Agriculture is the largest consumer of freshwater: **70% of the blue water withdrawals from watercourses and groundwater are for agriculture usage**, three times more than 50 years ago.

By 2050, the **global water demand of agriculture is estimated to increase by further 19%** mainly due to irrigation needs.

By 2030, **Half of the World population will live in regions with absolute or severe water scarcity**, and two-thirds of the world population could be under strees conditions.
70% of freshwater worldwide

It is used in agriculture for food production.

(three times more than 50 years ago)
Irrigation Water Withdrawal Growth in LAC

By 2050, the global water demand of agriculture is estimated to increase by a further 19% mainly due to irrigation needs.
Increasing drought under global warming

By 2030, Half of the World population will live in regions with absolute or severe water scarcity, and two-thirds of the world population could be under stress conditions.

Source:
Increasing drought under global warming (2013)
Irrigation efficiency in LAC

Water savings potentials of irrigation systems
20 Trillion liters of water wasted every year only in irrigation
Solutions

A data science tool for water management that can measure, reduce and exchange the potable water used in the field on a global scale. Improving environmental responsibility, reducing costs and increasing the sustainability of crop production.

Less Water

Increased Yields

More Sustainability
Disruptive Forces

Remove Sensing Revolution

E-Learning wave
Online training growth

Total “Irrigation Academy” Sign Ups

- 2019 Total
- 2020 Q1
- 2020 Q2: +1700%
- 2020 Q3: +70%
- 2020 Q4: +70% *Est
Online training growth
How it works?

We collect data and consolidate **weather data** from **publicly available weather stations** to calculate hyperlocal evapotranspiration.

Using an array of 5 satellites and machine learning we track **crop coverage** to create a **site-specific crop coefficient** for each field.
There are more than 20,000 weather stations in Latin America.

Most are with free access data.

Source: Participación de América Latina y del Caribe en los registros globales climatológicos, ghcn; Caracas sep. 2006
Smallsats Launched

![Graph showing the number of smallsats launched by reference year and weight category: Pico (< 1 kg), Nano (1 – 10 kg), Micro (11 – 100 kg), Mini (101 – 500 kg).]
High spatial resolution

- Landsat 30x30m
- Sentinel 10x10m
- Planet 3x3m
High resolution
Example
Example

Crop Coefficient

Kc

Date

Example

Water Demand (mm)

<table>
<thead>
<tr>
<th>Plot</th>
<th>ETc (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>485,2</td>
</tr>
<tr>
<td>T5</td>
<td>453,1</td>
</tr>
<tr>
<td>T6</td>
<td>534,9</td>
</tr>
<tr>
<td>T7</td>
<td>536,6</td>
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</tbody>
</table>

Difference: 18%
Case 1

Vinifera Vine - Argentina

<table>
<thead>
<tr>
<th>Plots</th>
<th>Farmer Irrigation</th>
<th>Killimo Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>286</td>
<td>274</td>
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<tr>
<td>2</td>
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<td>189</td>
</tr>
<tr>
<td>3</td>
<td>286</td>
<td>226</td>
</tr>
</tbody>
</table>

Accumulated millimeters

**Overwatering: 28%**
Case 2

Avocados - Mexico

![Bar chart showing comparison between Farmer Irrigation and Kilimo Irrigation over three plots with accumulated millimeters. The chart indicates overwatering at 63%.]

Overwatering: 63%
Case 3

Blueberries - Peru

Overwatering: 219%
Benefits

20% Less water

25% More profit
Team

**Jairo Trad**
Founder and CEO at Klimo. He’s a computer engineer with extensive experience in cloud software development and business development. Second agtech startup.

**Juan Carlos Abdala**
Founder and CTO at Klimo. A Computer engineer who worked in several tech projects in many areas, from hardware to satellites. Second Agtech Startup.

**Rodrigo Tissera**
Head of Business Development & Co-founder en Klimo AgTech is worked in irrigation research with INTA and FAO. Managing the family farm from 2010.

**Tatiana Malvasio**
COO at Klimo. She has a social profile, worked as Executive Director at Food Bank Foundation and Social Inclusion Foundation.

**Micaela Bertino**
Head of Administration

**Matías Varela**
Software Architect

**Matías Barriento**
Engineering Lead

**Andrea Ramos**
Country Manager Chile

**Carla Grosso**
Sales Director Argentina

**Marco Cerino**
Head of Agronomy

**Alexis Heredia**
Sales Associate

**Pablo Alvarado**
Sales Associate

**Pablo Cortés**
Sales Associate

**Víctoria Villagarcía**
Head of Marketing
Some of our users
Milestones

- 7 Countries
- + 60 k Hectáres
- 200 Users
- 89% Retention rate
- 40 Different crops
+19 Billions liters saved in 2019
Our Impact Goal

24K Farmers by 2025

300B Liters of Water Saved by 2025

6 CLEAN WATER AND SANITATION

2 ZERO HUNGER

13 CLIMATE ACTION

KILIMO
¡Thanks!
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www.kilimo.com.ar | @agrokilimo
Thanks!  Gracias!  Obrigado!