

FoodFactory *foundation*



Ecologically sustainable industrial farming

THE FOODFACTORY PROJECT

Drs. Bart Hogebrink

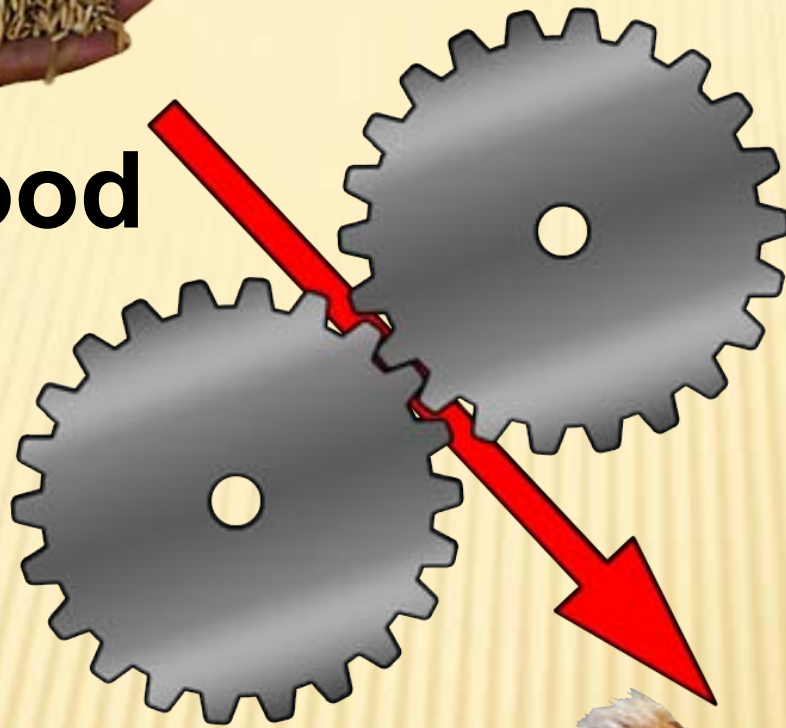
Finish your meal! Some don't have food!







2 Kg Food



1 Kg Food





2 Kg



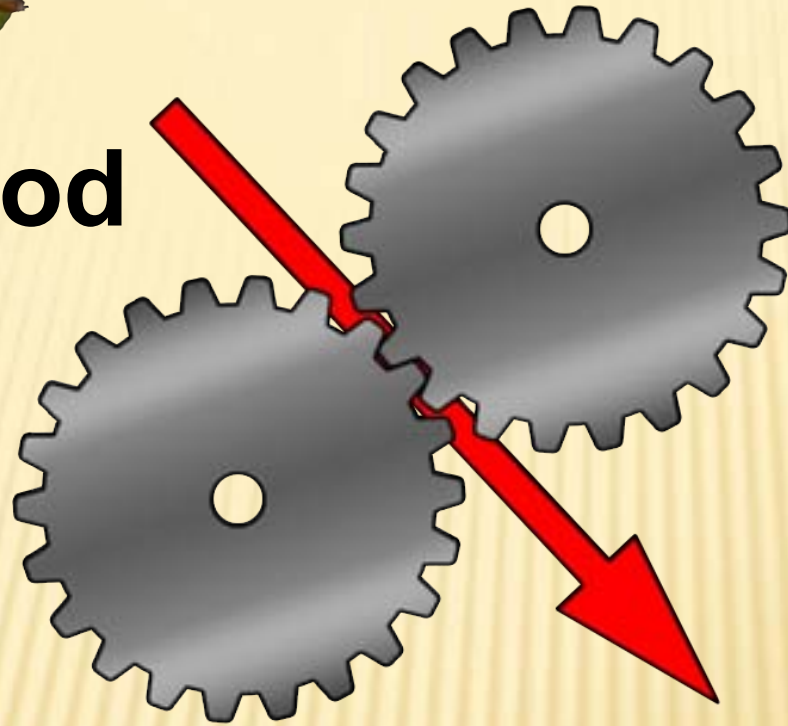
1 Kg Food







Non-Food



Food!



Non-F



d!







