

## **Abstract**

The study deals with the model area of the village Prášily in Šumava (Bohemian Forest), which is analysed in the framework of the project „Heritage of lost landscapes: identification, reconstruction and presentation“. The goal was to evaluate landscape changes since the middle of the 19<sup>th</sup> century until present with use of maps of stable cadaster, historical orthophotos, current ortophotos and to create 3D reconstruction models of the landscape and a 3D photorealistic model of the extinct village Hurka. The next aim was to evaluate possibilities of presentation of 3D models on the internet and to find an optimal solution for their web presentation. The theoretical part describes possible methods of evaluation of landscape transformation, development of landscape in the Czech Republic since the middle of 19<sup>th</sup> century, theory of 3D models, the use of 3D models in practice and the methods of presentation of 3D models. The practical part consists of two landscape models, that were visualized using ArcGIS Online Web Scene, Web Viewer and a 3D model of the extinct village Hůrka with fly-through animation. The models were created using Sketchfab, 3D Warehouse and Google Poly. Sketchfab was chosen as the best solution because of its good visuals and good display on mobile devices.