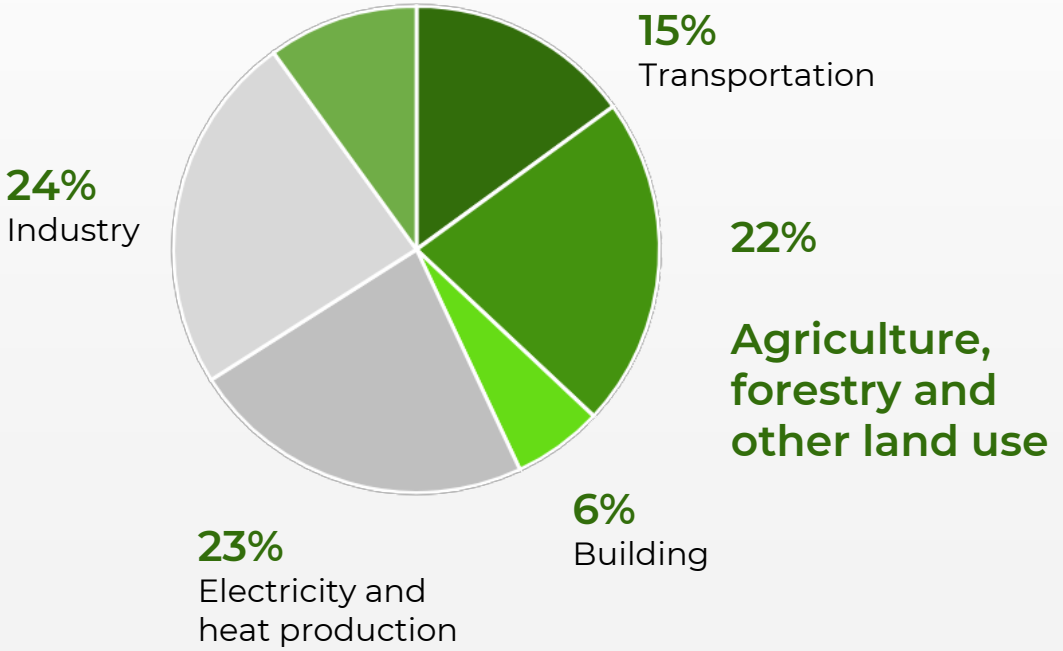
TRABTYX

Big Ag is feeding the world, but it is killing the planet and its people

Herbicides are increasingly linked to diseases such as parkinson

Current methods are killing topsoil and yields are plummeting

22% of GHG come from Agriculture production



But..

What does someone cost per hour laying on their belly picking out weeds 1 by 1?

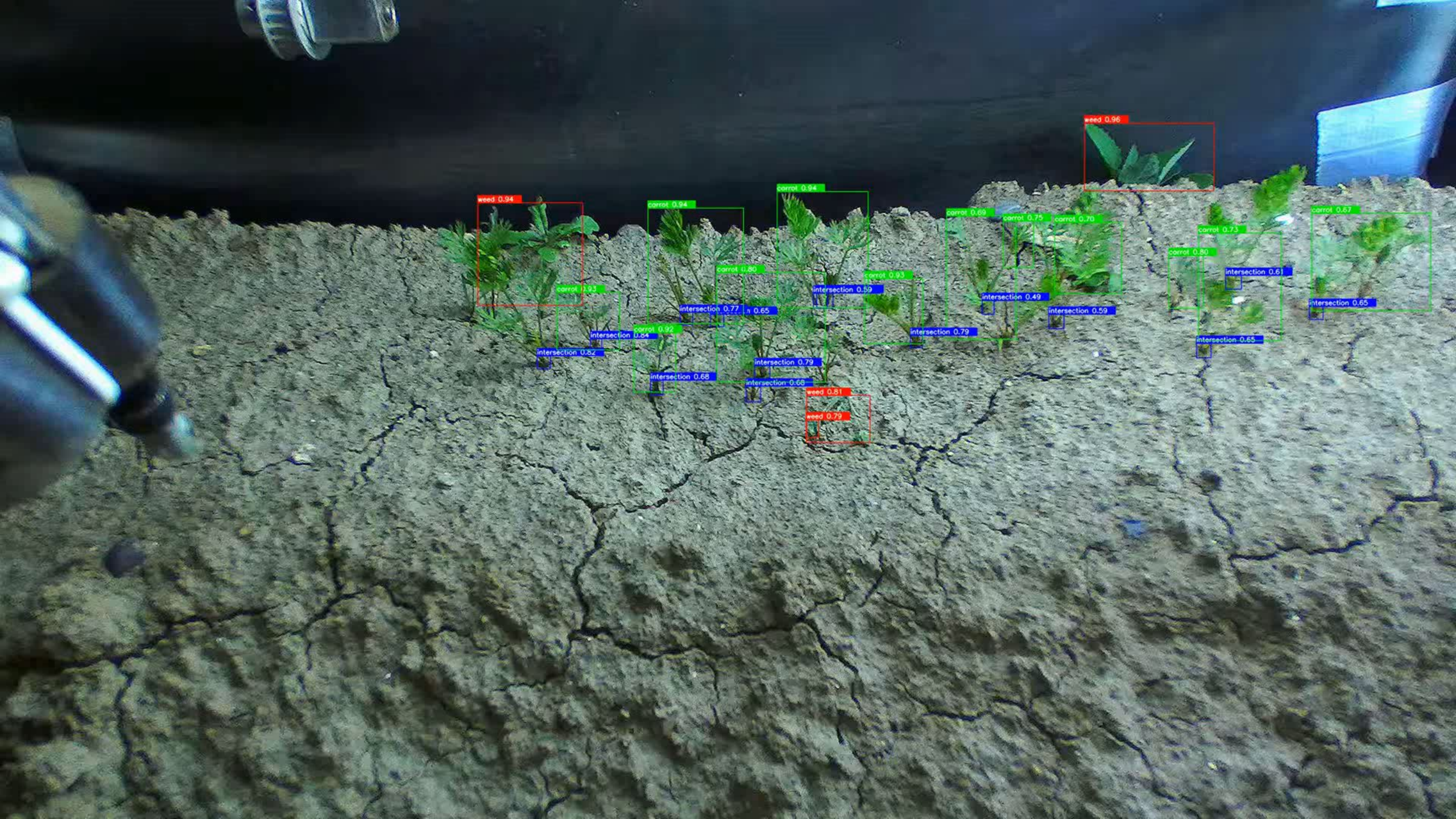
How many hours manual hours per HA for an organic farmer?

