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Deliverable D1.1

Report & library on existing technology and data

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Executive Summary

This Deliverable aims at introducing the existing technology regarding the energy data management solutions that can be used in the NRG4CAST project. The solutions described in the document are divided in three categories; Software tools, European projects and National projects.

The software tools that have been already developed by the Project Partners are the EnStream, the ONTOGEN Software Libraries, the ENRYCHER, the CYC Extended Common Sense Ontology and the ENVIGENCE Operating System. The usability of each software to the current project is also described.

The European projects that have a close relation to the NRG4CAST project and in which the Project Partners have been involved are the ENRIMA, INTUBE, HESMOS, DEHEMS, MIRABEL, NOBEL and ICT4E2B. The results of these projects provide a very useful source of information, so the utilisation of this knowledge plays an important role to the project progress.

Accordingly, there are two national projects that could be also useful for the NRG4CAST; the SmartWheels and the OSCAR. Though their objectives are related to the mobility solutions in municipalities, their approach method and results could be used during the project and especially for the MIREN-FIR-CSI pilot case.

Following the discussion on the existing technology, a description of the pilot cases is presented. To this end, technical data regarding the NTUA pilot case has been collected and recorded. The current situation (as-is) is briefly described and the target situation (to-be) is also defined by the Project Partners. The same structure is applied to the MIREN-FIR-CSI pilot case. Additionally, the available data sources for each pilot case are presented in details.

For the moment, the deliverable presents the available data and needs for information monitoring. It does not create the overall context of the joint scenario for MFC (MIREN-FIR-CSI). This will be the scope of the next task (2.1) where use cases and requirements will be defined.

The technology partners together with the users discussed each case separately. From each case, different information monitoring needs, sources and NRG4Cast business services are expected. The table below provides a summary of the current pilot cases status. It has to be noted that the mapping with business offerings was done according to the NRG4Cast offerings presented in the Description of Work.

