PRODUCTION OF TRUE ORTHOPHOTOS IN PRACTICE AND VARIOUS APPLICATION POSSIBILITIES

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ABSTRACT:

In the last years, the demand for detailed digital surface models in Europe has increased. The sectors of energy providers and mobile network operators need more detailed models for better calculations and more efficient implementation. Forest Mapping Management GmbH (FMM) located in Salzburg, Austria, has a perennial experience in working with high-resolution digital surface models (DSM) and the following generation of true orthophotos. In the last 3 years, 7500 km² true orthophotos with combined DSM were generated and produced. The high degree of automation of the process and the reduction of insufficiencies found in normal orthophotos and results needs a newer way of thinking for handling such data, and provides an abundance of new possibilities. Since 2006, FMM developed and optimised a workflow to generate DSM and True Orthophotos, which allowed the data to be used by many applications, such as calculations of potential of solar collectors, actualisation of land register, documentation of damage caused to the environment or 3D building models and landscape-models. Especially in the sector of forestry and agriculture, the data has become established and is used by FMM for the development of software applications in the forestry sector.