Denmark seen from above: communicating landscape change

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Activating the European Landscape Convention: Using landscape history to involve local citizens in participatory processes

The European Landscape Convention (ELC) calls for a participatory approach towards landscape planning and management by including the broader public in the planning process. One of the fundamental tasks in this respect is to raise public awareness about landscape related issues and stimulate public participation in landscape planning and management. Different methods have been proposed for educating and involving the public, but the explanatory report of the ELC stresses the importance of specialist training and formal education to achieve public participation, however this kind of top-down approaches often fails to involve the broader public (Jones and Stenseke 2011).

In 2009 The Royal Library received a grant of 4 million DKK to create a project designed to rely on the knowledge of local people, who need to know the location of the photos in order to use them only a matter of digitizing them. They also need to be placed – the metadata amounts only to the name of an owner and an approximate location. If the million of aerial photographs are to be assigned precise geo-coordinates and additional metadata, it has to be done manually. A project like this could never have been realized without the mobilization of volunteers with extensive knowledge of the local areas. The project went online in September 2012. After only 10 months online 141,500 photos have been locally placed by app 500 enthusiastic local citizens. If this work was to have been carried out by the employees of The Danish Royal Library, it would have cost more than 6 full time years of work. The work effort and commitment shown by our users has exceeded all expectations!

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Georeferenced historical material has a huge potential to be used in participatory landscape planning at the local level. The Royal Library holds changes against.

Public participation in data generation

Crowdsourcing is at the core of the Denmark seen from above project. The original archives contain limited information about the individual properties which were photographed. Often the metadata amounts only to the name of an owner and an approximate location. If the million of aerial photographs are to be assigned precise geo-coordinates and additional metadata, it has to be done manually. A project like this could never have been realized without the mobilization of volunteers with extensive knowledge of the local areas. The project went online in September 2012. After only 10 months online 141,500 photos have been locally placed by app 500 enthusiastic local citizens. If this work was to have been carried out by the employees of The Danish Royal Library, it would have cost more than 6 full time years of work. The work effort and commitment shown by our users has exceeded all expectations!

The aim of this poster is to present the potential of a new Danish online database with geo-referenced historical aerial photographs as a tool to involve local citizens directly in the development of landscape policy making processes.

About the project: “Denmark seen from the above”

The Royal Library of Denmark holds a large collection of more than 5 million aerial photographs, covering Denmark from 1890 to 2010. The collection contains both vertical and oblique photos, the latter of which originated from companies specialized in aerial photos of agricultural holdings, which were sold to farmers as a commodity from the 1930s until app. 1992. The photos have later been used for number of academic- and management purposes, primarily by environmental consultants and other landscape management professionals to locate potential areas of soil pollution from unregistered petrol stations – as has been the case in other countries (Christensen 2013). The collection has only to a very limited degrees been accessible to the broader public however due to the time consuming work of manual retrieval of the pictures and the related high cost of copies of the images.

In 2009 The Royal Library received a grant of 4 million DKK to create an online database of scanned images from the collection of oblique aerial photos. However providing easy access to this material is not only a matter of digitizing them. They also need to be placed – the users need to know the location of the photos in order to use them and the amount of metadata is often very limited. In consequence, the project was designed to rely on the knowledge of local people, who were involved directly in the process of geo-locating the photographs through a so-called “crowdsourcing” approach. To facilitate this, a website with a set of tools making it possible for members of the public to locate pictures on screen maps in a graphical interface was set up. In the first and ongoing phase approximately 225,000 photographs from the island of Funen was scanned and 80% has been geolocated through the crowdsourcing interface. We hope that this kind of material may be of the benefit of not only citizens interested in cultural landscape history but also local authorities as well as researchers within history and landscape ecology.

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