

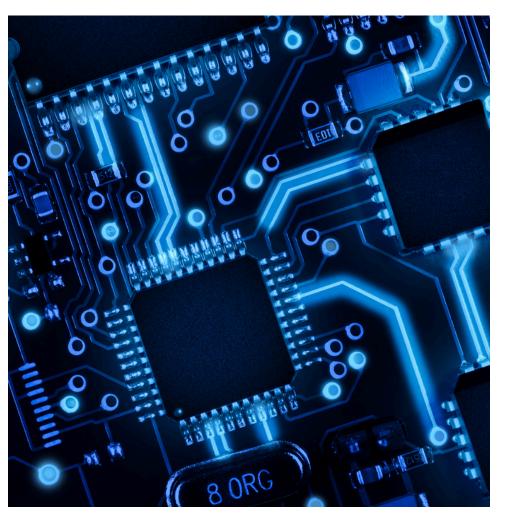
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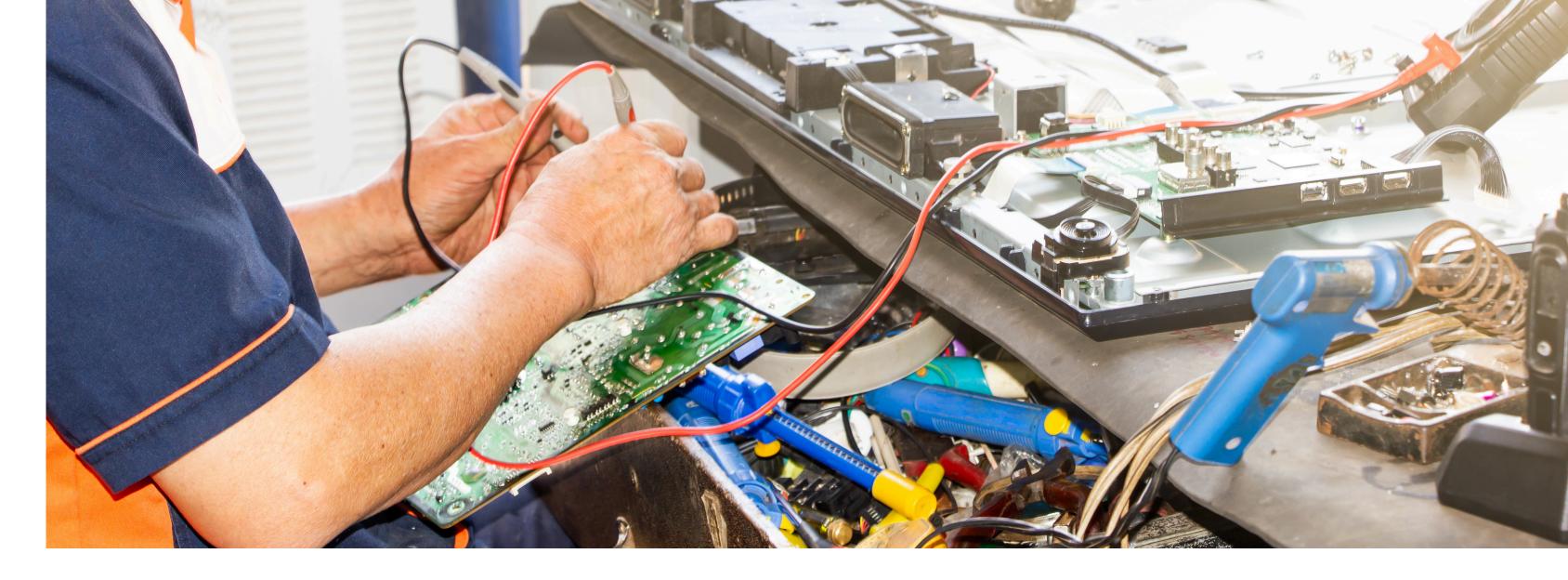


Definition of Agriculture

- Science of growing crops or raising animals.
- Someone who works as a farmer or gardener
- The Latin root of agriculture is
 - o agri, or "field,"
 - o plus cultura, "cultivation."







Definition of Technology

- Application of conceptual knowledge to achieve practical goals.
- Can also mean the products resulting from such efforts
 - Tangible tools such as utensils or machines
 - Intangible ones such as software.







