CIMON®

The flying astronaut assistant – technology demonstration

Brief description

CIMON® (Crew Interactive MObile companioN) could be described as a 'flying brain' – an autonomous astronaut assistant. Powered by Artificial Intelligence, this globally unique technology demonstration will support the work of astronauts on the ISS and will bring advances to the fields of Industry 4.0, medicine and care, as well as education.

Aims

CIMON® uses the ISS as a test environment for trialling new technologies. CIMON® aims to demonstrate that human-machine interaction can support the work of astronauts and increase their efficiency. In future, the flying companion could be used, for example, to present and explain a wide range of information and instructions for scientific experiments and repairs.

Parties involved

DLR Space Administration, Airbus, IBM Watson, Reichert Design, LMU Munich, Helden & Mayglöckchen, Darmstadt University of Applied Sciences (h_da), ESA

Applications

- Supporting the work of astronauts
- Preparation for long-term exploration missions
- Human-machine psychosocial interaction

Outlook

- Assistance systems for human-machine interaction (Industry 4.0, the Internet of Things …)
- Medicine and care
- Use in education

Facts and figures

Launch: SpaceX CRS-15, 29 June 2018
Commissioning: 14./15. Nov. 2018
Scientific support:
Judith Buchheim and Alexander Choukèr
Diameter: 32 cm
Properties: Autonomous navigation using air jet propulsion, voice and object recognition, information display, video data, etc.

4 QUALITY EDUCATION
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

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