

Group 4 project options



5EyesFarm-Lab



Danti and Jonathan co-founded 5EyesFarm-Lab in 2016.

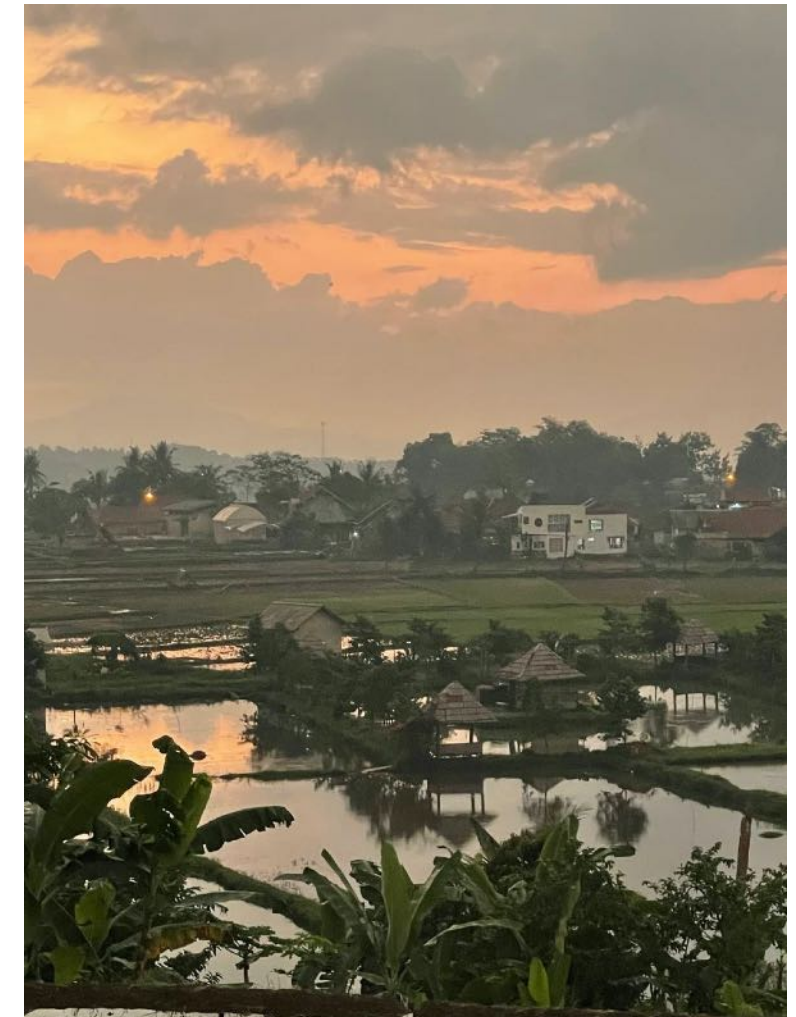
We innovate, build, farm and teach following North Star Values derived from the SDGs.

Our North Stars (SDGs):

- Production & Consumption Responsible food and agriculture practices
 - Waste Management Recycles, upcycles, reduces, and reuses
- Wildlife & Ecosystems Supports conservation of native habitats, land and marine life

