relation to concrete products and services

Gives us a chance to talk about ethics

The Digital **Ethics Compass**

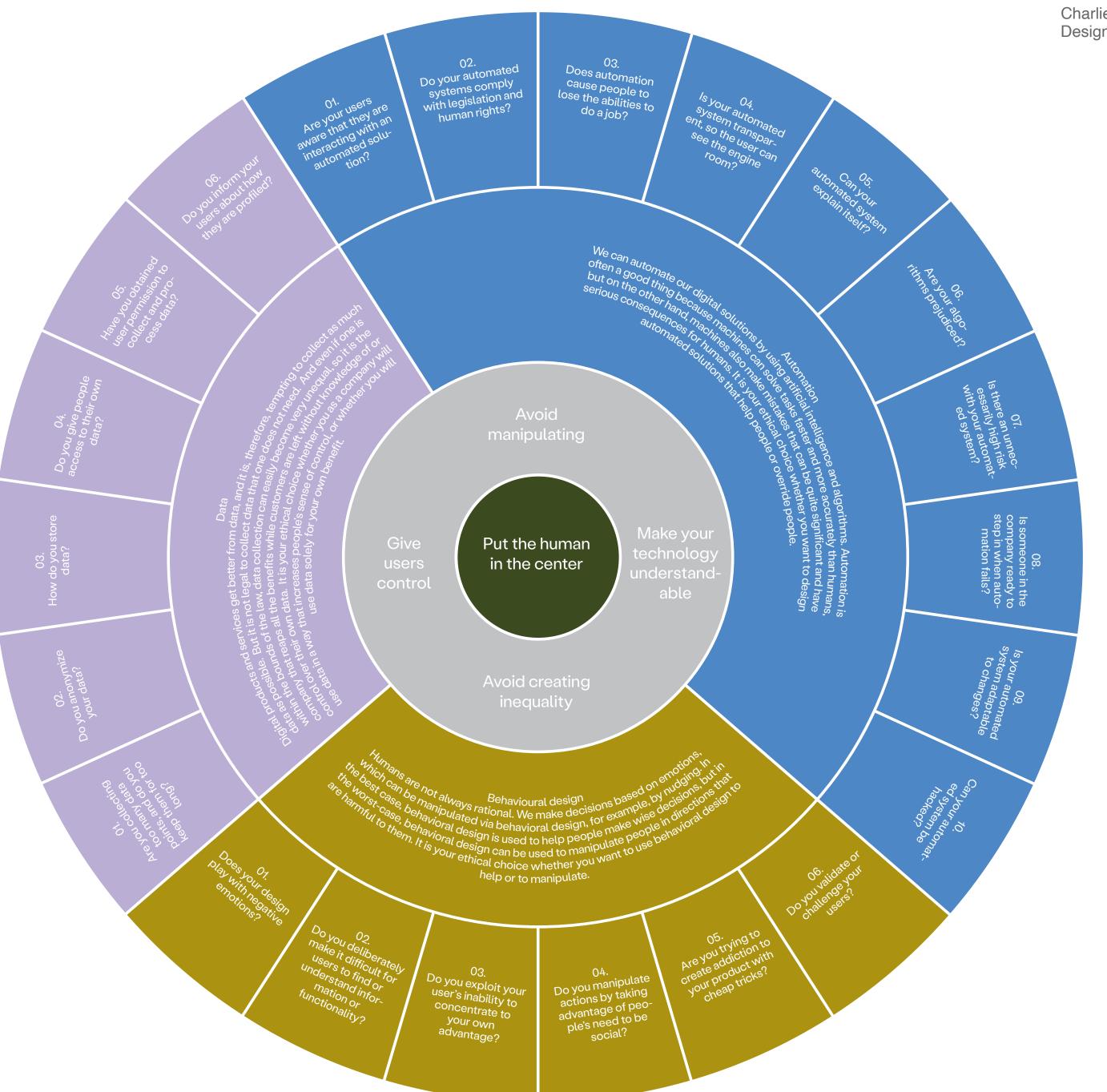


The Digital Ethics Compass

02. 02. Do your automated systems comply with legislation and human rights?

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Give users control

Put the human in the center

Make yo technolo understar able



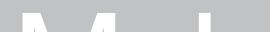
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Give USers control

Put the humar in the center









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Make your technology understandable

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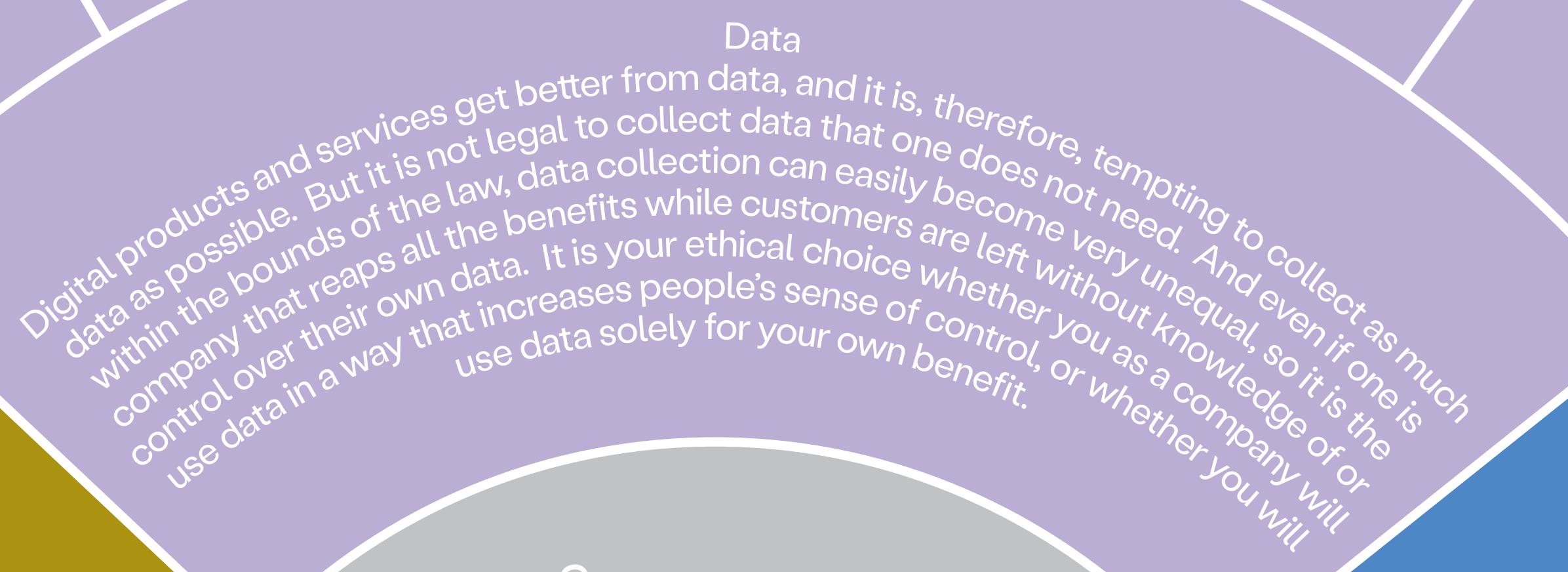
Avoid creating inequality





