

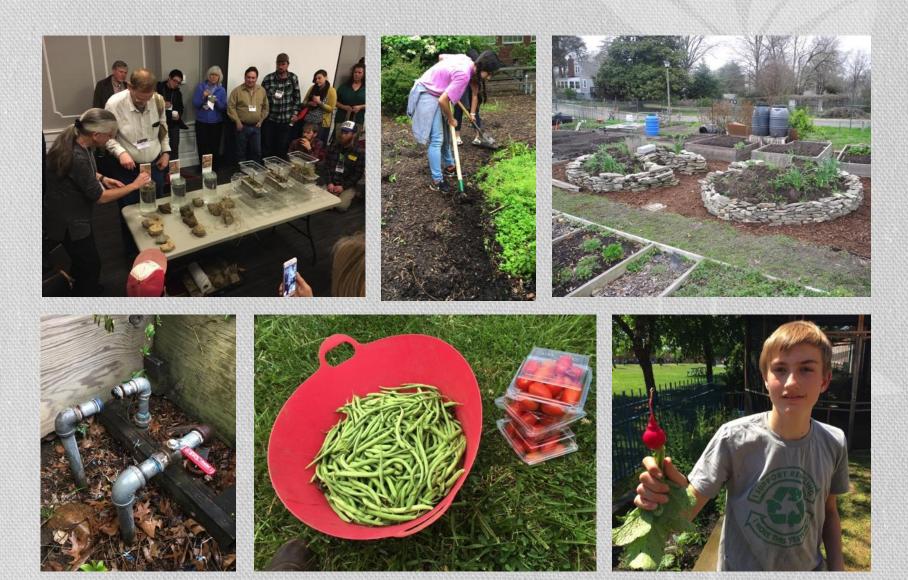
# PERMACULTURE SOLUTIONS IN URBAN ENVIRONMENTS

Presented by David Sachs March 2, 2019

## Grapewood Farm, PCO, OFA



# Ft Barnard, AFAC, FOUA



## Thank you Abbot Aiden Shea

(August 7, 1930 – December 2, 2018)

