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Er robotterne klar til at sortere vores affald?

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Uvildig robotrådgiver
Robotter og automatisering



2011 - 2017
Projektleder, Konsulent
Center for Robotteknologi



2007 - 2013
Civilingeniør
Automation & Robotteknologi



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Uvildig robotrådgivning

Vurdering af robotpotentialiet i din virksomhed

Uvildig rådgivning om indkøb af de rigtige robotter og automationsløsninger

Få styr på business casen, kravspecifikationen og købsprocessen



Hvad er en robot?

“En robot kan defineres som en programmérbar maskine med manipulatorer og sensorer”

- definition fra wikipedia



State of the art robotteknologi



Juni 2015

6:16:34 05/06/2015



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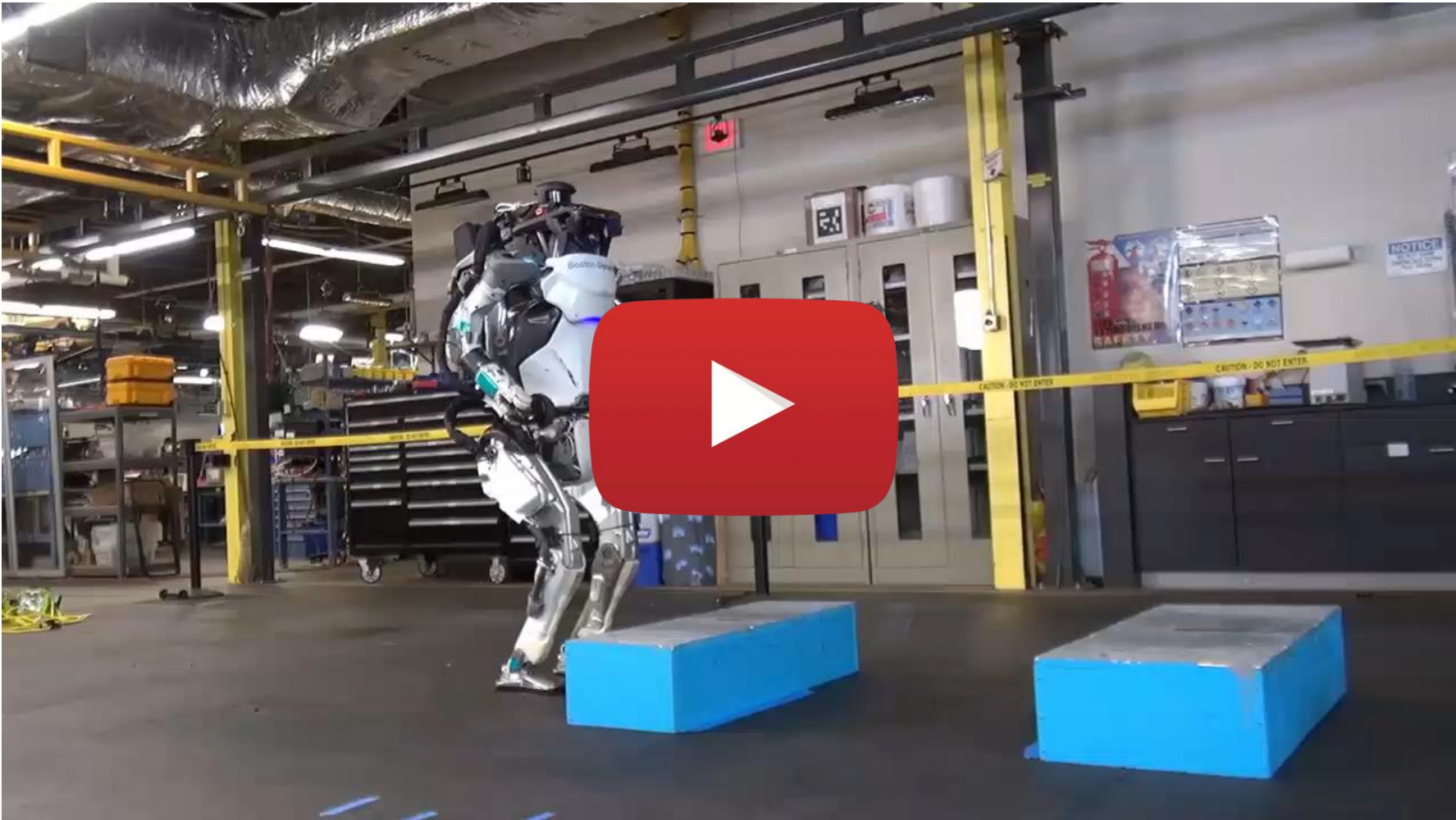


