

TIME, LOVE, AND RELATIONSHIP



CLIMATE MITIGATION BROKERAGE

Integrated Systems Designer

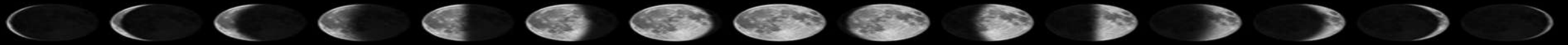
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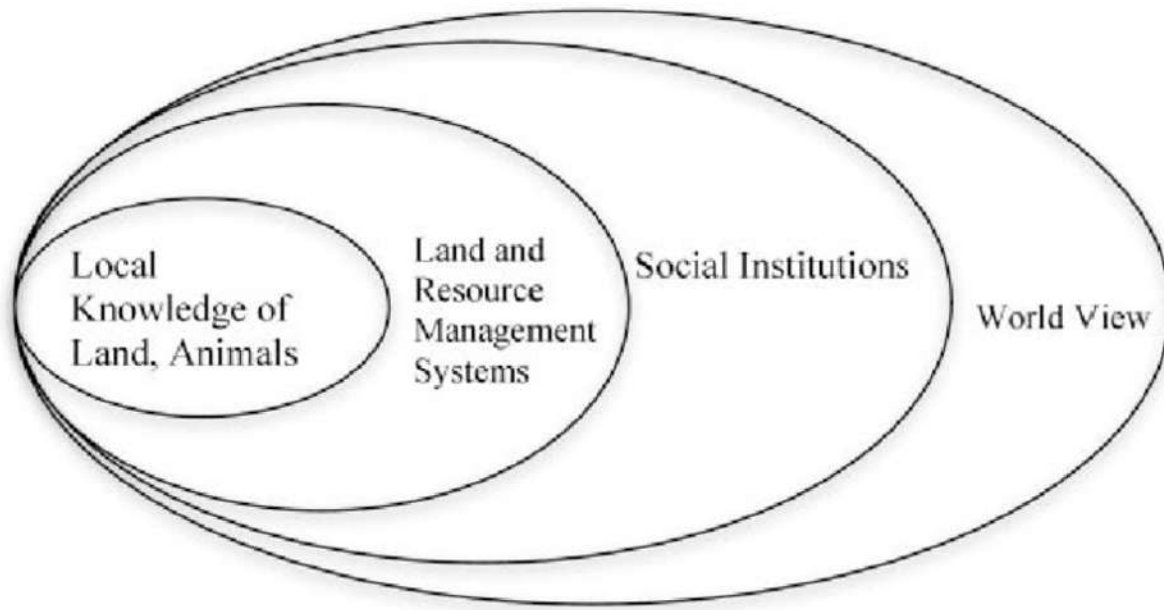




TIME

Defining Traditional Ecological Knowledge

- TEK can be viewed as a knowledge-practice-belief system
- Related terminology – Indigenous Knowledge (IK) and Indigenous Local Knowledge (ILK) – Traditional Ecological Knowledge (TEK) and Local Ecological Knowledge (LEK) = about the environment –

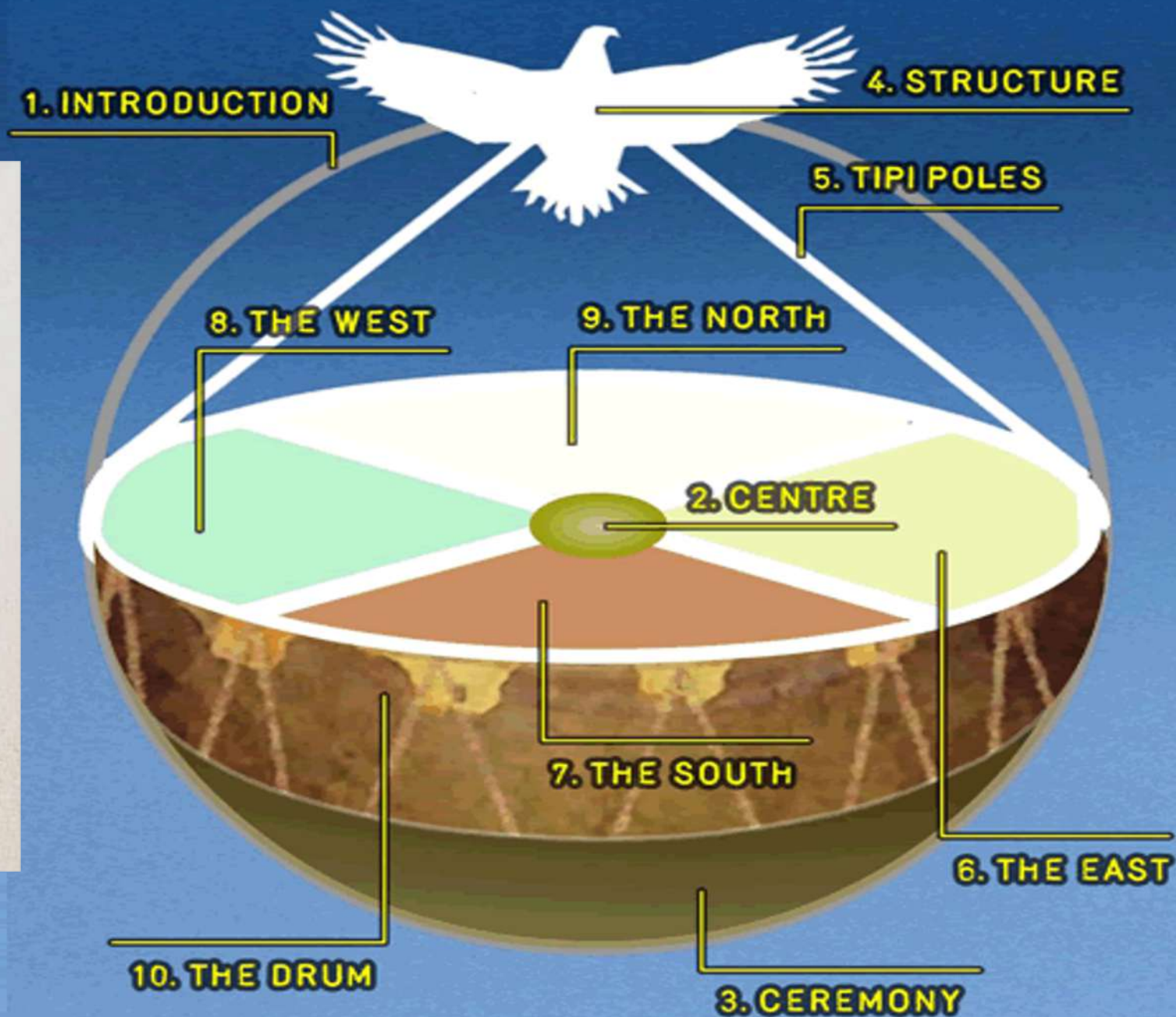


TK as context-specific and rooted in observations performed at distinct spatial/temporal scales Source: Berkes, 1999 D-12 Page 12

Terminology specific to indigenous groups (e.g. Inuit Qaujimajatuqangit or IQ) How TK is acquired is as important and what TK says

TK in environmental governance

- International level – Conventions and agreements
- United Nations Declaration on the Rights of Indigenous Peoples (UNDRIP)
- Convention on Biological Diversity (CBD)
- Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)
- Ramsar Convention on the Conservation of Wetlands
- 1973 Agreement on the Conservation of Polar Bears – Arctic Council
- Kiruna Declaration (2013) and Ottawa TK Principles (2015) Recognize that the use of traditional and local knowledge is essential to a sustainable future in the Arctic, and decide to develop recommendations to integrate traditional and local knowledge in the work of the Arctic Council
- National level D-1



