



NF Round Table Discussion 議論

1. Farming ethics 農耕倫理？
2. Role of "weeds" 雜草的價值？
3. Healthier Soil 健康土壤的指標？
4. Watering and Irrigation 水份的管理
5. Plant Protection 植物的保護
6. NF in TW 台灣的例子

Farming ethics

Farming → painful



the earth is cursed on your account; 地必因你的緣故受咒詛

1. in **pain** you will get your food from it all your life.
2. **thorns and waste plants** will come up, and the plants of the field will be your food;

my ECOFARM _ non-Eden-like



Farming ethics

Malfunctioned agriculture 失真的農業



1. Motivation 動機
“**NEEDS**” food → “**DESIRE**” cash
『食物』 或 『瑪門』
2. Sustainability 農業可持續性？

productivity-oriented

- ✓ **chemicals**
農藥、化肥
- ✓ **industrialized**
企業化



農藥逕流 + 動物糞尿 + 塑料廢棄物

Farming ethics

Bible based...land ethics 土地倫理

Christ-centered agriculture

Ownership farmer is not the landlord
大地 屬 神 權

Life keeper man is unable to make it grow
生長 屬 神 能

Stewardship sustainable for all creatures
萬物 屬 神 愛



馬騰永

Farming ethics

technology...**capacity** ... ecology

Ecology

>> ? faith

Economics



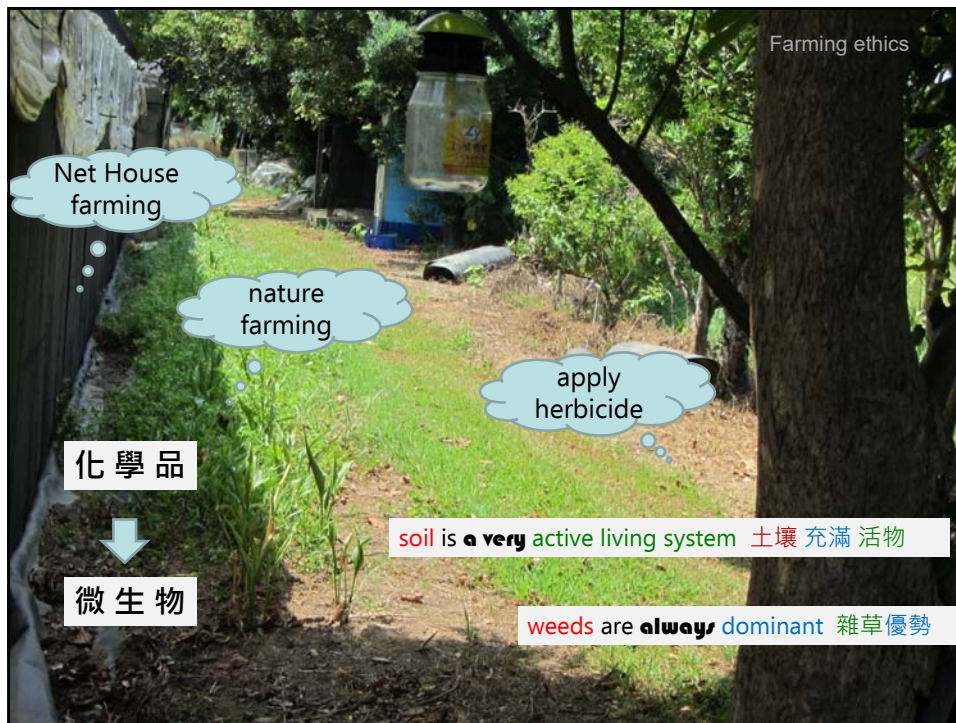
Ecosystem -dependent



Technology -dependent

farming is a living FAITH
信心農業

Mono-cropping



Round Table Discussion

1. Role of "weeds"

unwanted plants

Weeds are good for your garden ? !

thinking

INCREASE PRODUCTIVITY TODAY!

