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#### Preindustrial versus postindustrial Architecture and Building Techniques

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# International Conference on Vernacular Heritage, Sustainability and Earthen Architecture

## VerSus 2014 | 2nd MEDITERRA | 2nd ResTAPIA

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### Preindustrial versus postindustrial Architecture and Building Techniques

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**Topic:** T1.1. Sustainability concept in the vernacular and contemporary architecture.

**Keywords:** architectural design, construction, materials, energy efficiency.

#### Abstract

The paper will identify the sustainable parameters related to the change in society, building technique and comfort demands illustrated through 2 Danish building types, which are very different in time, but similar in function. The one representing evolution and experience based countryside farm house built around 1700 and the other a frontrunner suburban family house built year 2010.

The aim is to show how preindustrial architecture can inspire sustainable thinking in postindustrial architectural design, how we can learn from the experience and how the nowadays social, economic and environmental conditions give perspectives and guide a knowledge based evolution of basic experience into an industrialized building process.

Methodology used are comparative analysis on the specific 2 types: 2 long houses build related to the ideals of the preindustrial and the postindustrial period will point out how living conditions, landscape and topology, how climate and the possibility to use local materials for construction and how actual building technology influences the design, the economy, the comfort and the energy use.

Analysis involves architectural, technical and comfort matters and will state the levels of artistic design, social conditions, scientific knowledge and sustainable and energy efficient parameters.

Examination and research will be carried out both theoretically and by interviewing professional architects and engineers.

Results will state which lessons from the past will characterize a future building stock and to which level buildings are expected to operate in relation to the actual demands of zero energy performance and better indoor living comfort. In that way we will be aware of the great evolution in our ways of managing the physical frame of our daily life.

## **Supplementary information**

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As an architect over a long period she has been working in practice and as Associate Professor teaching and researching "Architecture of the Everyday". Strong involvements in sustainable aspects have led to activities through research networks concerning perspectives of very low environmental impact through new building processes. From 2005 until now she has initiated and organized several seminars and conferences concerning Sustainability and Energy Efficiency in architecture. Parallel to that she has been active in the Nordic Passive House activities and has published several papers concerning innovation through architecture, renovation and energy efficiency discussed in respect to Architectural Heritage.