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State of the art robotteknologi - 2½ år senere



Nov 2017

State of the art robotteknologi - 1 år senere



okt 2018



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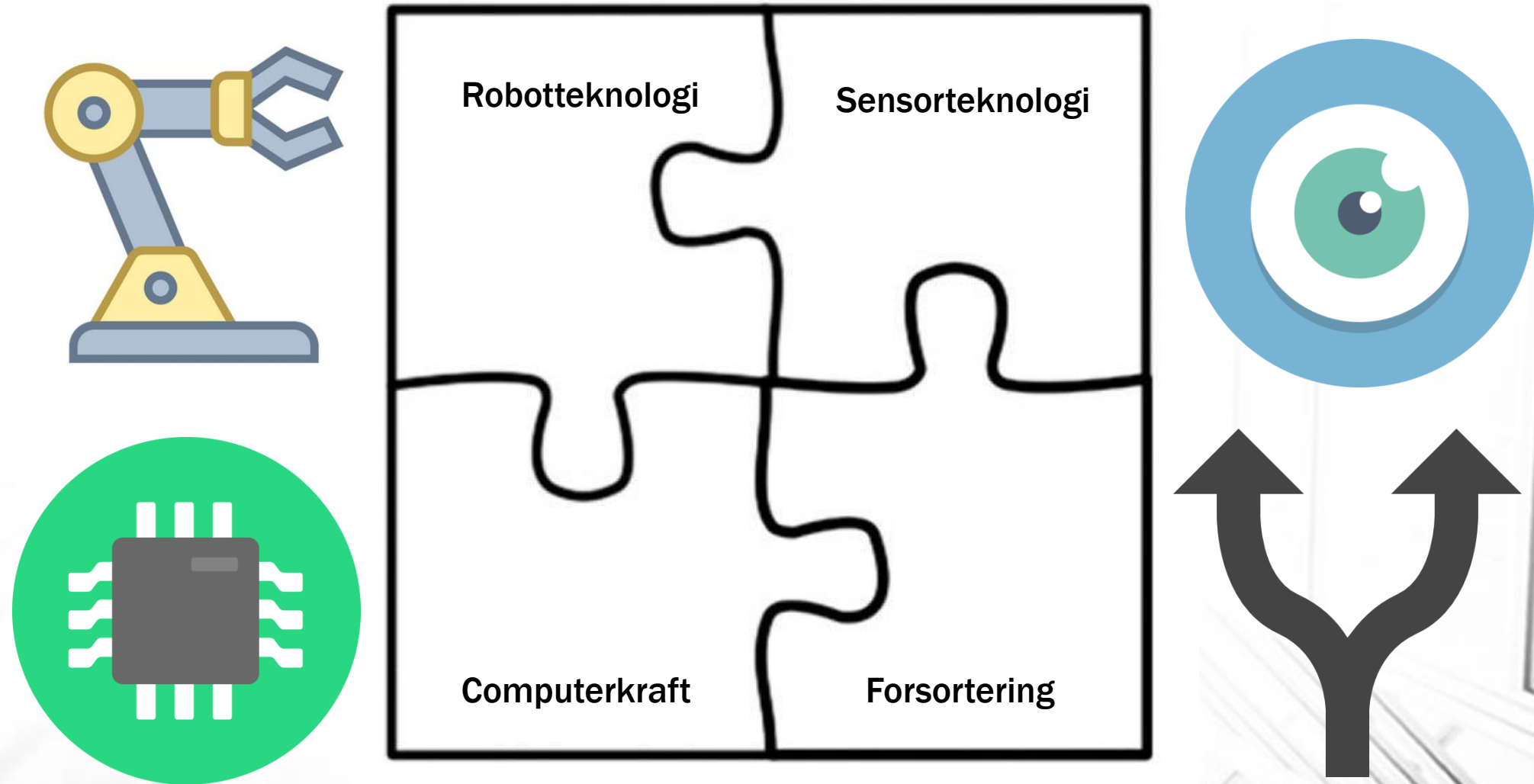


