



Humanoid robots - Does that mean artificial intelligence?



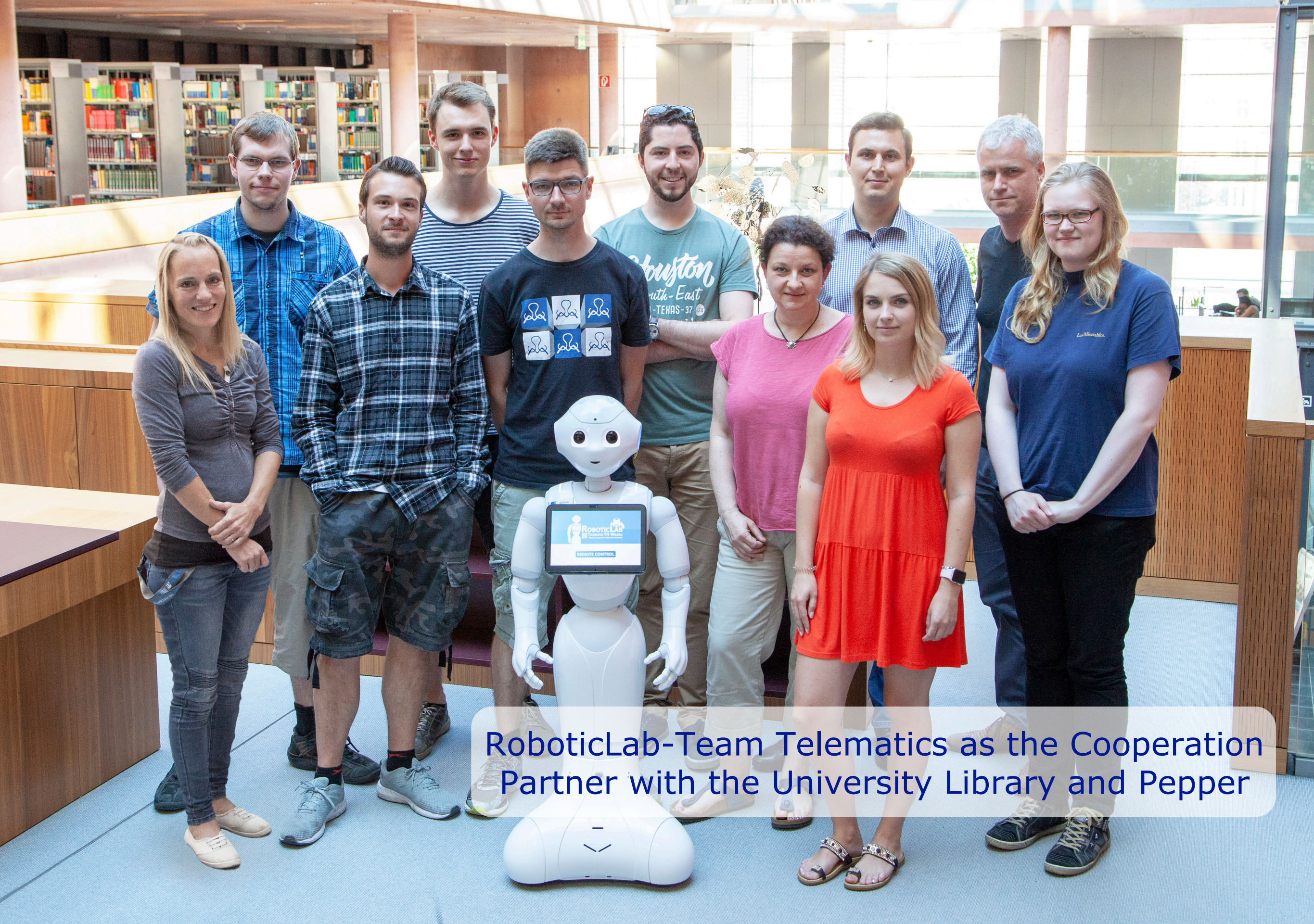
Technische
Hochschule
Wildau
*Technical University
of Applied Sciences*

... is where the Berlin
television tower points.