De-weeding

Labor intensive job of NF



Summer time, it's a **10-20 day-cycle** routine work



↓
small
farming
Scale

small farmer



Round Table Discussion

2. Healthier Soil

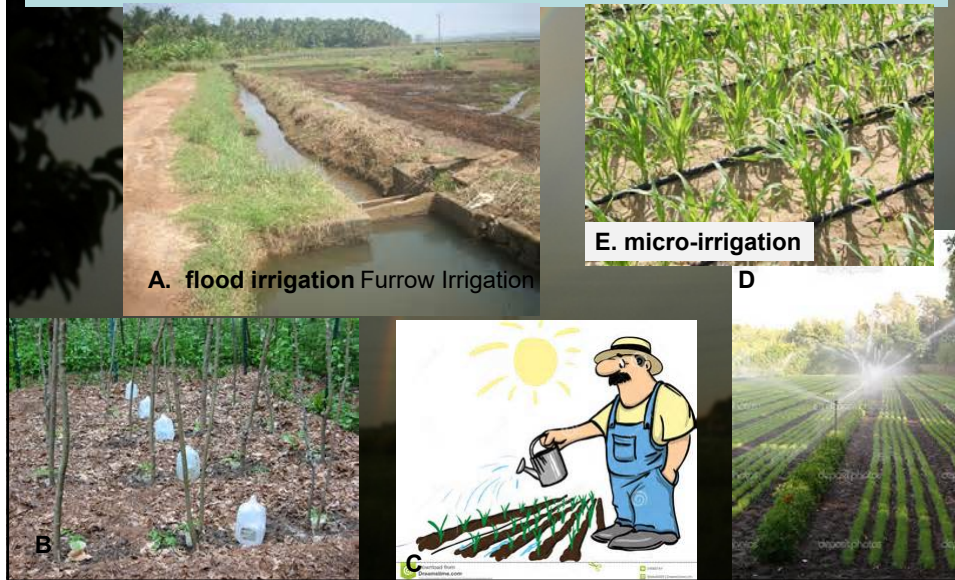
<http://www.sweet-soil.com/technology/sweetsoil-technology/soil>

Chances are, microbes do the most total work in your farm or garden.



Round Table Discussion

3. Watering and Irrigation



Round Table Discussion

4. Plant protection



agro-ecosystem

Pests and accompanying species – such as predators, parasites, pollinators, competitors and decomposers – are components of crop-associated agro-biodiversity



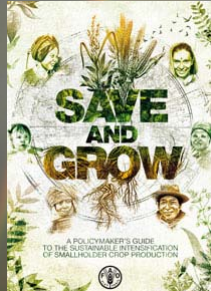
4. Plant protection

Integrated pest management, IPM

✓ **Soil management**

mulching,
organic matter

✓ **Resistant cultivar.**



✓ **Water stress**

✓ **Timing and spatial arrangement of crops**



4. Growth promoters Leaves



Flowers – for seeds

- Collect light for photosynthesis



Roots

- Absorb water and minerals

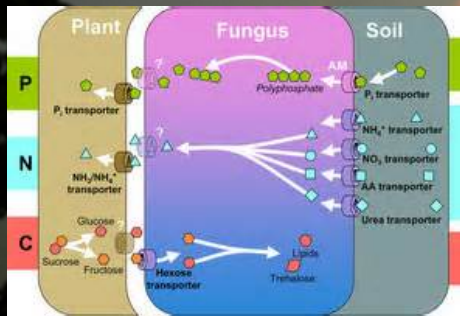
- absorb **organic compounds**



Microbes
everywhere

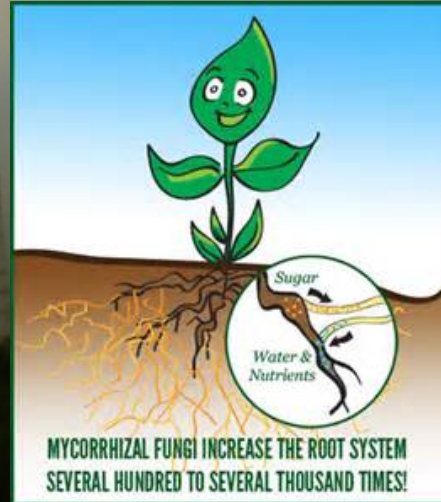
- control body **temperature** by transpiration,
- absorb nutrients

5. New Technology and Knowledge



Ecosystem consideration:

