# Brainstorm about our problematic Let’s define our topic 13.05

* We will work with the Data Set of Pauline
* Brainstorm:

Did the environment has an impact of the phenotypic traits? (quantitative analyses)

What is the impact of the genotype of a mixture variety? 🡪 Maybe only focused on the traits which are used to calculate yield (number of spikes per square meter, kernel weight, and kernels per spike)

What is the yield capacity variation of wheat mixture varieties in different environment and is there a genetic effect/impact on the yield variation?

* Idea of problematic: Is there a variation of the yield capacity of wheat mixtures varieties in environment with extreme hydrological conditions and is there genetic changes associated to this yield variation?
* Idea of “title”: Genetic changes associated/Genetic composition/Genetic effect to the yield variation of wheat cultivar mixtures in different hydrological conditions

Question for JD: Can we quantify the part of phenotype which is explain by the interaction between genotype and environment?