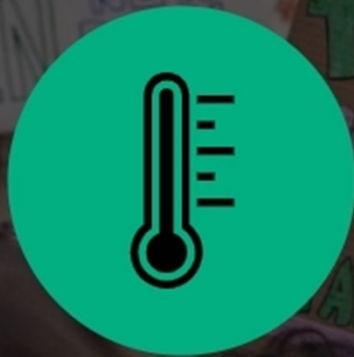








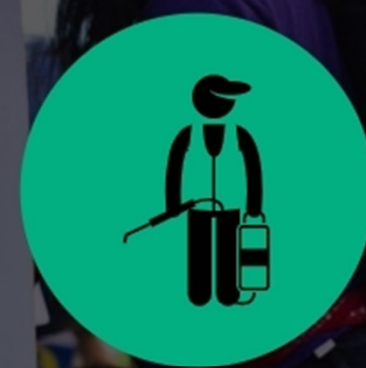
## The Problems



Rising temperatures pose a threat to suitable ecosystems



35% of our drinkable water is wasted during irrigation

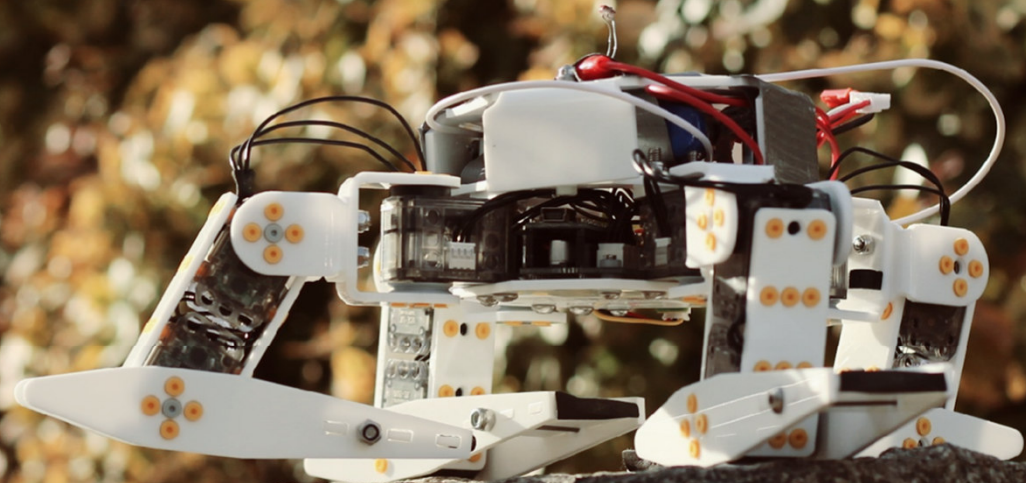


Almost 10 million metric tonnes of toxic waste released each year

Sources: International Pest Information Society (IPIS), Worldometers

# Autonomous Plants

Chair of Data Processing





# The Solutions

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Monitoring vital plant data, autonomously and sustainably driving water levels



Optimal Location Search using a Photoresistor and randomized movement



DeepLearning Classifier capable of diagnosing diseases among three crops with 89% test accuracy

Dataset source: <https://www.kaggle.com/emmarex/plantdisease#009dd1f5-281a-4e54-9f80-a068d0d8cfcd> YLCV\_NREC%202162.JPG

# Examples from the dataset



Potato, Early blight



Potato, healthy

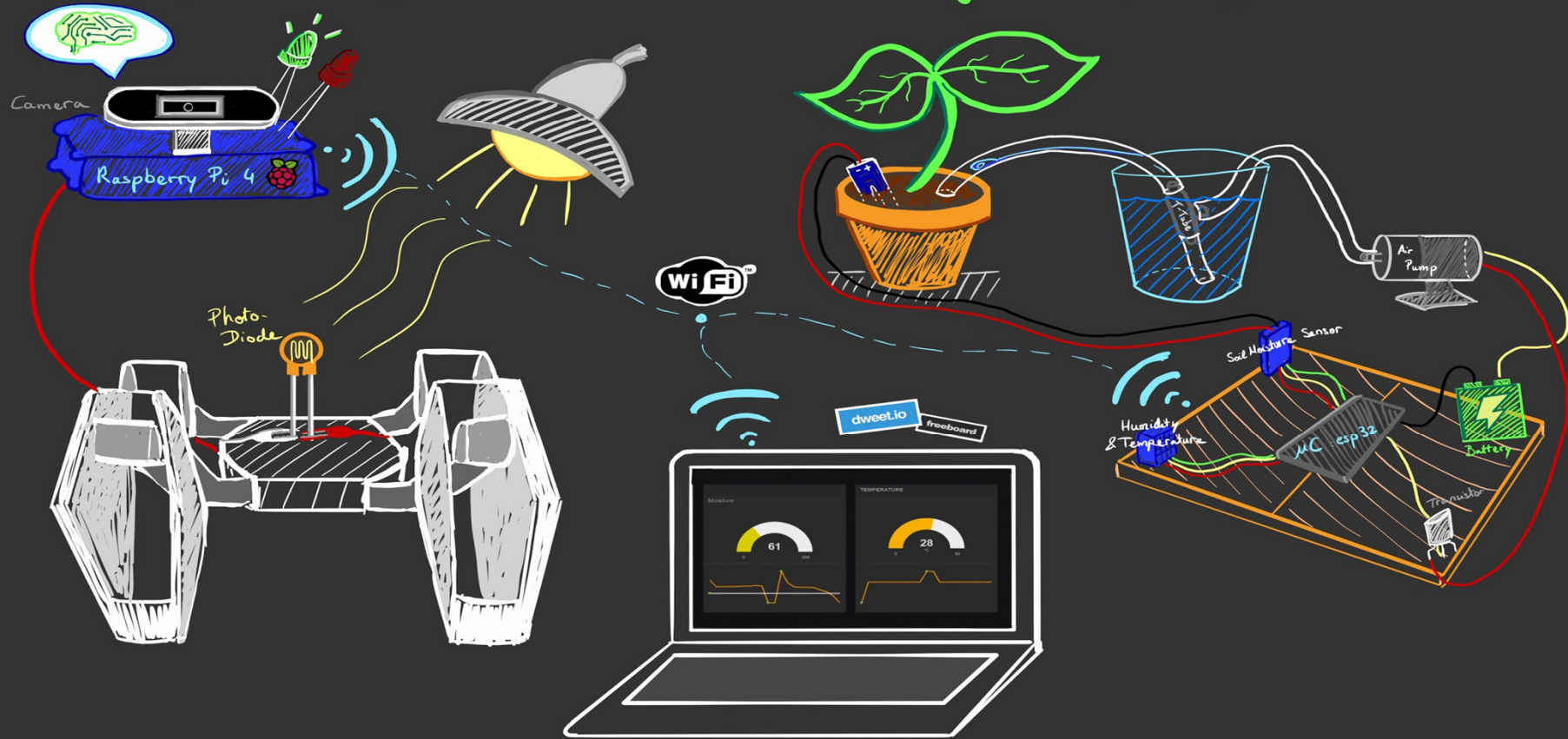


Potato, late blight



Science Hack 2019

# Autonomous Plants (final prototype)



# Demonstration





