

# IBM Workshop: Chatbot built made easy

**Kim Dressendörfer**

Technical Specialist Data and AI  
Cognitive Solution Architect @ IBM  
[kdress@de.ibm.com](mailto:kdress@de.ibm.com)

**Felix Augenstein**

Digital tech Ecosystem &  
Developer Representative @ IBM  
[felix.augenstein@ibm.com](mailto:felix.augenstein@ibm.com)



# IBM's Deep Blue chess computer defeats the reigning world champion Gary Kasparov

1997



IBM's Watson defeats the two champions Ken Jennings and Brad Rutter in *Jeopardy!*

2011



# IBM's Watson Debater is the first AI system that can debate humans on complex topics

2019



# Watson has become a set of cognitive services available on IBM Cloud for clients to enable in their apps.

## AI Assistant



Assistant

## Knowledge



Natural Language  
Understanding



Discovery Services



Knowledge  
Studio

## Speech



Speech to Text



Text to Speech

## Vision



Visual  
Recognition

## Language



Natural Language  
Classifier



Language  
Translator

## Empathy



Tone Analyzer



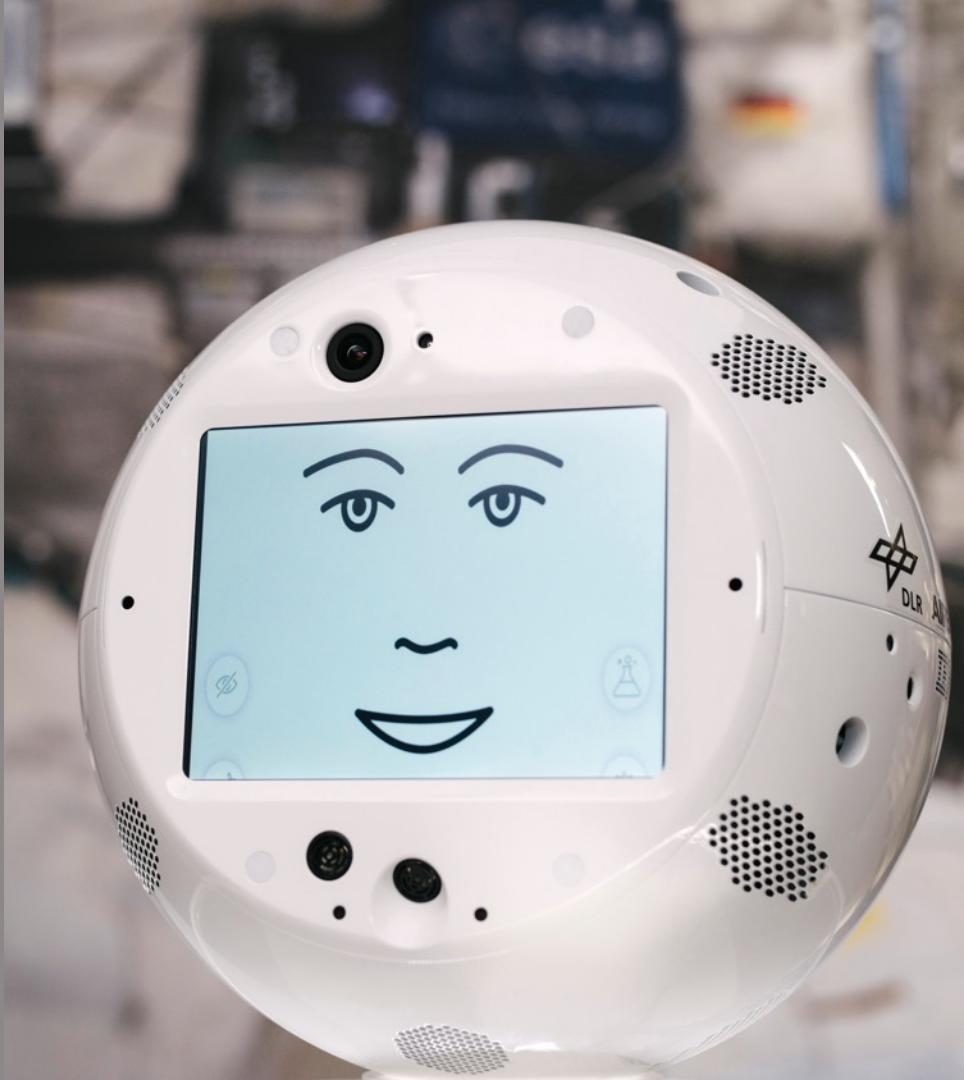
Personality  
Insights

Introducing...

