



TERRA\_NOVA HACKATHON 2020







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#### THE PROBLEM



LACK OF APPROPRIATE
MANAGEMENT PRACTICES TO
PREVENT OR CONTROL
BUSHFIRE OCCURANCES









Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss



**SUSTAINABLE DEVELOPMENT GOAL 15** 



#### INDICATORS

15.2

By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally

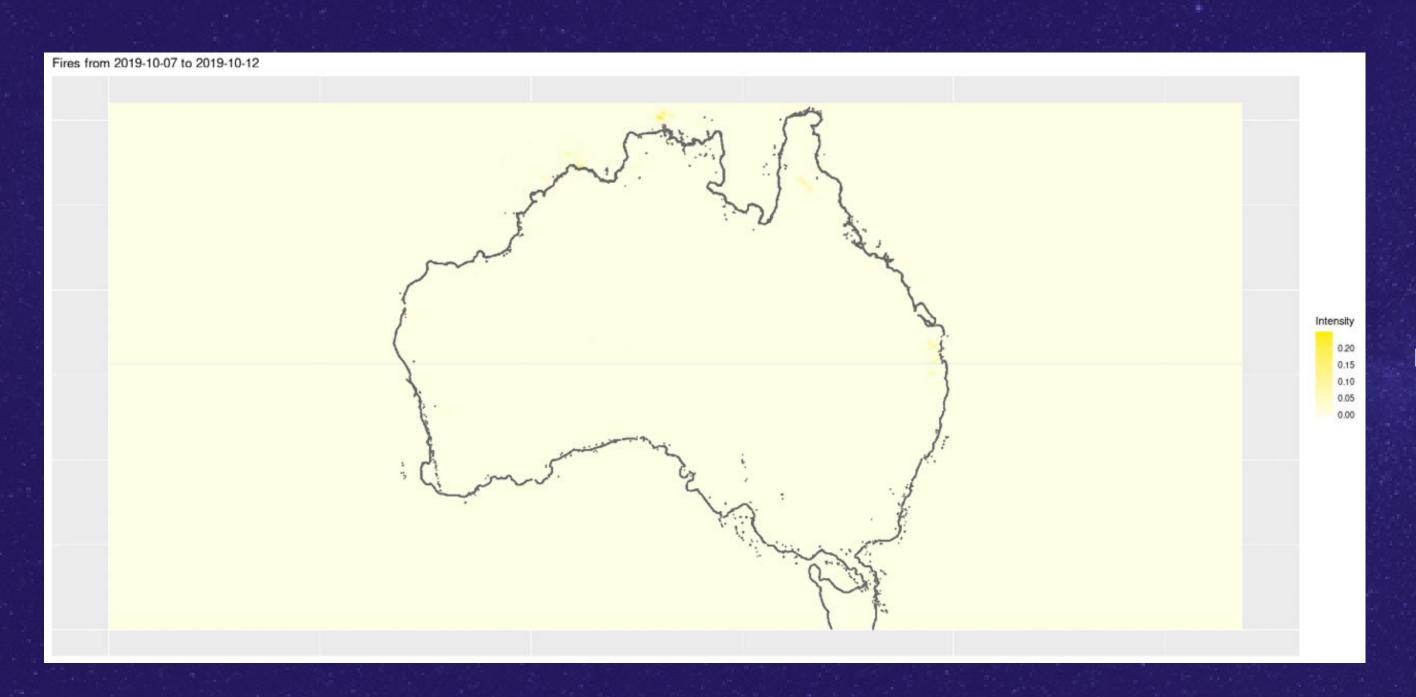
15.3

By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought and floods, and strive to achieve a land degradation-neutral world





## THE SOLUTION



Using concentrations
of CO and HCHO
(formaldehyde) from
Sentinel-5P to
monitor the spread of
wildfires