A poem by Wendell Berry

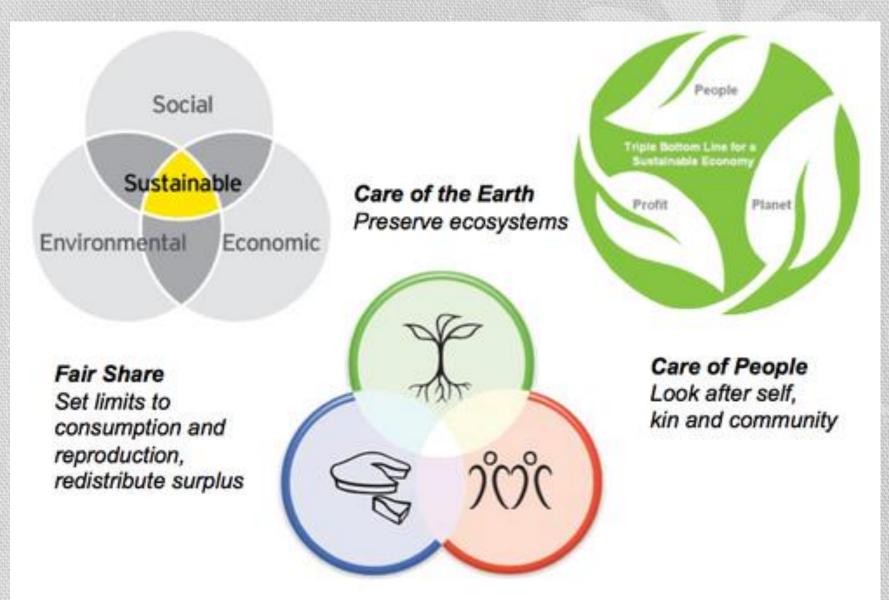


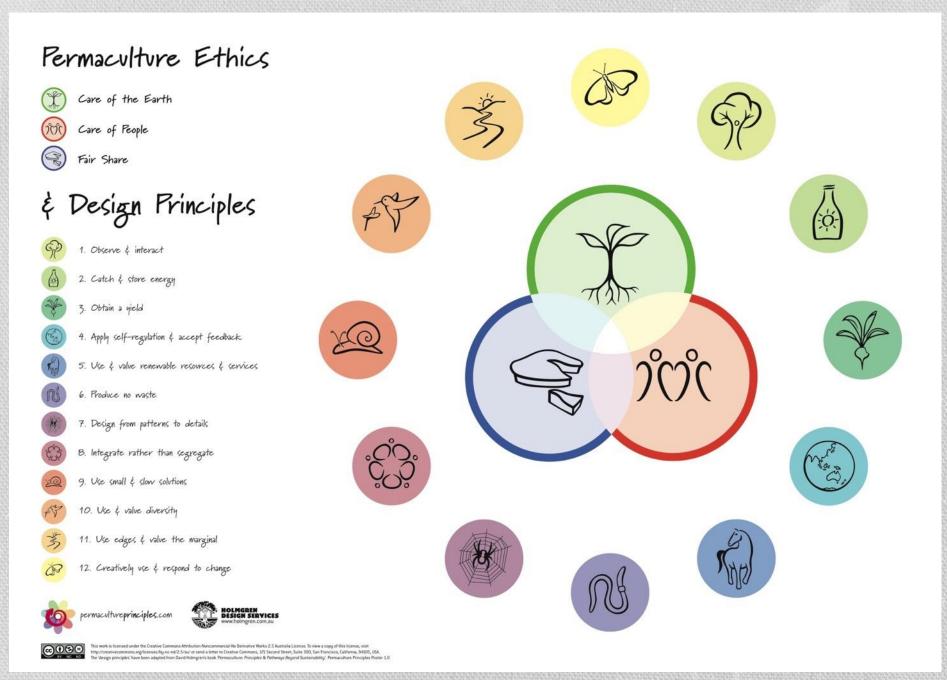
# "Permaculture is ecological design theory applied to an everyday context"

~ David Holmgren



## 3 main ethics of Permaculture





#### Permaculture Flower

The permaculture journey begins with the Ethics and Design Principles and moves through the key domains required to create a sustainable culture. The spiral evolutionary path joins together these domains, initially at a personal and local level, and then proceeding to the collective and global level.

Some of the specific fields, design systems and solutions that have been associated with the wider view of permaculture are listed below.

#### Land & Nature Stewardship

Bio-intensive gardening	Holistic Rangeland Management
Forest gardening	Natural Sequence Farming
Seed saving	Agroforestry
Organic agriculture	Nature-based forestry
Biodynamics	Integrated aquaculture
Natural Farming	Wild harvesting & hunting
Keyline water harvesting	Gleaning

#### Building.

Passive solar design Natural construction materials Water harvesting & Waste Reuse Biotechture Earth sheltered construction Natural disaster resistant construction Owner building Pattern Language

#### Tools & Technology

Reuse & creative recycling Hand Tools Bicycles and electric bikes Efficient & low pollution wood stoves Fuels from organic wastes Wood Gasification Bio-char from forest wastes Co-generation Micro-hydro & small scale wind Grid-tied renewable power generation Energy storage Transition engineering

#### Education & Culture

Home Schooling Waldorf education Participatory arts and music Social ecology Action Research Transition culture

Spirit of place, indigenous

cultural revival

Duing with dignity

#### Health & Spiritval Well-Being

Home birth & Breast feeding Complementary & Wholistic Medicine Yoga, Tai Chi & other body/mind/spirit disciplines

#### Finances & Economics

Local and regional currencies Carpooling, Ride sharing & Car share Ethical Investment & Fair Trade Farmers markets & Community Supported Agriculture (CSA) WW00Fing & similar networks Tradable Energy Quotas Life Cycle Analysis & Emergy Accounting