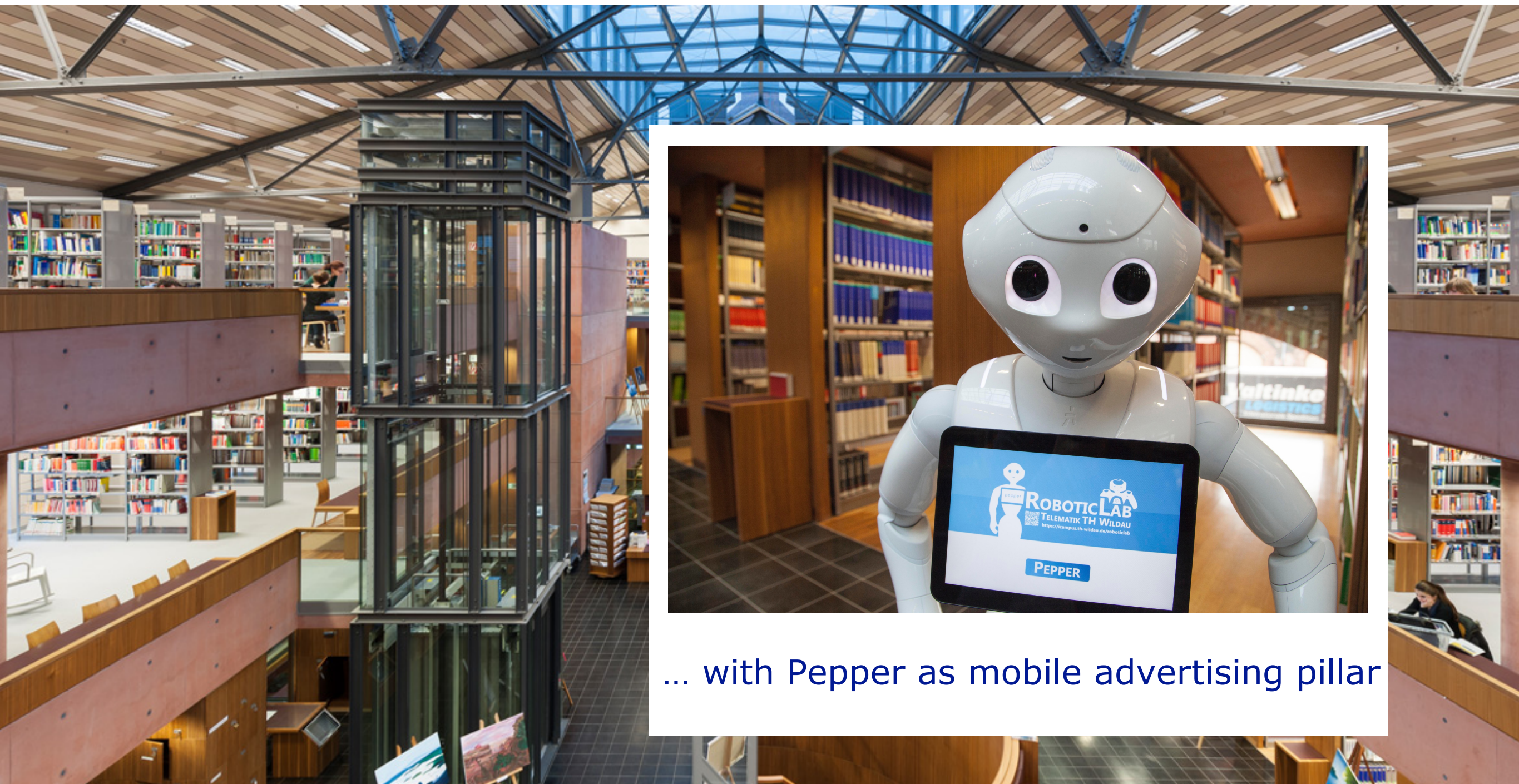
Impressions of the Campus ...





