



A Regenerative Path

Climate Positive Solutions with Permaculture

Facilitated By: Graham Calder
Design, Share and grow your life into abundance

Map

Satellite

WHOSE LAND



"P3 Permaculture is situated on traditional Anishinaabe and Haudenosaunee Territory."



Road Trip Anyone?

Euhm...ok? I want to get out.

Oh! ... Should we maybe... return the car then?

“Before we drive away, I want to acknowledge that this is a stolen car, and that I’m grateful to the owners for taking such good care of this car that we have now taken.”





Responsibility & Gratitude

Remember, we are all indigenous to planet earth, and must be responsible for its stewardship and the care of all its living and non-living inhabitants.

NATIONAL BESTSELLER

A hymn of love to the world.

—ELIZABETH GILBERT

BRAIDING SWEETGRASS



Indigenous Wisdom, Scientific Knowledge,
and the Teachings of Plants

ROBIN WALL KIMMERER

Good Resource:
Braiding Sweetgrass
by Robin Kimmerer

Lesson Plans

We collaborated with Anishinaabe educator **Christine M'lot** to develop lessons that serve to teach students about the land they are learning on by viewing and creating original land acknowledgements and being introduced to complex topics concepts such as who Indigenous people are, what the term settler refers to and notions such as broken promises and renewed commitments to share the land.

They've been broken down into three grade levels, and depending on their age, students will either create a class or personal land acknowledgement using Whose.land as a resource.



Image by **Ruby Bruce**

Professional Learning / Workplaces

This workshop series will introduce participants to Indigenous topics such as Indigenous naming terminology, history of Indigenous and settler relationships in Canada and the importance of land acknowledgements. First, to assess prior knowledge, participants will engage in small group discussions centering around the theme of culture, land and place. Next, participants will be tasked with learning one aspect of Indigenous history. Participants will rotate groups to share their knowledge with others. Finally, participants will collaborate on a suitable workplace or individual Indigenous land acknowledgement.

This workshop is designed to be an easily implementable lunch-and-learn series facilitated by a fellow co-worker volunteer or group of volunteers.

[Explore the PD/Workplace Activity.](#)