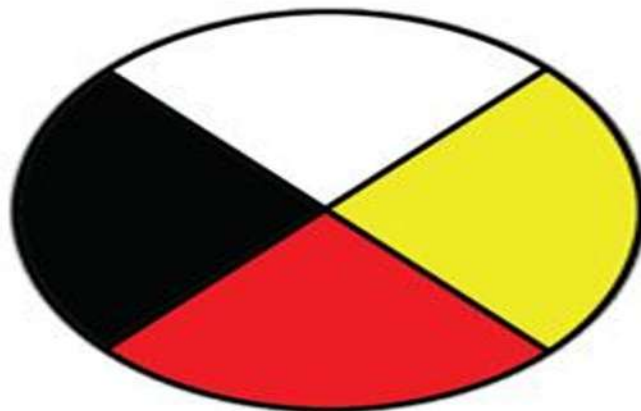
Anishinabeg Medicine Wheel

Keewatinong - Spirit Keeper of the North

Colour: White
Direction: North
Time of Day: Night
Season: Winter
Stage of Life: Elder
Animal: Deer
Plant Medicine: Sweet Grass
Place: Mind

Sha'ngabi'hanong - Spirit Keeper of the West

Colour: Black
Direction: West
Time of Day: Evening
Season: Autumn
Stage of Life: Adult
Animal: Bear
Plant Medicine: Cedar
Place: Physical



Wabanong - Spirit Keeper of the East

Colour: Yellow
Direction: East
Time of Day: Morning
Season: Spring
Stage of Life: Baby
Animal: Eagle
Plant Medicine: Tobacco
Place: Spirit

Shawanong - Spirit Keeper of the South

Colour: Red
Direction: South
Time of Day: Afternoon
Season: Summer
Stage of Life: Youth
Animal: Coyote
Plant Medicine: Sage
Place: Emotion

THE VISION



TENANTS

Of the Lakota Medicine
Wheel: Food, Fire, Water,
Shelter, Earth, Spirit, Self.



GENERATIONS

Our choices today will shape
the world for our children
tomorrow.



300

YEARS

Our vision is a world where all
people are leading a regenerative
lifestyle based on these seven
tenants













LOVE



Amazon Urban Planning

Some experts once believed that the people native to the Amazon jungle did little more than survive the Stone Age—the period in human history when people used stone, rather than metal, tools. Recent discoveries by archaeologists—scientists who study the remains of past human cultures—demonstrate that the Amazon peoples created advanced social structures. This is apparent in their organization of the Upper Xingu territory.

Circular Cities

The first people to live in Mato Grosso came from the west about 1,500 years ago. Before the arrival of Europeans, these Amazon settlers had already lived in a complex urban (city) system of interconnected centers. They built remarkable circular cities protected by high palisades (fences of stakes set firmly in the ground) made of logs. These centers may well be the “walled cities” that Francisco de Orellana wrote about in 1542.

Types

In the area studied, three types of centers were found: cities and ceremonial centers; towns or villages; and centers without any buildings.

Orientation

The centers are connected by a series of paths. The main paths run east-west, with secondary paths going north-south.

Avenues

The main “avenues” that are preserved are about 65 feet (20 meters) wide, but some may have reached widths of 130 feet (40 meters).

SOUTH AMERICA



Extension

Today, the remains of about 20 population centers have been found which, if they were put together, would occupy an area of about 11,787 square miles (30,528 square kilometers) and would house about 50,000 people.

An anthropologist (scientist who studies humans and their cultures) named Michael Heckenberger was the first to number the deposits found in the Upper Xingu. X11, for example, corresponds to Kuhikugu, the best preserved site.

Kuhikugu, the best preserved

Of all the cities, Kuhikugu has provided the most details about the way of life of the ancestors of the tribes that now inhabit the Mato Grosso. It reveals that the largest expansion of the native population of Upper Xingu took place between A.D. 1200 and A.D. 1400.

The Kuikuro

Experts believe that the Kuikuro, one of the tribes of Mato Grosso, are descendants of the Caribs—a warlike group of South American tribes—and once occupied Kuhikugu.

Palisade

Fertile soils

The garden and grounds show that these tribes were able to make the Amazon soil more fertile and productive.

Chief's house

Central Square

Homes

Avenues

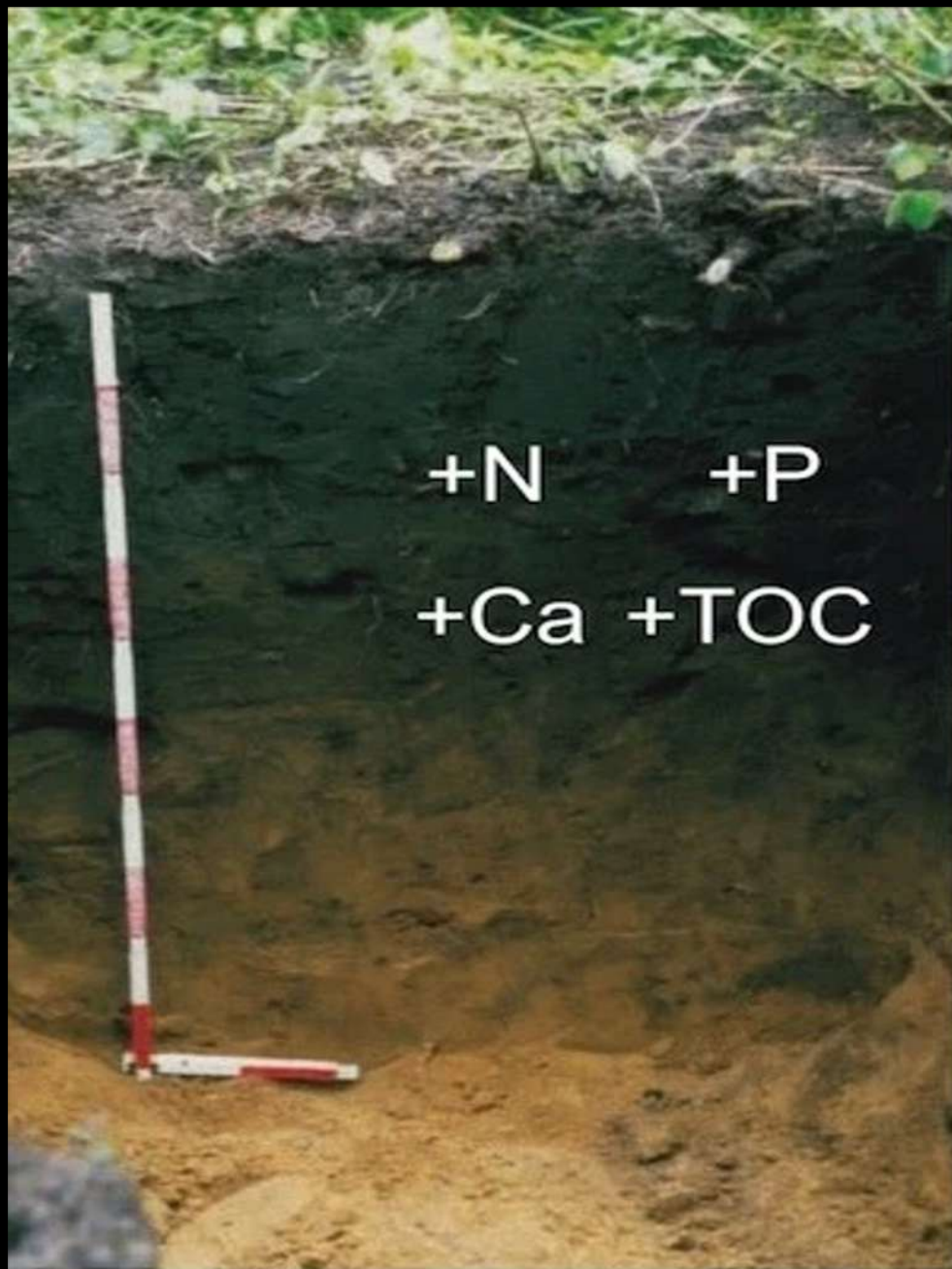
Orchard

Powerful families

The most influential families of the tribe were distributed to the northeast and southwest of the city, with the chief always in the center. Their houses were larger than any others.

