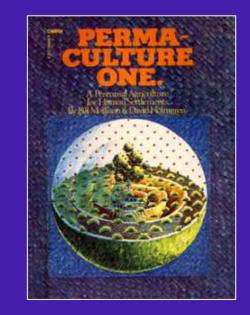
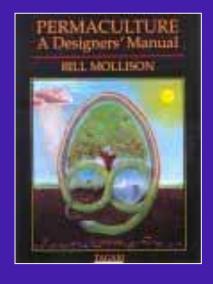


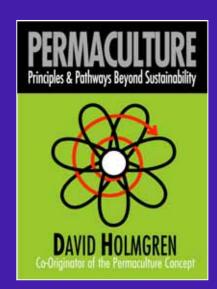
Permaculture milestones

Permaculture One (1978)
Bill Mollison & David Holmgren



Permaculture: A Designers' Manual (1988) Bill Mollison





Permaculture: Principles and Pathways Beyond Sustainability (2002) David Holmgren

Environmental & Social Crisis?

Environmental

- Climate change (already happening)
- Land degradation (continuing)
- Resource depletion (global oil peak)

Social

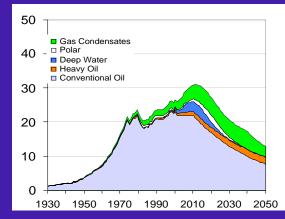
- Family & community breakdown
- Addictive behaviours



Economic & Political

- National & household debt (unprecedented)
- Robber baron capitalism, criminal economies
- Illusion and deception, neo-fascist solutions











Opportunities for creative descent

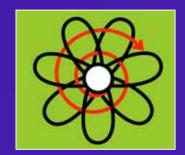
 Rises in oil prices will flow through to all commodities (fuels, metals, timber, food, etc)



- Higher commodity prices will;
 - make local products will be more competitive than imported ones
 - stimulate self-reliance, repair, retrofit and recycling
 - allow low input & organic farming to compete against intensive land uses



- Demand for permaculture as life skills education
- Resurgence of community life, ethics and values



Permaculture design in ecological agriculture

- Biodiversity conservation
- Reducing our dependence on dominant annual crops and livestock
- Integrating tree and annual crops
- Soil building & fertility maintenance
- Water harvesting & management
- Complementary land uses

with examples from Australia and the world Biodiversity conservation & seed saving



Threatened wildflowers thriving in permaculture food systems Krameterhof Austria (Sepp Holzer's)



Fodder trees: the missing link in pastoral farming

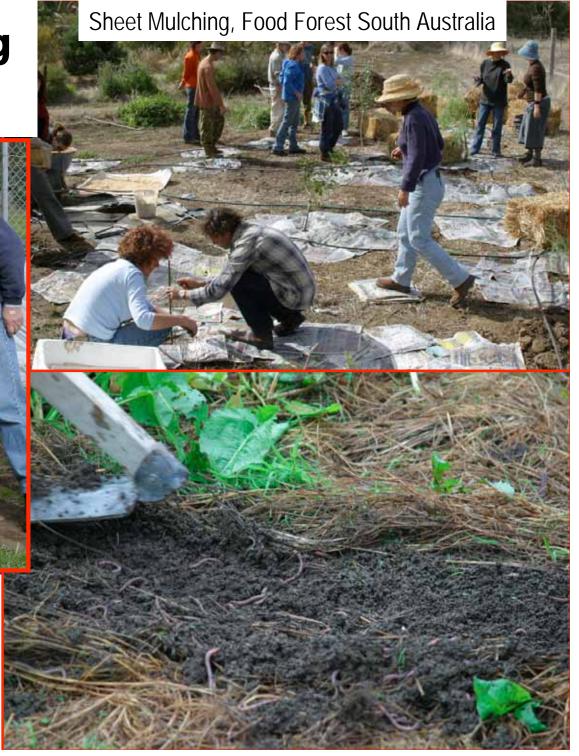
Dairy goat consuming willow fodder (Melliodora)



Soil fertility building & maintenance



Worm farm processing food & animal waste, Edendale Farm, Eltham Victoria



Natural farming, Azmino Japan

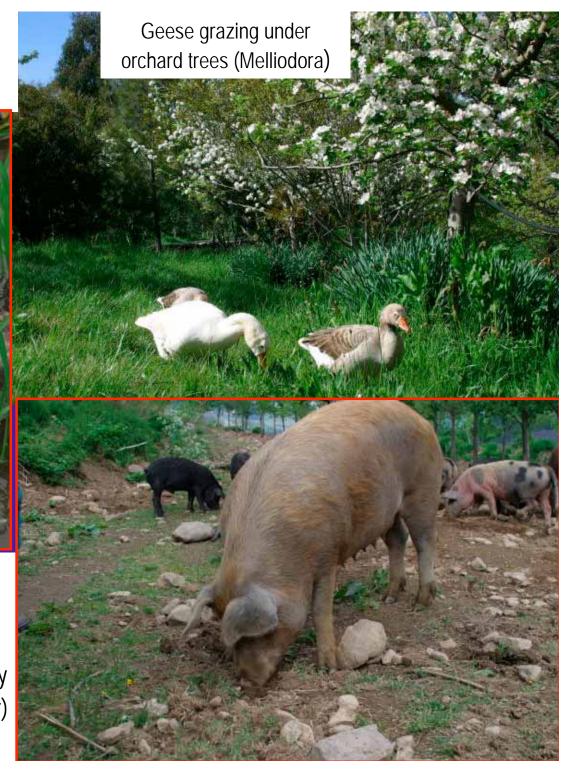
Working animals:

yields & ecological services



Aigamo ducklings controlling pests and manuring in organic rice, Chiba Japan

Pig Tractor: Healthy pigs cultivating in cherry orchards, Krameterhof Austria (Sepp Holzer)

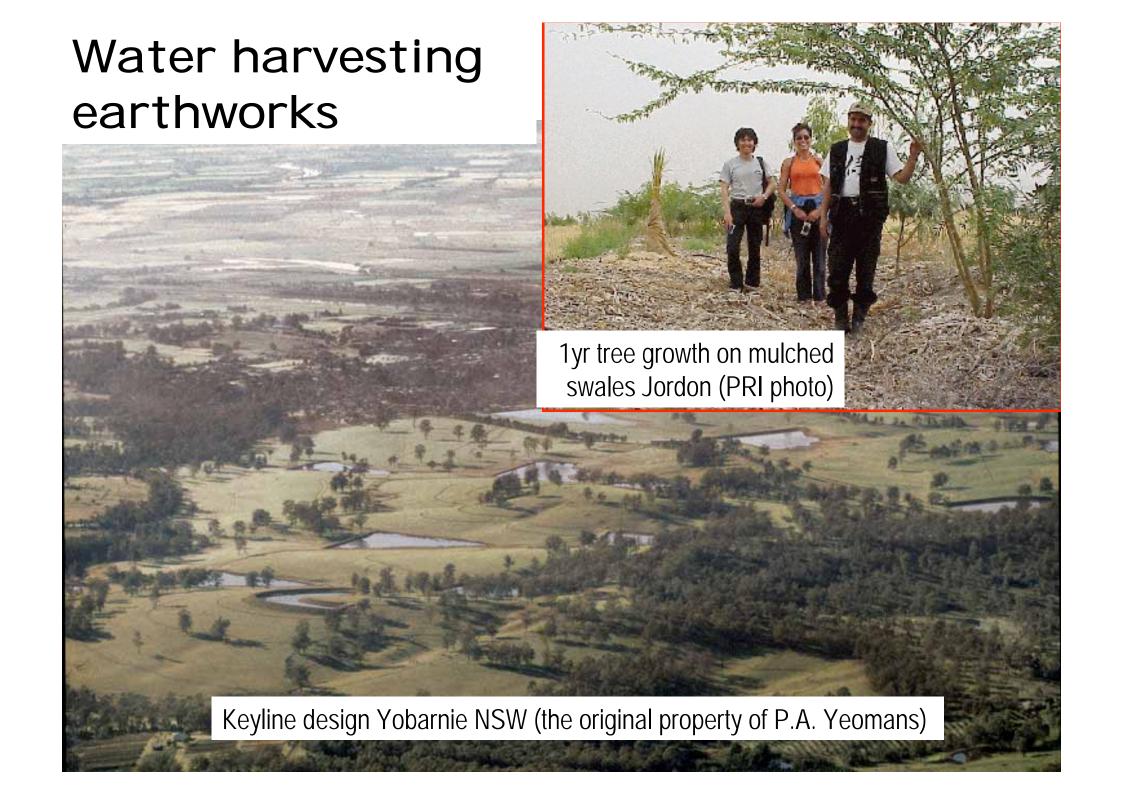


Agroforestry: new way to design & establish trees

Integrating vines & trees into field crops, Northern Italy







Nature-based forestry



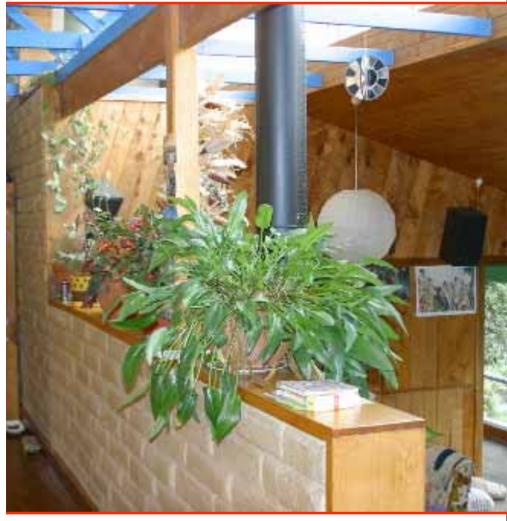
Aquatic polyculture







Ecological building & appropriate technology



Passive solar design heating & natural local materials, Melliodora

Attached solar greenhouse, Styerberg Germany



Rainwater harvesting & natural waste water treatment





Ferrocement rainwater tank fed from house roof, Fryers Forest Eco-village

Grey water treatment system Be Good Café, Seto World Expo Japan

Local economy & exchange





Community Supported Agriculture





Willing Workers On Organic Farms

City Farms & Community Gardens