Grades K-5

www.whose.land





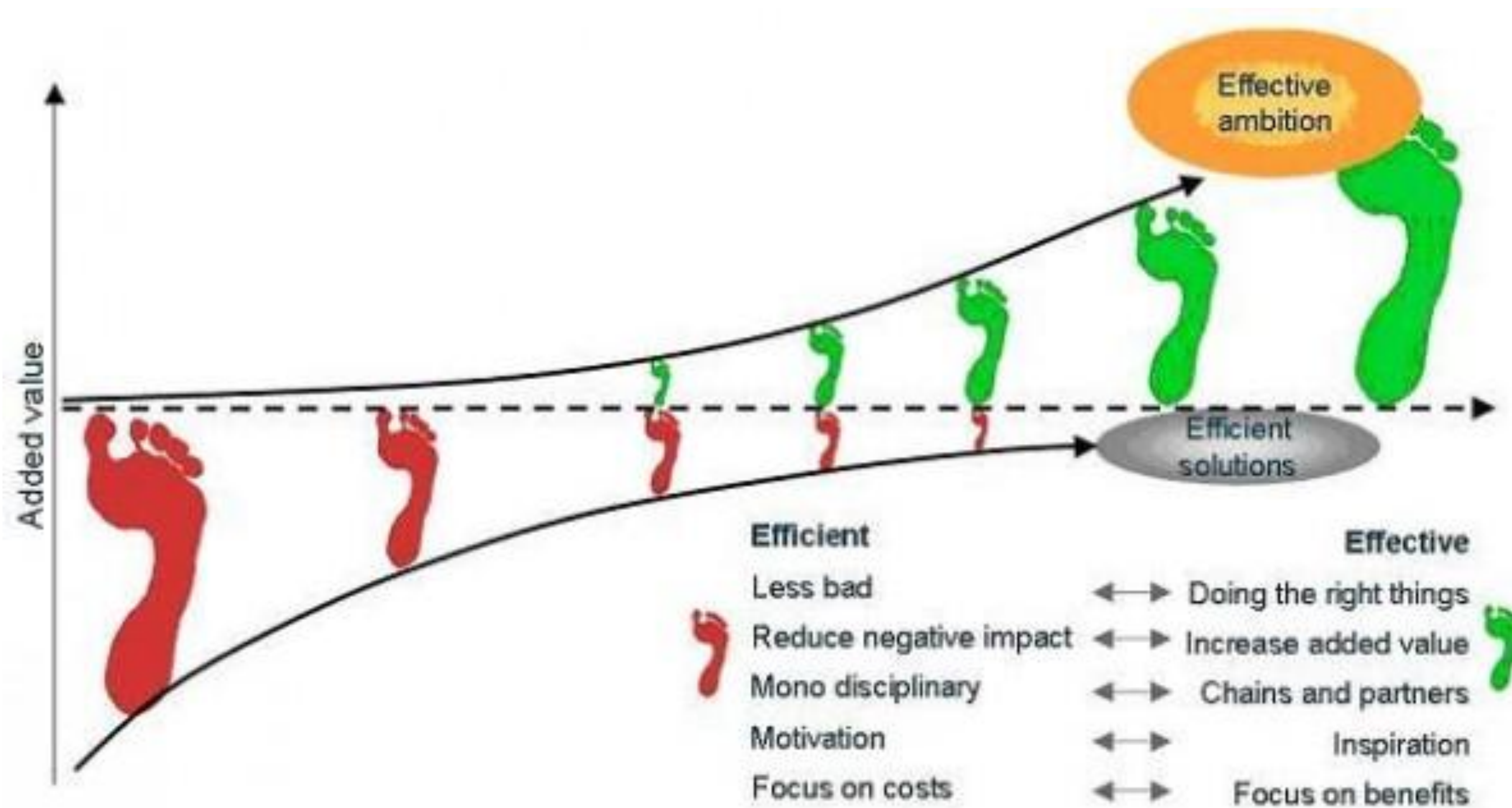
Reconciliation in Action

Our commitment to have reconciliation in action is the following:

- 50% discount to all Online workshops for BIPOC students
- 25% discount on 4 spots on all in-person courses for BIPOC students
- Hosting more events and screenings pertaining to colonization and its impact: educating citizens about the reality of the situation.



A regenerative Path





Redefine what it means to be human!





A regenerative Path

Source: wildecology.org



Source: smithsonianmag.com



“these "hyperdominant" plants were domesticated species such as the **Brazil nut**, the **Amazon tree grape** and the **ice cream bean tree**. That was **five times** the amount researchers expected” - Ben Panko, Smithsonian



The Supposedly Pristine, Untouched Amazon Rainforest Was Actually Shaped By Humans

Over thousands of years, native people played a strong role in molding the ecology of this vast wilderness



The Amazon rainforest appears wild and untouched by humanity, but people have been shaping its biodiversity for millennia. (Daniel Sabatier / Science)

By [Ben Panko](#)
SMITHSONIAN.COM
MARCH 3, 2017

What does it mean to be human today?

Are you a producer or a consumer or a beautiful mix of both?



What is Permaculture

“We must look a long time before we can see”...



Source: P3 Permaculture



Permaculture is a **Earth Based System of Design**
Modelled after the **observation of nature**
Focused on **designing abundant human societies**.



What is Permaculture

“Humans do not create ecosystems, however they (can) design the conditions under which ecosystems can emerge” -Morrow