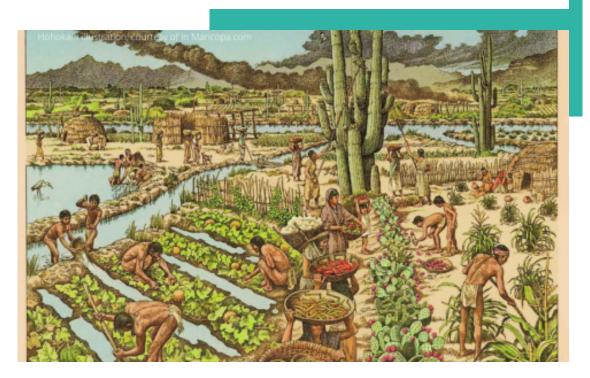
Definition of AgTech

- Agricultural technology, also known as **agritech**, is the use of technology to **improve the efficiency**, **yield**, **and profitability of agriculture**, **horticulture**, **and aquaculture**.
 - products, services, or applications that improve input and output processes.





Approximate time frame of domestication based on archaeology Goat Cow Cat Horse Camel (two-humped) iddle East Middle East Middle East Central Asia Central Asia Central Asia Fig Humped cow Llama Alpaca Chicken America Middle East Asia, America Middle East Asia, America Middle East Asia, America Middle East Middle East Asia, America Middle East Middle East Asia, America Middle East Mid



Historical AgTech

Plow

Agriculture and the plow originated 10–13 millennia ago in the Fertile Crescent of the Near East, mostly along the Tigris, Euphrates, Nile, Indus and Yangtze River valleys, and were introduced into Greece and southeastern Europe 8000 years ago.

<u>Irrigation</u>

The earliest known systems of irrigation originated in Egypt and Mesopotamia in 6,000 B.C. Fighting against the flooding of the Nile several months each year, ancient civilizations pioneered a technique to divert flood waters to nearby crop fields.

Domesticated Animals

Most of the domestic animals familiar to us today were domesticated not long after people began farming and living in permanent settlements, between 8000 and 2500 BC; One of the first animals was sheep in the Middle East.

Domesticated Crops

People first domesticated plants about 10,000 years ago, between the Tigris and Euphrates rivers in Mesopotamia (which includes the modern countries of Iran, Iraq, Turkey, and Syria).



Thought Co.

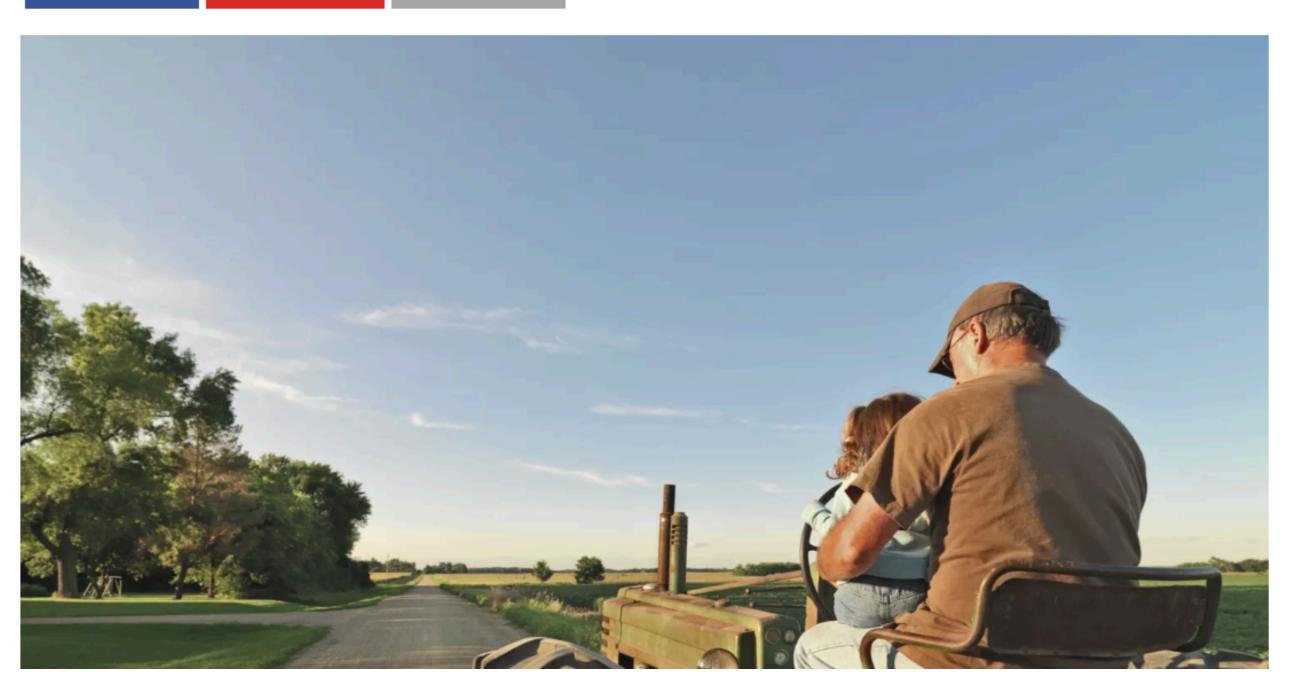
American Farm Machinery and Technology Changes from 1776-1990