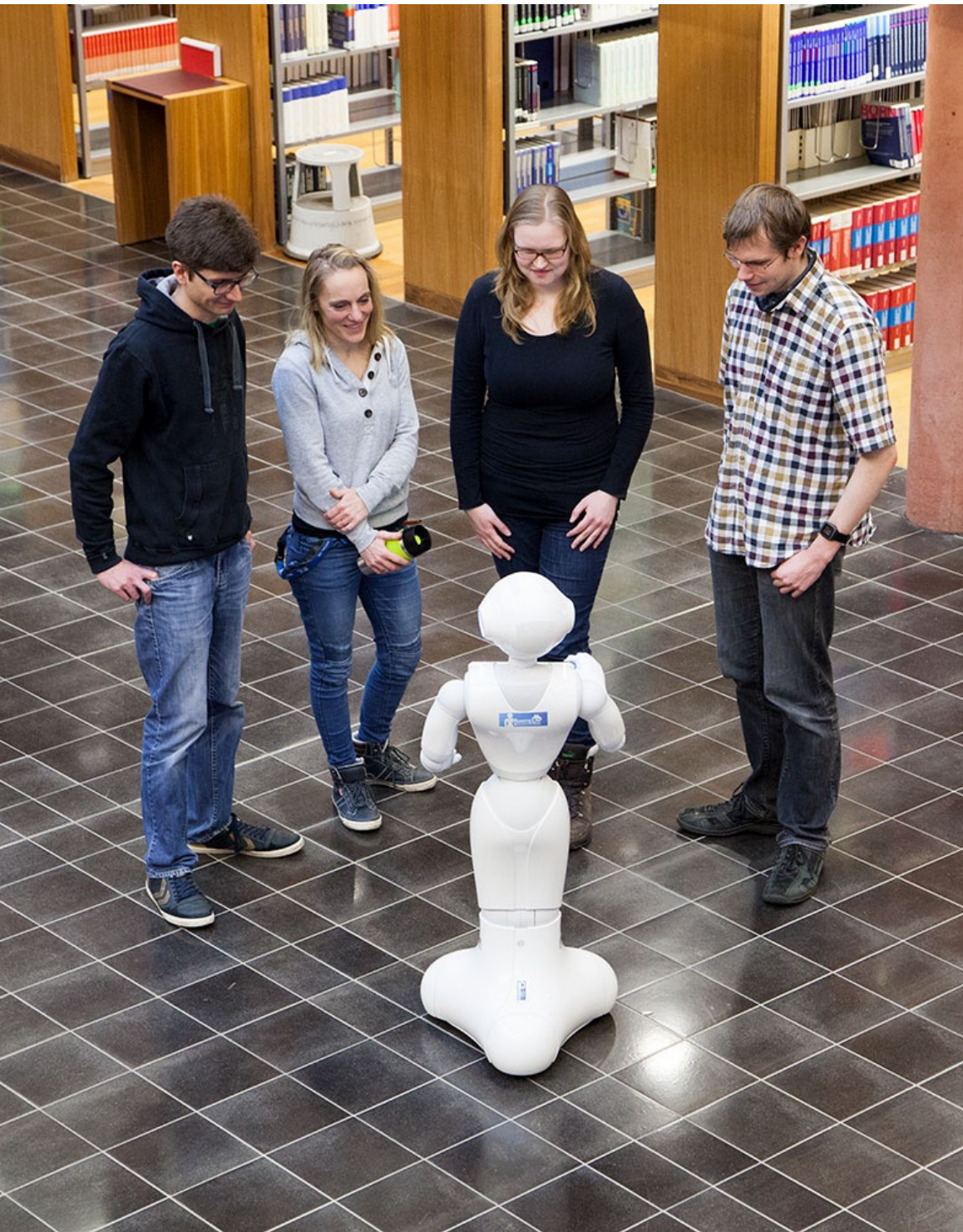
RoboticLab-Team Telematics as the Cooperation Partner with the University Library and Pepper

A Look into the Library of the TUAS Wildau



... with Pepper as mobile advertising pillar

Pepper as a mobile Advertising Column: Our **Vision**



Explained by example:

“It's September. The lecture time at the TUAS Wildau has just started again. In the library it is very crowded and all employees at the reception have a lot to do.

Four new students at the TUAS are about to leave again in order to have the most important offers of their library explained to them later, when they notice Pepper in the entrance area. They approach curiously but carefully ...”

Thanks to Philipp Müller, master student of telematics, employee at RoboticLab, for this presentation.

