Agenda for the meeting with Baldiri

Topics:

- First visualisation with some practice data/progress

- Datacamp (and our datacamp planning)

- Our work rules

Question we want to discuss:

- We need to adress te privacy argument again since people are asking us about it. We want to answer the privacy question in the future: who is responsible and what will happen with the information about the energy usage of households.

- Why do they need to know when someone is using the oven (speciffically)?

- We want to make an individual file per house, including the excel+csv data. Do you think this is smart?

- Why are there some pdf files instead of excel files?

The privacy issue

The reason why the information is needed for specific things, like knowing the oven is on, is because you then can automate things. Besides that, the system can recognise problems beforehand. The information will be progressed within the smart meter.  
There will be no information gathered whether they use a certain thing or not, it will only be estimated/guessed.

Another party wants to know patterns of people in general, not individual data. This information will stay anonimous. The whole reason is to make sure “what” things use the most energy during a certain time of day. The reason this party wants to know this is purely financial/technical. By altering the patterns more money can be made. At the same time, knowing which technology uses the most can be used to improve the technology.

The two main question, more in depth

Vision  
The ideal is to look if its possible to make a home automated: turning sockets on and off by a “robot” for example. The house will be managed internally. The reason for this is because the current net will not be bale to handle the energy consumtion in the future, at least with the current distribution of energy usage.

Forecasting  
The energy companies need to know what amounts of energy will be used in a few days. For example: in four days there will be no wind, so the ocmpanies need to use their batteries/stored energy. Machine learning will come into place here. Only the total amount of energy used is important here.

One file per house  
Baldiri agrees, eventhough you can never know for sure.

PDF-files  
There were problems while gathering the information about the houses. Thtat’s why they used PDF-format. It is possible to get the excel files from the researchers.   
We’re going to get more information from the researchers. They found the data wasn’t readible, but we will get it anyway.

Other notes  
Baldiri wants to aim for a congress. In the meantime technical papers can be published.  
He will be helping writing the paper if we are short on time.  
Also, who puts more hours into the paper, will be the first authors.

The main goal, from Baldiri’s perspective, is to make a working algorithm. The dream would be to write a great paper in the end.

It will be possible to meet the staff of the project real soon.

Literature tips

The keywords are the most important. Make sure you have keywords this words this friday. Not just “predicting energy” but way more specific.

In the excel file: add a keyword column and make a distinction between the importance of the papers.