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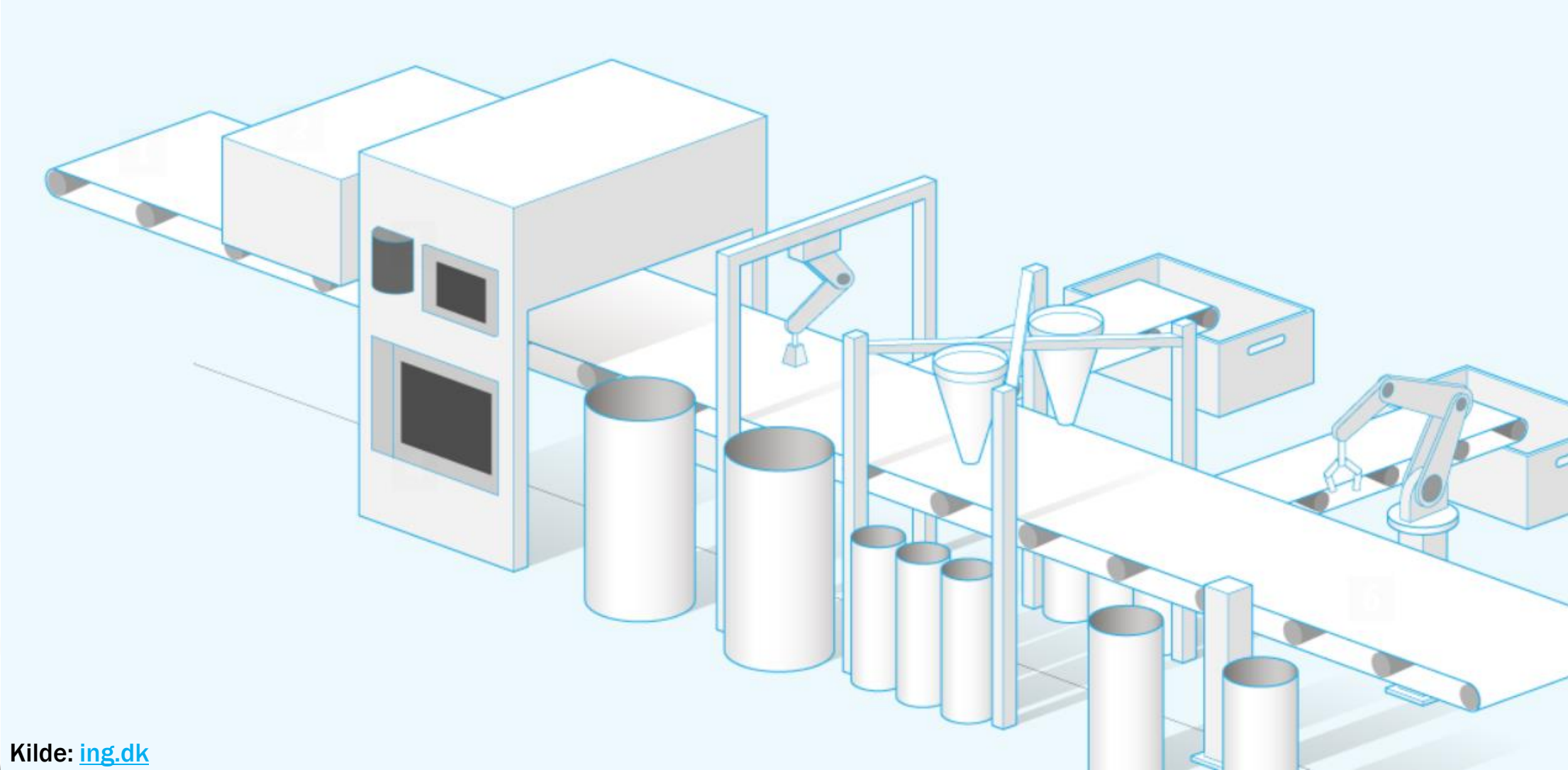