alpakiade.com



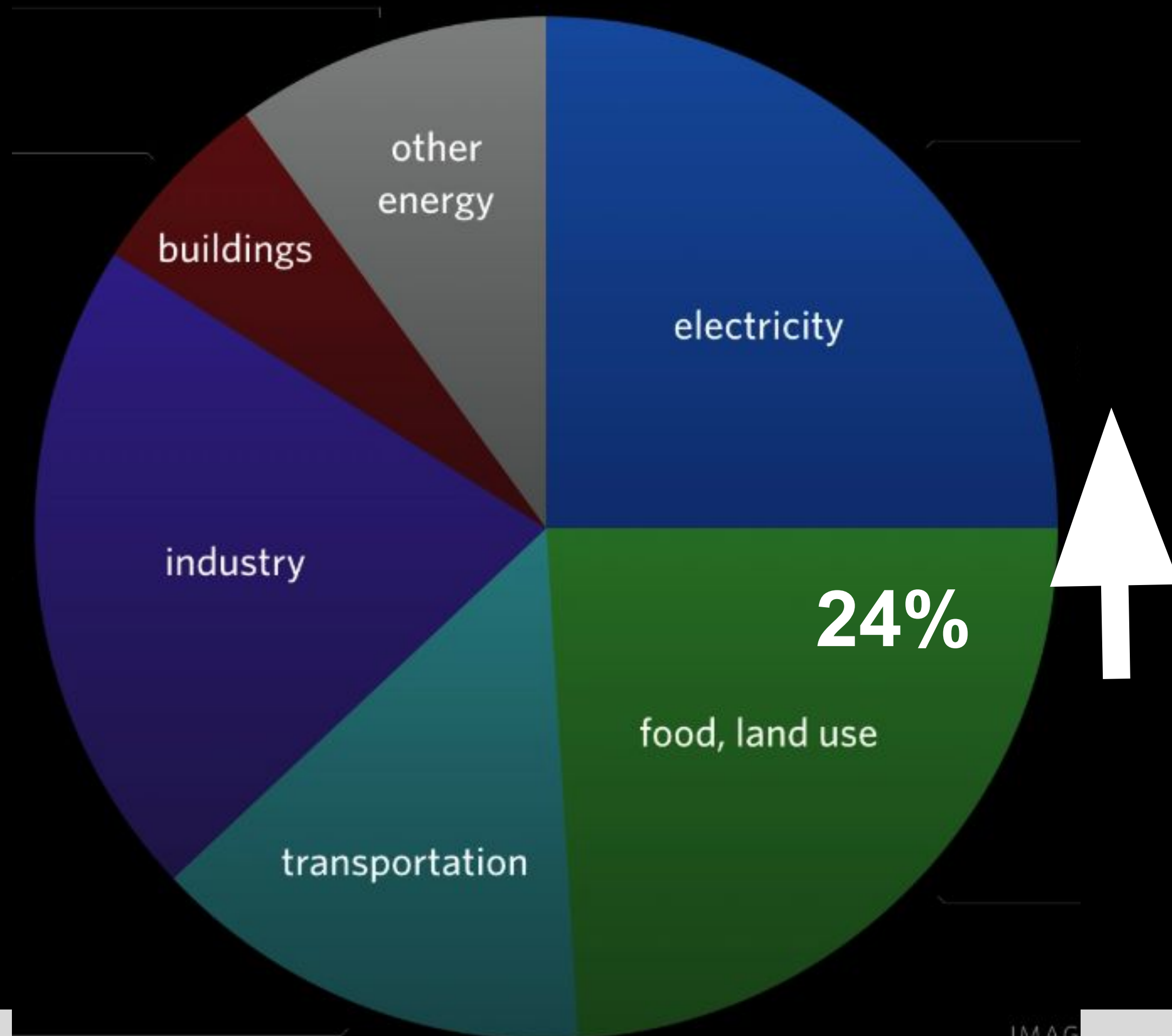
Why is Permaculture so Relevant?



