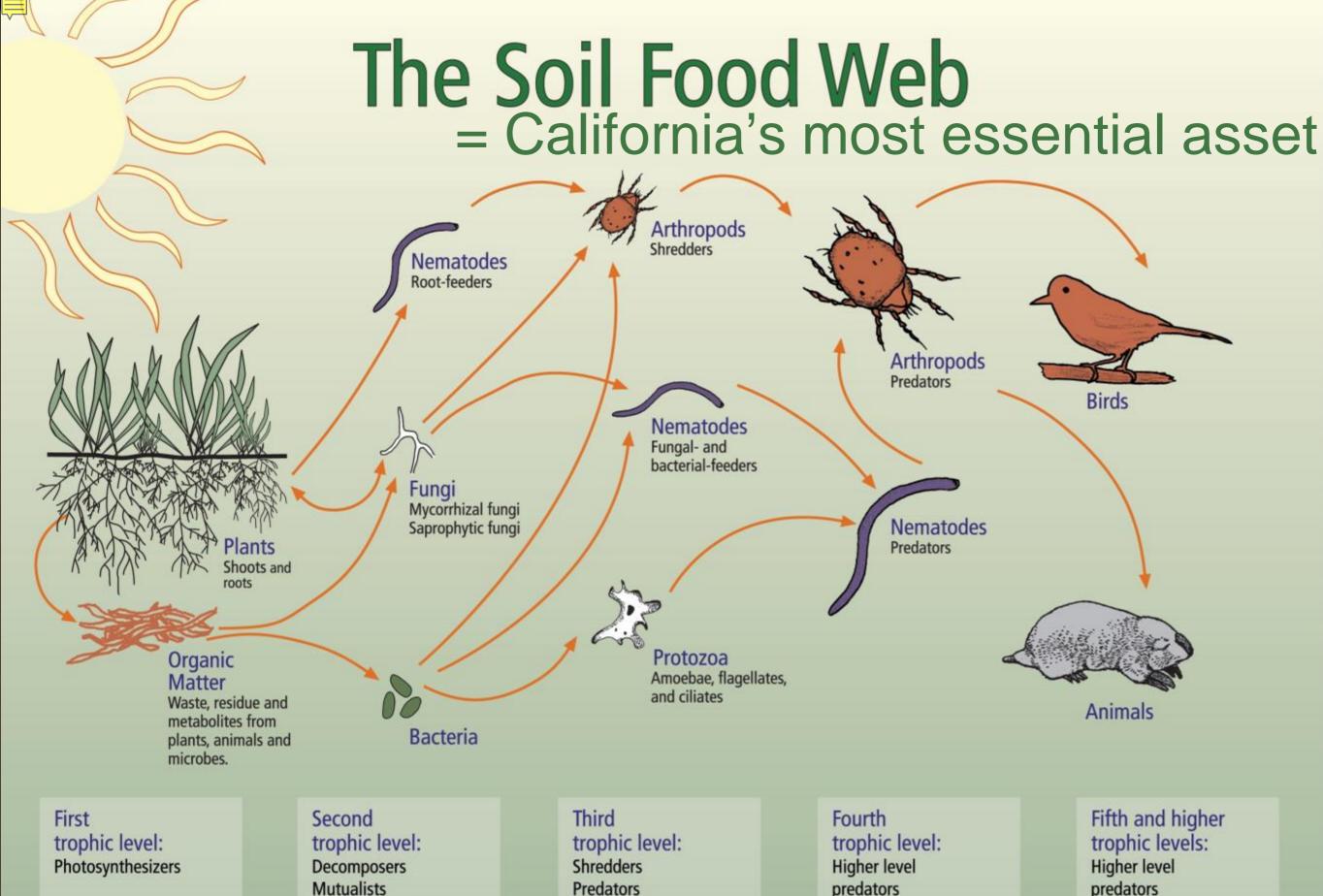
Nutrient Cycling with Regenerative Agriculture