Source: <https://www.spiegel.de/netzwelt/gadgets/kuenstliche-intelligenz-turing-test-chatbots-neuronale-netzwerke-a-1126718.html>



Quelle: <https://www.goettinger-tageblatt.de/Campus/Goettingen/Kuenstliche-Intelligenz-Bedrohung-oder-Perspektive>

„Künstliche Intelligenz – Bedrohung oder Perspektive?“

Der Sozialwissenschaftler Andreas Mayert hält am Donnerstag, 13. September, in Göttingen einen Vortrag über künstliche Intelligenz. Im Vorfeld sprach er mit dem Tageblatt über das Thema.



Das Thema künstliche Intelligenz spielt in unserem Alltag eine immer größere Rolle. Quelle: epd

Source: <https://www.cicero.de/wirtschaft/kuenstliche-intelligenz-aufholjagd-international-wettrennen-deutschland-frankreich>

KÜNSTLICHE INTELLIGENZ

Die Aufholjagd

VON GUNNAR HEINSOHN am 4. September 2018

Noch liefern sich die Nationen ein Wettrennen, wenn es um den Vorsprung in der Forschung zur Künstlichen Intelligenz geht. Momentan führen die USA. Doch die ostasiatischen Länder werden sie bald überholen. Deutschland bleibt kurzfristig nur eine Lösung, um mitzuhalten