Protection

The presence of fences is still unexplained. From what did these fences protect the people? If it was from rival tribes, why leave the side open to the lagoon without protection, as in Kuhikugu?



+N +P
+Ca +TOC

Terra preta



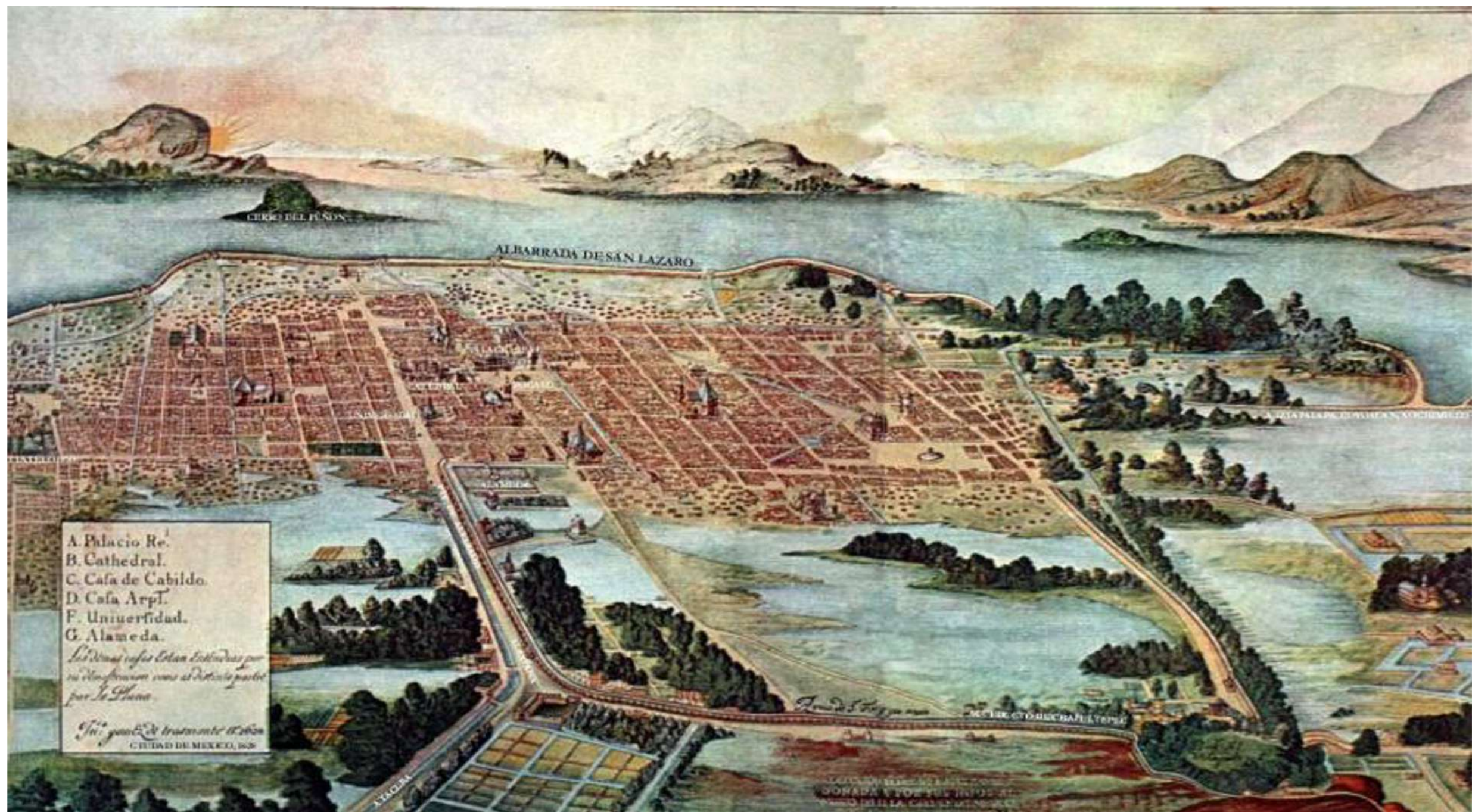
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Clay-rich oxisol



Ceremony





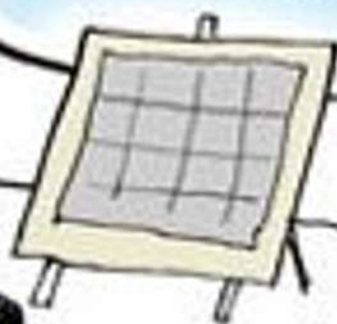
A. Palacio Re.
B. Cathedral.
C. Casa de Cabildo.
D. Casa Arpt.
F. Universidad.
G. Alameda.
*Las Casas reales estan edificadas por
su Magestad como al presente estan
por la Real.*
*Sei: para el tratamiento de la
CUIDAD DE MEXICO, 1626*