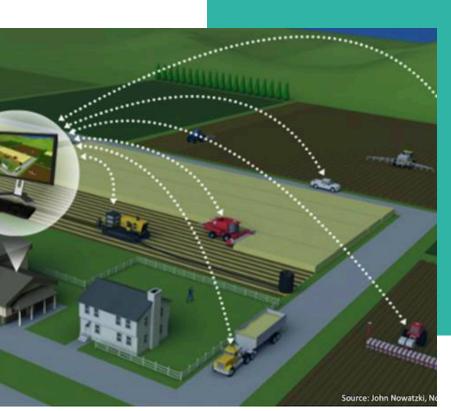








Modern AgTech



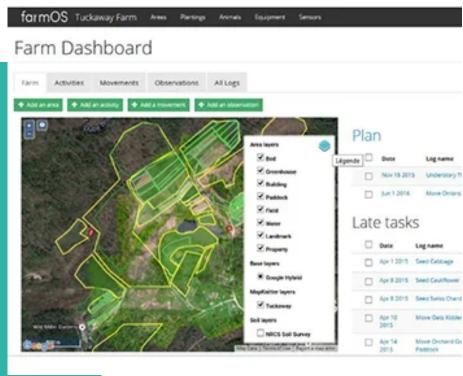
Precision Agriculture



Robotics



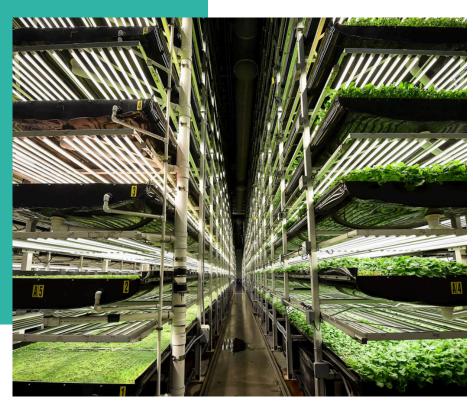
Drones



Software



Irrigation



Vertical Farmiing



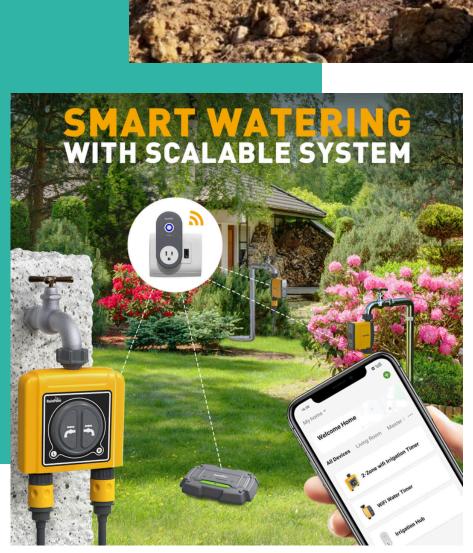
Aquaculture

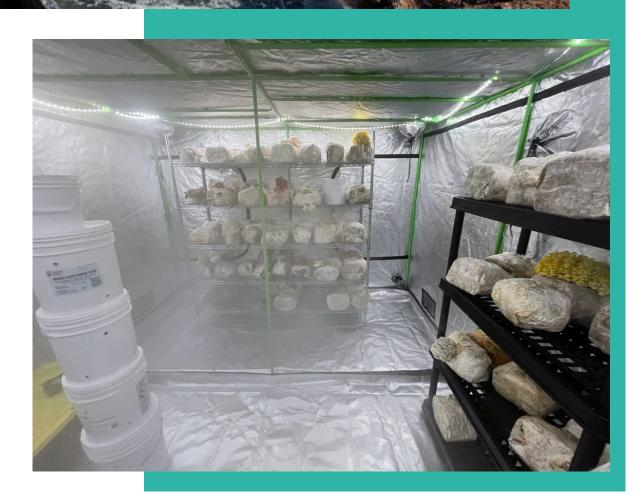


Insect Breeding