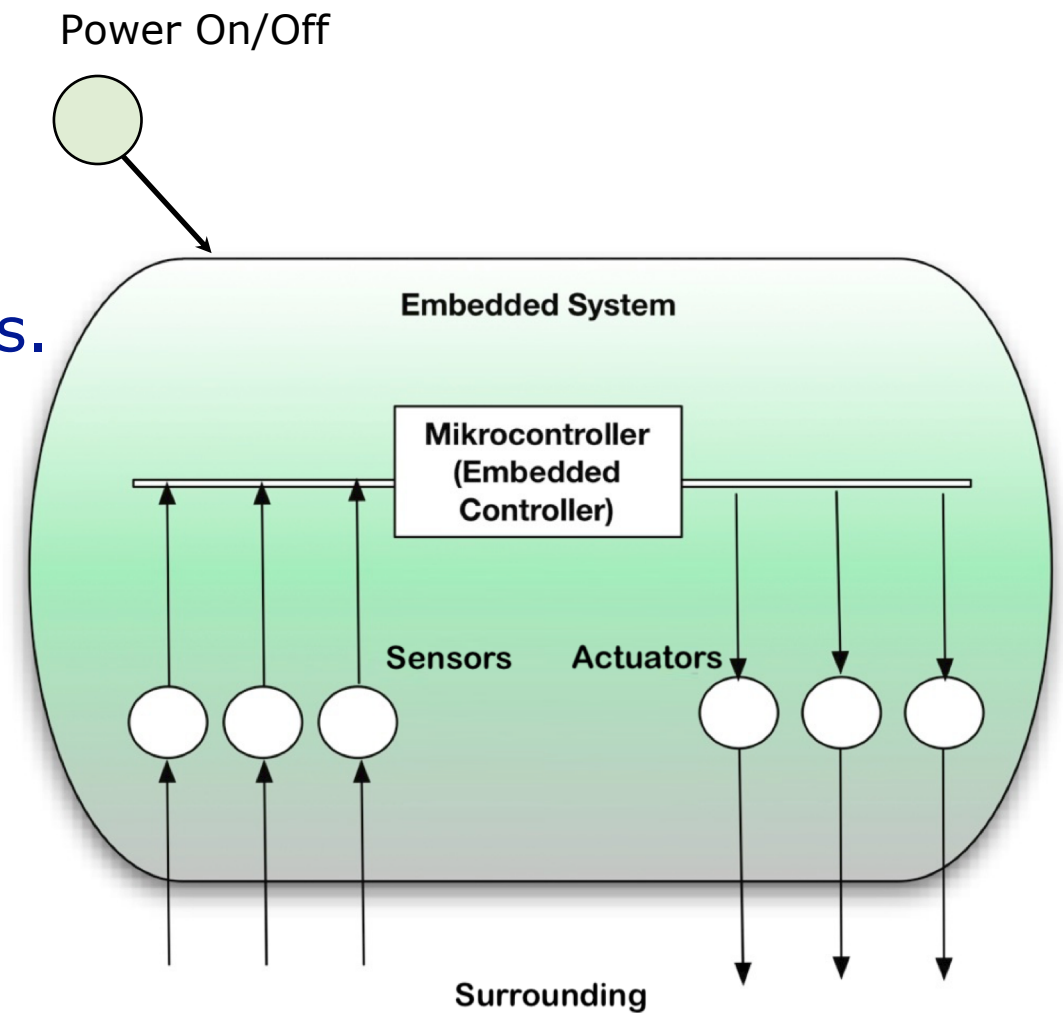
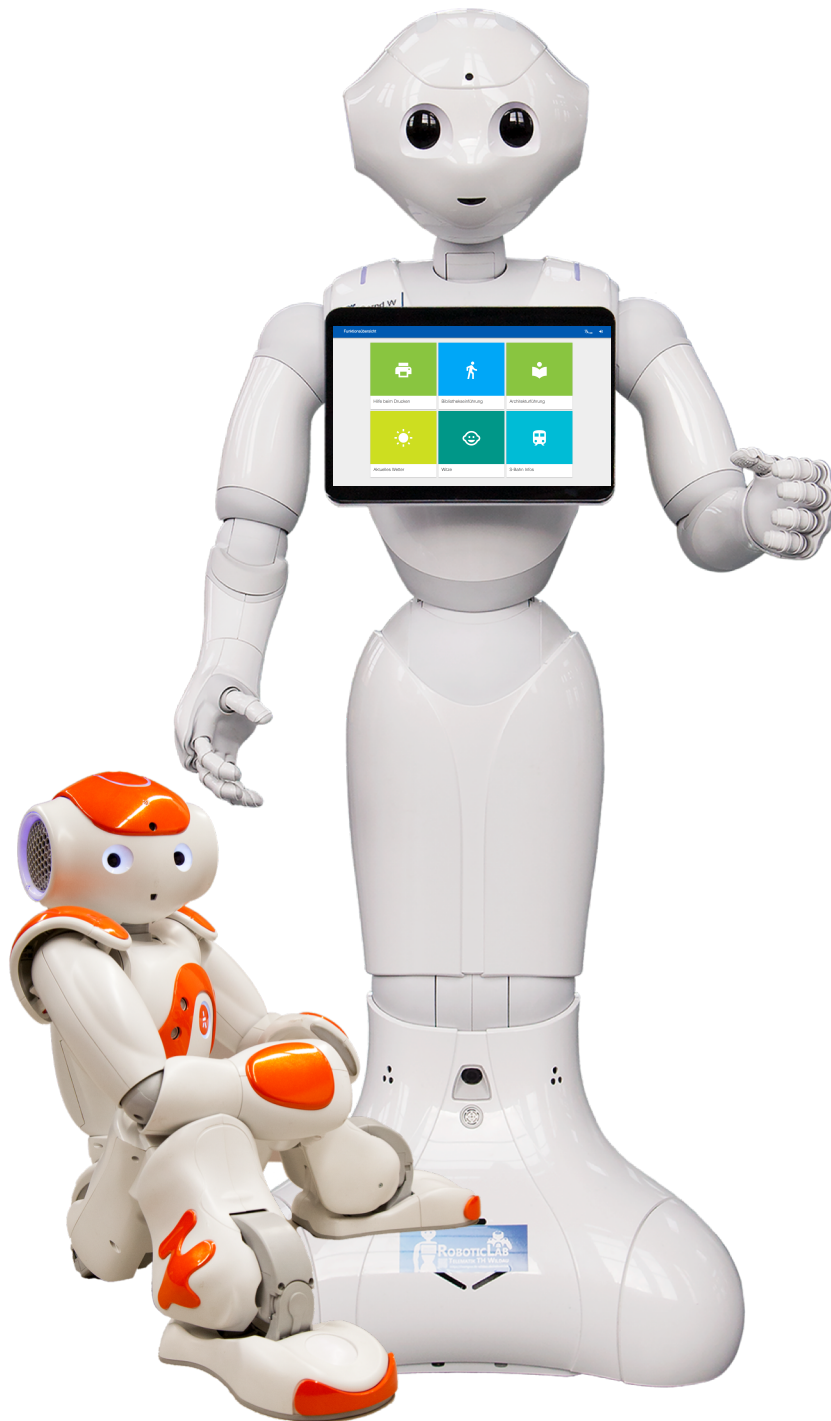
Welches Land wird KI maßgeblich entwickeln? / picture alliance

Do you notice anything?