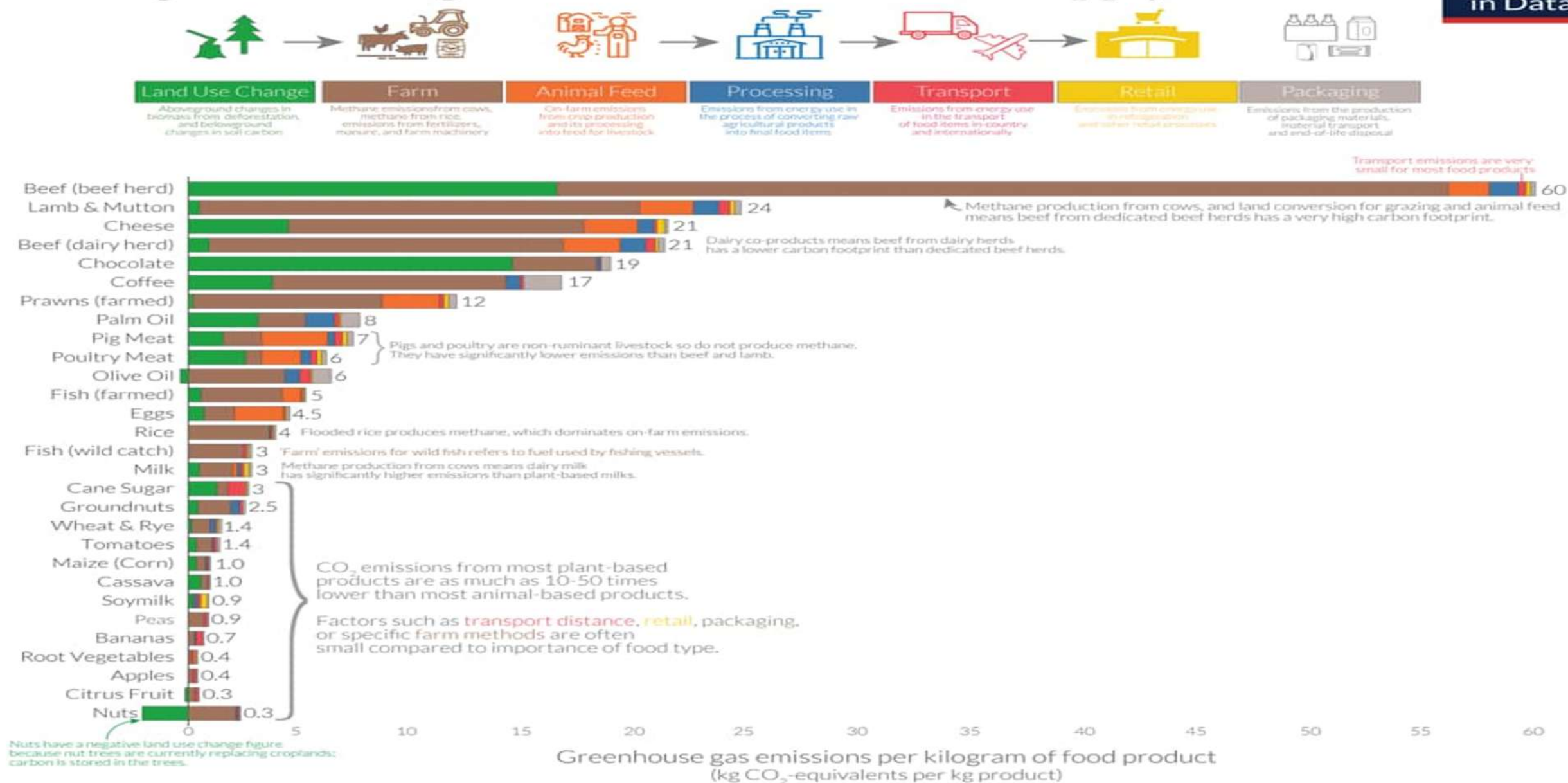
CLIMATE SUMMIT

WHAT IF IT'S
A BIG HOAX AND
WE CREATE A BETTER
WORLD FOR NOTHING?

- ENERGY INDEPENDENCE
- PRESERVE RAINFORESTS
- SUSTAINABILITY
- GREEN JOBS
- LIVABLE CITIES
- RENEWABLES
- CLEAN WATER, AIR
- HEALTHY CHILDREN
- ETC. ETC.



Food: greenhouse gas emissions across the supply chain



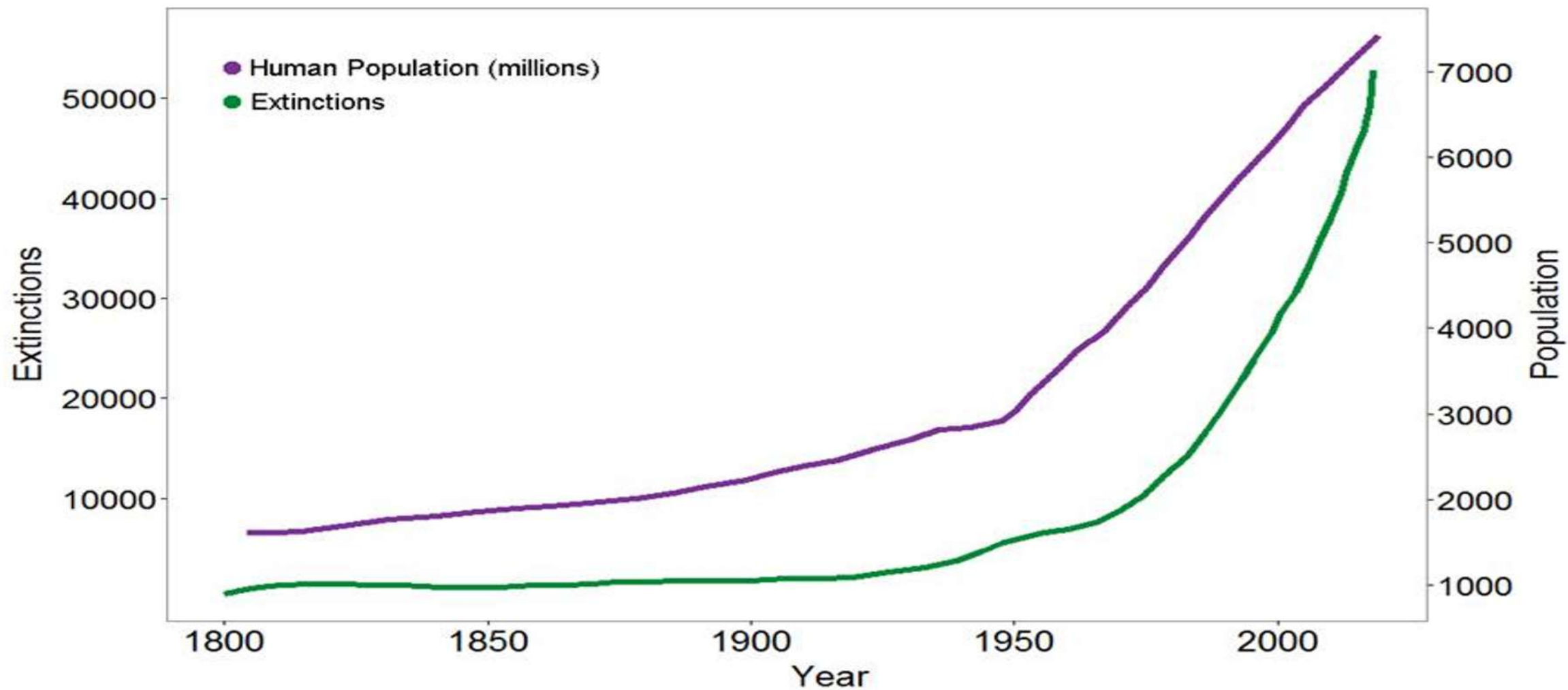
Note: Greenhouse gas emissions are given as global average values based on data across 38,700 commercially viable farms in 119 countries.

Data source: Poore and Nemecek (2018). Reducing food's environmental impacts through producers and consumers. *Science*. Images sourced from the Noun Project.

OurWorldinData.org – Research and data to make progress against the world's largest problems.

Licensed under CC-BY by the author Hannah Ritchie.

Humans & The Extinction Crisis



Data source: Scott, J.M. 2008. *Threats to Biological Diversity: Global, Continental, Local*. U.S. Geological Survey, Idaho Cooperative Fish and Wildlife, Research Unit, University Of Idaho.



A satellite image of Earth from space, showing the Americas and surrounding oceans. The text "ME" is overlaid in large, bold, white letters with a black outline.

ME

TOO

WHY NOW?

A graphic for the Paris Climate Agreement. It features a large green leaf in the center, flanked by two white laurel branches. The background is a blue sky with white clouds and a green field at the bottom. The text "PARIS CLIMATE AGREEMENT" is written in large, white, serif capital letters, with "PARIS CLIMATE" on the top line and "AGREEMENT" on the bottom line, separated by a thin white horizontal line.

PARIS CLIMATE AGREEMENT

UNITED NATIONS 2030 AGENDA



What is Permaculture?

