Dwelling Energy Insights – Week 10

Team members: Merel Kreszner, Olivier van Luijk, Rajeev Kalloe,
Santiago Puertas Puchol, Emilio Caba Batuecas & Teo Čurčić

Product Owner: Dr. ir. T.B. Salcedo Rahola

Progress during sprint 5

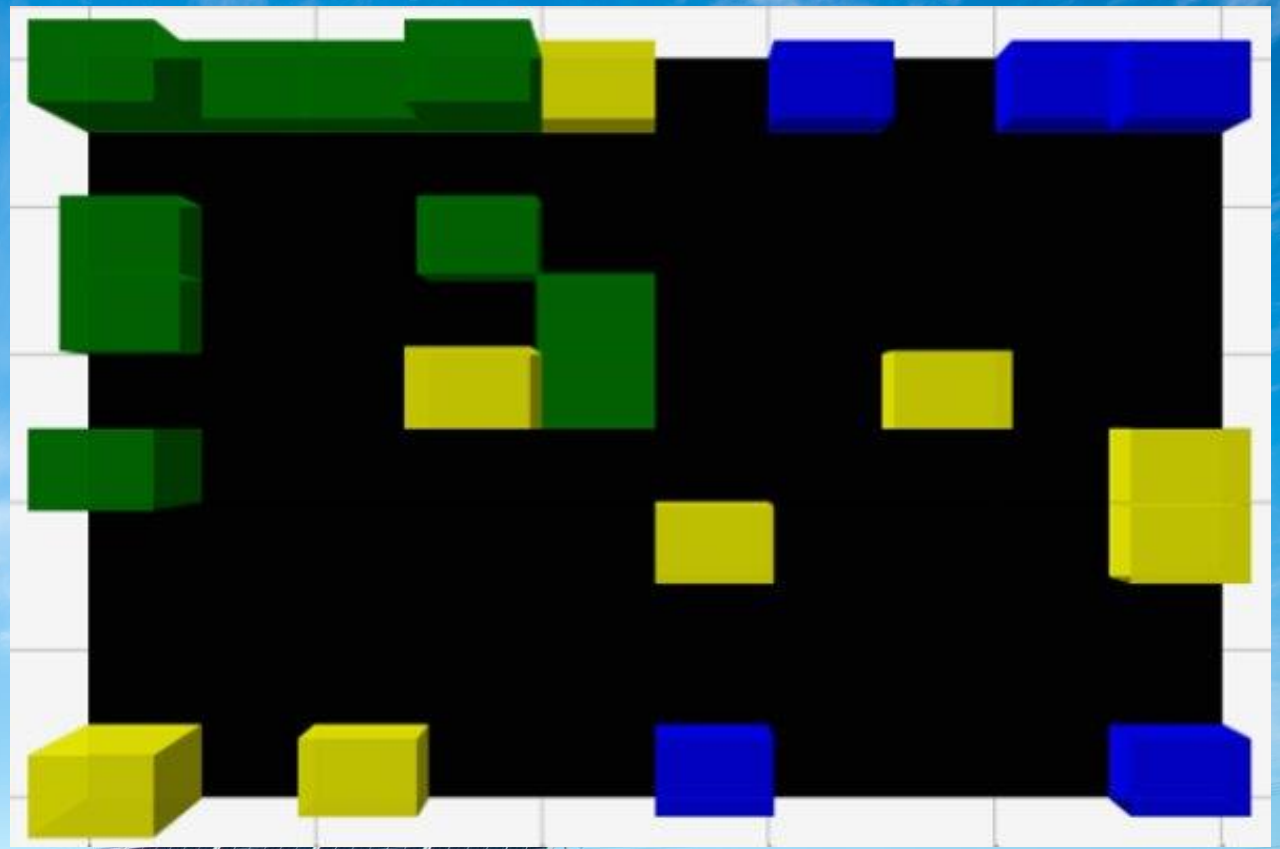
- Preparation of presentations:
  - Open presentation
  - Presentation about T-SNE algorithm (including the tutorial notebooks)
  - Presentation at Groene Mient