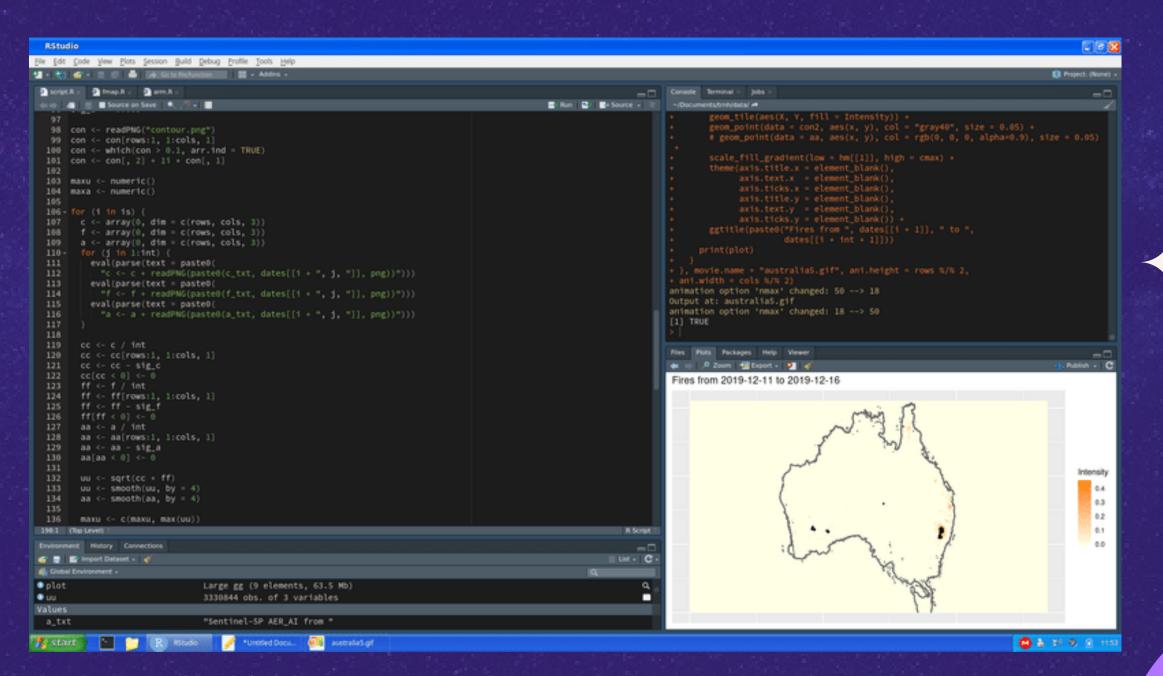


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### IMPLEMENTATION



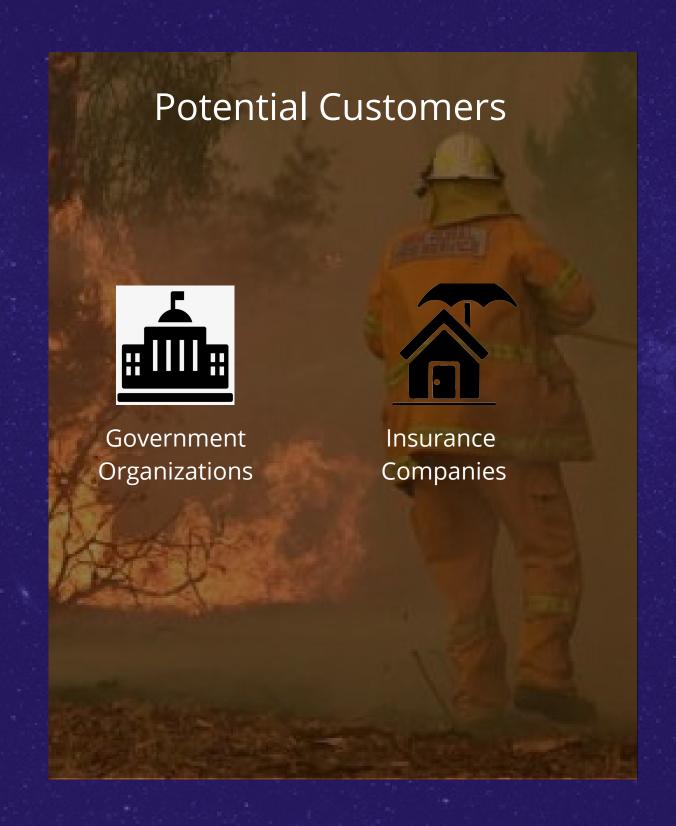
**R Studio** 







#### BUSINESS MODEL





£ 0.1 / acre Annually

### STATUS & TIMELINE



Monitoring and Control Tool



Apply IoT and
Machine
Learning for
early detection

2021

2020



# Thank You and Questions Please