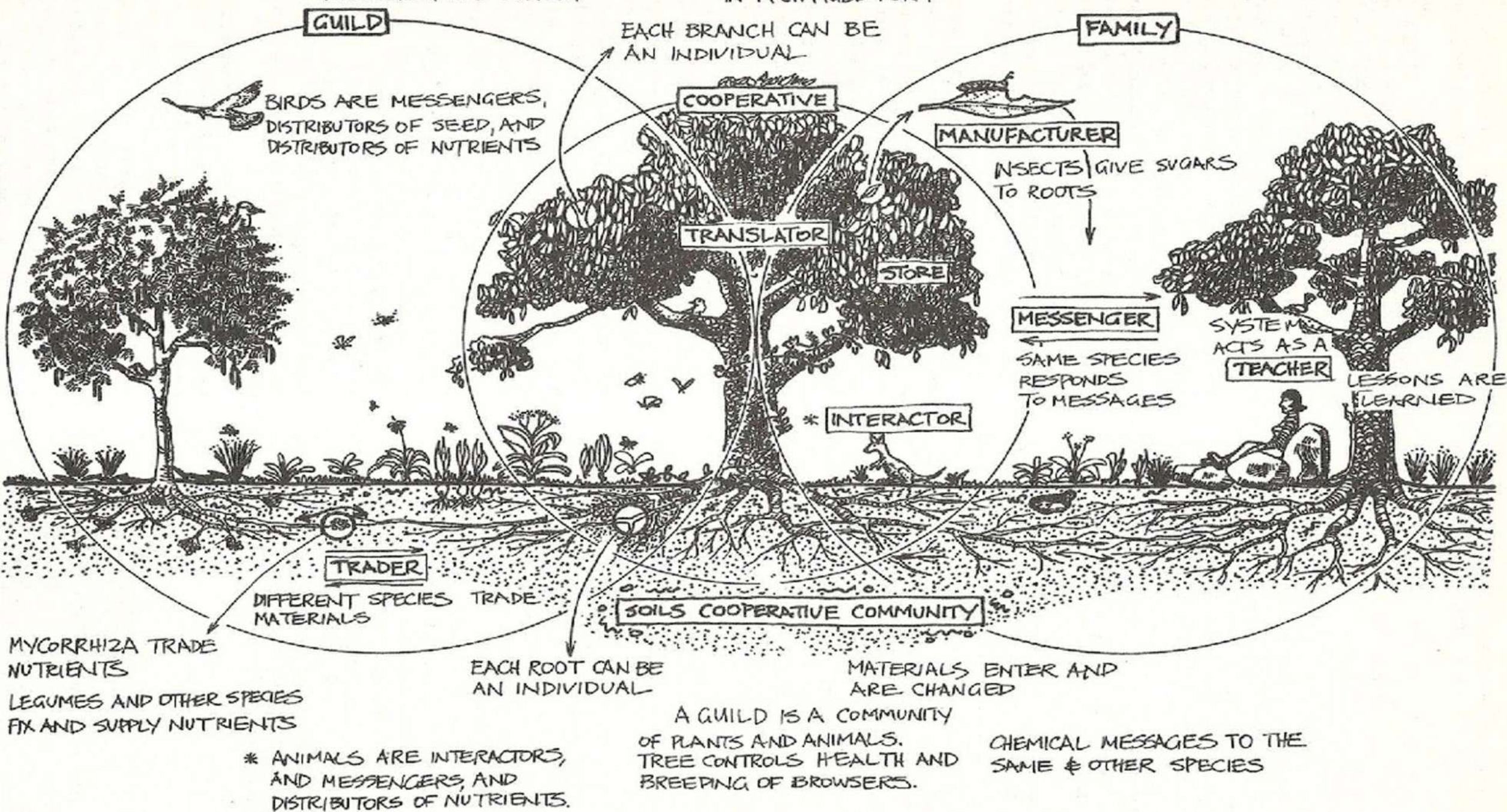


ENERGY & GASSES ENTER
AND ARE CHANGED.

THE GUILD SUPPLIES COMPLEX
PROTECTION AND SUPPORT

MATERIALS LEAVE
IN A CHANGED FORM

ENERGY & GASSES LEAVE
IN A CHANGED FORM



ce



THE SOIL FOODWEB

Our soil teams with a multitude of organisms which provide the necessary work for healthy plants to grow free from disease, pests, and infertility. These interconnected interactions and feeding relationships (quite literally “who eats who”) help determine the types of nutrients present in soil, its depth, and pH, and even the types of plants which can grow.