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De 4 vigtigste brikker i robotsortering



Affaldssortering med robotter



Kilde: ing.dk



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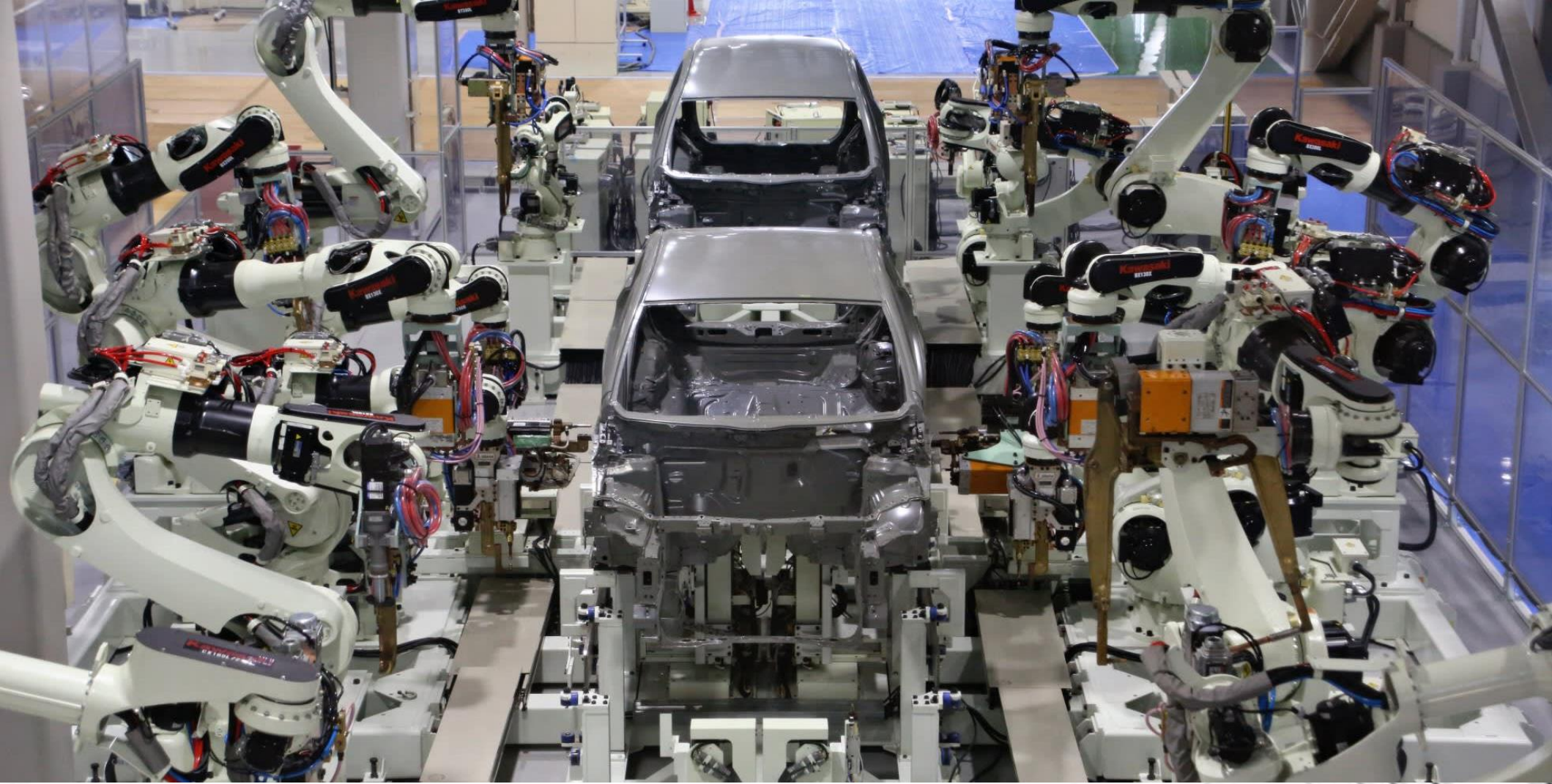