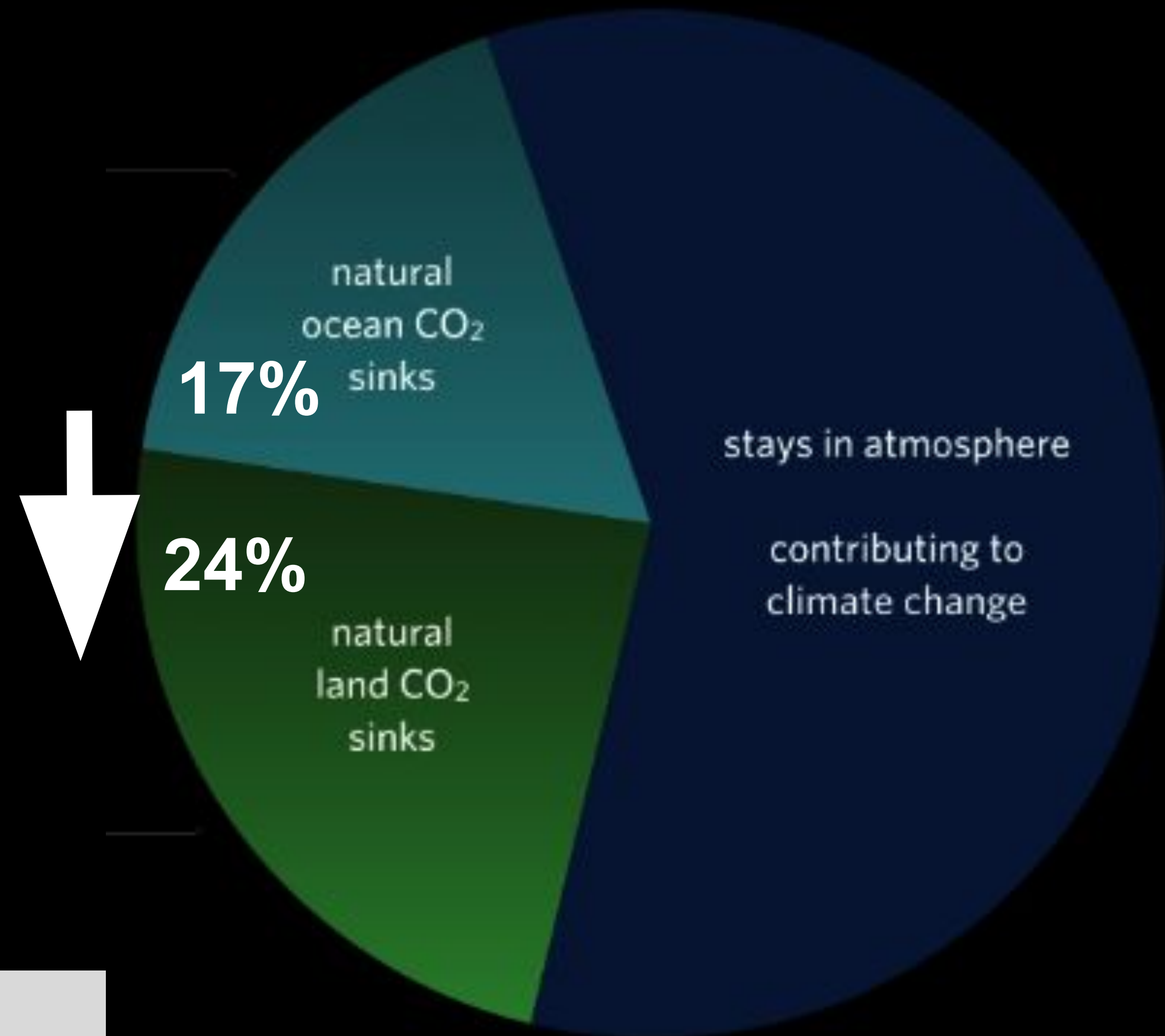


Where to focus

Carbon Sources



Carbon Sinks

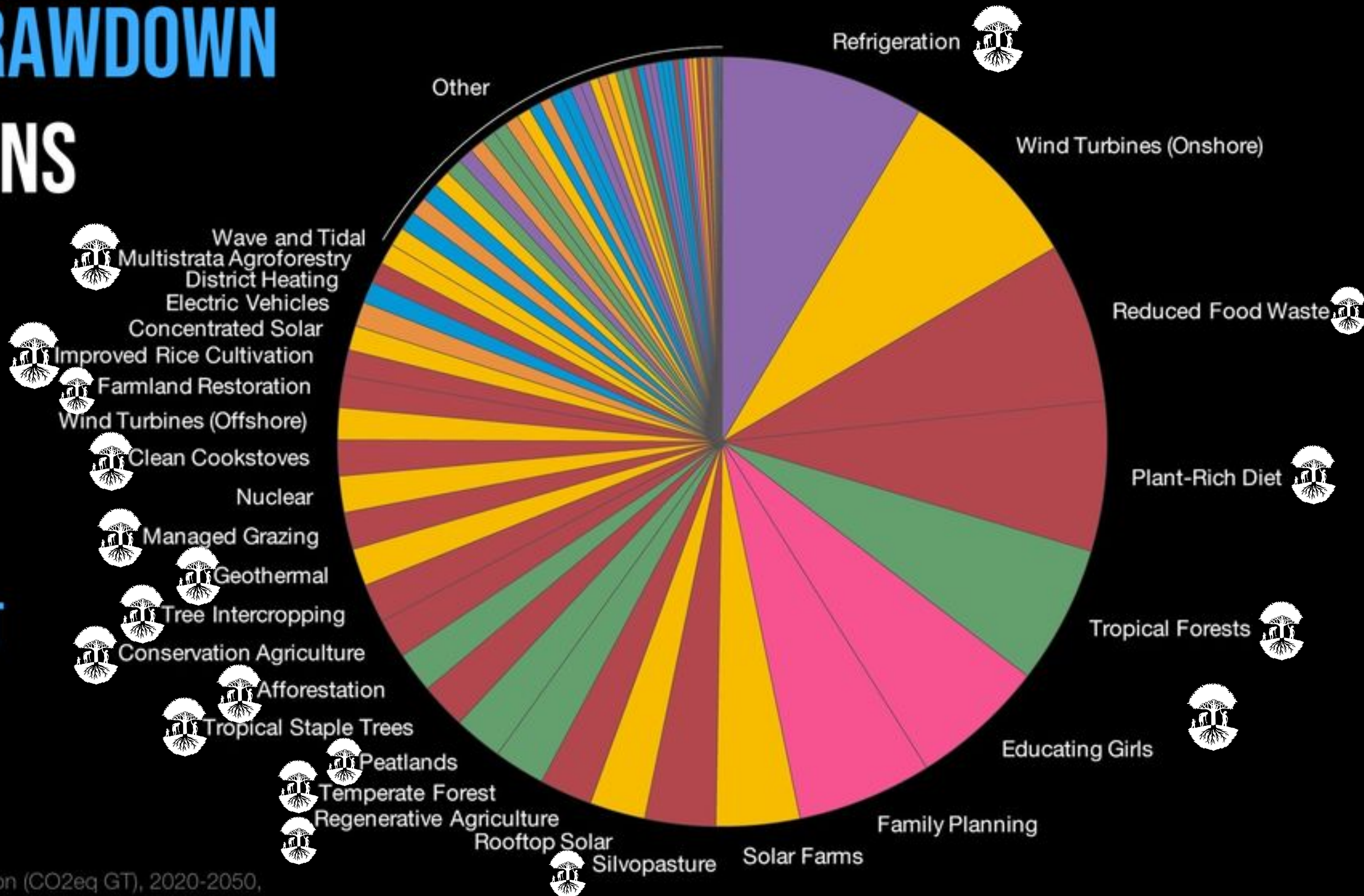


80 SOLUTIONS

CO2-EQ: 1,035 GT

COST: \$29.6T

SAVINGS: \$74.4T





PROJECT DRAWDOWN®

Rank	Solution	Sector	TOTAL ATMOSPHERIC CO2-EQ REDUCTION (GT)	NET COST (BILLIONS US \$)	SAVINGS (BILLIONS US \$)
1	Refrigerant Management	Materials	89.74	N/A	\$-902.77
2	Wind Turbines (Onshore)	Electricity Generation	84.60	\$1,225.37	\$7,425.00
3	Reduced Food Waste	Food	70.53	N/A	N/A
4	Plant-Rich Diet	Food	66.11	N/A	N/A
5	Tropical Forests	Land Use	61.23	N/A	N/A
6	Educating Girls	Women and Girls	51.48	N/A	N/A
7	Family Planning	Women and Girls	51.48	N/A	N/A
8	Solar Farms	Electricity Generation	36.90	\$-80.60	\$5,023.84
9	Silvopasture	Food	31.19	\$41.59	\$699.37
10	Rooftop Solar	Electricity Generation	24.60	\$453.14	\$3,457.63



50-70%
reduction in
need for AC



REFRIGERANT MANAGEMENT

The primary chemical refrigerant, HFCs, is a potent greenhouse gas. Emissions are avoided by managing leaks and disposal and by phasing out the use of HFCs.