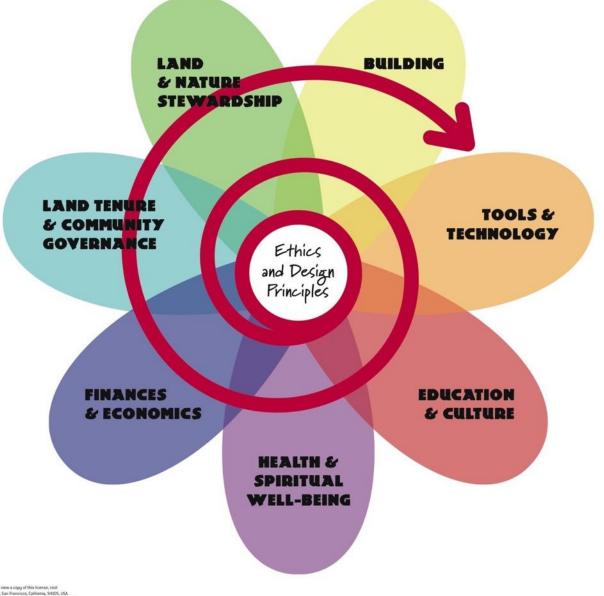
#### Land Tenure & Community Governance

Cooperatives & Body Corporates Cohousing & Ecovillages Native Title and traditional use rights Open Space Technology & Consensus Decision Making