# CIMON

Crew Interactive MOBILE companionN

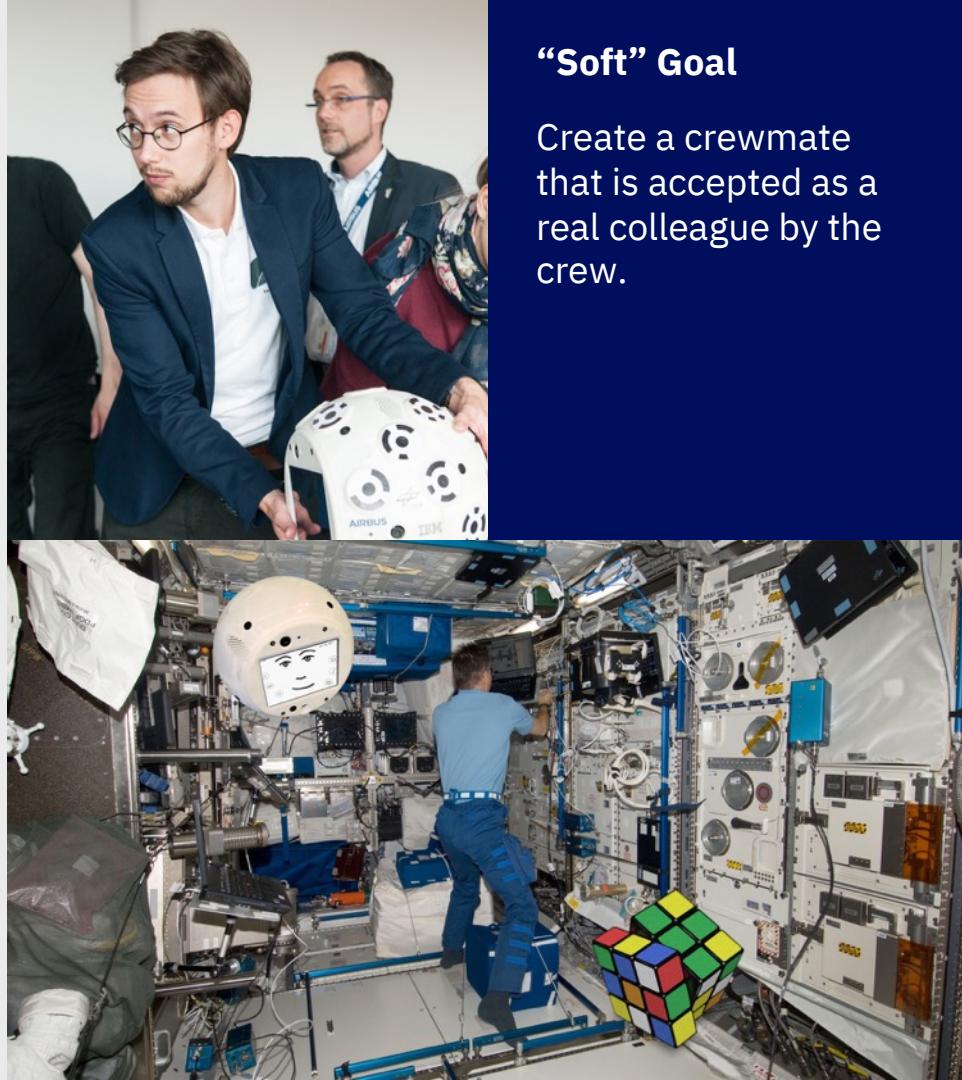
**AIRBUS**   **DLR**   **IBM**





# CIMON's Tasks

- Experiments
  - Skill Training
  - Mobile Video Documentation
- 
- Weight: 5kg (11 lbs)
  - Diameter: 32cm (12.6 inch)
  - Propulsion System: Air
  - Autonomy: 2h
  - Guidance, Navigation & Control System: Video and Ultra Sonic Sensors
  - Artificial Intelligence powered by IBM Watson™



## “Soft” Goal

Create a crewmate that is accepted as a real colleague by the crew.