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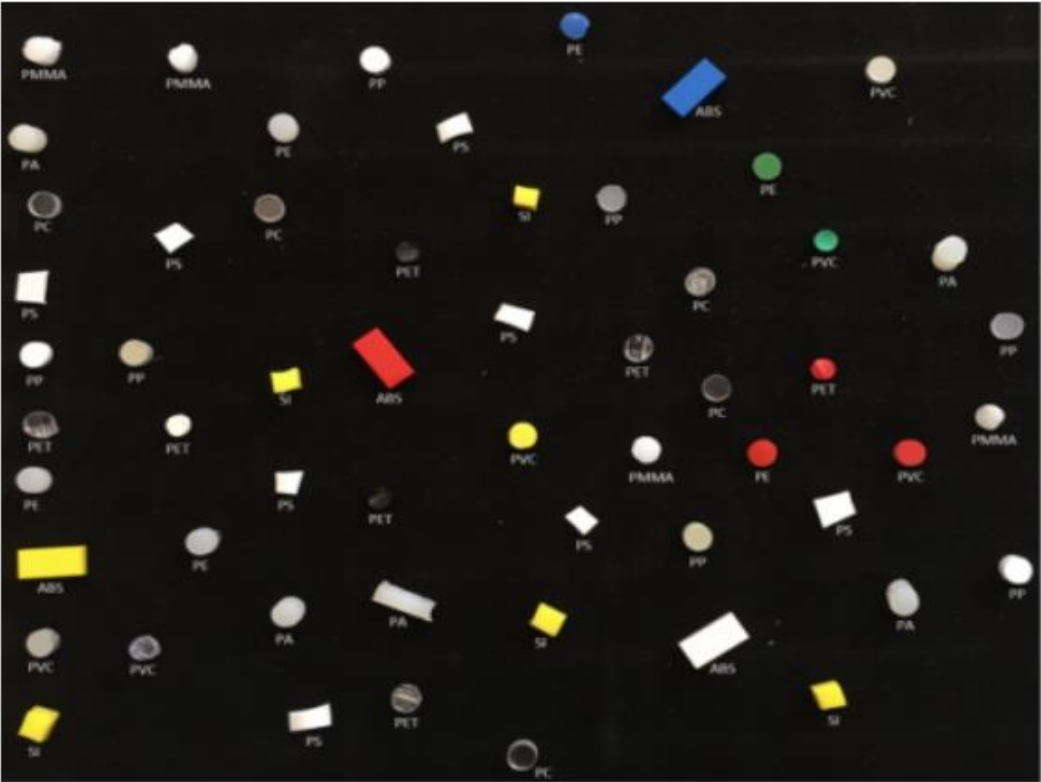
Robotter er lavet til