A COOS

control





01. Are you collecting too many data points, and do you keep them for too long?

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ount

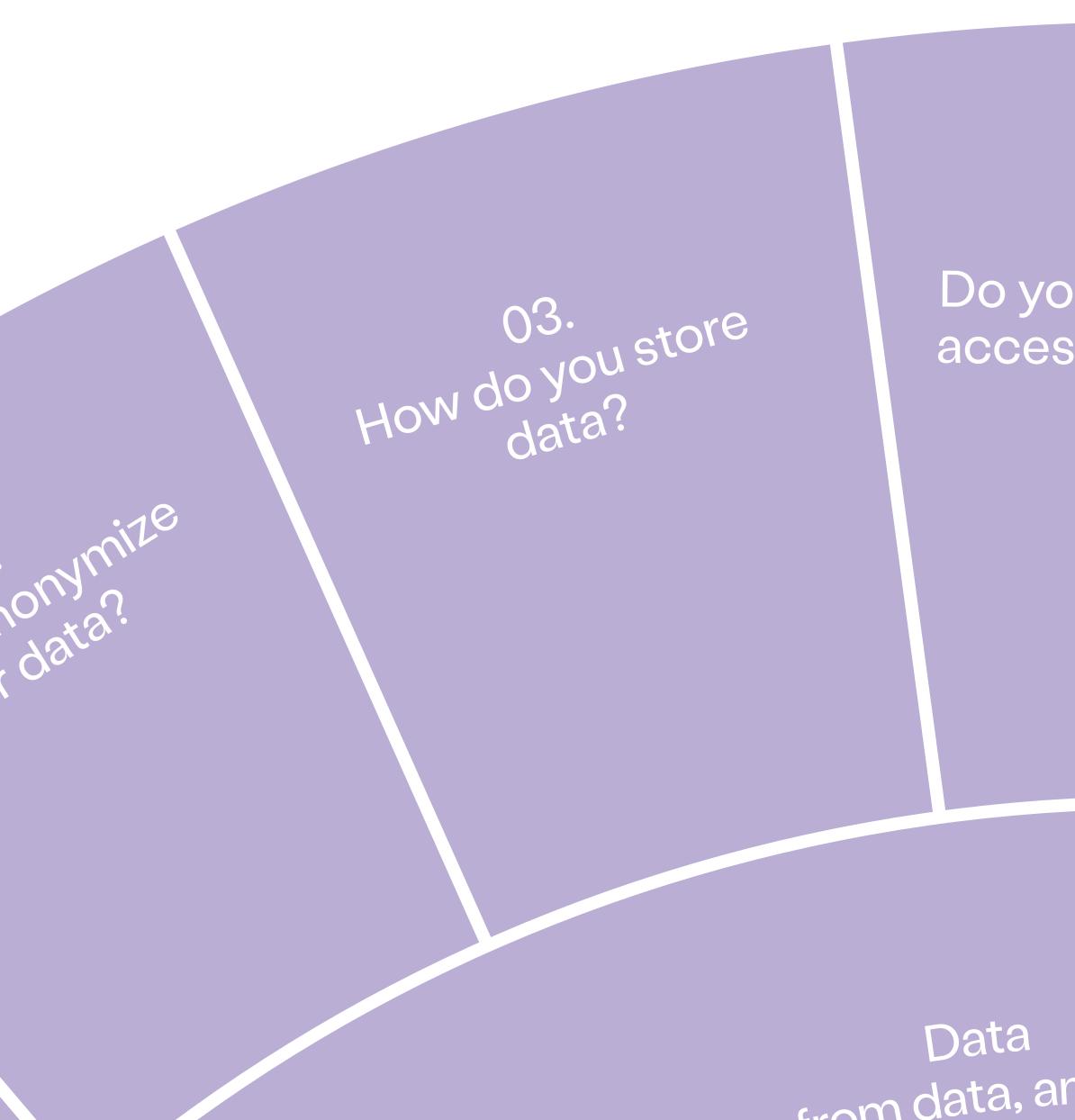
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Do you anonymize your data?

Digital products and





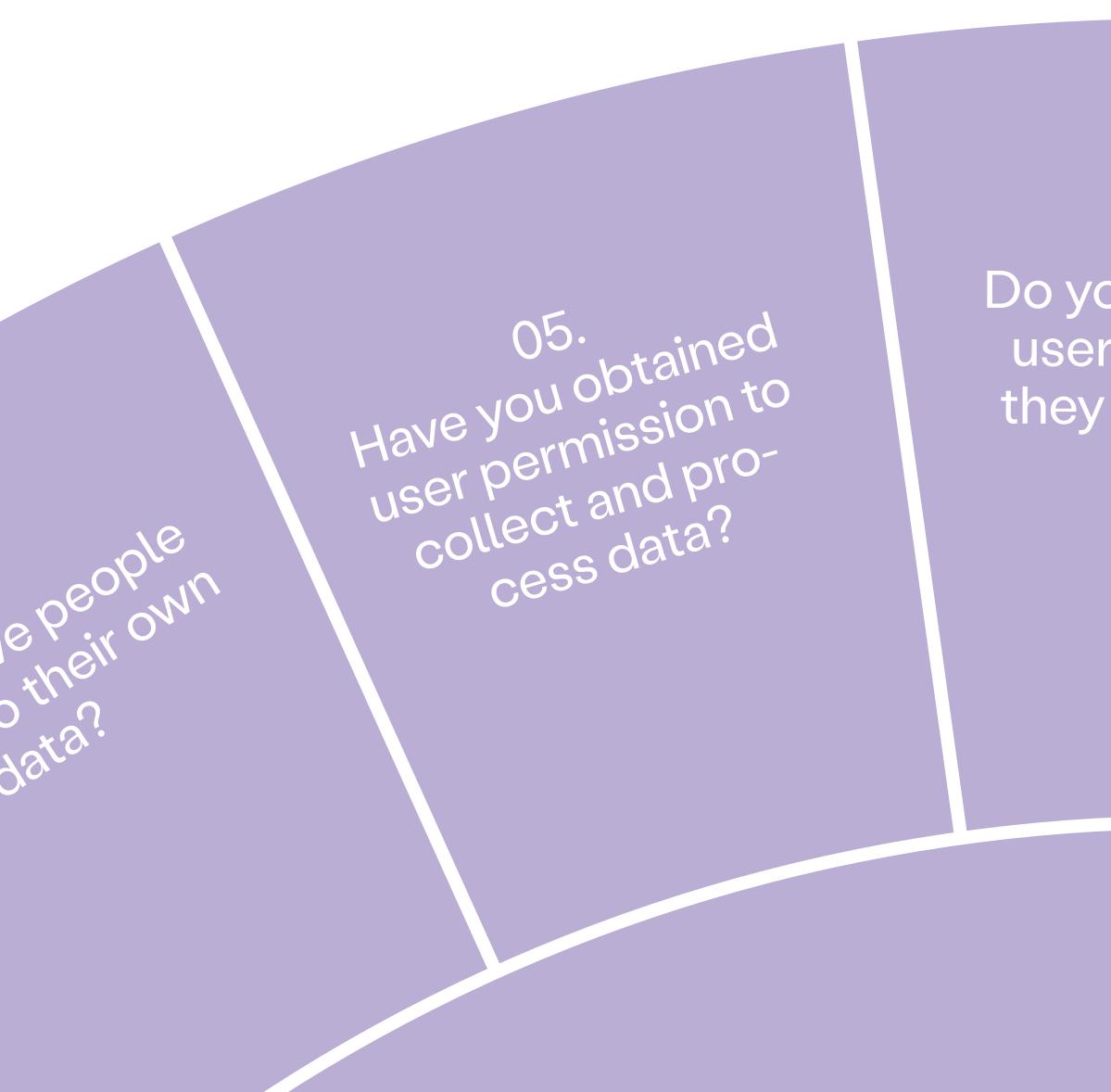
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04. Do you give people access to their own data?

Have you obtained user permission to collect and process data?

Data Data, and it is, therefore, tempt:





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06. Do you inform your users about how they are profiled?

01 Are your users aware that they are interacting with an automated solution?

to collect as much





Avoid creating inequality

help or to manipulate.







harmful to them. It is your ethical or to help or to

Does your design play with negative emotions?

02. Do you deliberately make it difficult for users to find or understand information or functionality?

107

03. Do you exploit you User's inability to user's inability to oncentrate to your own your age?







vioral design to

Are you trying to Create addiction to Your product with cheap tricks?

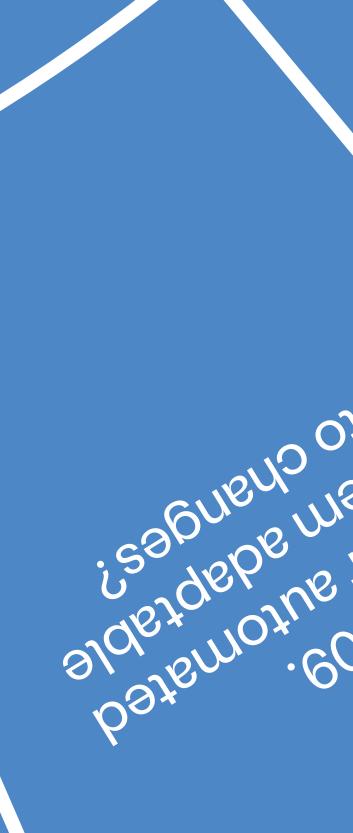
06. Do you validate or challenge your users?

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Digita

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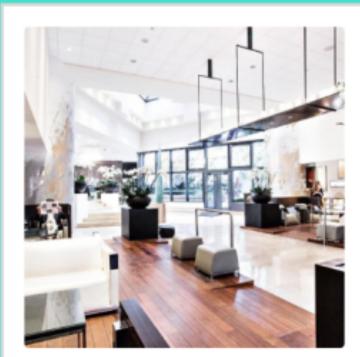
01. Does your design play with negative emotions?

sibo inor

are harmful to the

Doyou deliberately make it difficult for users to find or understand information or functionality?