## Maze



## Speech Synthesis

- Speech to Text
- Text to Speech

## Watson Assistant

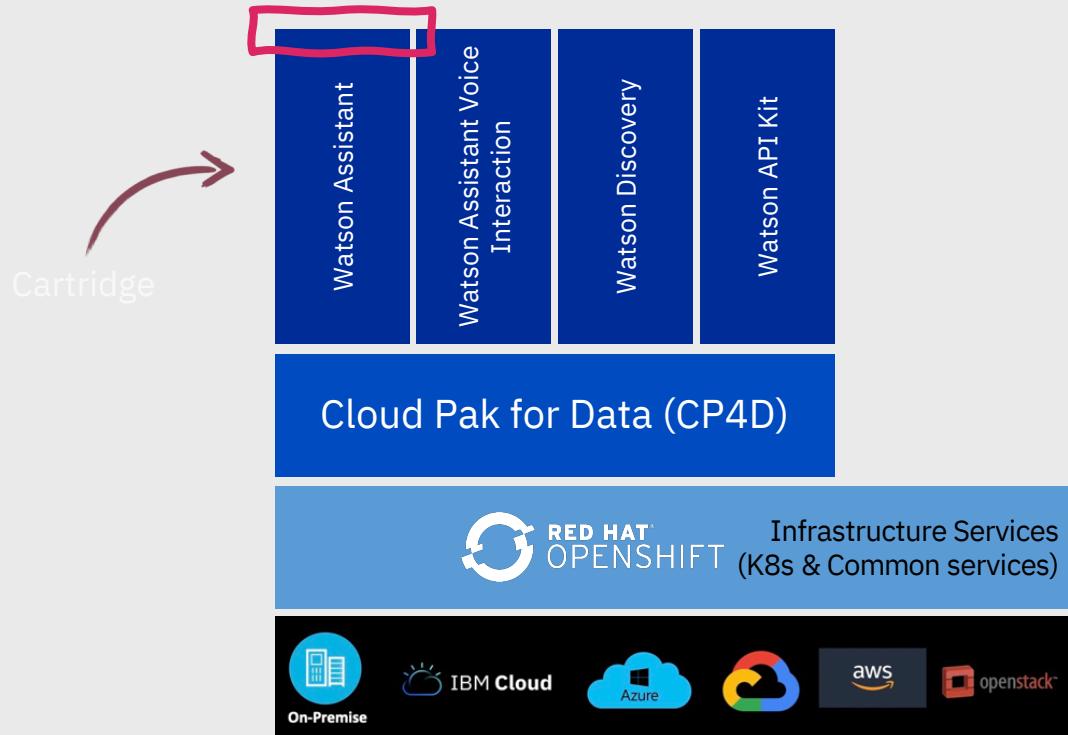
- Chatbot fitted to customer needs
- Real interactions

## Visual Recognition

- Detection of surroundings
- Human recognition
- Object detection

# Watson on Cloud Pak for Data

*Avoid vendor lock-in, deploy Watson anywhere*



# Live Demo

<https://ibm.biz/BdqtdE>

<https://github.com/FelixAugenstein/sugar-gko>

