## Project idea:

* MARL algorithm for corporative coordination in MPE
  + With noises in communication

Centralized training decentralize execution

* Eases training by sharing agent’s local information at training
* Decentralized execution more realistic, does not assume an oracle that controls agent at runtime
* Communication between agents offers them the way to selectively exchange information, allowing more informed decisions while achieving the same scalability and parallelizability advantages of decentralized approach

Assumptions:

* Agents can communicate with each other
* Learned policies can only use local information at execution time
  + No constraint on policies in training
* Does not assume a differentiable communication channel
* Noise added to communication is unknown