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Novotel Paris Les Halles ********

Paris City Center, Paris – Show on map – Subway Access

31 people are looking right now Booked 27 times in the last 6 hours

Great Value Today 😵 🐼 😨

Double Room ****** In high demand – only 7 rooms left on our site! Risk Free: You can cancel later, so lock in this great price today!

See our last availa

Very

2,454

€

1641010

are harmful to the

Behavioural design

Recommendations

- Think about whether you use fear, uncertainty, and doubt as motivation in your design.
- Be especially careful with fear messages based on knowledge about the user.
- Think about whether you can turn negative communication positive.
- Be aware that false information such as "only one product left" may be false.

The bad example

(:(

(:)

Many hotel booking websites use messages that tell the user that x number of people have already booked and that you need to hurry to book at the price shown. Users are scared that the offer and dream trip will disappear or that the price will double

any minute. This practice is in itself

unethical because it uses fear and insecurity to motivate users. But it can also be outright illegal if the stated deadlines and bookings are not truthful. Many booking sites have been in the spotlight of the competition authorities because of this practice.

The good example

Tobi is a Danish startup that helps parents invest their children's savings. Their message is that it is far more efficient to invest their child's savings than to leave it in a regular bank account. They use comparisons to show what this difference can mean when the children turn 18, but they do not use fear in these messages. They use concrete examples, but they do not tell stories about how horrible it will be to be 18 years old without child savings in a world where a two-bedroom apartment in Copenhagen will cost 10 million Danish kroner (or well over a million pounds or euros).

Danish Design Center



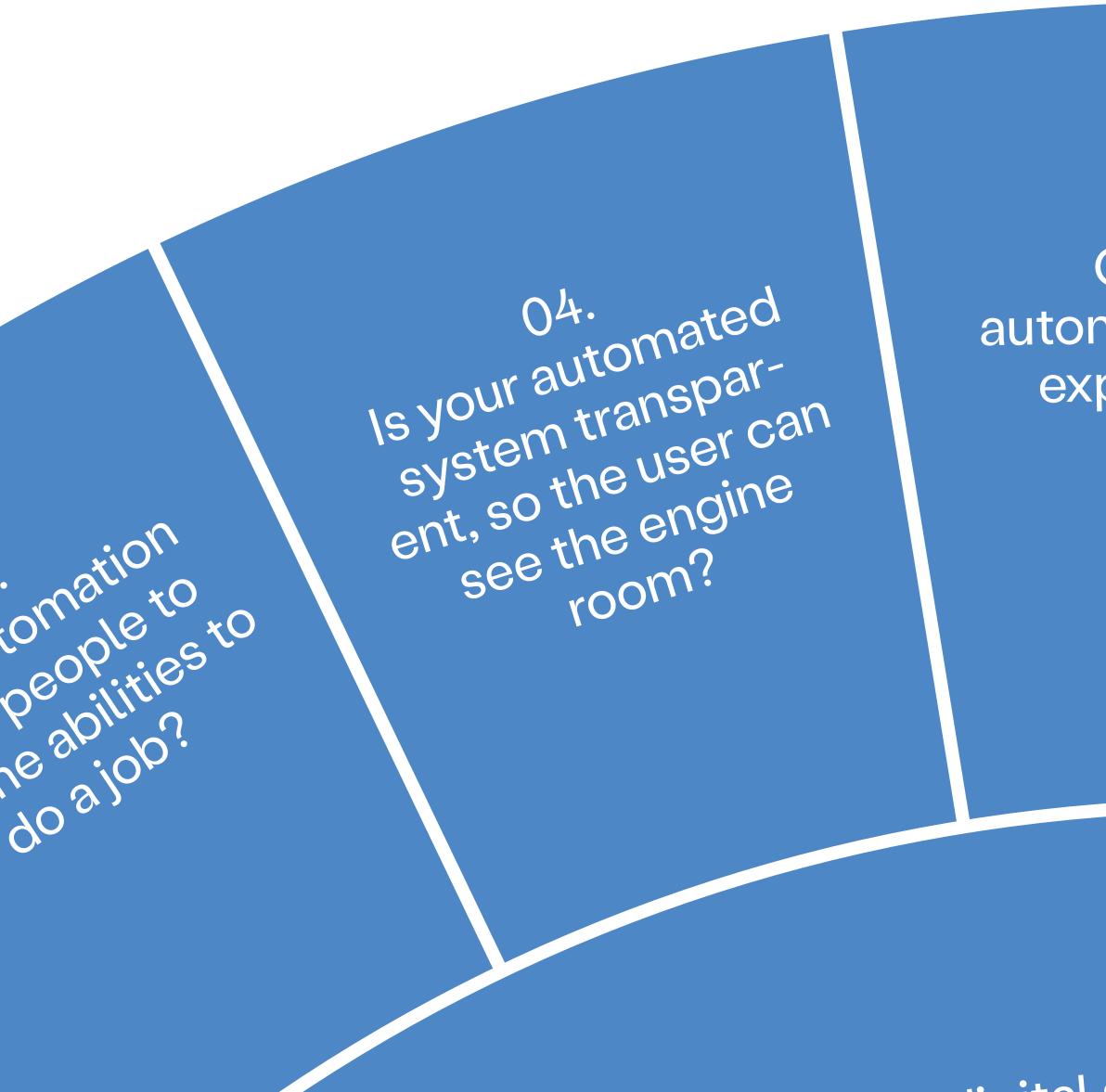


Automation Necan automated solutions by using artificial intelligence and algorithms our digital solutions by using artificial intelligence and algorithms our digital solutions can solve tasks faster and more acourated thing because machines also make mistakes that can be quite acourated. Automate our digital solutions that help people or override because that the people of the necess for humans. It is your ethical choice whether you want that help people or override people of the necess for humans that help people or override people whether you want that help people of the ople of the necess for humans that help people of the necess for humans and humans is and humans to the ople of the necessary of the ople of the necessary of the neces Necan a good other hand ces for humans. It is your ethical choice whether you want and mark of the solutions that help people or override people of the you want and mark of the solutions that help people or override people of the you want and mark of the solution of the solutions that help people or override people of the you want and mark of the solutions that help people or override people of the you want and mark of the solution of the solutions that help people or override people of the you want and mark of the solutions that help people or override people of the you want and mark of the solutions that help people or override people of the you want and mark of the you want to go have to be you want to be you want to go have to be you want to be you can a digital solutions can solve tasks laster and more accurate our digital solutions also make mistakes that can be quite accurately. Automs automate because machines also make mistakes that can be quite significantely. Automs automate because the people or override of the significant of the sis an automated solutions that help people or override because for humans. It is your ethical choice whether significantly than humans. It is your ethical choice whether significantly that help people or override because the help people

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Automation ote our digital solutions by using artific:

