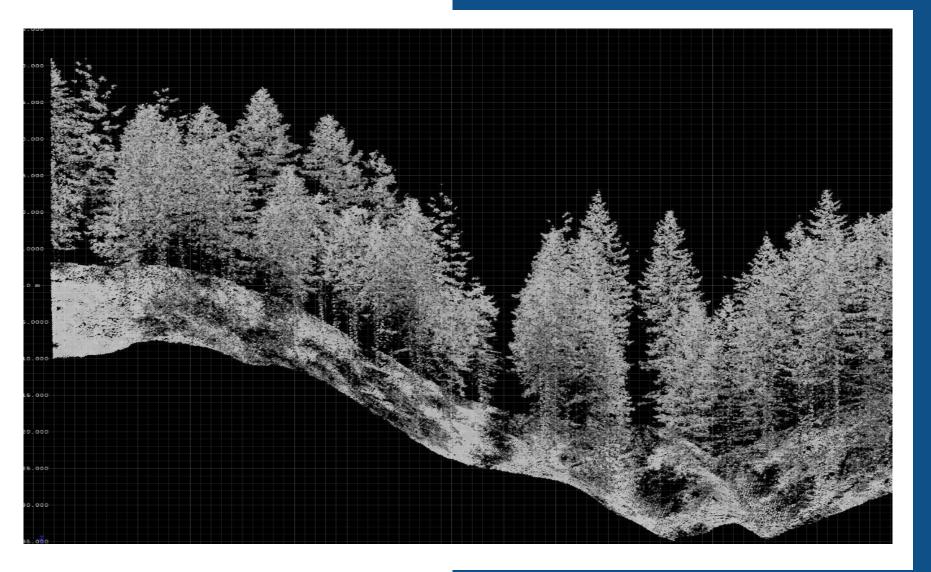




3D Twins, Digital Data Acquisition, and Al in Nature Conservation – A Glimpse into the BioMONITec Project.

Vanessa Berger – v.berger@cuas.at

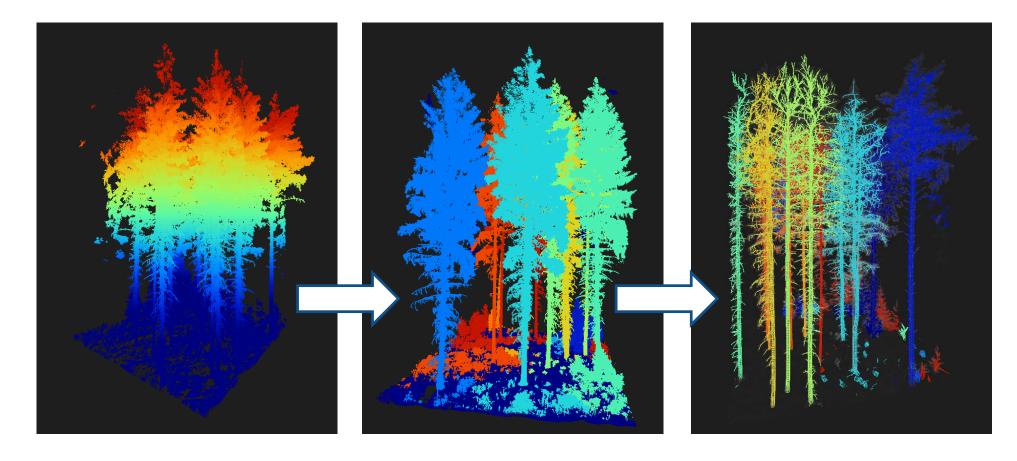
EUROPARC Conference 2023 – Tribute to our landscape Where nature and people meet in harmony