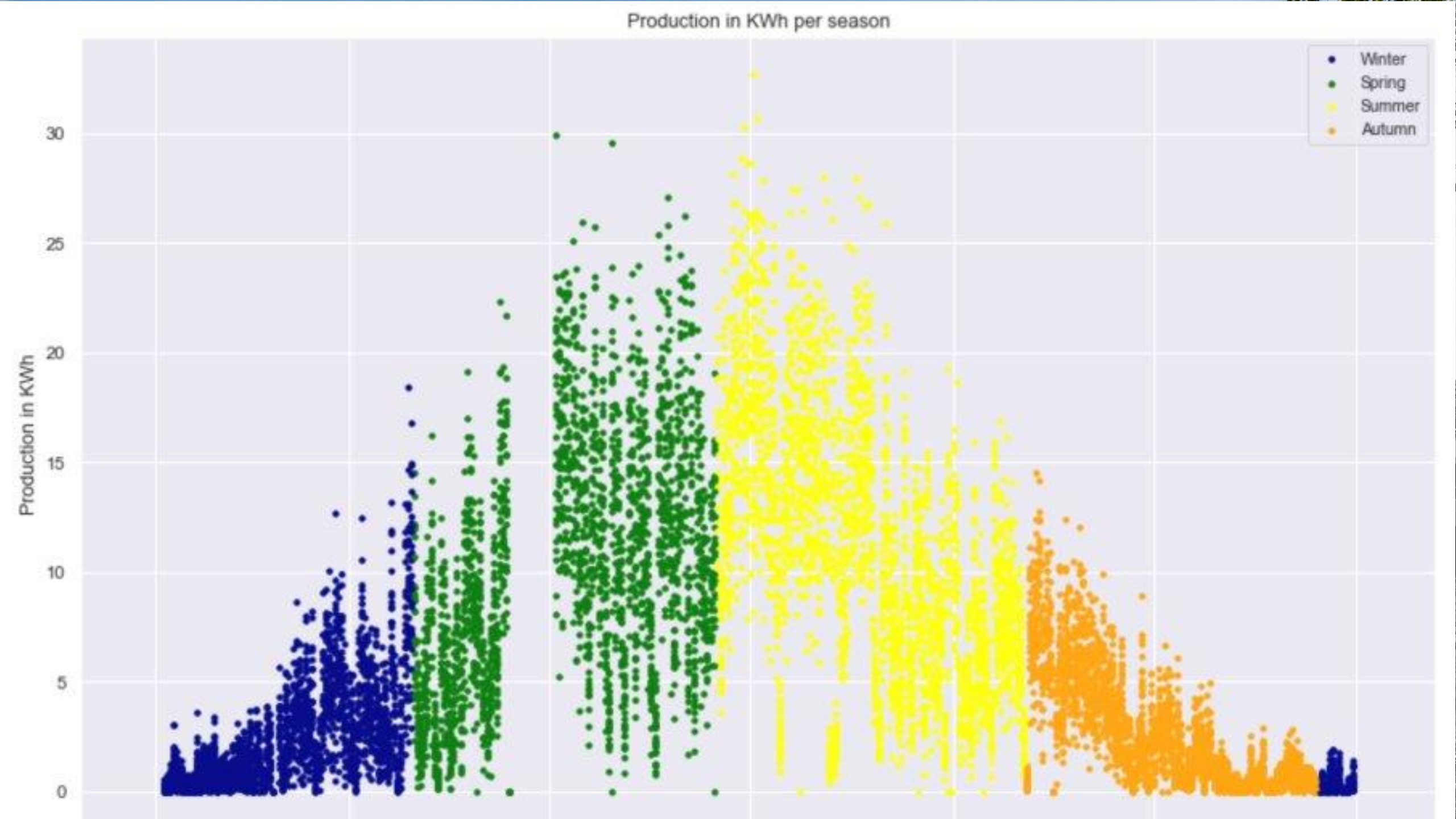
- We started implementing the following (unsupervised) Machine Learning algorithms:
  - Kohonen map
  - K-Means
  - DBSCAN clustering
  - Support Vector Machine (supervised) with other labels (such as heating system)

- Visit at Groene Mient

What kind of groups can we produce based on the dwelling characteristics?

Heating System Type									
11 17	15	3	4 23	19		22		25	20
27			33						
24				31					
			6 13	26			7		
16 18									9
					1				29
8 21		2			32				28




Production in KWh per season
Winter
Spring
Summer
Autumn
Production in KWh
30
25
20
15
10
5
0

Remaining tasks/issues

- Continue with the implementation of unsupervised ML algorithms:
  - Kohonen map
  - DBSCAN clustering
  - K-Means
  - Hierarchical Clustering

- Continue with the implementation of supervised ML algorithms:
  - Support Vector Machine with labels from dataset
  - Logistic Regression with labels from dataset
  - K-Nearest Neighbours with the labels from the dataset

- Comparing supervised and unsupervised algorithms

- Prepare for presentation at TU Delft

Questions/Feedback

- Are there any questions or feedback based on this presentation?