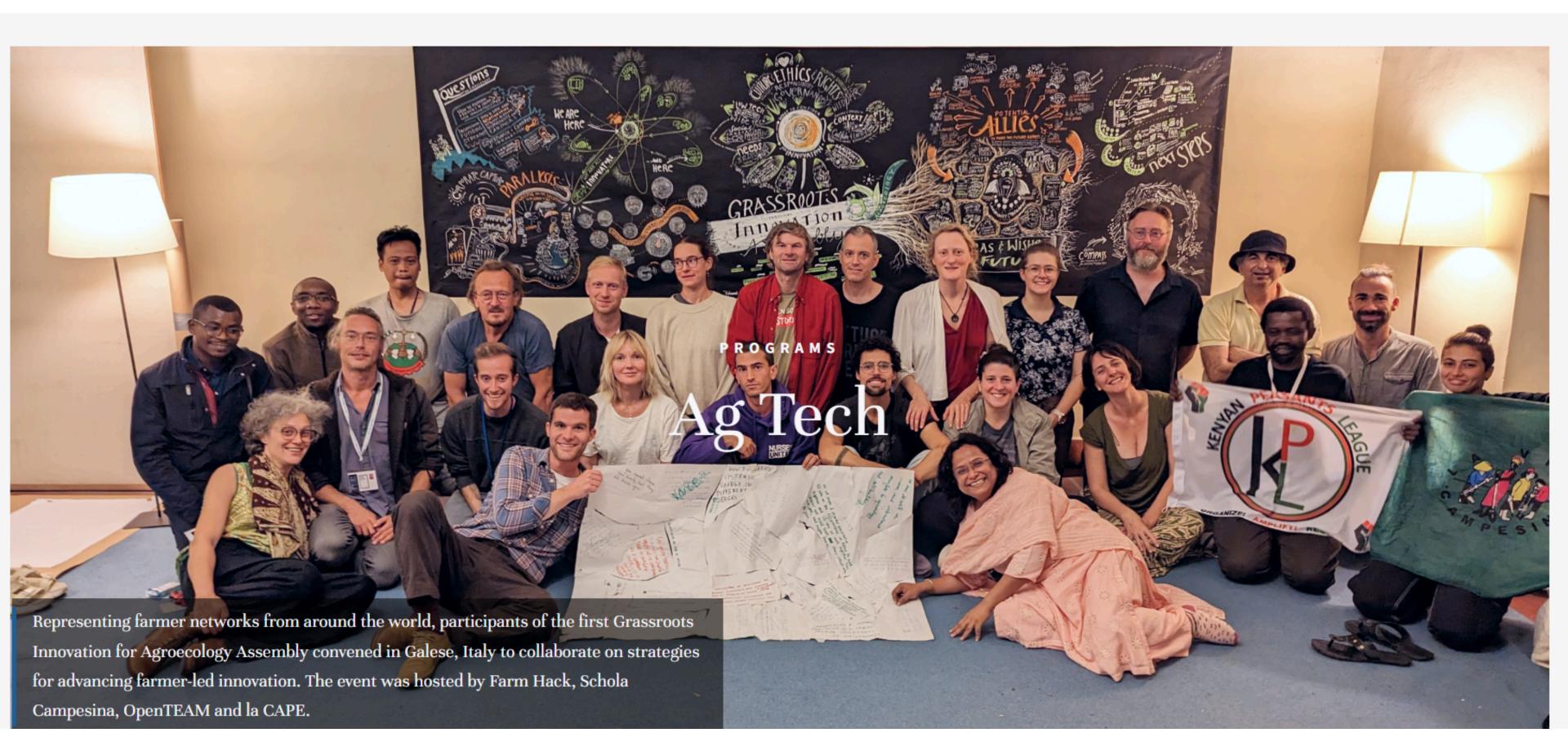
Some Examples of Gardopia AgTech











ABOUT 🗸

Technologies that **shape** and **control** the environment



...and lead to consolidation, centralization and precarity.

Technologies that *reflect*, *adapt*, and *enhance* their environment.





...and support decentralization, the commons, and resilience.