...og kræver derfor forsortering

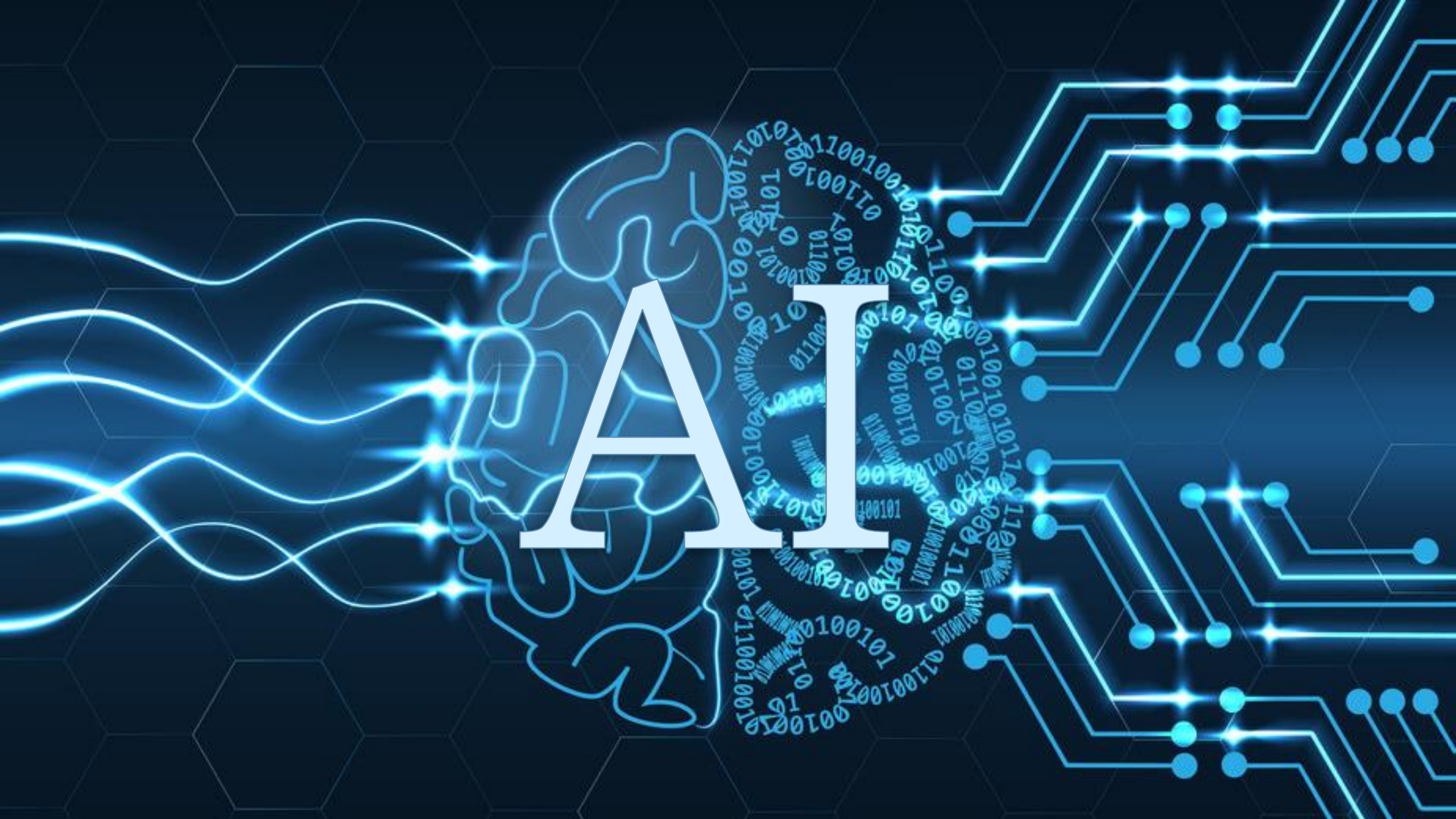


Sensorteknologi



Kilde: [Perception Park](#)

AI



Demonstration af en lærende AI

The screenshot displays the Teachable Machine interface, which is divided into three main sections: INPUT, LEARNING, and OUTPUT.

- INPUT:** A camera view showing a blurry, purple-tinted image of a person's face.
- LEARNING:** A central panel with three training slots. Each slot includes a placeholder for an example image (labeled '0 EXAMPLES'), a 'CONFIDENCE' meter, and a 'TRAIN' button. The top slot is for 'TRAIN GREEN', the middle for 'TRAIN PURPLE', and the bottom for 'TRAIN ORANGE'. All training buttons are currently disabled.
- OUTPUT:** A panel with three tabs: 'GIF', 'Sound', and 'Speech'. Below the tabs is a large empty area for the output. At the bottom, there are three small thumbnail images of a dog, each with a colored border (green, purple, and orange) corresponding to the training slots.