Digital Twin of a Forest

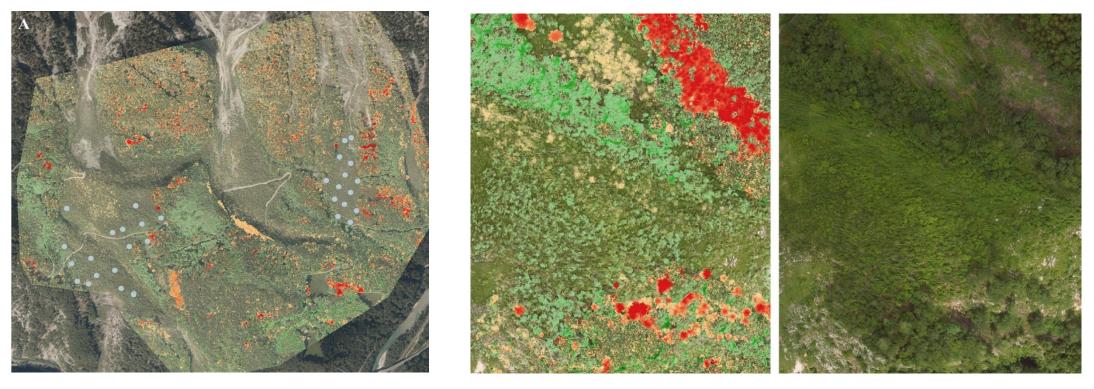


3 D Digital Twin – LiDar based





Change Detection - Biomass



Berger, V., Kirchmeir, H., & Hirschmugl, M. (2021). Application-oriented approach to monitoring the dynamics of avalanche tracks using conventional forest inventory parameters and Lidarbased change detection. In Proceedings of the SilviLaser Conference 2021 (pp. 353–355). https://doi.org/10.34726/wim.2034