Humanoid Robots == Artificial Intelligence?

Pepper and NAO are **embedded Systems:**

Only **Software** allows them to complete Tasks.



Humanoid Robots ~~=~~ Artificial Intelligence

Artificial Intelligence:

A branch of computer science that attempts to reproduce human approaches to problem solving on computers in order to achieve new or more efficient solutions to tasks.

THE LONG ROAD TO REALIZE OUR VISION



05. Natural Language Support

AI -> Machine Learning

04. Connecting to SMART-Components

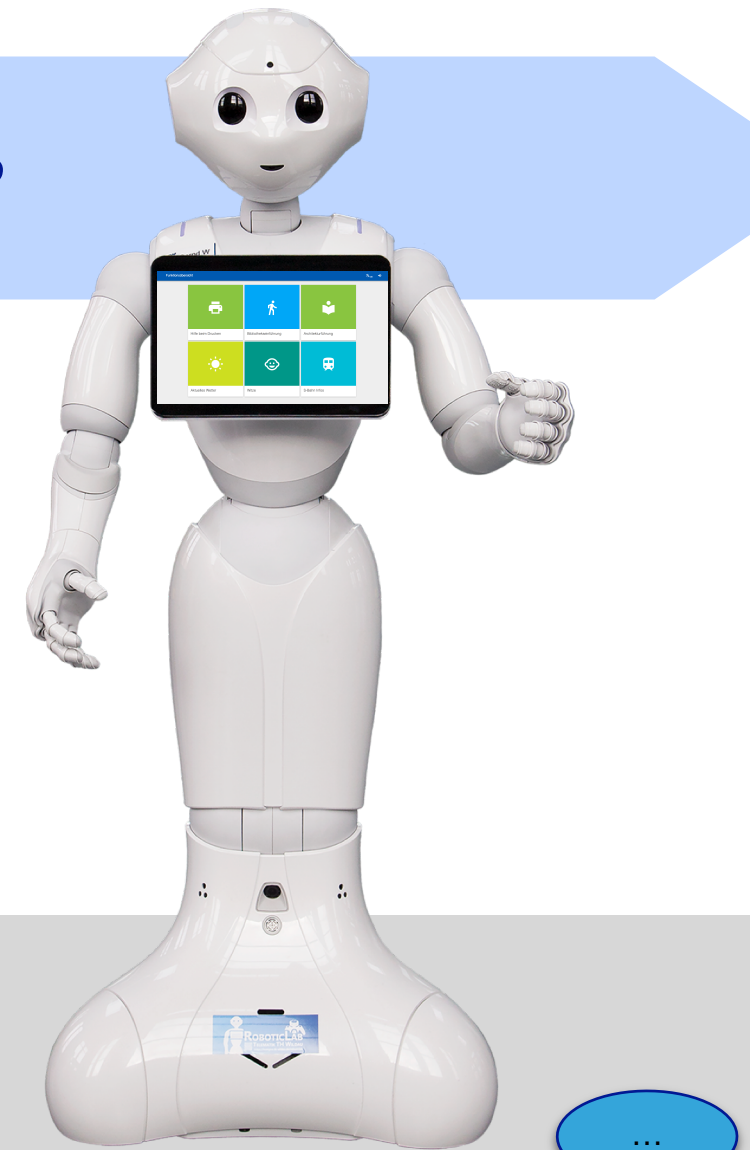
03. Security

02. Navigation Orientation

01. Server Infrastructure

Source: B. Stahl using freepiks https://de.freepik.com/vektoren-kostenlos/unternehmen-meilensteine-mit-kreisen-und-pfeil_1296164.htm

Interaction with the User: Tablet or Language?

