Meeting Baldiri 6-9-2018

1. Relevant literature/keywords we found for the project
2. Relevant information from the Excel/PDF-files
3. The changeability of the research questions
4. First of all, we will need to make a working multi-regression model. The reason being, is that we will always have a working model in the end. If it works, step up your game.
   1. Use multi-regression and energy prediction for the first model
   2. Use ANN and energy prediction for ANN
   3. Use the “good paper” to use the references
   4. A n important note is that if you use the different methods, you can compare them with the other papers results. This is an important part of science. Then you can make sure if the results are valid from the other researchers.
   5. Read around 5 papers per hour, make sure you read them “the fast way”.
   6. Keyword for prediction of usage of different things in house: Non-intrusive load monitoring. Non-intrusive: knowing what people are doing in their home but not actually installing more sensors/going inside the house.
5. Baldiri will discuss the importance of the different information in the excel files.
6. Energy prediction will be first question that needs to be answered, Baldiri agrees.
   1. First multi-regression analysis --> start with singular regression analysis: Solar radiation and outside temperature is a good way to start.
   2. Second ANN

Extra notes:

* How many days will we need to predict?
  + Depends on the data: half of the data (from each house) will be used to make the model, the second half is used to see if our model actually works.
* Make a tree of the information from the excel files (deadline: next week)
* The reason why we don’t only predict with historical smart meter data, is because then we won’t be able to give an exact prediction on how much energy a house will reduce it’s usage when adapting his isolation for example.

Poduct for next sprint:

* Plot the first regression analysis with solar radiation and outside temperature (get information from rotterdam) for one single house.
* Devide the current scrum tasks in smaller tasks