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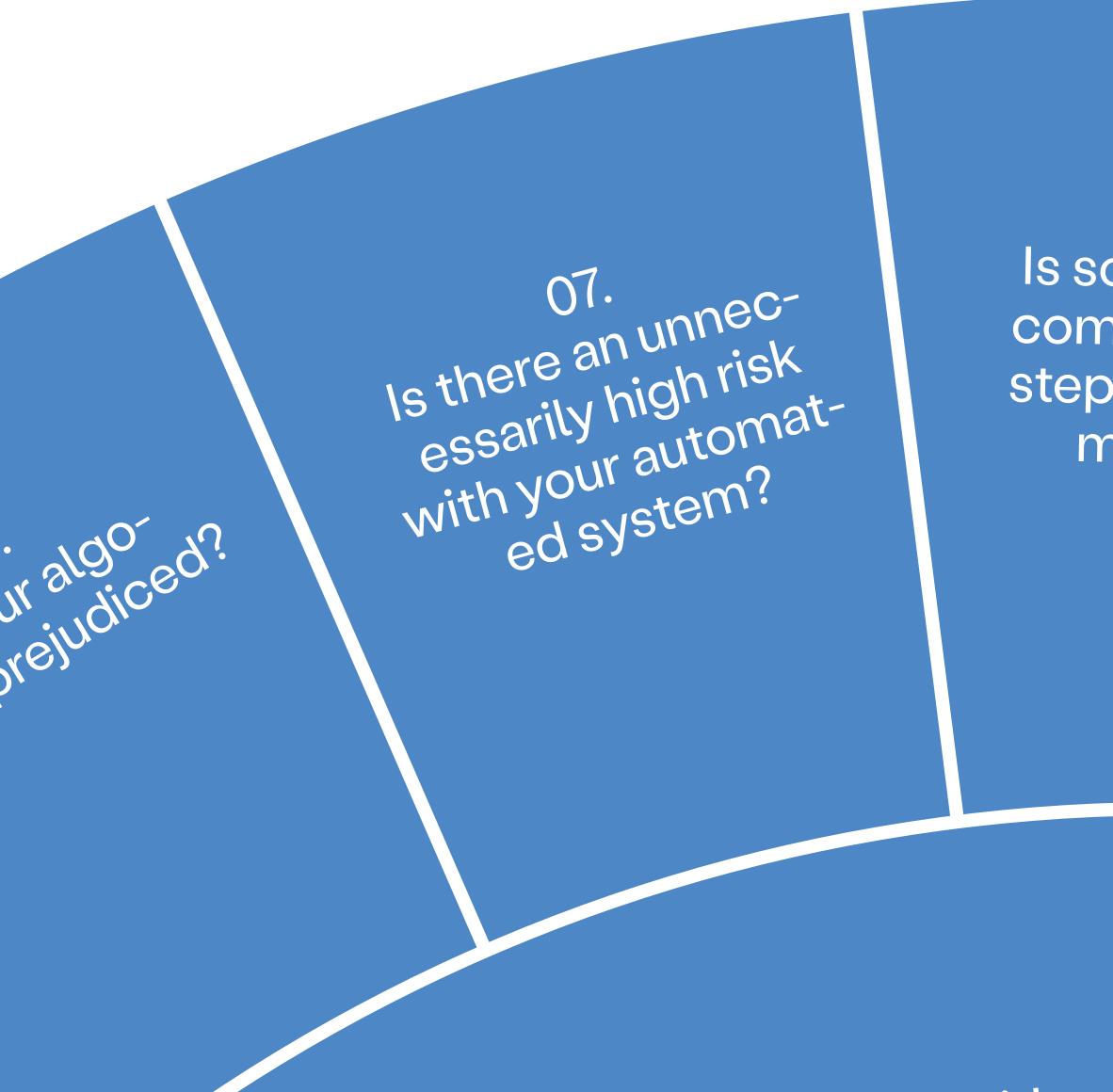
Are your algo-rithms prejudiced?

06.

05. Can your automated system explain itself?



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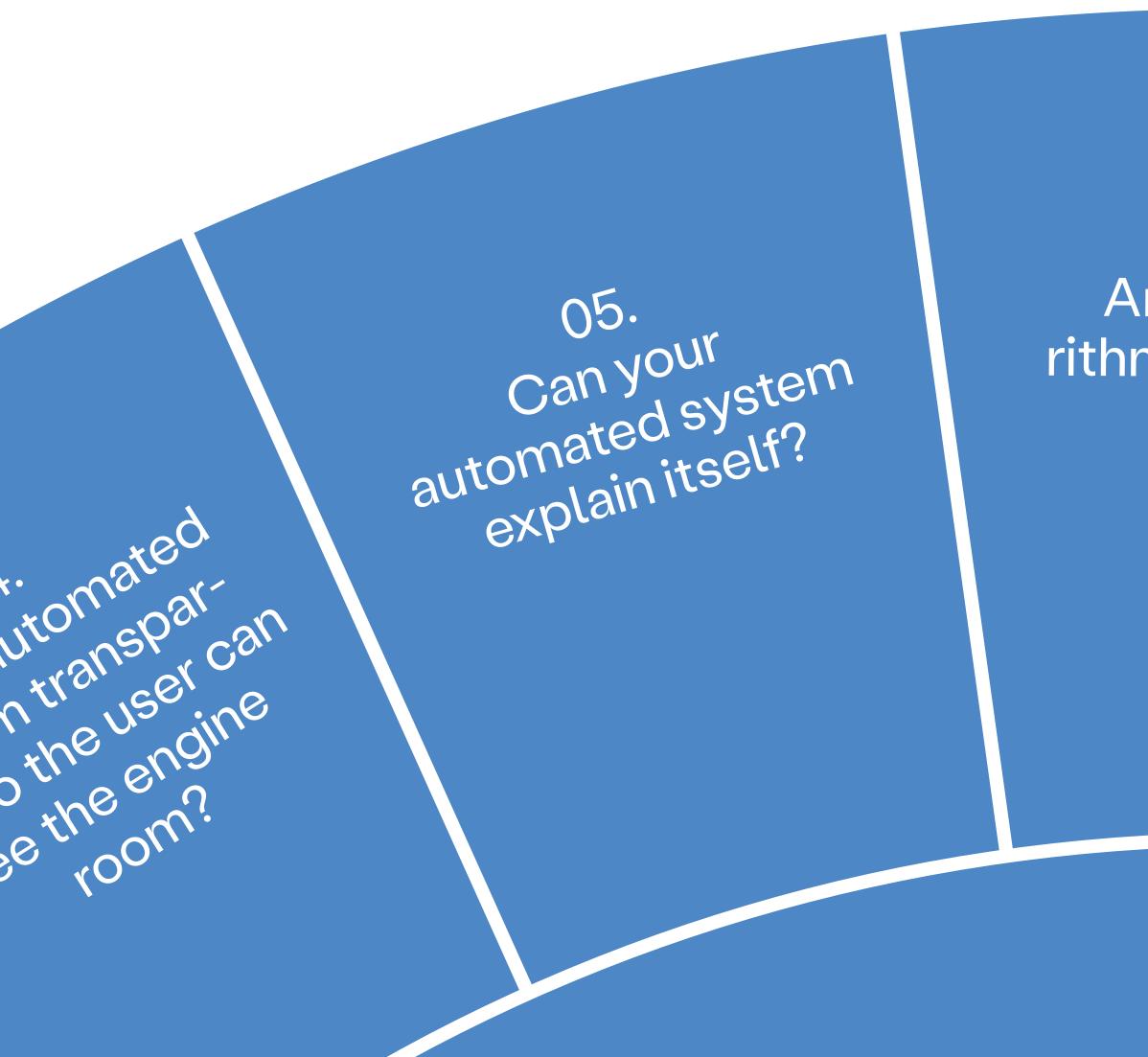
and algorithms. Automation is

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08. Is someone in the company ready to step in when automation fails?

Is your automated system adaptable to changes?





Automation using artificial intout

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06. Are your algorithms prejudiced?

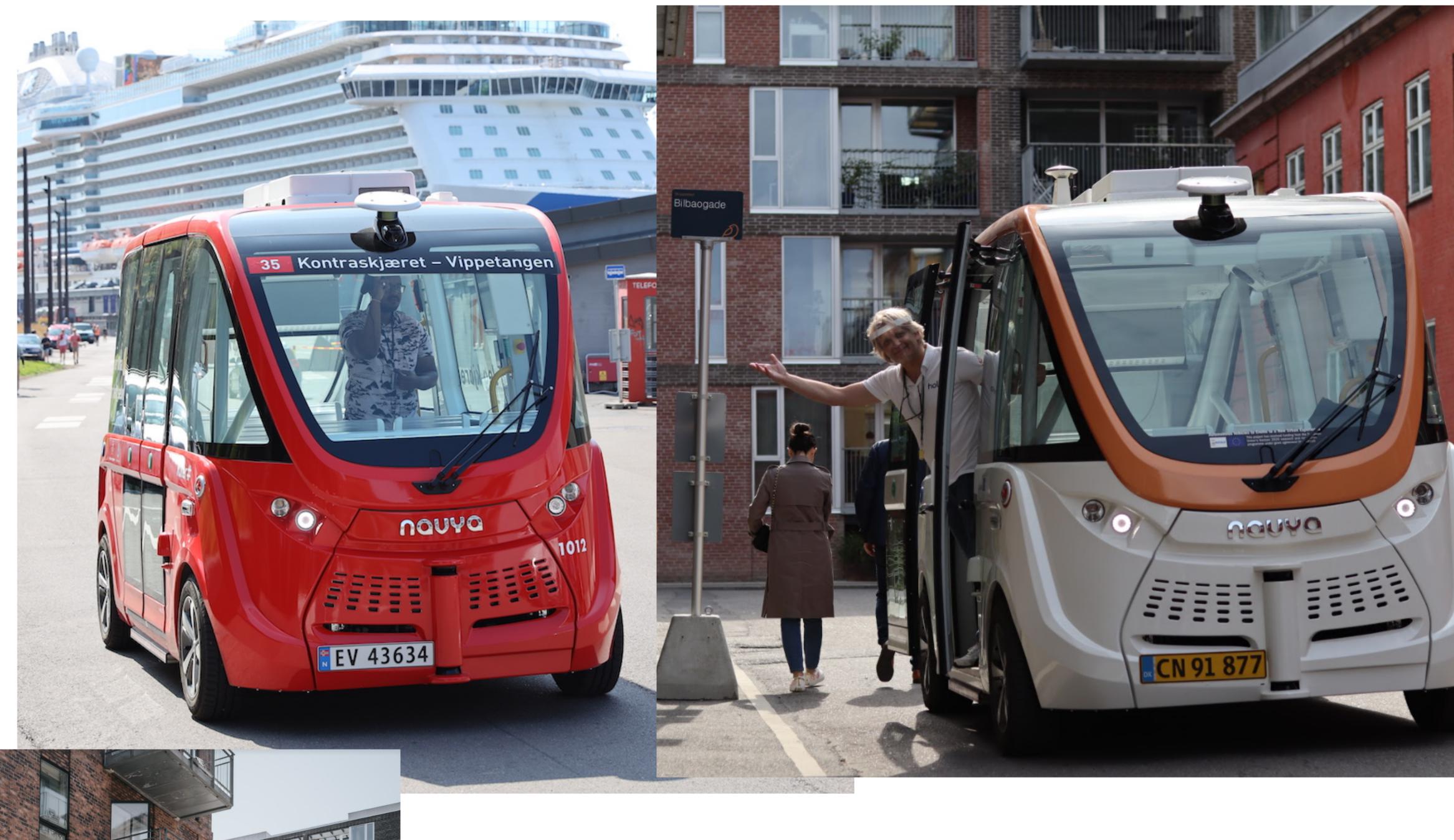
Is there an unnecessarily high risk With your automated system?