California Bioresources Alliance November 2, 2017





WASTE = FOOD



Pathogens, Parasites **Root-feeders**

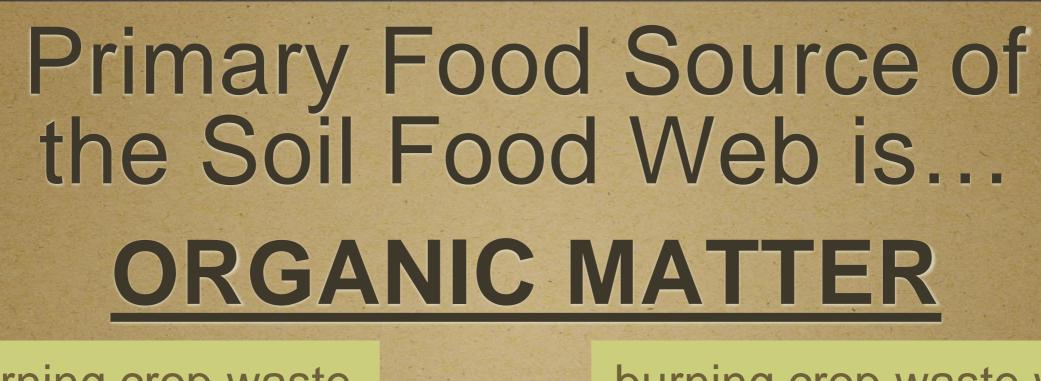
Grazers

Benefits of Healthy Soil Food Web for California



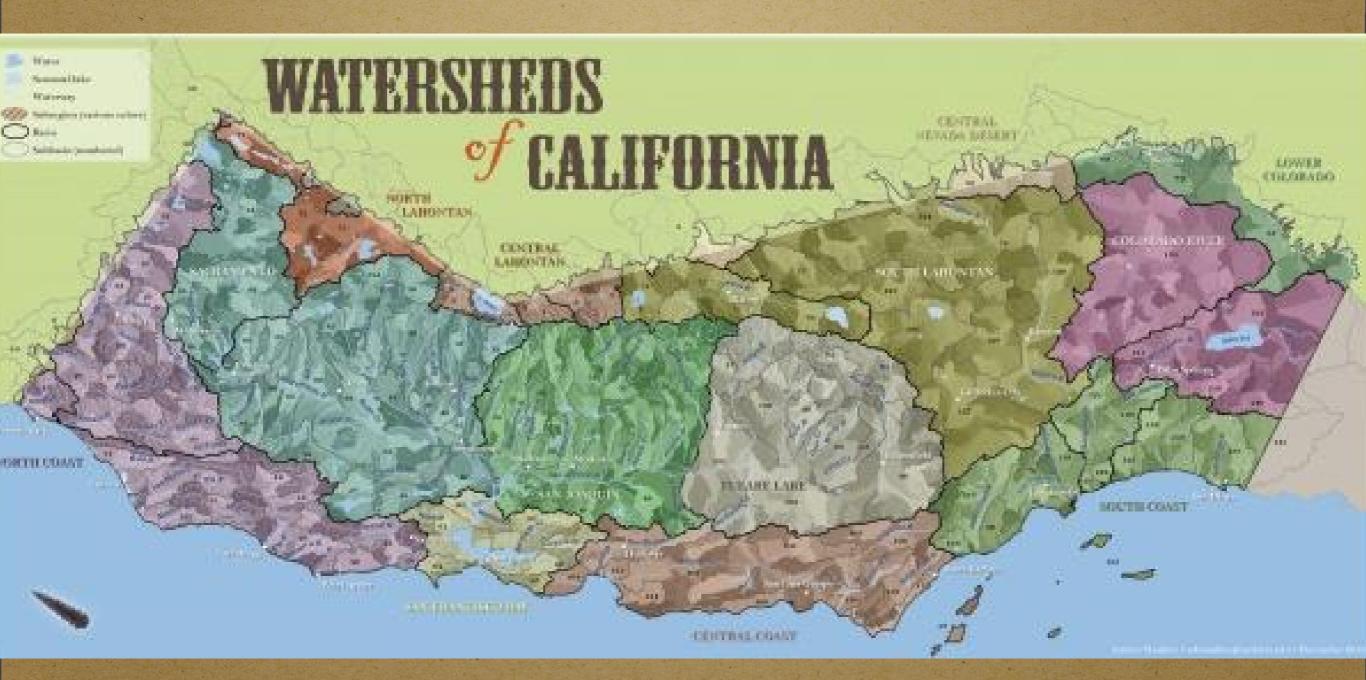
Foundation of Community Resilience 4

- Efficient utilization of organic matter
- Reduced inputs of fertilizer (\$)
- Eliminate need for biocides
- Reduced water usage
- Crops withstand stresses better from extreme conditions (climate smart and resilient)
- Higher nutrition values (protein, brix, chlorophyll)
- Crops matures faster
- Capture carbon and bio remediate the soil
- Increased income





Rethinking Nutrient Cascading And Cycling



Source to Sink and Back Again "Resilience In A Watershed"







A BIG GREEN WAVE

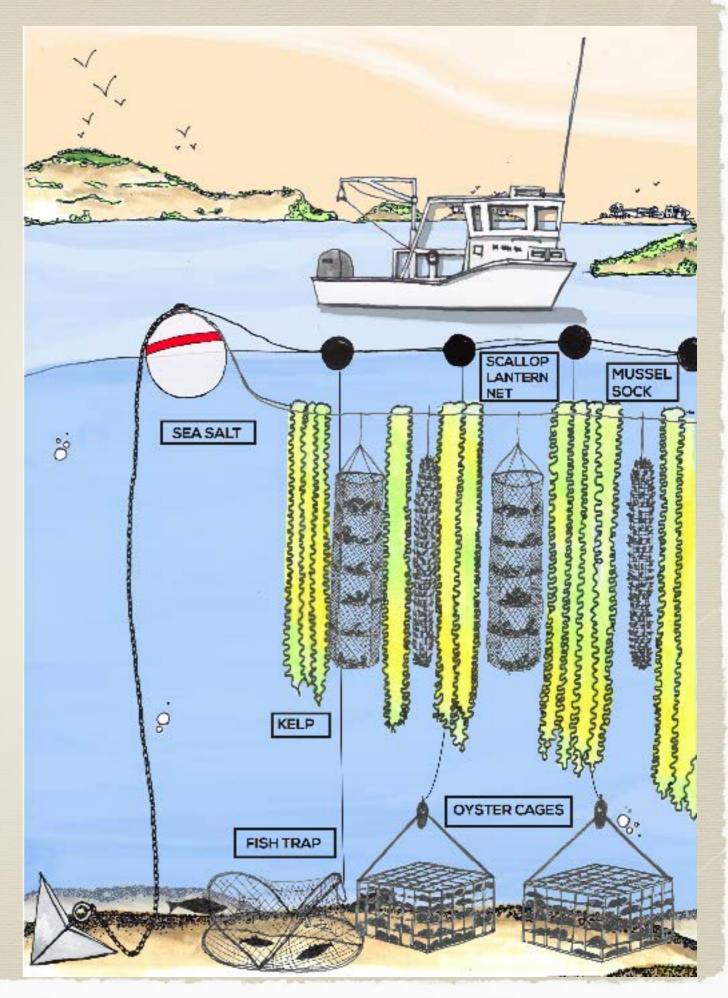
A 3D OCEAN FARMING REVOLUTION



California Coastal Nutrient Sink

3-D Ocean Farming

- * Acts as natural filter
- * Zero inputs
- * High nutrient food crop
- * More biodiversity = higher yields
- * Ecosystem restoration
- * Ungulate forage, biofuels, ag fertilizer





Initial Assessment and Feasibility Report Enhanced Facility Performance and the UpCycling of Biosolids with Regenerative
Agriculture and Habitat Restoration for LACSD's
Tulare Lake Facility and Land

Prepared for: Melissa Fischer and Matt Copeland, Los Angeles County Sanitation District
Project: Tulare Lake Compost Facility and Land
Prepared by: Warren Brush
October 13, 2016

LACSD - Regenerative Agriculture Feasability Report

Healthy People, Soil, & Profits

Family Farming

Higher Profits Per Acre

Resilience
Through
Relationships



Thank you!

warrenbrush@mac.com permaculturedesign.us