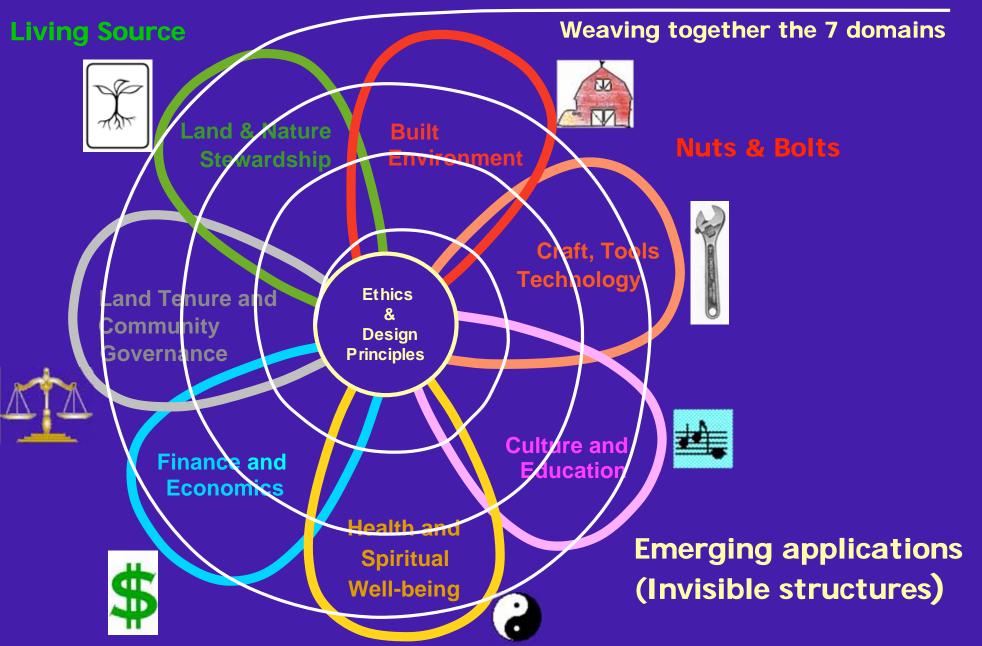
Village Terrace Co-housing at Earthaven, North Carolina

Community orchard working bee FryersForest Eco-village Central Victoria

Co-housing & Eco-villages

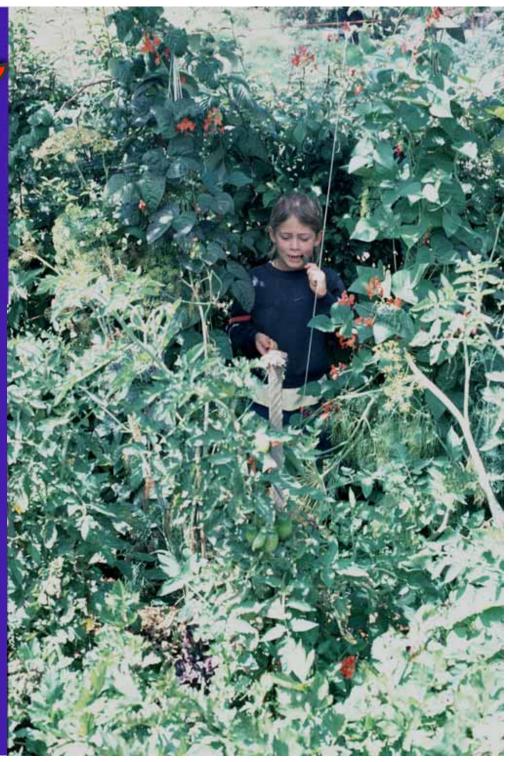
- •Ecological building & common infrastructure
- Agricultural development & enterprise
- •Community governance

Seven Domains of Permaculture Action



PermaCulture

Reclaiming Our Place In Nature



Some Permaculture References & Resources

Melliodora & Fryers Forest (Holmgren Design Services) www.holmgren.com.au

Food Forest South Australia
 www.users.bigpond.com/brookman

Permaculture (UK magazine) http://www.permaculture.co.uk/

Permaculture Activist (US magazine)
 www.permacultureactivist.net/

• Permaculture: A designers manual by Bill Mollison 1988

The Earth Care Manual by Patrick Whitefield 2004



• Permaculture: Principles and Pathways Beyond Sustainability by David Holmgren 2002