2. Catch & Store Energy



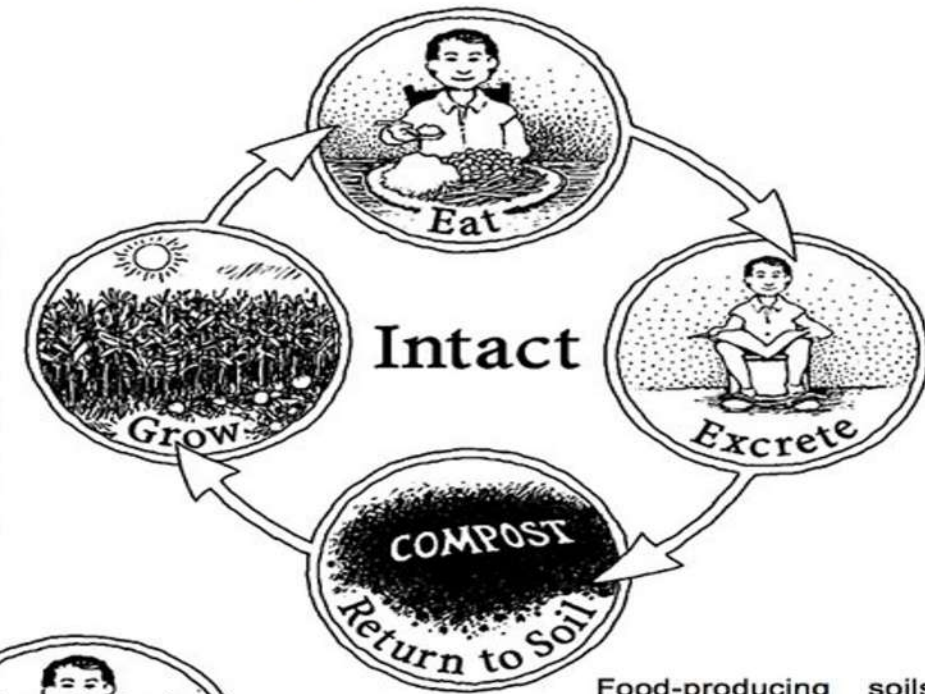


6. Produce no Waste

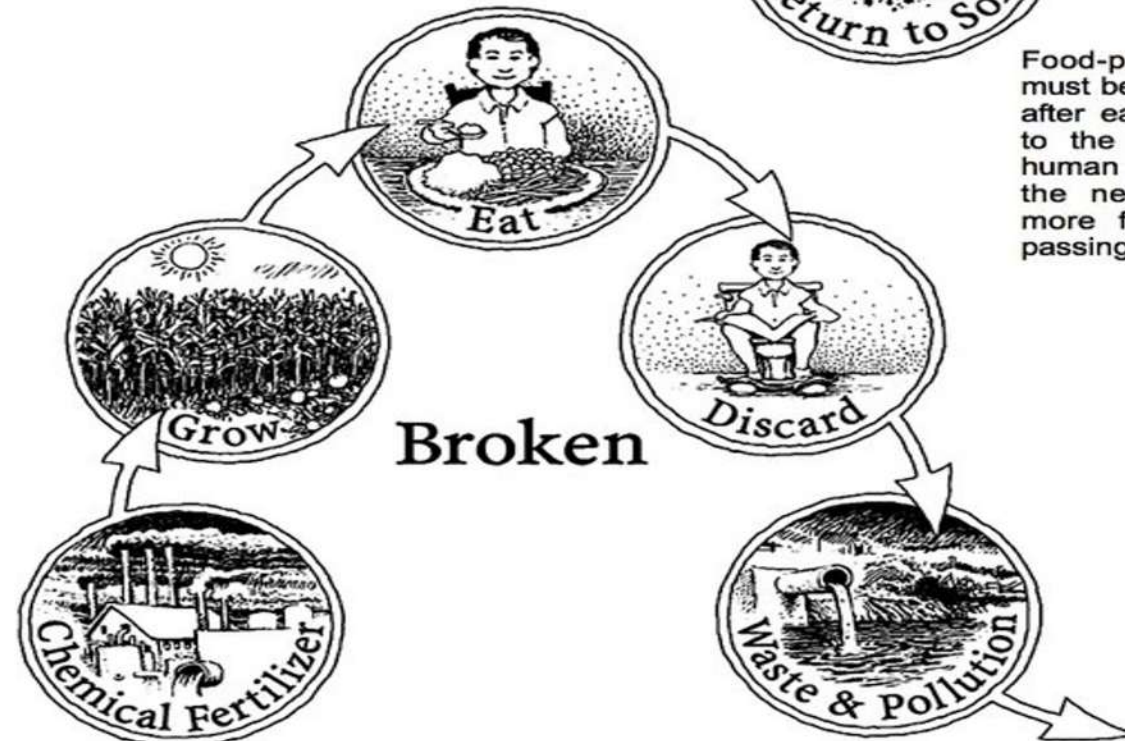


THE HUMAN NUTRIENT CYCLE *INTACT* and *BROKEN*

The Human Nutrient Cycle is an endless natural cycle. In order to keep the cycle intact, food for humans must be grown on soil that is enriched by the continuous addition of organic materials recycled by humans, such as humanure, food scraps, and agricultural residues. By respecting this cycle of nature, humans can maintain the fertility of their agricultural soils indefinitely, instead of depleting them of nutrients, as is common today.



Food-producing soils must be left more fertile after each harvest due to the ever-increasing human population and the need to produce more food with each passing year.





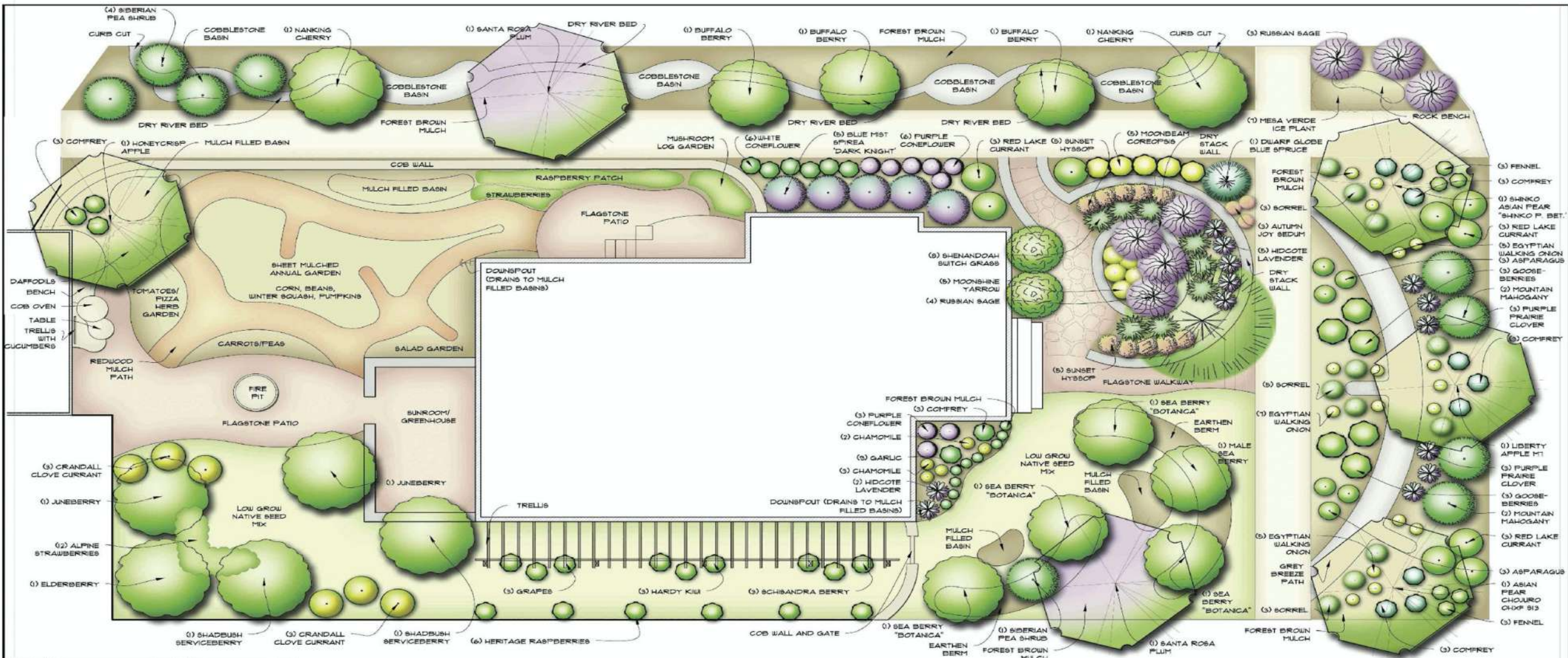
ESPALIER FENCE



BOHN FARM - ILLUSTRATIVE PLAN
SCALE 1:30



- LEGEND**
- 1 BARN YARD
 - 2 CHICKEN COOP
 - 3 COMPOST AREA
 - 4 HARVEST TABLE UNDER PERGOLA
 - 5 WATER QUALITY DETENTION
 - 6 REGIONAL TRAIL CONNECTOR
 - 7 PRIVATE PATIO - TYPICAL
 - 8 FARM ACCESS ROAD
 - 9 BARN BENEATH ROAD
 - 10 GREENHOUSE
 - 11 EXISTING WILLOW TREE
 - 12 MAIN FARM
 - 13 DISPERSAL FARM
 - 14 BIOSWALE FARMING
 - 15 ORCHARD TREES
 - 16 FARM PERGOLA - SHADY REST SPOT
 - 17 SHORT GRASS MEADOW - LOW WATER USE
 - 18 KITCHEN GARDEN
 - 19 MULTIHUSE COURT - PERMEABLE PAVERS
FIRE TRUCK TURN AROUND
 - 20 TRELLIS STRUCTURE W/ GRAPES
ENTRY PATH BENEATH
 - 21 SERVICE & PARKING ENTRANCE
 - 22 MAIN ENTRY PASSAGEWAY
 - 23 ON STRUCTURE GARDEN PLOTS
 - 24 CHUSHER FINES WORK SPACE /
SEATING UNDER TREES
 - 25 ACCESS TO PARK
 - 26 PARKING
 - 27 PARKING SPOT IN FRONT OF GARAGE,
TYPICAL
 - 28 INTERNAL PATH SYSTEM
 - 29 SPRUCE STREET WALKWAY
 - 30 MAIN ENTRY FROM SPRUCE
 - 31 UPPER COMMONS TERRACE
 - 32 PARK
 - 33 BOHN FARM LANE