<https://teachablemachine.withgoogle.com/>

Fordele ved robotsortering

- Sortering i flere fraktioner samtidig
- Renhedsgrad af fraktioner
- Flexibilitet – kan omstilles
- Selvoptimerende
- Mulighed for oplæring – ikke programmering
- Fremtidssikret



Drikkevarekartoner



Plastik



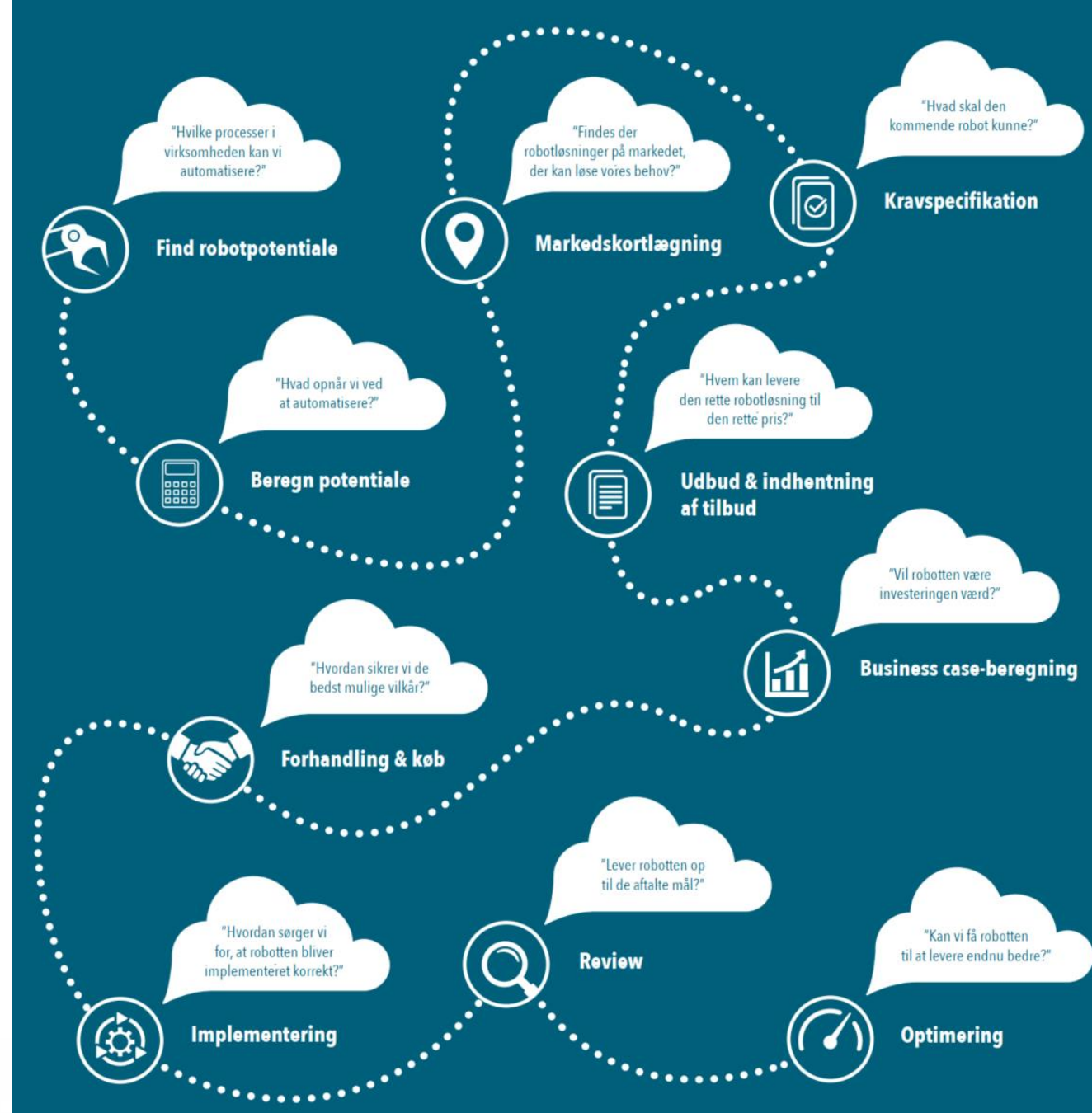
Byggeaffald



Automationsrejsen

- Produktivitet
- Kvalitet
- Arbejdsmiljø

- Erfaring



Spørgsmål?



Linked 

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