

Info Bee

Mobile Sensor

Autonomous on Demand Coverage from the Air

With funding from the:



The Info Bee serves as a mobile sensor carrier that supports the staff in the control center with its On-Demand live data collection. It can operate autonomously and due to its VTOL (Vertical Take Off and Landing) capability it can navigate dense urban areas as well as cover large areas quickly. With these advantages it can assist in better understanding of the traffic situation in case of special occurrences such as traffic accidents, demonstrations or other major events by supplying aerial images to the control center.

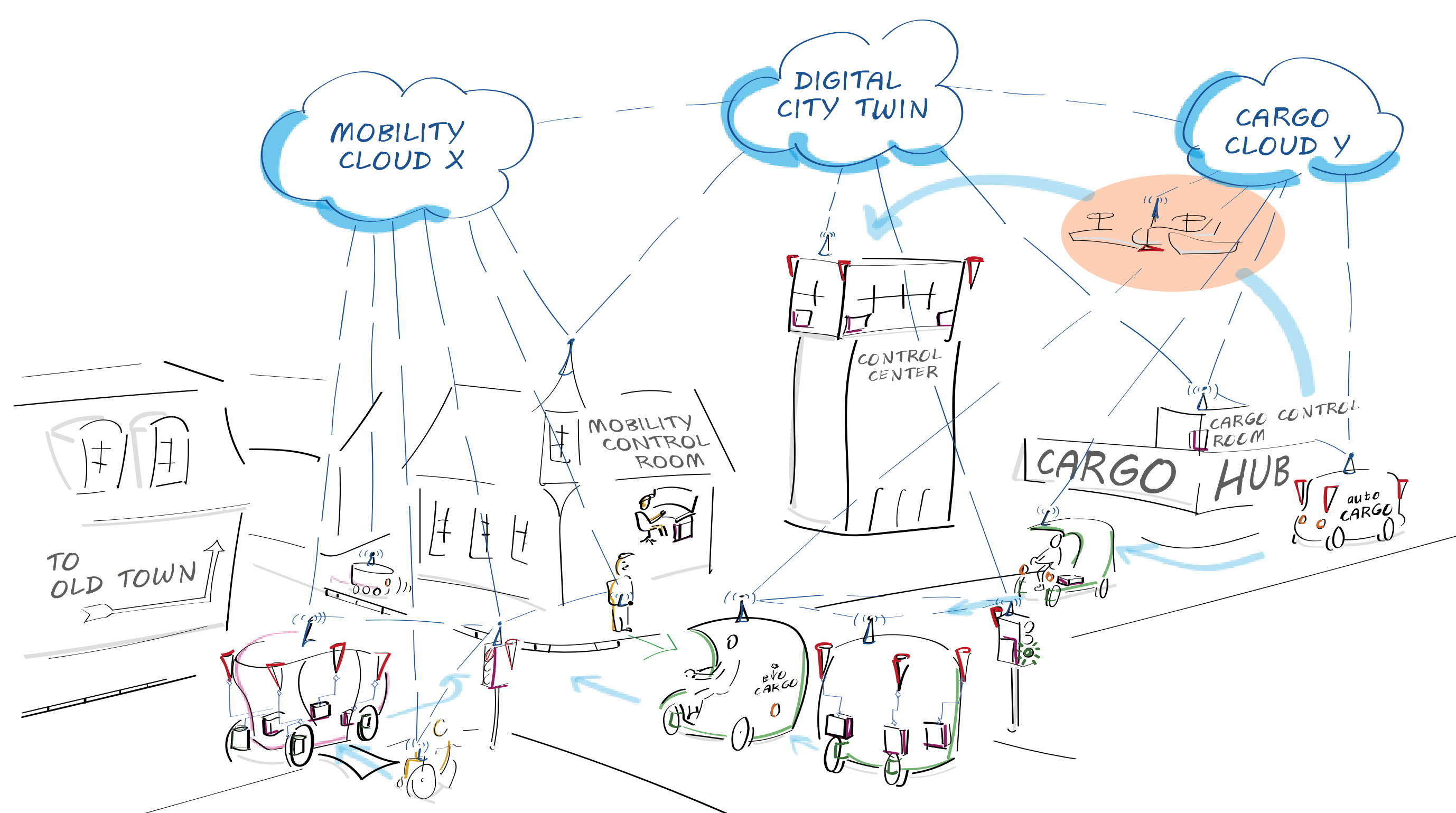


State of the Art

The use of UAVs (Unmanned Aerial Vehicles) for traffic surveillance or accident documentation is current state of the art. Due to the typical use of Multi Rotor UAVs with corresponding limits in flight speed and flight time, these UAV's are being manually brought to the intended location. The delay between demand and actual deployment of such systems is significant, and the associated operation costs are high.

Technological Innovations

By combining the VTOL UAV Neo, called Info Bee, with the On-Demand system implemented in the control center, we can achieve a citywide coverage with air surveillance. The Info Bee can start at the control center and autonomously fly to the required intersection or area at which additional information is needed. The Info Bee is demonstrated in the emergency scenario. It is providing on-demand coverage of an area affected by fire.



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