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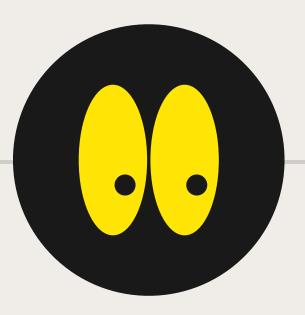
02. The Digital Ethics Compass

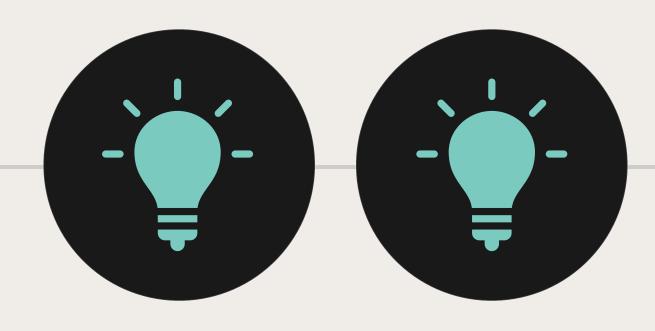


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2x workshops

Scoping

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Continuing the work



The actual service or solution

THE **DIGITAL** ETHICS COMPASS

DESCRIBE YOUR SOLUTION

– Who are the users of the product?

Behavioural algorithm via video, audio and sensor technologies

Pitfalls: Data can be personalised and thus used against the customers themselves. Discrimination based on data and behaviour. Emotional and direct marketing etc.

Danish Design Center

Write five lines about your (selected) digital product: - Which problem does the product solve? - How does the product solve the problem?

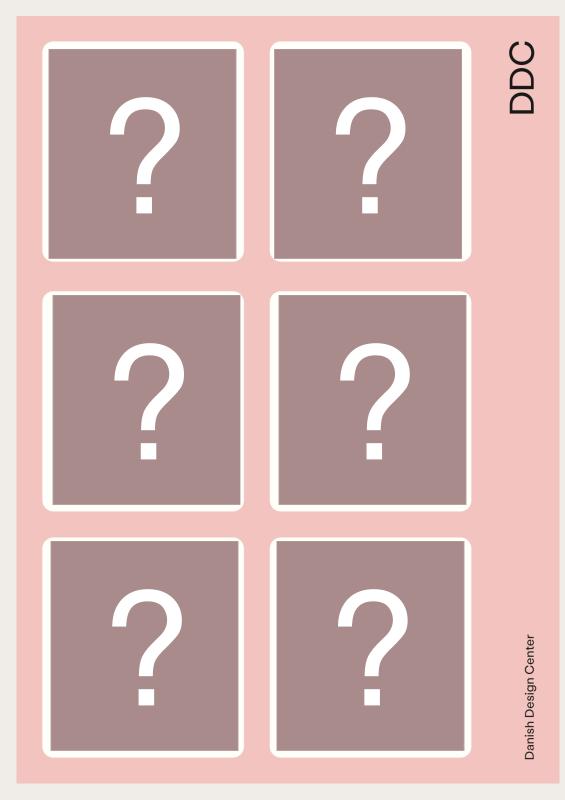
- Collecting data about the passengers with the purpose of creating a safe environment on the buses. Data is collected via video, audio and sensor systems that store behavioural data.
- Over time a database will be created, saving examples of previous conclusions.