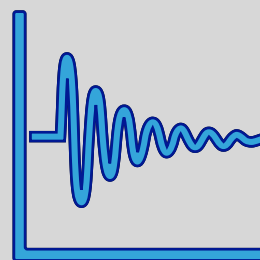


Natural Language Processing - The Challenge

„Where can I ...“



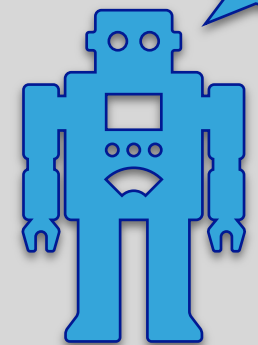
Listen



Convert



Analyze



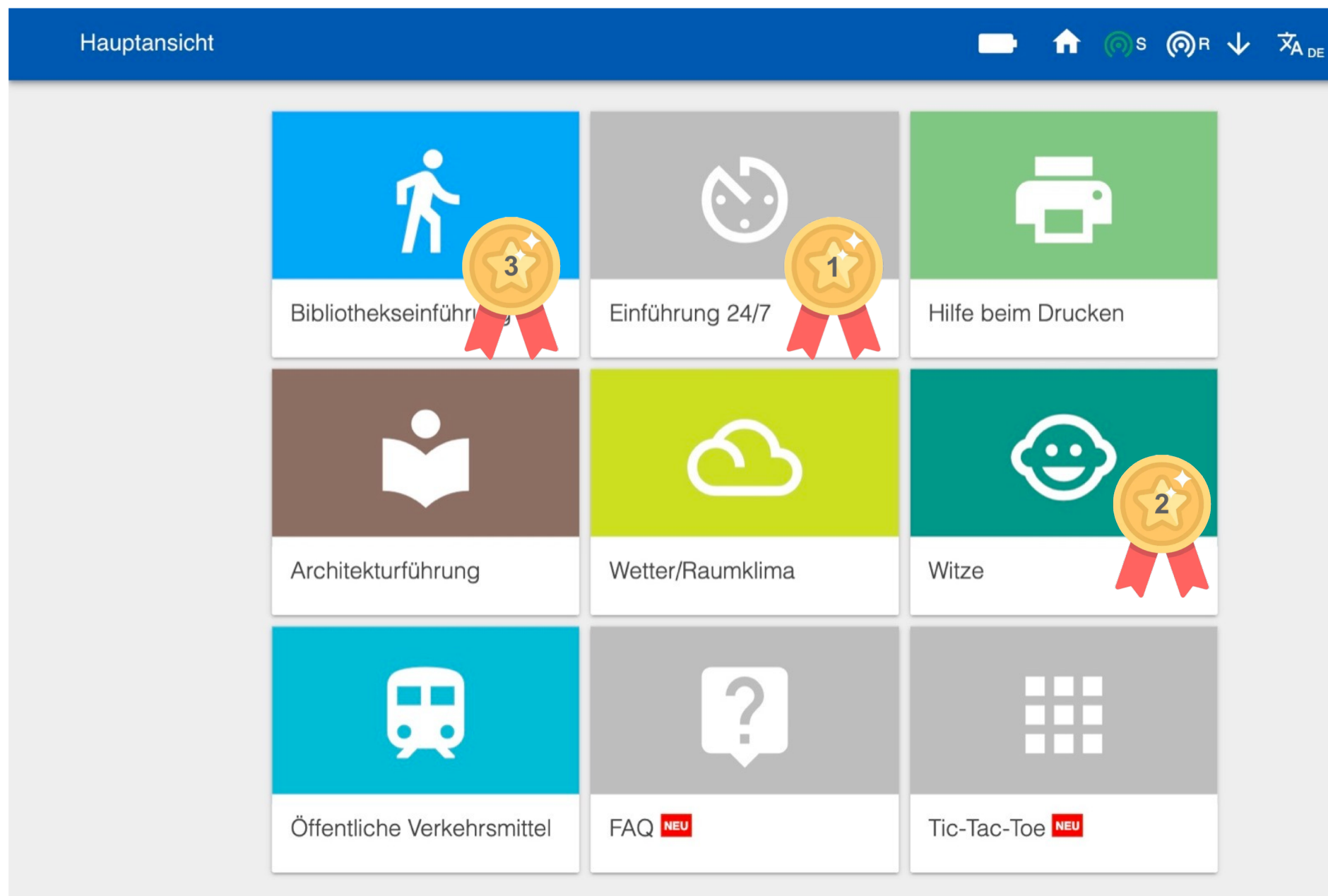
Respond

Machine Learning (AI)

How the **RoboticLab Team** and the **Library Team** work together



User benefits?





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