

**DATA CHALLENGE**

**HOD22 Q&A**

**COMBUSTION**

**OPTIMIZATION**



What other values have to be predicted aside from NOX-Emissions?

Aside from NOx-Emissions we are in cement plants also interested in Freeline (FCaO) values coming from a laboratory every 1-2h only.

In W2E-plants we also look for near future steam mass flow values.

Should the analysis be in real-time and result in live-adaptions?

The outputs of the system to be developed are required in real time. Real time in this case means that a few seconds of computation time are fast enough.

Live adoptions would be fine, but are not required in this first stage.

What does "understandable" mean? Is a simple visual label (where on the image is something important ("salient")) enough or should the features be humanly interpretable?

Understandable or explainable means that we and our customers can see for instance what part of the image sequences do carry the information (like "the intensity of the upper left corner is related to NOx"). As you proposed also a label showing which part of the image is informative would be a sufficient explanation.

Should feature extraction be comparable across the datasets or can we have different features across the given datasets (and in the future)?

We expect that for each plant (dataset) there needs to be a specific feature set, but the algorithm should be the same for all data sets.