How much margin does an organic farmer make in general?

Trabotyx uses computer vision and mechtatronics to identify and take out individual weeds

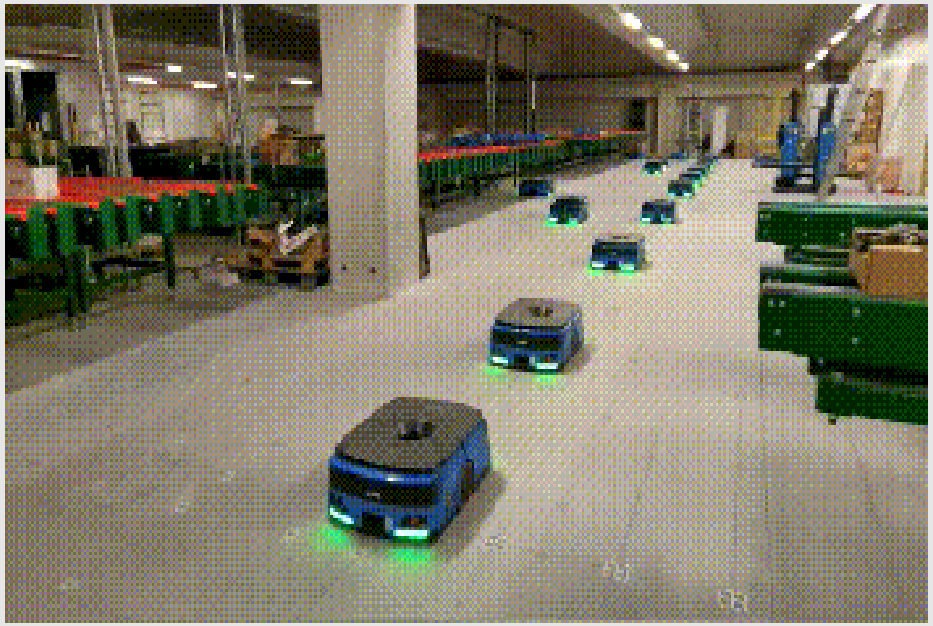
Vision: Detect, classify, position and attack in <100 miliseconds