Botanical Name	Common Name
Trees	
Amelanchier alnifolia	Serviceberry
Amelanchier canadensis	Junberry
Malus domestica M7	Liberty Apple
Malus domestica M7	Honeycrisp Apple
Prunus sibirica	Santa Rosa Plum
Prunus pyrifolia "Chajuro OXFP 513"	Asian Pear
Prunus pyrifolia "Shinko P. Bet."	Asian Pear
Cercocarpus montanus	Mountain Mahogany
Shrubs	
Prunus tomentosa	Nanking Cherry
Canagone abnormis	Siberian Pea Shrub
Sambucus nigra	Elder Tree
Fragaria x ananassa	Alpine Strawberry
Vitis x "St. Theresa Seedless"	St. Theresa Seedless Grape

Prunella vulgaris "Glabosa"	Globe Blue Spruce
Prunella vulgaris "B.H. Montgomery"	Montgomery Dwarf Blue Spruce
Ribes odoratum "Crandall"	Crandall Clove Currant
Ribes rubrum "Red Lake"	Red Lake Currant
Ribes uva-ursi	Gooseberry
Shepherdia argentea	Buffalo Berry
Shepherdia chinensis	Apricot Bush
Hippophae rhamnoides "botanica"	Sea Berry
Hippophae rhamnoides	Male Sea Berry
Perennials	
Agastache rupestris	Sunset Hyssop
Alchemilla sibirica	Flowering Chives
Asparagus	Asparagus
Comfrey officinalis	Comfrey
Echinacea purpurea	Purple Coneflower

Lavandula angustifolia "Hidcote"	Hidcote Lavender
Oxalis	Garden Sorrel
Perovskia atriplicifolia	Russian Sage
Rubus	Raspberry
Allium sativum	Garlic
Delphinium ssp.	Ice Plant
Actinidia arguta	Hardy Kiwi
Nardissus	Daffodil
Allium proterum	Egyptian Walking Onion
Grasses	
Panicum virgatum shenandoah	Shenandoah Grass
Annals	
Chamomile nobile	Chamomile

SCALE: 1/4" = 1'-0"
DATE: 6/30/2014
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1393 HUDSON ST. DENVER, CO 80220



BACKYARD REVOLUTIONS
DESIGN. BUILD. EDUCATE. ADVOCATE.

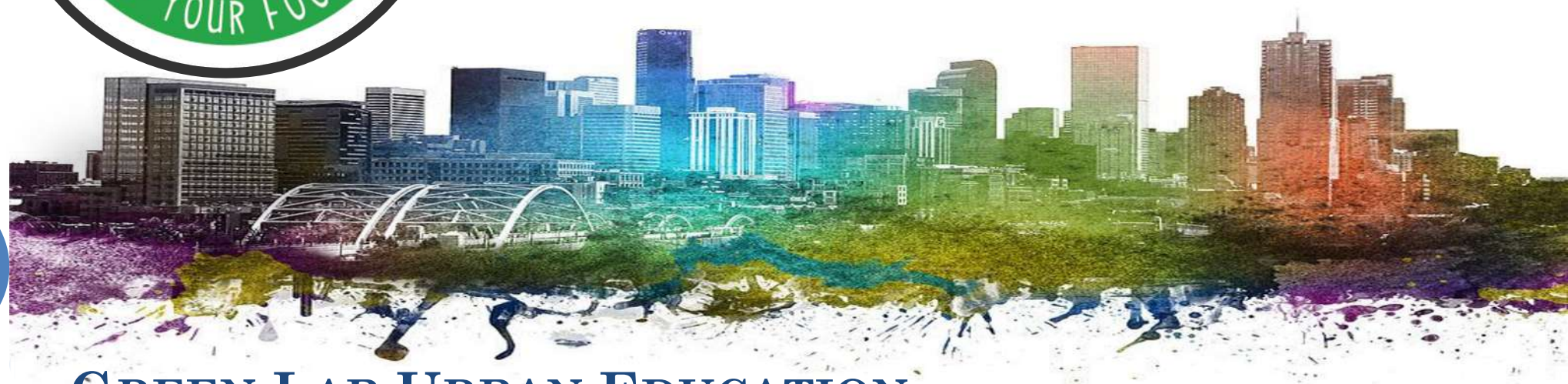




What does it mean to be sustainable?

The term “sustainable” or “sustainability” has come to mean a number of things including:

- Renewing resources at a rate equal to or greater than the rate at which they are consumed.
- Living within the resources that are available without damaging the environment.
- A community that resembles a living system where all resources are renewed and in balance always.
- An economic system that provides a high quality of life while renewing the environment and its resources.



GREEN LAB URBAN EDUCATION SUMMER 2018 BETA PROJECT PROPOSAL

Michael J. Alcazar
Founder

OUR MISSION BASICALLY IS TO TEACH URBAN KIDS HOW TO POSITIVELY IMPACT THEIR COMMUNITIES THROUGH THE PRACTICE OF SUSTAINABLE LIVING SKILLS



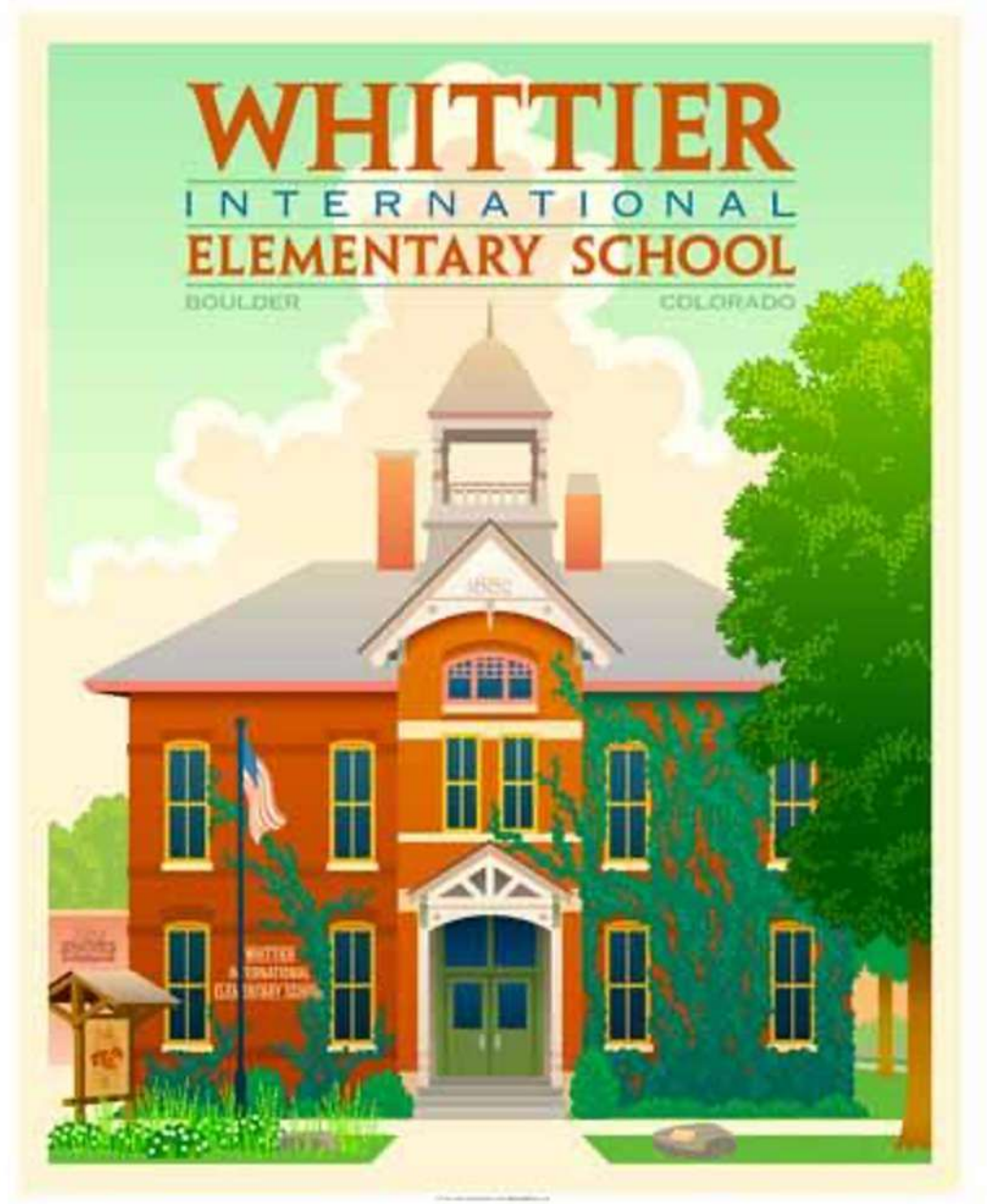
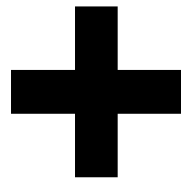
Inspiring Youth through learning