- Synergetic
- Antagonistic



NF = Healthy Plant in ecosystem

<http://www.sweet-soil.com/technology/sweetsoil-technology/holistic-management/>

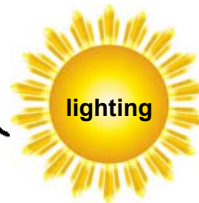
Complexity

shoot



root

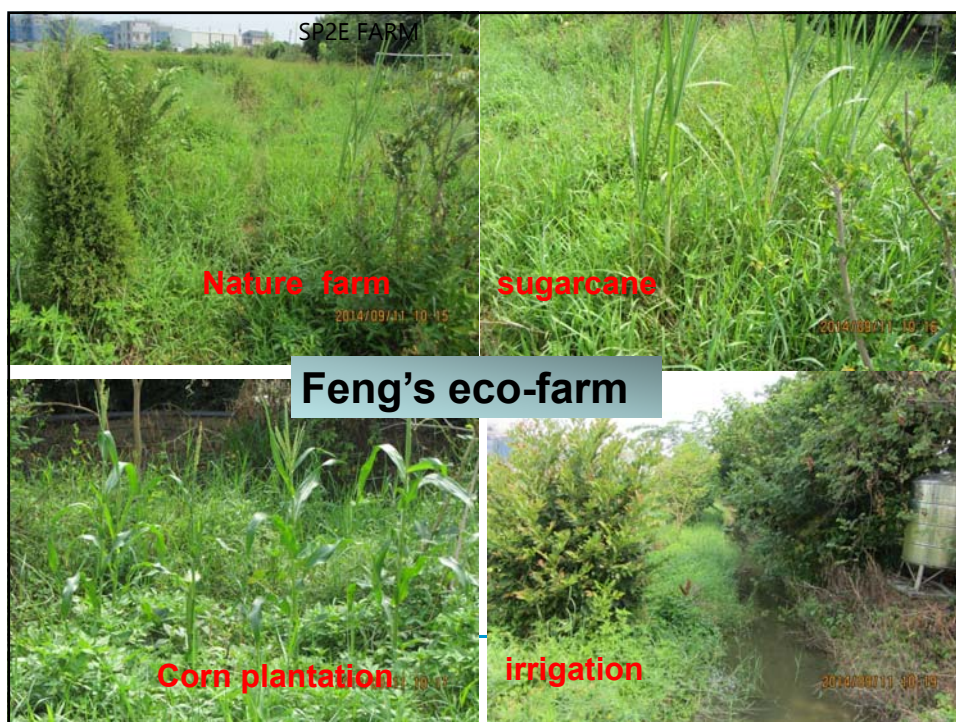
Mycorrhizal symbiosis



Earthworm underground-workers









1

國際美育自然生態基金會

1980 Mokichi Okada Association International, USA

MOA int'l

岡田茂吉

Mokichi Okada
(1882-1955)

1936, Okada established

- an agricultural system
- originally called, "**no fertilizer farming**"
- or "**Nature Farming**". 自然農法

↓

S. Korea, Taiwan, Thailand, Hawaii

Vision: Bring permanent peace & happiness to human beings

~ 300 farms certified in TW

從今天起我們的承諾更加一份保障

2007 --

Institute for Agri. Health & Environ.

2 (古早)有機農業 sustainable agri.



里仁 慈心農場 **LEEZEN**
Traditional Farming in TW



堆肥、廐肥、綠肥、敷蓋
間作、輪作是老祖先智慧



1998
(里仁為美 · 常懷慈心)



3 Aboriginal farming : agroforestry



Rev. BAI 白牧師, 20 Years



www.bunun.org.tw/

4

立川魚場 Aquafarming



蛤蜊 (Clam) · 又名 蛤蠣 · 蛤、文蛤



5

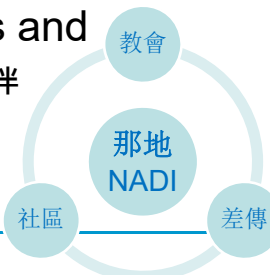
AMF 農使團 _ NADI 那地



- ◆ **NADI Natural Agriculture Development Institute**__ a platform for “Creation Care and the Gospel”

實踐 『福音要關愛受造世界』

- ◆ To serve Church members and Missionaries 教會與宣教士的伙伴



Farming is delighting our **eyes** and good for **food**

宜蘭3.0

建立台灣成為現代新農業矽谷

幸福台灣的鋪路工程



- ◆ 農業是生物經濟之母
- ◆ 台灣是熱帶農業強國
- ◆ 宜蘭是新農業典範
- ◆ 生物科技 + 電子資訊
- ◆ 宜蘭 台灣 中國 / 亞洲

3.0 