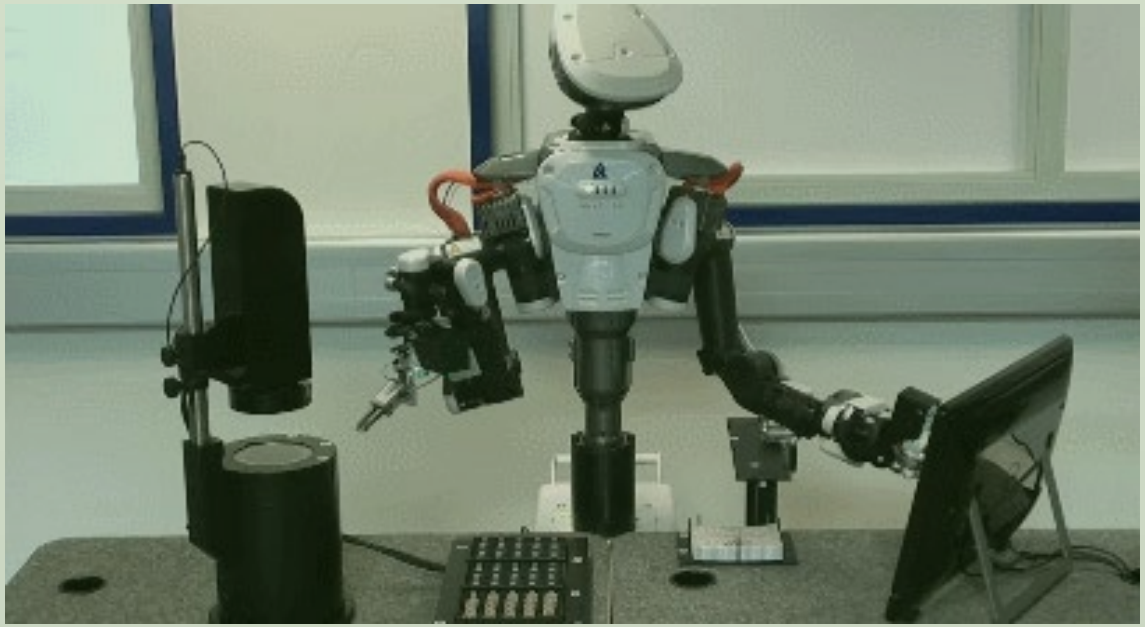
TRAB TYX


weed 0.96
weed 0.94
carrot 0.94
carrot 0.94
carrot 0.69
carrot 0.75
carrot 0.70
carrot 0.73
carrot 0.67
carrot 0.80
carrot 0.80
carrot 0.93
carrot 0.93
intersection 0.59
intersection 0.49
intersection 0.59
intersection 0.61
intersection 0.65
intersection 0.77
intersection 0.79
carrot 0.92
intersection 0.64
intersection 0.65
intersection 0.79
intersection 0.68
intersection 0.68
weed 0.81
weed 0.79

What do robots like

Clean, Repetitive & Standardized



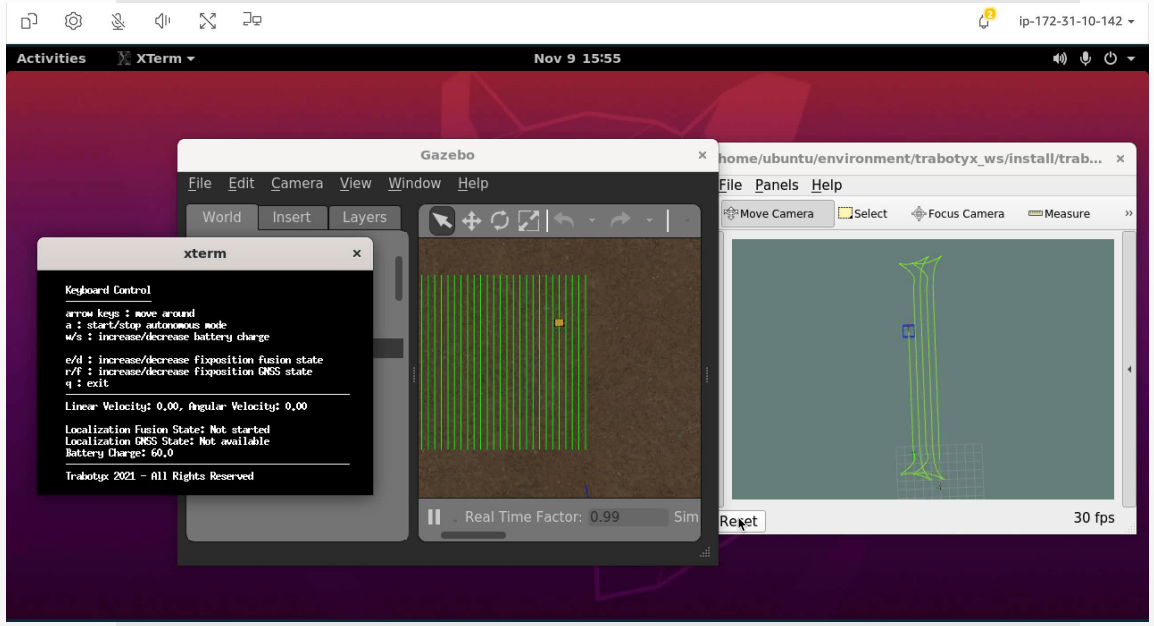


Welcome to a day in the field

Welcome to a day in the field

Agricultural robotics is hard, because off endless edge cases

Simulation :)



Reality :(

Agricultural robotics is hard, because off endless edge cases

TRABTYX

Where to hit?

Which weed to choose

Adding weeding in South of Europe allows for 210 days of utilization per year

Weeding from October till February

Use-case is similar, except ridges are less common

500-600 euro pay-per-HA

How to make the transition to field automation successful

1. Farmers should be able to try robotica with only operational risk, not financial
2. End-user subsidies should be focused on using and not on buying
3. Suppliers should really really really undersell, because farming is about mastering edge cases and that is very difficult

tim