The
City Repair



Project



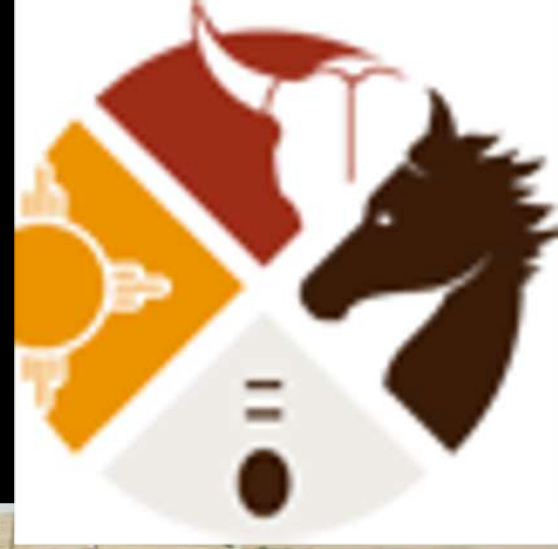




https://www.boredpanda.com/brazilian-couple-recreated-forest-sebastiao-leila-salgado-reforestation/?fbclid=IwAR1YG-8E-UipaBvzbGp9p6gmkuEHcpHVLjlyhARQ4Px2Y0hzzeOTYpkfEo&utm_source=facebook&utm_medium=social&utm_campaign=organic



Indigenous Wisdom and Permaculture skills convergence



PIKES PEAK PERMACULTURE PRESENTS:

Through The Seasons

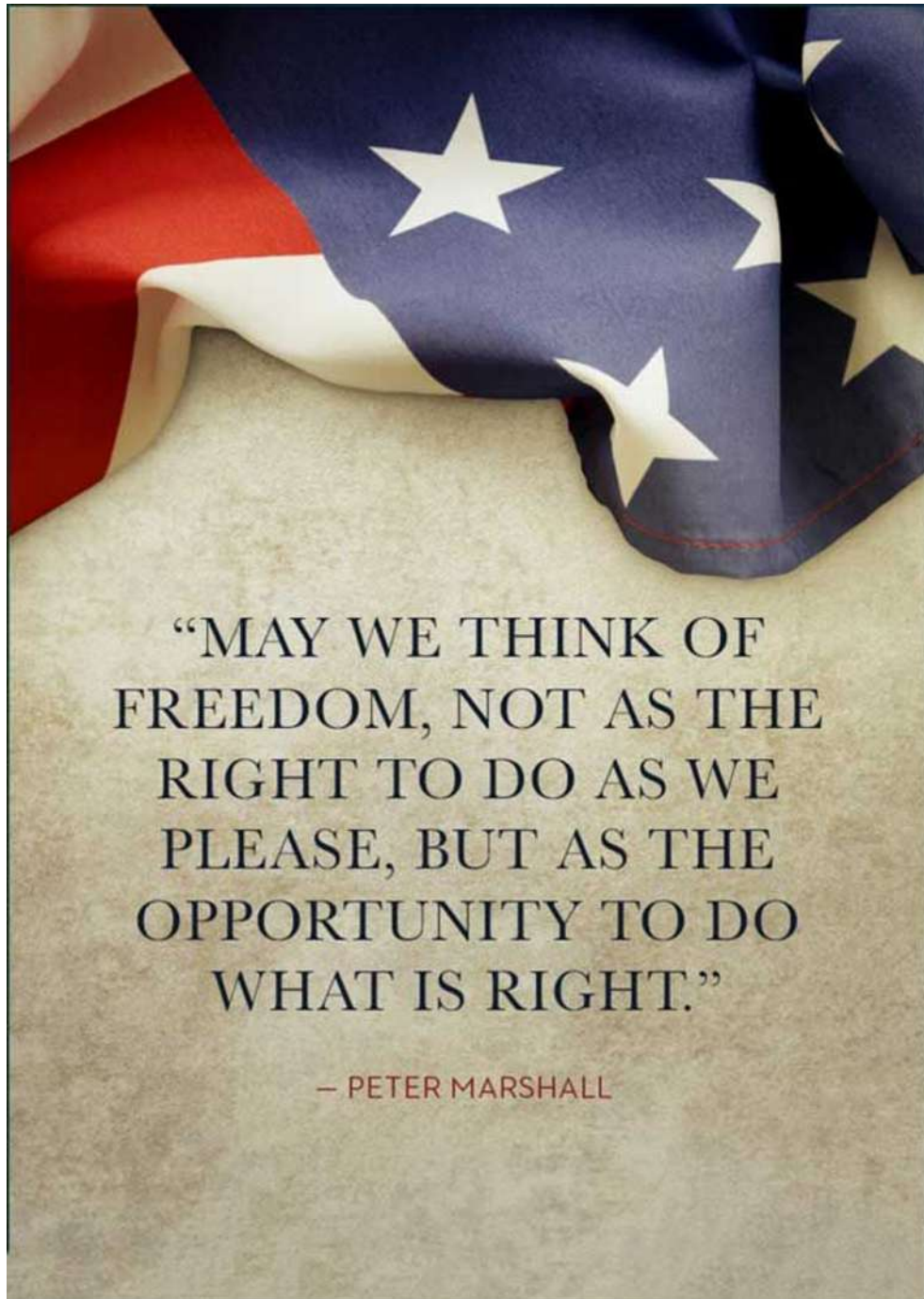
PERMACULTURE DESIGN

CERTIFICATE COURSE 2020

One Million Trees 4 Colorado



SEPTEMBER 21, 2020 4 PM



“MAY WE THINK OF
FREEDOM, NOT AS THE
RIGHT TO DO AS WE
PLEASE, BUT AS THE
OPPORTUNITY TO DO
WHAT IS RIGHT.”

— PETER MARSHALL

THANK YOU



CLIMATE MITIGATION BROKERAGE

Integrated Systems Designer

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