Project: REViSITE **Roadmap Enabling Vision and Strategy for ICT-enabled Energy Efficiency (www.revisite.eu)**	**REViSITE**

Title: **D2.1** ICT4EE- Data Taxonomy: A Common Methodology to assess the impact of ICT developments	**Deliverable D2.1 (download)**

Work Plan: The REViSITE project aims to produce a common cross-sectoral ICT4EE roadmap that identifies and harmonises common topics highlighting synergies for positively impacting energy efficiency. This deliverable D2.1 reports on the development of a generic taxonomy and a common methodology to assess the impact of ICT on energy efficiency.	Authors: **Keith Ellis (Intel Labs)** Keith.a.ellis@intel.com

Executive summary:
The importance of ICT as an enabler for energy efficiency is well understood, however the EU Commission has also identified that *"in order to promote legitimacy, transparency and real progress in the application of ICTs to improving energy efficiency there is a clear need to create a level playing field based on common ways of measuring energy performance … and on a common understanding of commitments, targets and methodology"*.

The main objective of D2.1 is to offer the REViSITE consortium a common and useful means for assessing the impact of ICT on energy efficiency. This is paramount, for the development of D2.2 'Knowledge and Current Practice' report and D2.3 'Impact assessment model', in identifying that which is homogenous, heterogeneous and synergetic amongst the sectors.

Deliverable 2.1 begins with an assessment of the specific energy consumption of the four identified sectors, namely Smart Grids, Buildings, Manufacturing and Lighting. The potential high level impact of ICT on these sectors is then outlined, as is the approach of other organisations focused on the development ICT impact assessment methodologies. Subsequently the REViSITE developed methodology and SMARTT taxonomy is presented.

SMARTT stands for Specification and design, Materialisation, Automation and operational decision support, Resource and process management, Technical integration and Trading/transactional management. Aligned to these high level categories are sub-categories to which ICT's and RTD's are then mapped. The REViSITE methodology is a qualitative approach which leverages the heuristics of domain experts and

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is based on 'life cycle thinking' coupled with elements of an adapted Capability Maturity Model. While the deliverable does not offer a common means for accurately measuring the impact of ICT on energy efficiency it is deemed by the REViSITE consortium to convey a useful approach for qualitative assessment across sectors and as such offers a possible foundation on which to base more quantitative methods.	
Keywords: Taxonomy, SMARTT, ICT, ICT impact assessment, Methodology, Smart Grids, Smart Buildings, Smart Manufacturing, Smart Lighting.	**Date: 21/12/2010**
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