

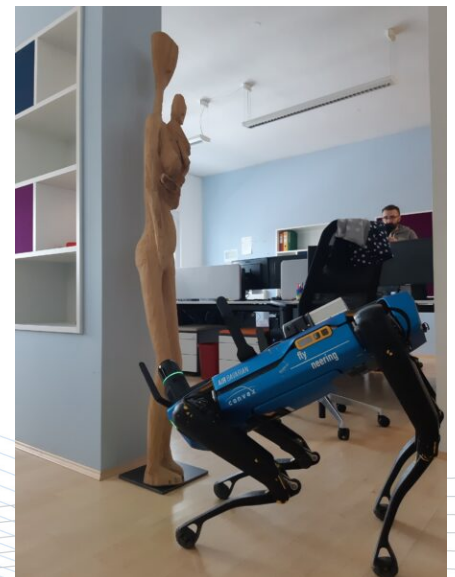


## SPOT:ON WORLDWIDE

“Robot” is a neologism by the Czech writer Josef Čapek. Mobile robots can move, act and react independently in their environment. Legged robots are special robots that can move with the help of legs. In the demanding environment of a construction site, legged robots can relieve us humans of a wide variety of tasks, such as creating a continuous documentation. We use the legged robot SPOT from [Boston Dynamics](#) for this purpose. Our SPOT is called CONVEXO.

We want to create a “digital clone” of a building: an immersive 3D scan, transferred into a 3D CAD model of the building, available at any time of its creation. The SPOT legged robot, which operates autonomously on the construction site and is equipped with the appropriate sensors as payload, is used for fully automated scanning. Together with [VRVis](#), [clone:it](#) und [Air Bavarian](#), we are working on the realisation of our vision.

The Austrian Broadcasting Corporation ORF has reported in [Mayr’s Magazin](#) on the 04.06.2021 about our legged robot CONVEXO. Our vision of a “digital clone” has already been in the newspapers. The Austrian newspaper [The Standard](#) reported about it on 07.07.2021 with the title “[With the robot dog on the construction site](#)”. The [Drohnenmagazin](#) reported in its issue 03-2021 about our CONVEXO and the advantages of the combined use of legged robots and drones for building inspection and documentation. VRVis is explaining the status of the project “[Robot dogs and real-time capturing: the future of autonomous construction site documentation](#)” on its website. The Austrian newspaper [Kurier](#) reported on 23.04.2022 with the title “[A robot dog on construction site inspection](#)” about our joint project with VRVis. FutureZone published a report entitled “[Robot dog Spot: How the walking robot scans construction sites](#)”, a feature video about our project with the VRVis. In its 07-2022 issue,



the Österreichische Bauzeitung published an article entitled "Robodog conquers Vienna" including an interview with VRVis project manager Thomas Ortner.

**Typ:**

Forschungsprojekt

**Partner:**

VRVis, clone:it and Air Bavarian

**Zeitraum:**

2021 - 2022