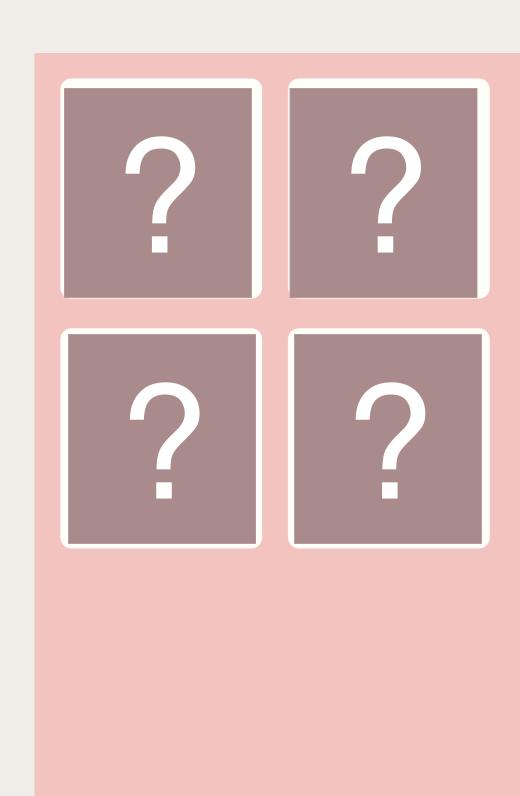


20 questions to get startet



Danish Design Cente

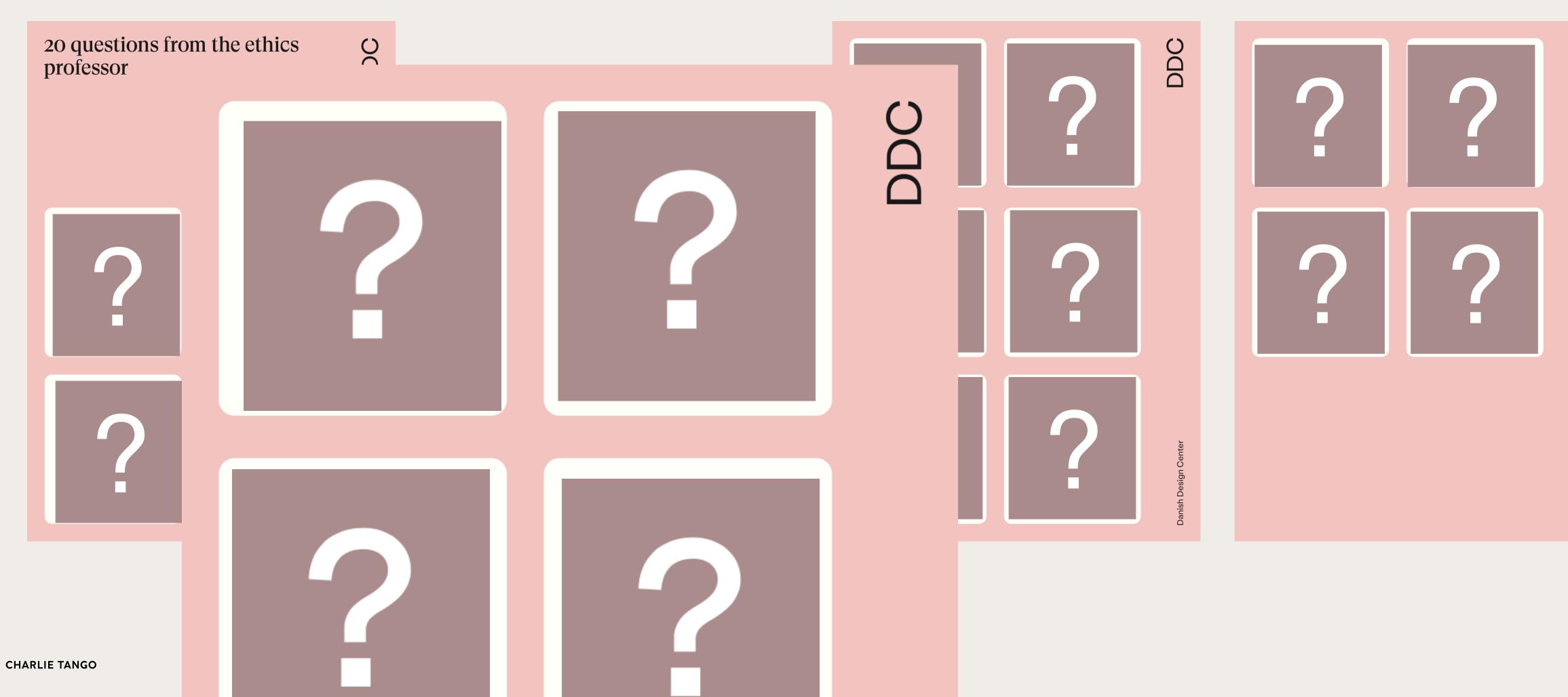




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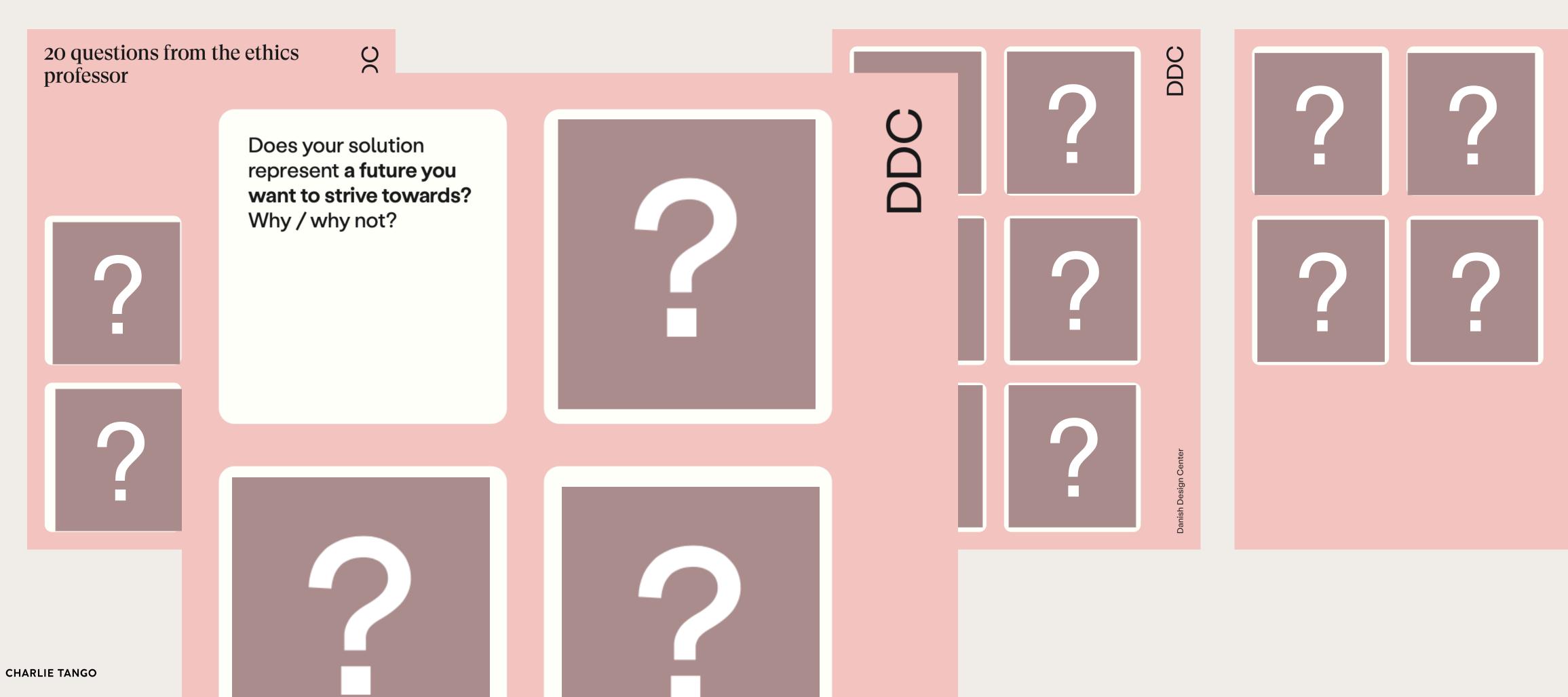
20 questions to get startet



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20 questions to get startet



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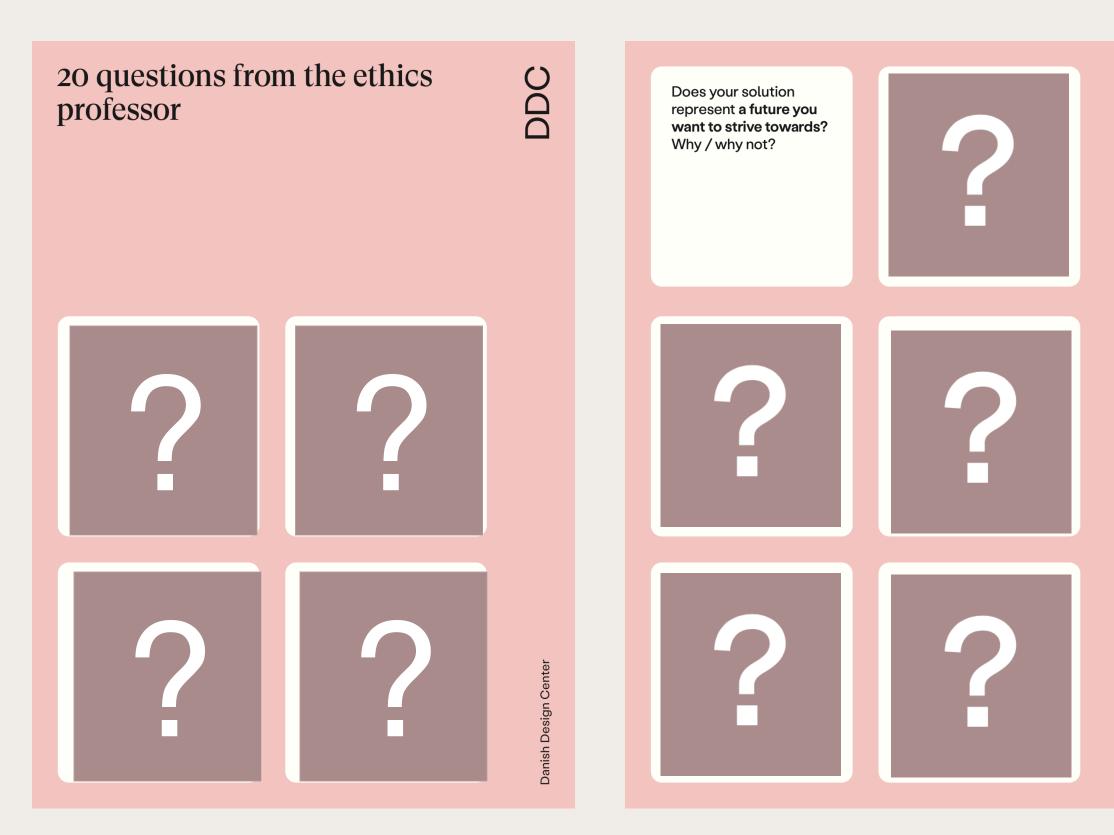
20 questions to get startet