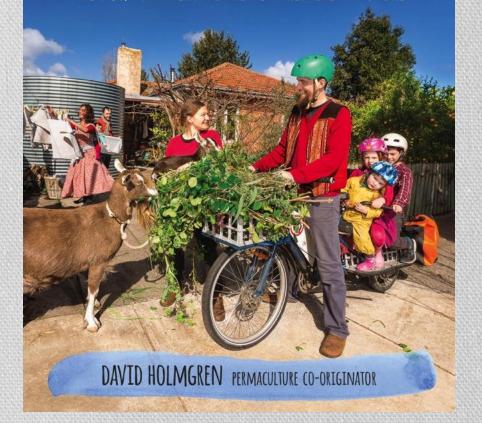




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# **RETROSUBURBIA** THE DOWNSHIFTER'S GUIDE TO A RESILIENT FUTURE

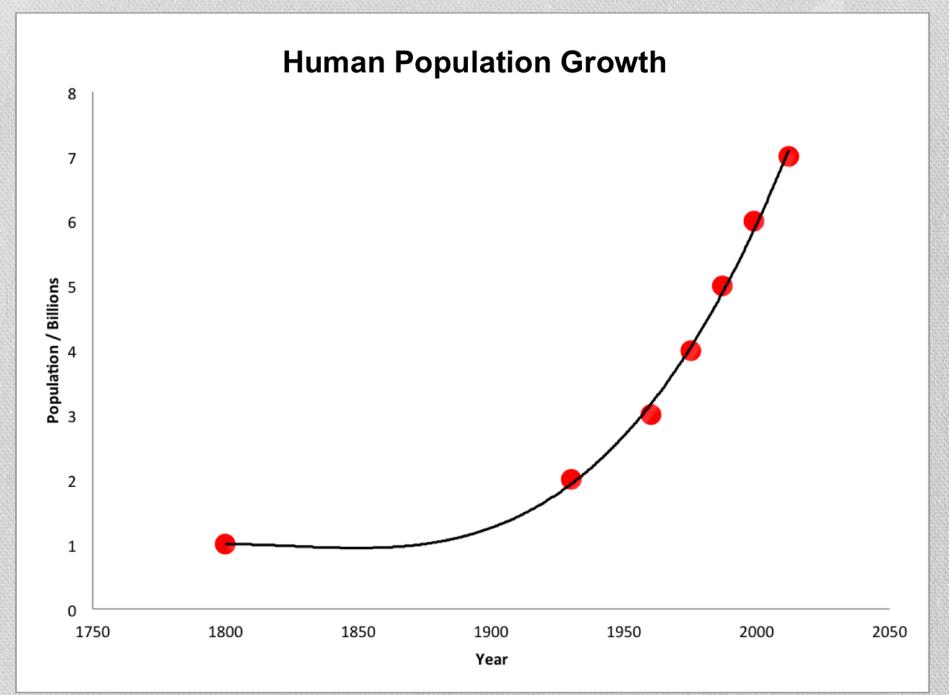


#### GARDEN FARMING for Town and Country



# PERMACULTURE HANDBOOK

Peter Bane



# How are we going to feed all these people?

#### **Rural Industrial Agriculture**



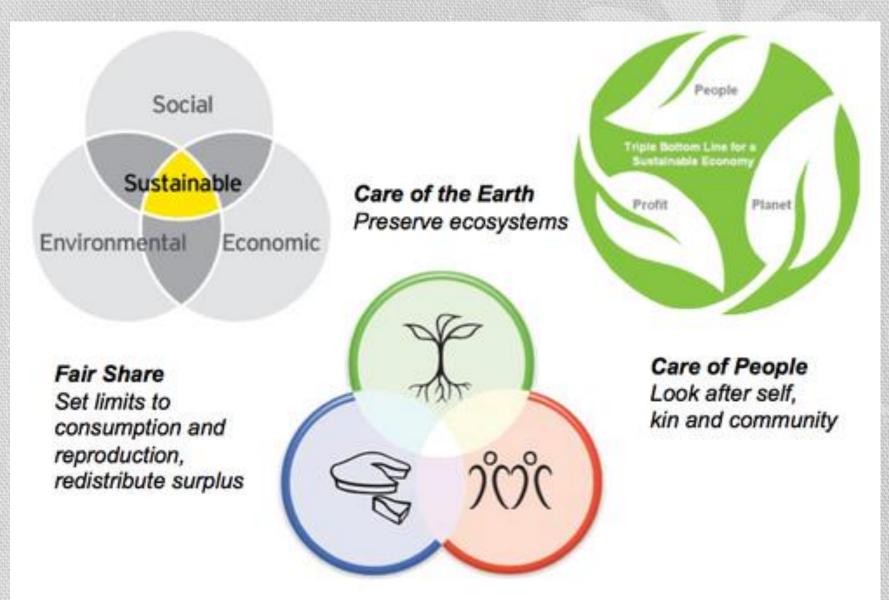


SUSTAINABILITY

# Only 60 Years of Farming Left If Soil Degradation Continues

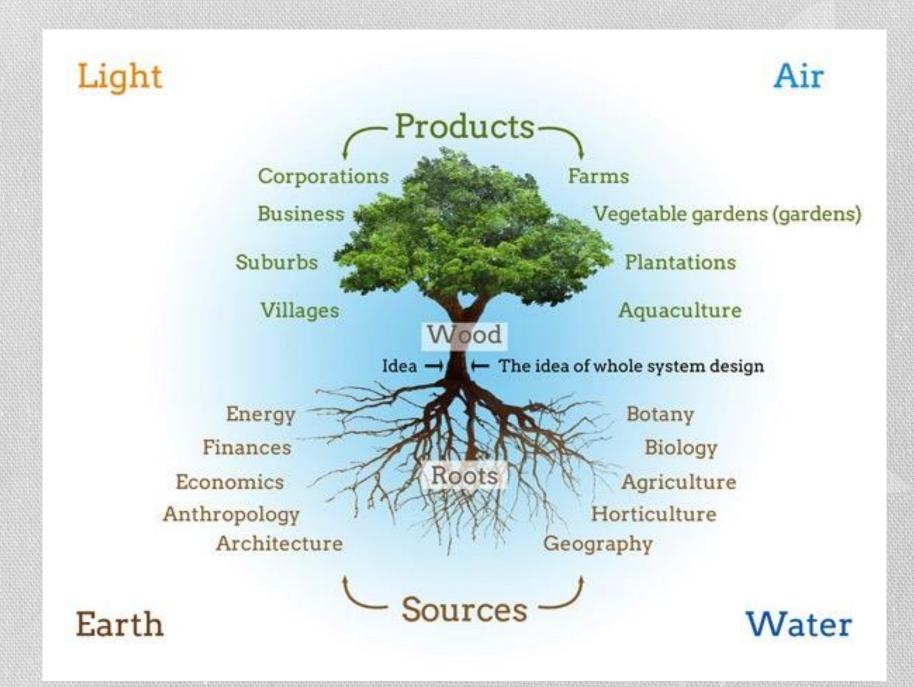
Generating three centimeters of top soil takes 1,000 years, and if current rates of degradation continue all of the world's top soil could be gone within 60 years, a senior UN official said

## 3 main ethics of Permaculture



# Why Permaculture?

- A deep vision of long-term cultural transformation
- A design system for the creation of regenerative human habitat, not just sustainable (Chuck Marsh)
- Permaculture derives its insights from the patterns of natural ecosystems, and from the patterns of truly sustainable human cultures.
- It integrates water systems, annual gardens, perennial and forest crops, animals, buildings, energy systems and cultural functions with purpose and shared value.



