SPRUCE

Saving the world one tree at a time

10,000,000 hectares of trees being destroyed every year

137 species going extinct per day due to deforestation

Less trees means more carbon, accelerating climate change

The Problem
The destruction of trees and our environment.

Deforestation has overwhelmed many once beautiful areas and national treasures - such as the Amazon Rainforest. This permanently destroys ecosystems, as the soil never regenerates enough nutrients to sustain normal trees. Deforestation also robs the planet of the natural carbon consumption of trees. For every ten years of deforestation, **201 gigatons** of carbon emissions are released into the atmosphere.

Our Solution
Revitalizing the earth and the ecosystems at the same time.

Spruce aims to utilize genetic editing and directed evolution to regenerate ecosystems and forests that have been laid to waste by deforestation. By creating trees that grow quickly in the harsh conditions of deforested soil, we believe we can revive entire habitats and ecosystems to restore the beauty to all that has been seemingly destroyed - all while soaking up the carbon emissions from the atmosphere.

| Our Goal: To Revitalize Forests Around the World

Use AI to recognize genomic sites impacting growth

Edit test-trees in indicated sites

Grow test trees for multiple generations to test edit performance and durability

Repeat proccess until suitable gene line is established

| A Message From Our Team at Spruce:

Our team is looking forward to a future where we can stop destroying our forests and begin to repopulate them. We can't wait to see how these new trees help achieve carbon neutrality, expand animal habitats, and restore the earth's natural beauty.

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