20 questions to get startet



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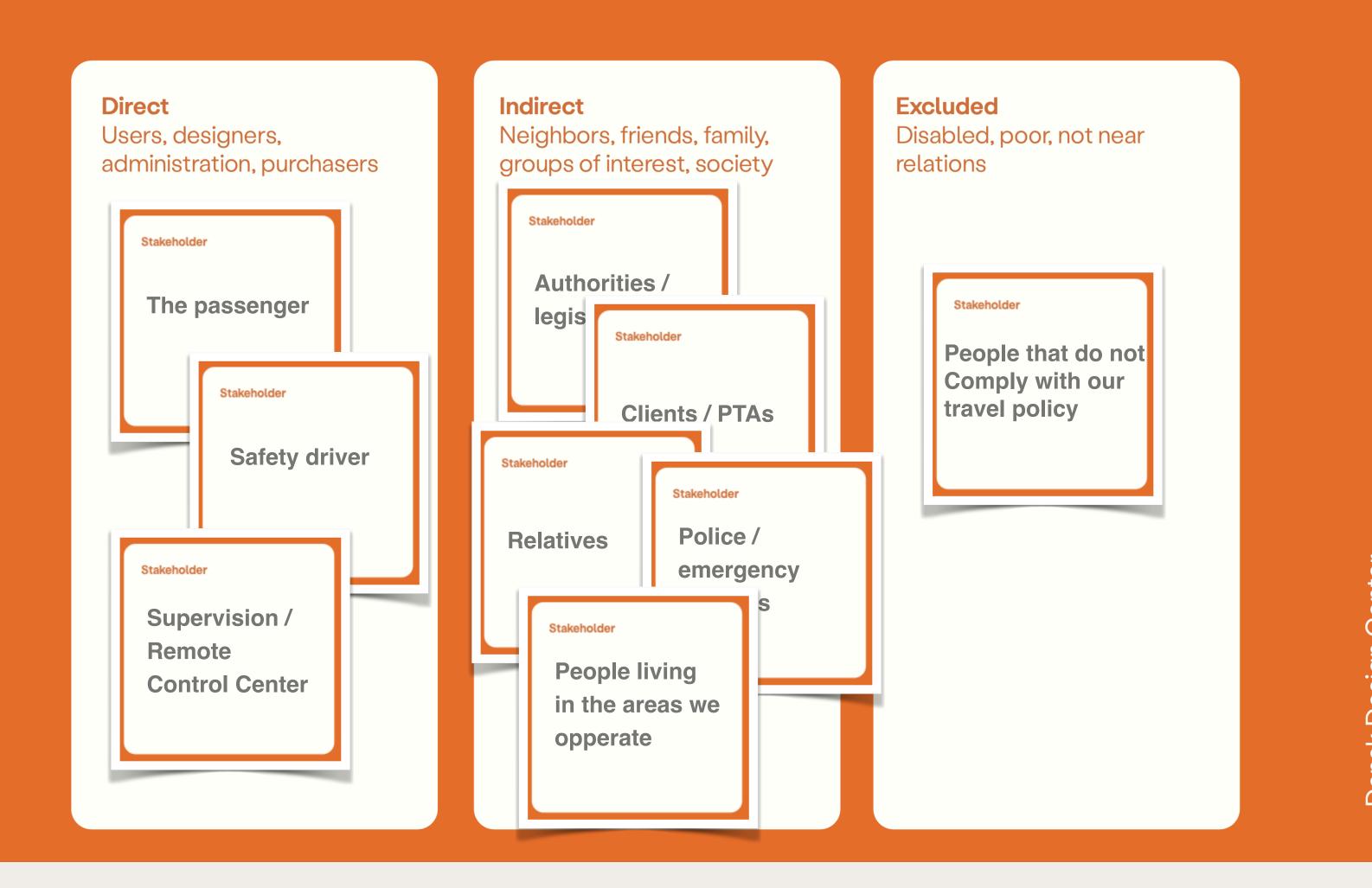
Could your solution be a part of an episode in Black Mirror (a dystopian science fiction series)? Try to imagine the plot

Janish Design Cente





Who is affected... or excluded from?



THE **DIGITAL** ETHICS COMPASS





How would you users rate your service? Best / Worst?

THE **DIGITAL** ETHICS COMPASS



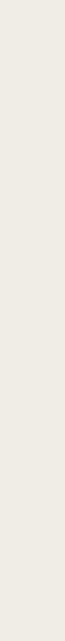
Write a **review**

Danish Design Center

GAME BOARD



77



How would you users rate your service? Best / Worst?

THE DIGITAL ETHICS COMP				
	Stakeholder Relatives			
W	rite a review			
	This is great, than	k yo	νU	
Dan	ish Design Center			



u :)

GAME BOARD





How would you users rate your service? Best / Worst?

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Write a **review**

Danish Design Center

GAME BOARD





How would you users rate your service? Best/worst



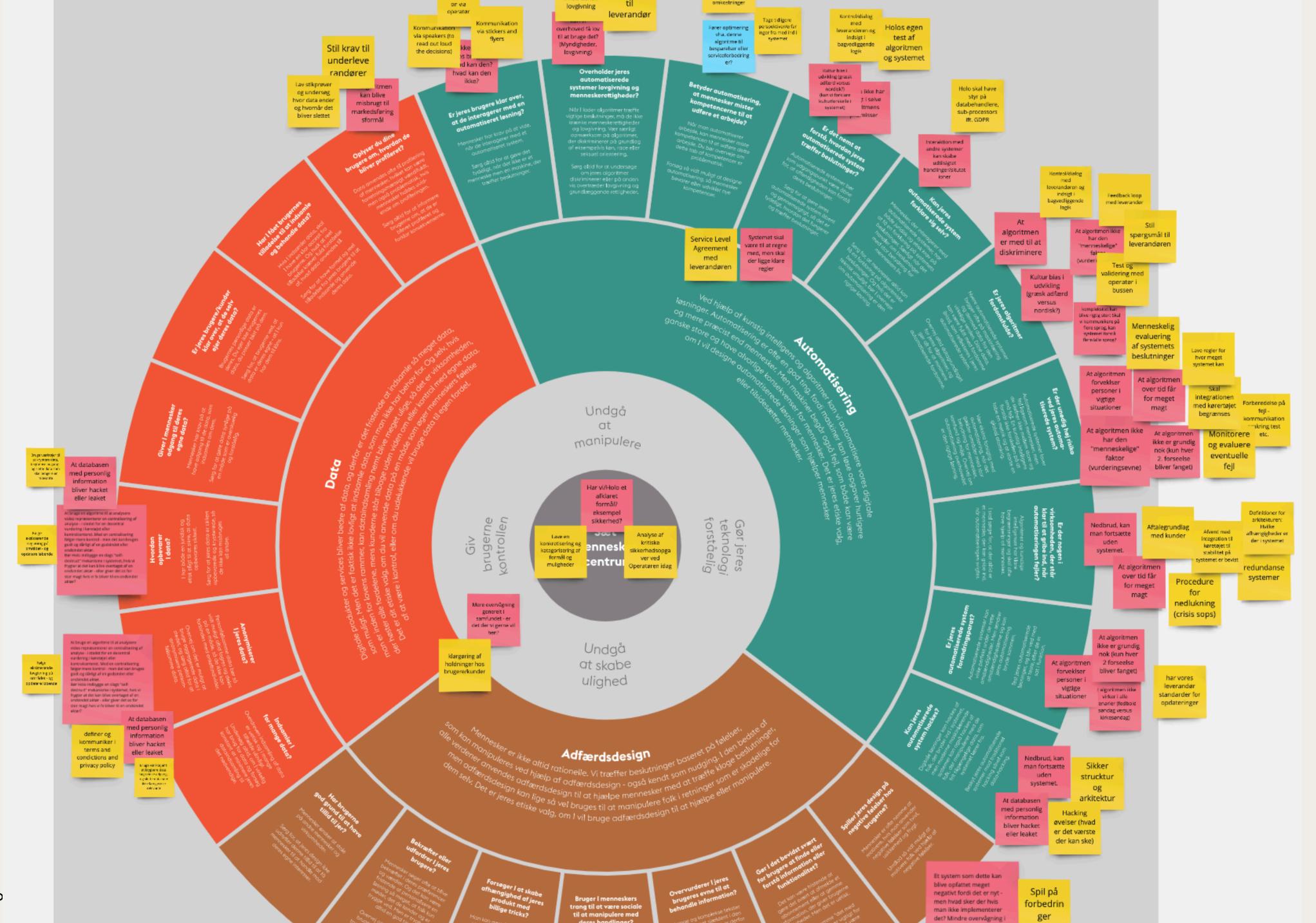
Hi Holo.

I am writing to you because I have had a bad experience with my son who has been using your buses. I have been contacted by the police. They say that your algorithm has seen him do something illegal on the bus. I can assure you that it wasn't him. The event they talk about happened Sunday morning at 4:30, but my son was away with me that day. I think it's completely insane that your algorithm does not have the correct overview of the people using your service, and thereby can mistake people and information of such importance. As a result, my son has now had a very bad experience with the police. I hope you will strongly consider improving your product. At least we're done using your bus service!

