Abstract (EN)

This thesis is dedicated to the processes of digitization and metadata description, as well as the links that connect them. In recent years, another topic has been becoming relevant for both mentioned processes – the logical long-term preservation of digital objects. Long-term preservation is dependent on metadata and therefore on the processes of digitization, when some important metadata is created.

The first introductory chapter of the thesis briefly describes, with an emphasis on metadata, digitization and theoretical and practical problems of long-term preservation of digital objects. The OAIS reference framework is also analysed, since it is the background for digital preservation and present preservation metadata standards. OAIS is also important for the shape and functionality of digital repositories. Metadata is also the topic of the next chapter of the thesis. General metadata use and its development are discussed, with emphasis on administrative, technical and preservation metadata. The following chapter focuses on the use of metadata in the National Library of the Czech Republic. It describes the evolution during two periods leading up to the present. This section includes comments on how long-term preservation has been reflected in used metadata standards. The second-to-last part of the thesis deals with data storage possibilities and the issue of digital repository certification. The practical part of the work and the research output is a metadata application profile proposal for mass (robotic) digitization of modern monographs and periodicals for the National Digital Library project (NDK). The profile contains metadata schemas METS, PREMIS, Dublin Core, MIX, MODS and ALTO XML. The proposal was (in a less developed form) part of the call for tender documentation for NDK projects in summer 2011. Since autumn 2011, metadata from the project ANL+ (periodicals analytical description) has been created according to that profile.

Keywords:

digitisation; long-term preservation; metadata; metadata application profile; trusted digital repository; tools; OAIS; PREMIS; MIX; METS; MODS; ALTO XML