RANKING BY 2050

#1





Greening the Desert

- Limiting Factors
- Design the Solution
- Biology is Reliable



Before: Loess Plateau



After: Loess Plateau



1963



2003



FREE 5 Part Training

Online

1: **Climate Positive Strategies in Your Backyard**

Hands On

2: **A Water Wise Landscape**

3: **Beyond the Lawn 1, Edible landscaping**

4: **Beyond the Lawn 2: Pocket forests for wildlife**

5: **Climate change mitigation and you**

Events in La Peche





Climate Positive Strategies

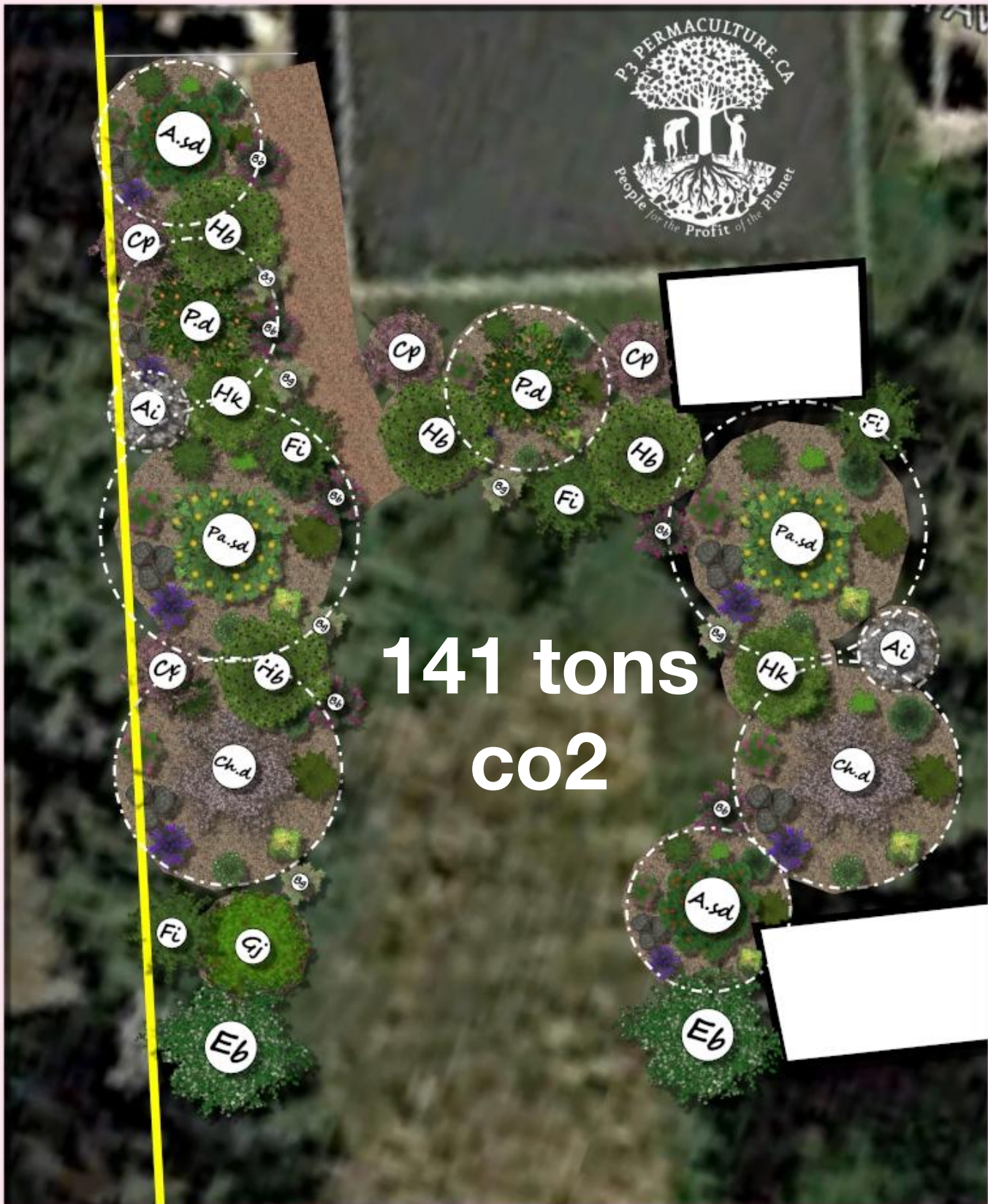
Discover a panoplie of solutions to diversify your landscape and give you quantifiable results in making a climate positive Change in your life.