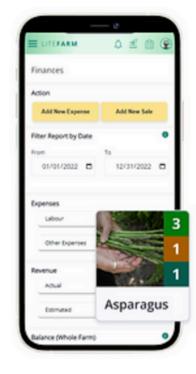














Farm management and crop planning













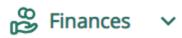
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Gardopia Gardens | Farm map









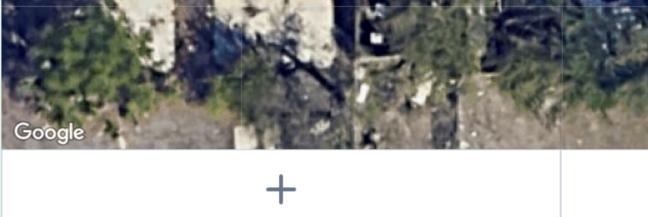


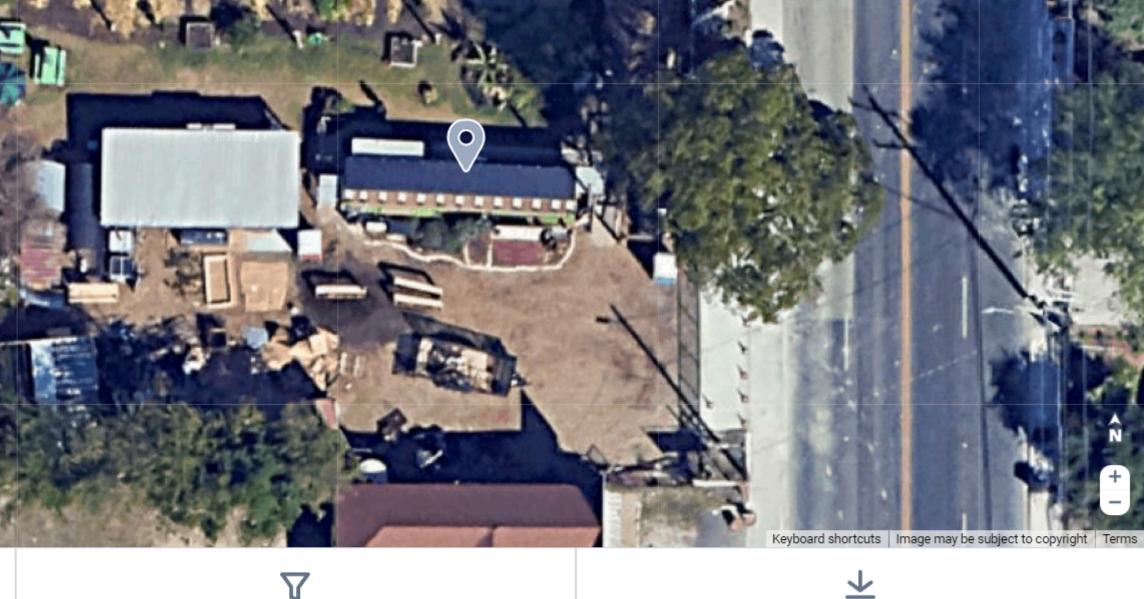














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Collective Impact Model for Community Change

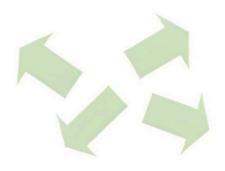
by Michelle Toukan | May 4, 2021 | News, Uncategorized | 0 comments

Buffalo County Collective Impact Model, Definitions and Questions Community Well-Being Reflection Tool for Collaboratives



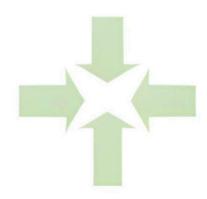
Moving from Isolated Impact to Collective Impact

Isolated Impact



- Great initiatives, projects and pilots that do not coordinate with one another
- Duplication of efforts and inability to compare results and track big picture progress
- Sense of competition and turf battles

Collaboration/ Partnership



- Agreement and excitement around a common "topic"
- Too often, parties involved only include the "usual suspects"
- Meetings and working groups typically lack real alignment or shared measures / accountability

Collective Impact



- All relevant actors work toward the same goal and measure the same things
- Cross-sector alignment, includes "unusual suspects"
- Organizations actively coordinate their action and share lessons learned

Big Green - Operator team assisting with administrative work to move the mission forward.

A 'BACKBONE' COORDINATING ORGANISATION/S



SHARED

Growing food has multiple direct benefits for local and global communities

OPEN AND CONTINUOUS COMMUNICATIONS

COLLECTIVE **IMPACT**

> MUTUALLY REINFORCING **ACTIVITIES 1**

MEASUREMENT FOR DATA Food Production & RESULTS



- Meals Provided
- Greenspace Preserved
- **Jobs Created**

Slack / Discord

Email

Social Media

Meetings

Etc.