Not Invented Yet

CONTEST

For socially relevant innovations

FoodFactory

✘ 2007: Winning idea



NOT
INVENTED
YET



FoodFactory Foundation

✘ 2008:

- + Founding of the FoodFactory Foundation

✘ Goal:

- + To overcome the factors that are limiting the success of entomophagy in alleviating world hunger



INSECTS vs CATTLE:

- ✗ 10 times more efficient
- ✗ Less fat & more proteins
- ✗ Reproduce much faster
- ✗ Need far less living space
- ✗ Can eat biological waste



Success Limiting Factors

1. Short harvesting period
2. Overharvesting
3. Pesticides on crops
4. Hand-picked, no rearing
5. Little infrastructure
6. Western influences: Taboo



Evolution of Food Security

Hunting



Farming



Industrial Farming

Why Industrial Farming?

- ✘ No need to catch saves \$\$
- ✘ Controllable & scalable
- ✘ No risk of extinction
- ✘ Not susceptible to droughts
- ✘ Higher food safety



3 Approaches

1. Disaster Area

2. Villages with NGO

3. Rural



1. Disaster Area: needs external supply



1. Inspiration: School In A Can



1. Inspiration: Insect Farm in Holland



1. Inspiration: Medical Containers



1. Solution: FoodFactory in a container!



1. Solution: FoodFactory in a container!

+ Local

+ Scalable

+ Reliable

— Can not be built locally



Approach 1

1. Disaster area / Urban

- + Pre-fab building blocks
- + Capable of insect killing, cleaning & conserving
- + Reliable, large & season independent production
- + Low operation costs