Regards





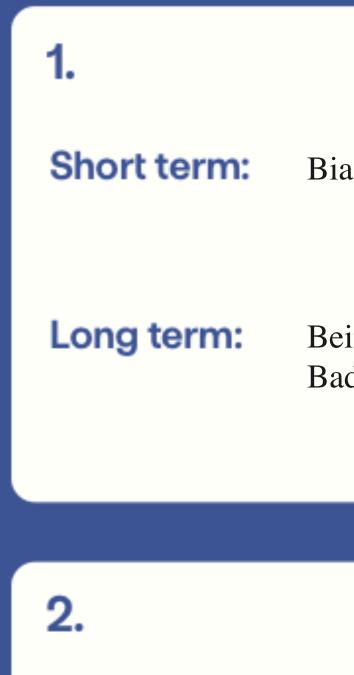


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THE **DIGITAL** ETHICS COMPASS

Identify the three most critical risks your solution can cause



Short term: Misuse of data. Charlie Tango Design Matters

DIAGNOSIS EXERCISE

Biased behaviour - treating someone unfairly.

Being part of creating an unfair society. Bad for business.



THE **DIGITAL** ETHICS COMPASS

Describe what you **will do** to remedy the most critical risks. Select what kind of action it is.

bias.

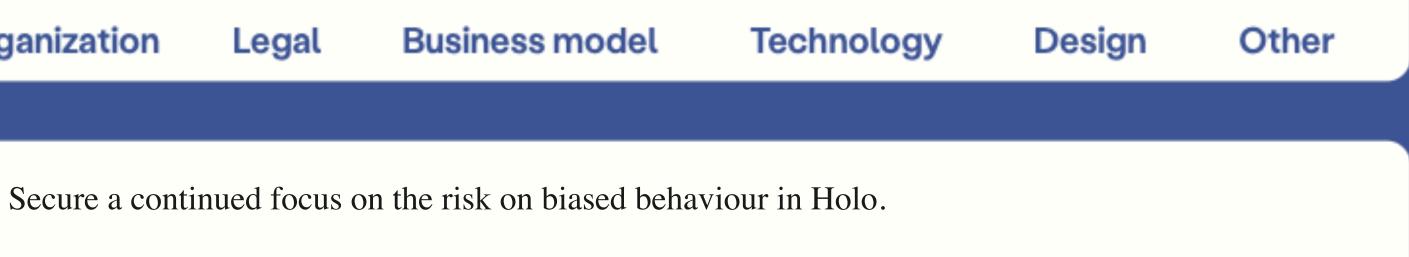
Organization

2.

1.

ACTION EXERCISE

More specific contracts with suppliers, specifying focuses and actions with regards to the risk of







Ethics manifest

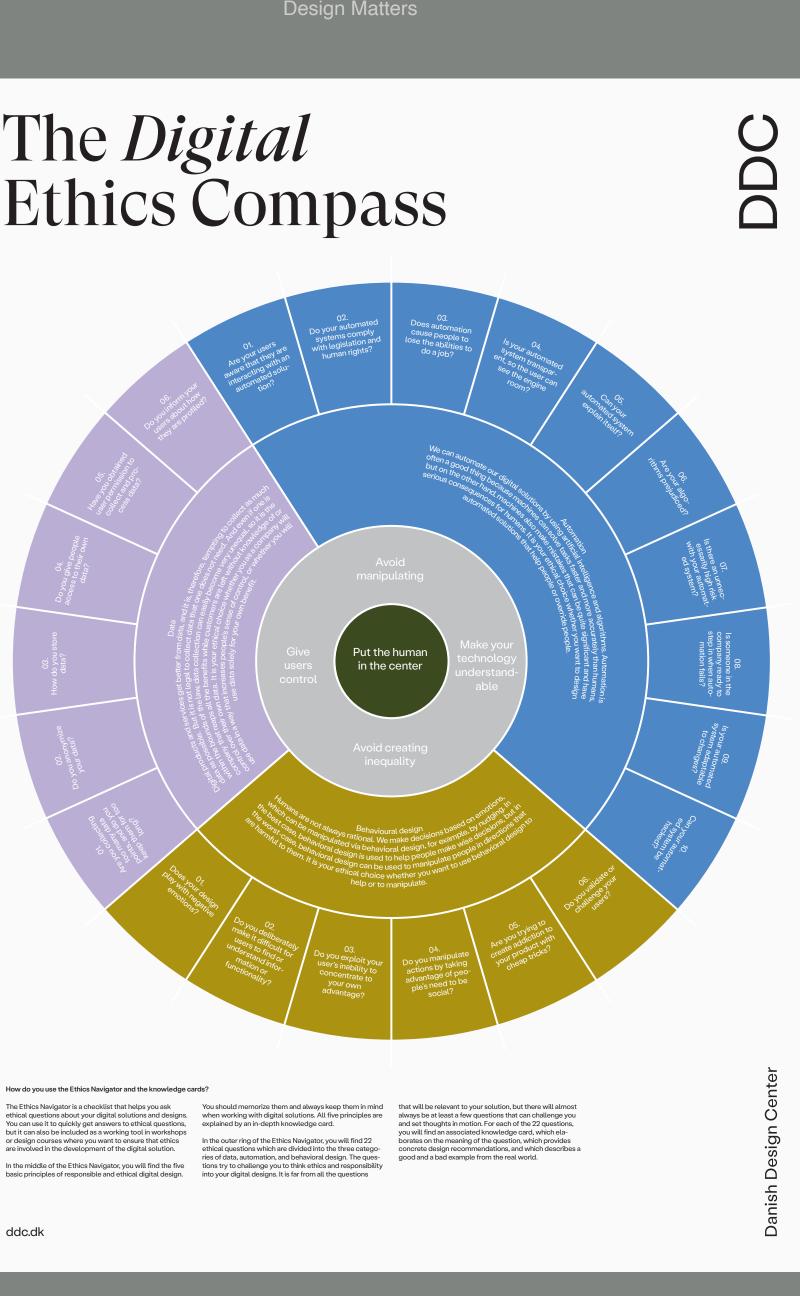
Preparing for ethics certificates

Roadmap for working with ethics

Starting up a process for working with ethics

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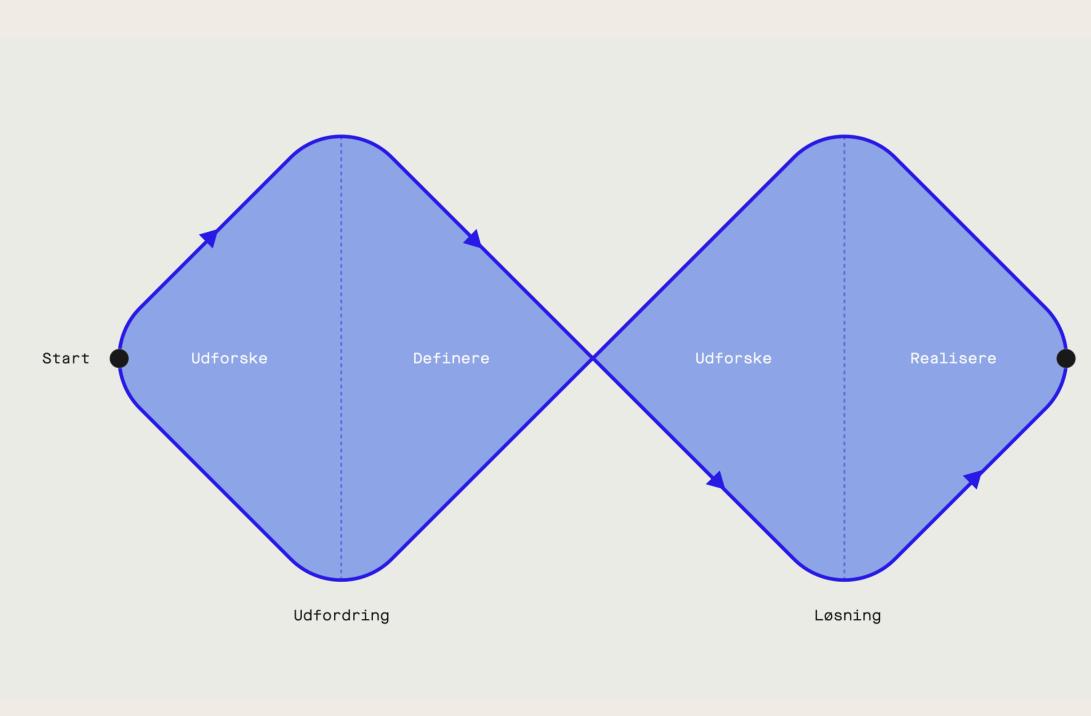
The Digital Ethics Compass



So, what now?



Charlie Tango Design Matters



15.05.2022



	Toolkit: The Digital Ethics Comp × +
\leftrightarrow \rightarrow G	ddc.dk/tools/toolkit-the-digital-ethics-compass/
MENU	
TOOLKIT	

Toolkit: The Digital Ethics Compass

<u>The Digital Ethics Compass</u> is a tool to help companies make the right decisions from a design ethical standpoint Charlie Tango Design Matters

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