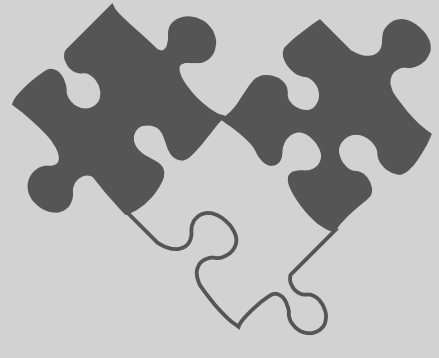
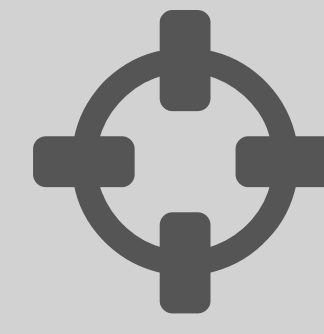


# UAV for Aerial Application at Crops

## BACKGROUND



- Problem: apply biological/chemical at crops:
  - Human application: not healthy;
  - Tractor: destroy part of plantation and do not apply uniformly;
  - Airplanes: costly and dangerous.

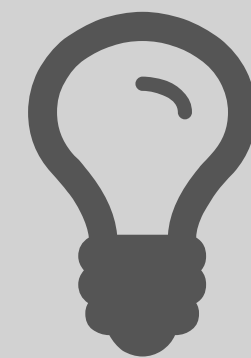


## GOALS

- Develop and UAV for agriculture proposes:
  - Multirotor (quad/hexa-copter)
  - VTOL? Quad + wings.
- Cheaper and safer than airplanes
- Do not involve human interaction



## APPROACH



- Develop an UAV for autonomous application of chemicals and biological at crops;
- Choice of cheap and strong structure: aluminum;
- Development of control board: sensors, control and actuation;
- Electrical motors + combustion motors (for large UAVs);
- Development of HMI for easy choice of trajectory.