2: Villages with NGO: Inspiration



2: Villages with NGO: Inspiration



1. Solution: Locally built FoodFactory!

+ Efficient food production

+ Can be built locally

— Requires external knowledge / NGO



3 Approaches

1. Disaster Area ✓

2. Villages with NGO ✓

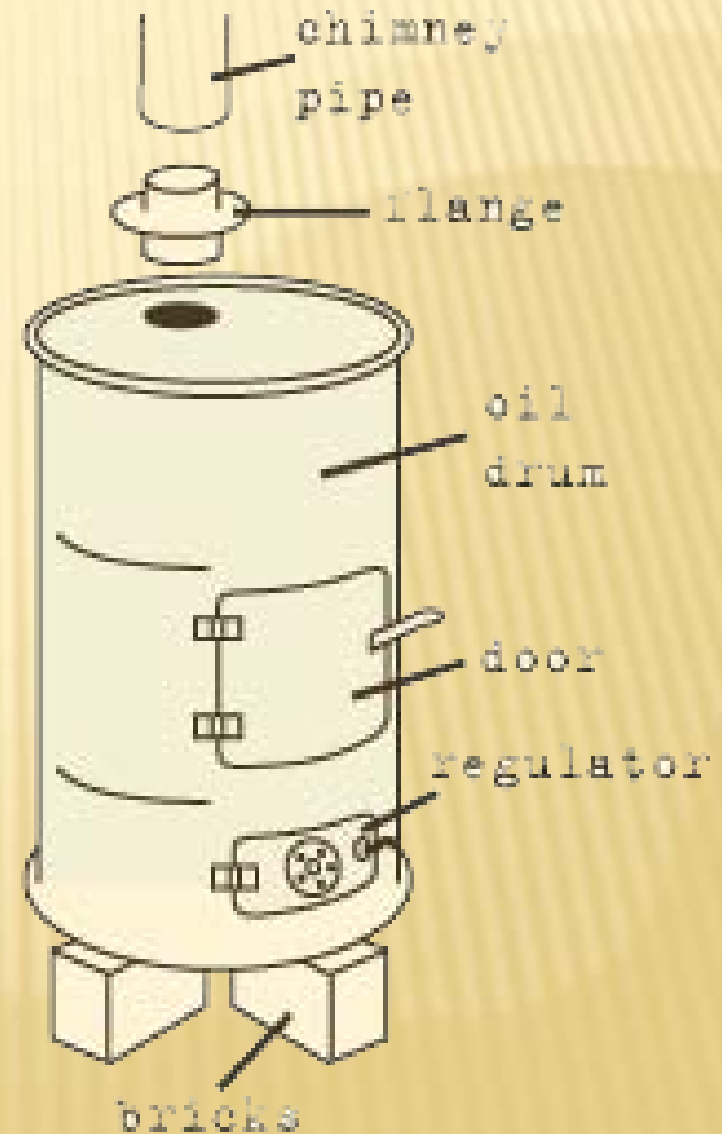
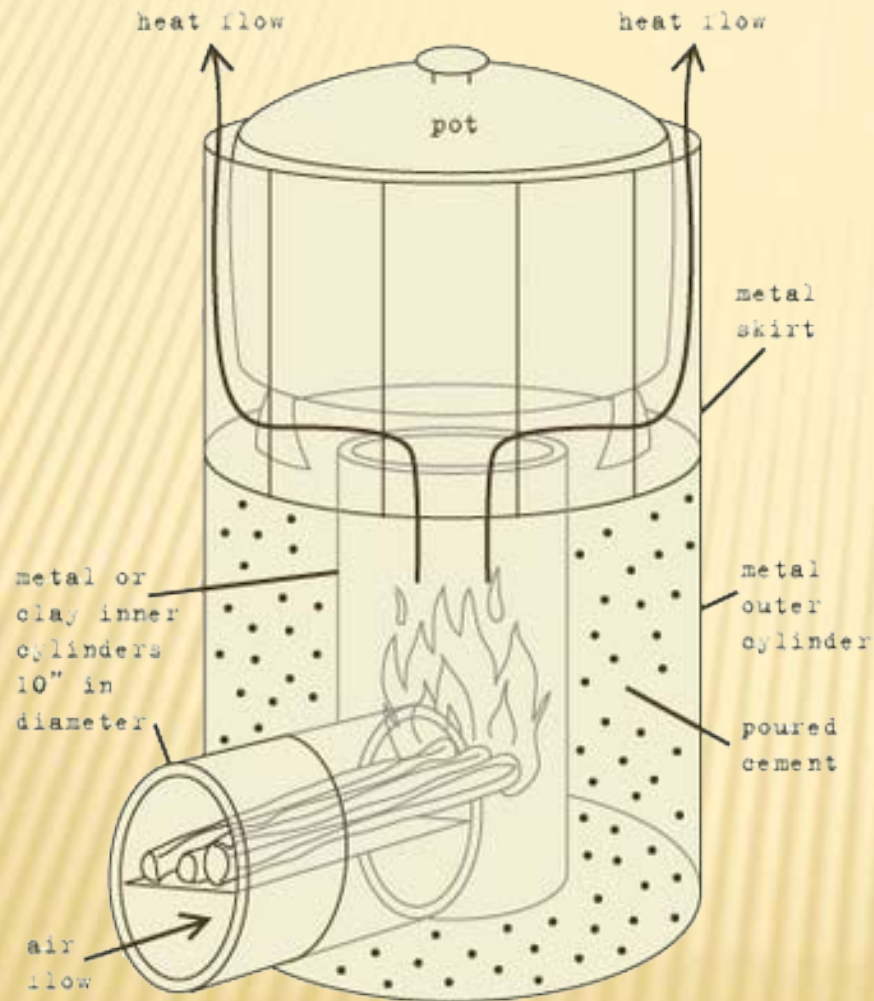
3. Rural ✗

3: Rural FoodFactory

2. Challenges:

- + No budget
- + No control / supervision
- + No transportation
- + Unknown languages

3: Rural: Inspiration



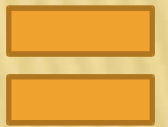
3: Rural: Inspiration



3: Rural: Inspiration



3: Rural: Inspiration



3: Solution: Diagram on oil-drum!



Approach 3

2. Properties

- + Very easy to built & maintain
- + Uses local scrap metal
- + Building knowledge can be quickly distributed
- + Language independent



3 Approaches to alleviate Hunger



1. Disaster Area

External food supply → **Local food supply**



2. Villages with NGO

Expensive animal proteins → **cheap proteins**

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THE END

of starvation?

www.foodfactoryfoundation.org