- Capture Carbon
- 50-70% reduction in air conditioning
- Passive heating
- Fire Prevention



98.7 flights
ottawa to
Dominican
Republic

Food Forest Planting Plan



Symbol	Key	Qty	Common
	Gj	1	Goji Berry
	Eb	2	American Black Elderberry
	Ch.d	2	Dwarf Cherry Sweet Lapins
	P.d	2	Dwarf Peach
	Hk	2	Hascap (honey Berry)
	RI	2	Saskatoon Isaac 5'
	A.sd	2	Semi Dwarf Apple
	Pa.sd	2	Shinseiki Asian Pear Semi Dwarf
	Cp	4	Chum 'manor'
	HB	4	Highbush Blueberry
	Bg	6	Bergamot
	Bb	6	Butterfly Bush 'Adonis Blue'
	AH	8	Anise Hyssop 'Blue Fortune'
	Cf4	8	Comfrey Bocking
	DI	8	Daylily
	Cu	8	Flowering Currant
	Hr	8	Horseraddish
	Pm	8	Peppermint
	Lu	8	Russell Lupin
	Fi	12	False Indigo

Produced By Graham Calder
p3permaculture.ca



A Water Wise Landscape

Learn how to design with water to work with us in our property

- Drought Prevention
- Flood Prevention
- Passive irrigation
- Natural Swimming Pools
- Aquaculture ponds
- Rain gardens

Learn how to map the flow, design spillways and maximise your potential and build a rain garden

Beautiful, Hard Working Rain Gardens

Rain gardens prevent flooding, increase home value and create habitat for birds and butterflies.

A RAIN GARDEN is a beautiful landscape feature in your yard that captures and filters runoff from your roof, driveway or other hard surface.

 **x 600**

The average home rain garden naturally filters 30,000 gallons of water per year, enough to fill a bathtub 600 times!

Calculation based on a typical 10' x 12' residential rain garden capturing average rainfall for the Puget Sound region from 1,200 square feet and a bathtub volume of 50 gallons.

12,000 RAIN GARDENS in Puget Sound

For more information go to: www.12000raingardens.org





Beyond the Lawn

1: Edible landscaping

- Edible hedges,
- Food forest guilds

2: Pocket forests

- WildLife habitat
- Natural pest predators
- Micro forest design





Climate Change Mitigation and you

- Learn how to integrate all the Climate change mitigation strategies into your design to maximise your productivity and increase your resilience.





| Online Course | Dive Into Permaculture

Become a regenerative change maker with our
Live & On Demand Online permaculture design course (PDC)

Three-Month Winter Course Begins March 2024

All levels | **130 Hour Course** | 72 hours On Demand | **10 Live Sessions with recording** | 43 hours Bonus content | **Optional 1 week hands-on** | Online Live Seasons: Nov - Feb, Feb-May,

Starting at **\$547 +tax**

[Sign Me Up!](#)





5 Days | 5 Intensive trainings 100% Hands On

Meals & Accommodations included. See below for full course details.

Starting at **\$1250+tax** | **Save 250\$** when you register for our [PDC+Online Certification](#)



Day 1:

Social Permaculture

Conscious communication

Active listening

Reflecting

Social Needs assessment

Community living tools

Day 2:

Garden & Water Systems

Passive irrigation

Biofiltration

Companion Design

No dig systems

Drought Prevention

Flood Prevention

Day 3:

Forestry & Food Forests

Food Forests

Grafting

Propagation

Coppice & Pollard

Ramial Wood Chips

Planting

Day 4:

Earthworks & Erosion

Swales

Spillways

Pond & Dams

Erosion remediation

Erosion prevention

Keyline

Day 5:

Soils Compost; tea & extracts

Static Compost

Hot Compost

Vermi compost

Johnson su bioreactor

Compost extracts

Aerated Compost tea



Permaculture Design Course2023



P3 Permaculture

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Why take a Permaculture course? ⋮



0:08 / 1:30

CC HD

Why take a Permaculture course?

244 views • 1 year ago

Former students sharing their inspiration and experience with P3's Intensive Summer PDC 2021

#permaculture #ecologicaldesign #climatechangeawareness #regenerativeagriculture #healthysoils #earthworks #education



Thank you for your time!



**5 Day Advanced
course in Wakefield**



**Design, Share and Grow
your life into abundance**

Info@p3permaculture.ca



**Free Handson
Courses at Eco Echo**