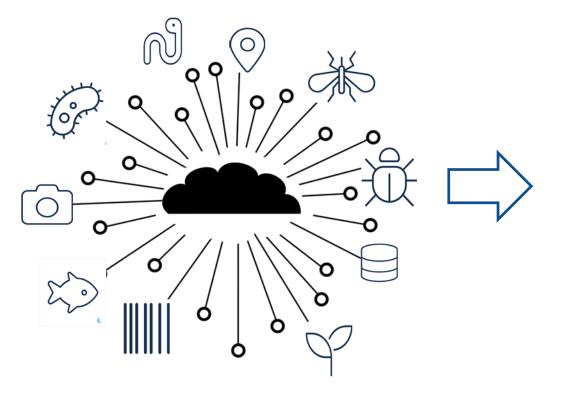


Photogrammetric based 3 D Digital Twin

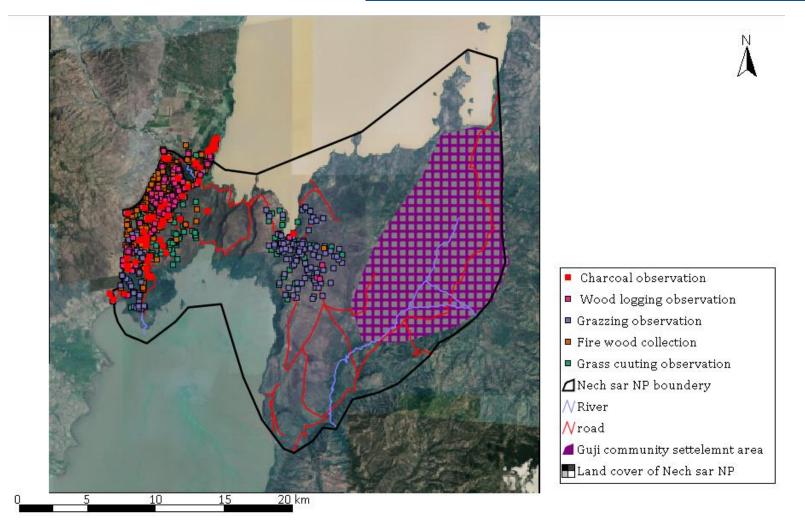




Near-Real-Time



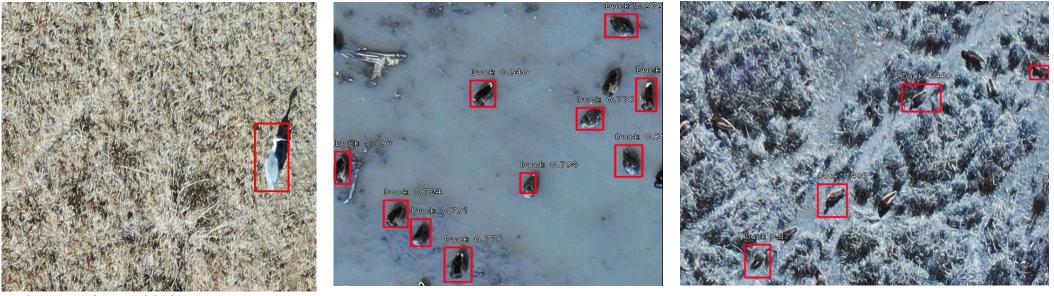




Tamirat Haile, Zerubabel Worku & Dereje Abera: Application of Spatial Monitoring and Reporting Tool (SMART) for Improving Law-Enforcement Effectiveness at Nech Sar National Park, Ethiopia. [Manuscript in preparation]



AI in Nature Conservation

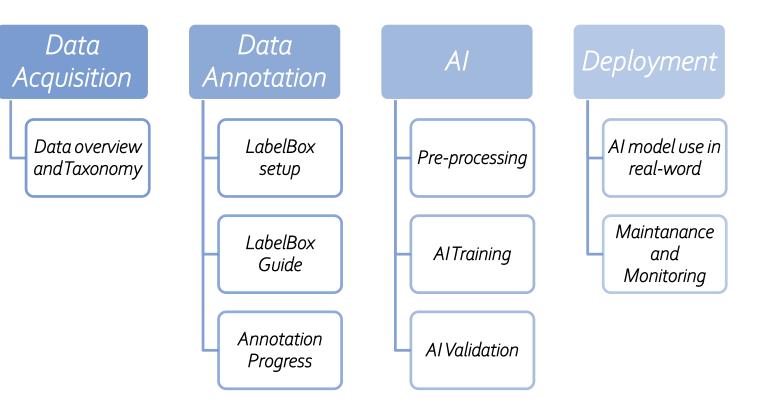


Source: Mohammad Sadoun

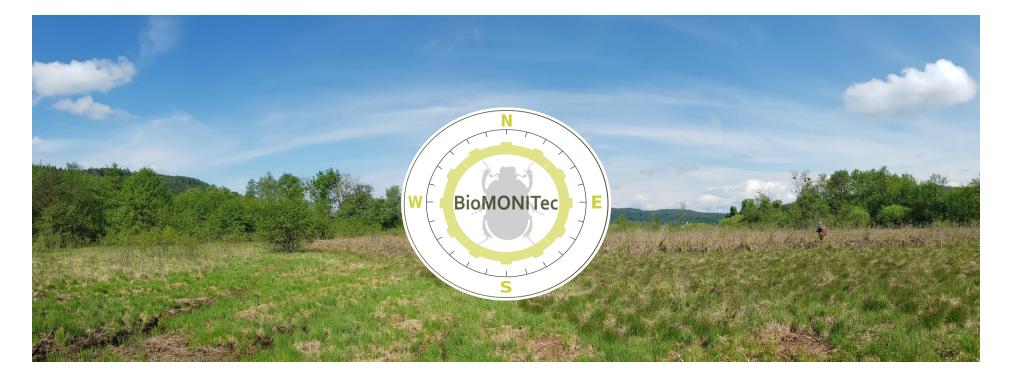








Biodiversity Monitoring Technologies – Test, Development and Transfer of disruptive engineering technologies into conservation practice



Thank you

Let's stay in contact

E-Mail: <u>V.Berger@cuas.at</u> Vanessa Berger