www.growtheplanet.com

## **Techno Urban Solutions**



### Suburban Retrofit Transition



## Principles Derived from Natural Patterns

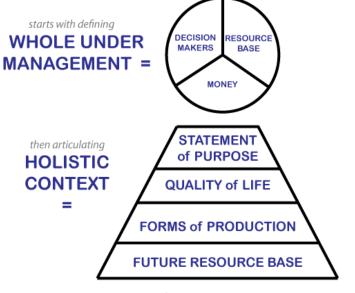
- 1. Articulate goals and constantly use and refine them, choosing high leverage strategies (Holistic management)
- 2. Integrate rather than segregate work together
- 3. Creatively use and respond to change accept feedback
- 4. Everything must have multiple functions
- 5. Value cultural and natural diversity for resilience
- 6. Grow like a seed! Plan through time starting with small and slow solutions in your own life. Then branch out into your community, County, region, etc.

\* Permaculture teaches us new ways to think about EVERY goal and challenges us to improve. NOT just a toolbox of techniques or methods to implement.

#### HOLISTIC HOLISTIC

Allan Savory with Jody Butterfield

#### holistic management decision making



then

#### MAKE DECISIONS TOWARDS HOLISTIC CONTEXT (USING TESTING QUESTIONS

IF NECESSARY)

then

GET BACK IN THE GAME = Act on your decisions then seek and use feedback to stay on track, making new decisions towards holistic context as required.

Put together by Dan Palmer from www.VeryEdibleGardens.com based on content from Allan Savory's book (written with Jody Butterflield's help): Holistic Management. A New Framework for Decision Making (2nd Edition, Island Press, 1999)

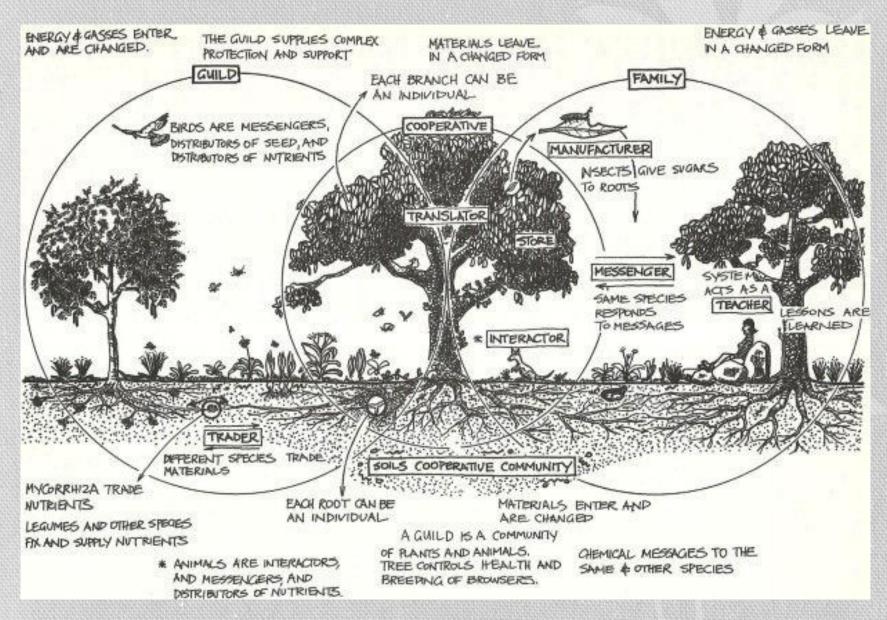


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## So where do we fit into all this?



## Efficiency of space and non traditional shape



A keyhole bed planted with cabbages, tomatoes, and pathside greens and herbs in a space 8 to 10 feet in diameter.











# **Cultural and Collaborative Strategies**

- 1. Active listening and true attitude of collaboration
- 2. Informal neighborhood scale collaboration and rotating work parties to share responsibility
- 3. Rapid assessment design groups and work-classes
- 4. Co-ops for: Micro-grids, poultry, cascading rainwater, orcharding, child care and elder care, materials purchasing, expensive tools
- 5. Land access: Rethinking cohabitation, seasonal work and truly affordable housing
- 6. Mutual Aid Societies: The ultimate cooperative.
- 7. Education of Next Generation: Successive transition

### The shorter the chain between raw food and fork, the fresher it is and the more transparent the system is.

Joel Salatir



# QUESTION OR COMMENTS?

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