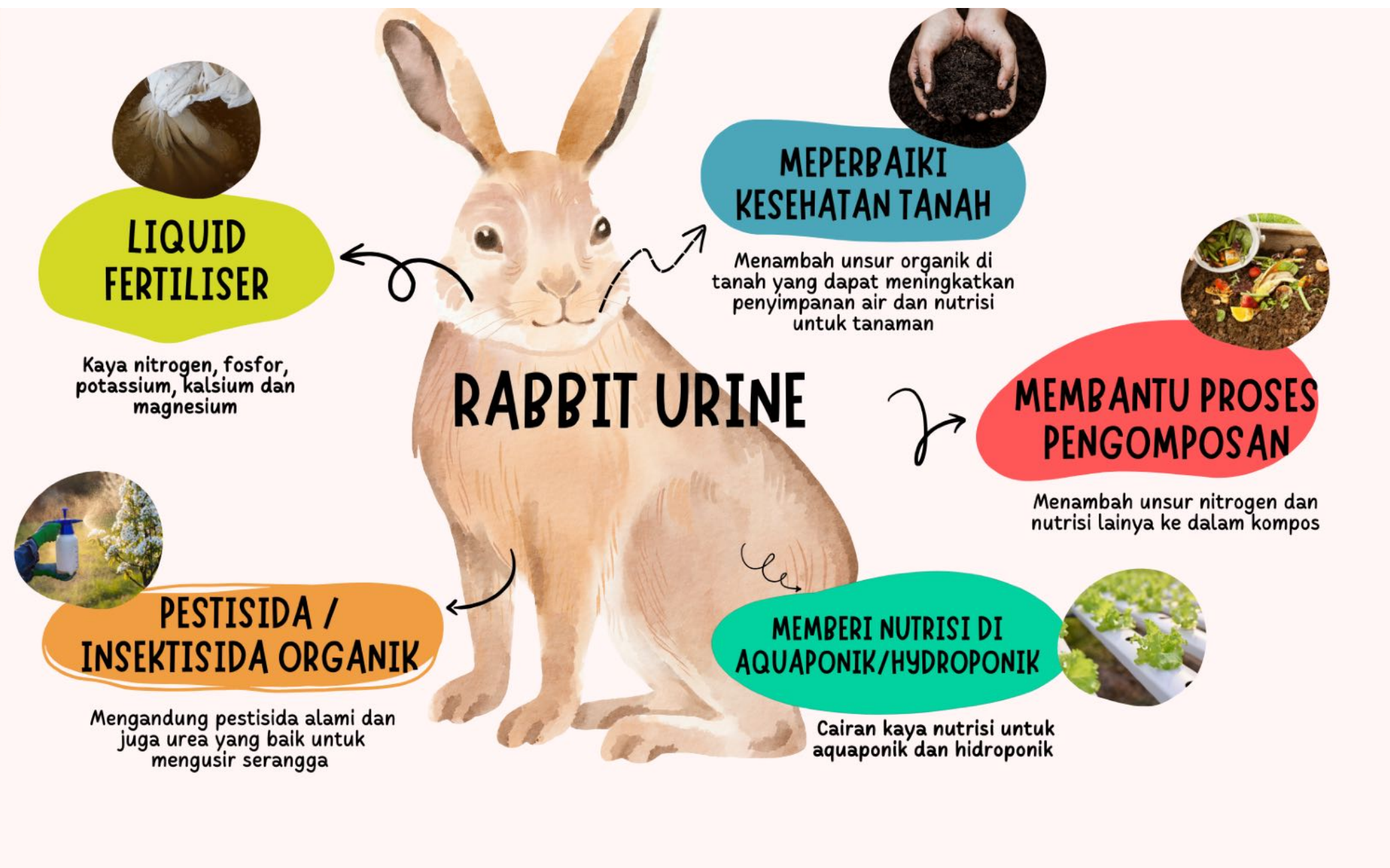
5EyesFarm-Lab is on Gulung Salak in the Bogor Regency just outside Jakarta.

We offer to work with teachers to develop curated field trips for students to examine and discover real-life experiences of the sciences, eco/bio and sustainability.





Students can explore the science more deeply and practically on a number of the projects we have going. Choose two or three of the following and we can develop these further.



1

Raising Rabbits:
Life cycle, food, habitat management, water, health, disease, costs/profit, cross benefit and integrations.
We raise rabbits for the use of their waste and to sell them.

Student explore the conversion of rabbit waste and study it's various applications to natural, contemporary farming practices.



2

Bees, wasps and other pollinators:
Various species of bees and wasps inhabit the farm. It is a clean environment for these other wise sensitive creatures and they do important jobs. The paper wasp controls the proliferation of caterpillar and the honey bee pollinates the fruits and pvegetables (examples of bio- technology

3

Propagation



Rather than buying seeds or plants (issues with GMOs, hybridisation or quality) propagating what we have allows us to expand upon what works. For example, one old lemon tree has become many good lemon trees from the same stock. Come and learn some propagation techniques.

MICRO- CLIMATE

4

What grows where? We are located at a certain altitude and upon certain coordinates that along with the terrain and elevation, water availability and quality, dictate what can grow here. There are large number of fruit, vegetable, roots, berries, herbs, spices, flowers, medicinal species and a larger number of varieties within these species growing here. We are using mixed cropping techniques following Permaculture principles and establishing vertically layered forest gardens. These work in the specific micro climate with less maintenance.

Hunting

MICRO-ORGANISMS

5

An interesting way to understand the importance of soil, that soil is not dirt but rather a living substrate teeming with vitality and organic life, is to trap indigenous microorganisms. We do this following Natural Farming principles by setting a rice trap to capture, then freeze, then propagate micro organisms from one part of the farm into the soil. While we lack the equipment to analyse soil, can gauge soil health via pH, and physical examinations of humus quality. We can also monitor soil conditions by adding bio char, various composts and indigenous micro organisms.

Soil
to spoon

6

Regeneration

Reading soils. Ours is a clay soil. It deeply traps volcanic minerals. This is good for tree life when tap roots grow deep. However the soil type and environment means top soil washes away easily (valuable humus for shallow growing plants). So we Crete raised beds to mitigate the wash off, containing soil and allowing for soil regeneration and improvement.

Fermentation

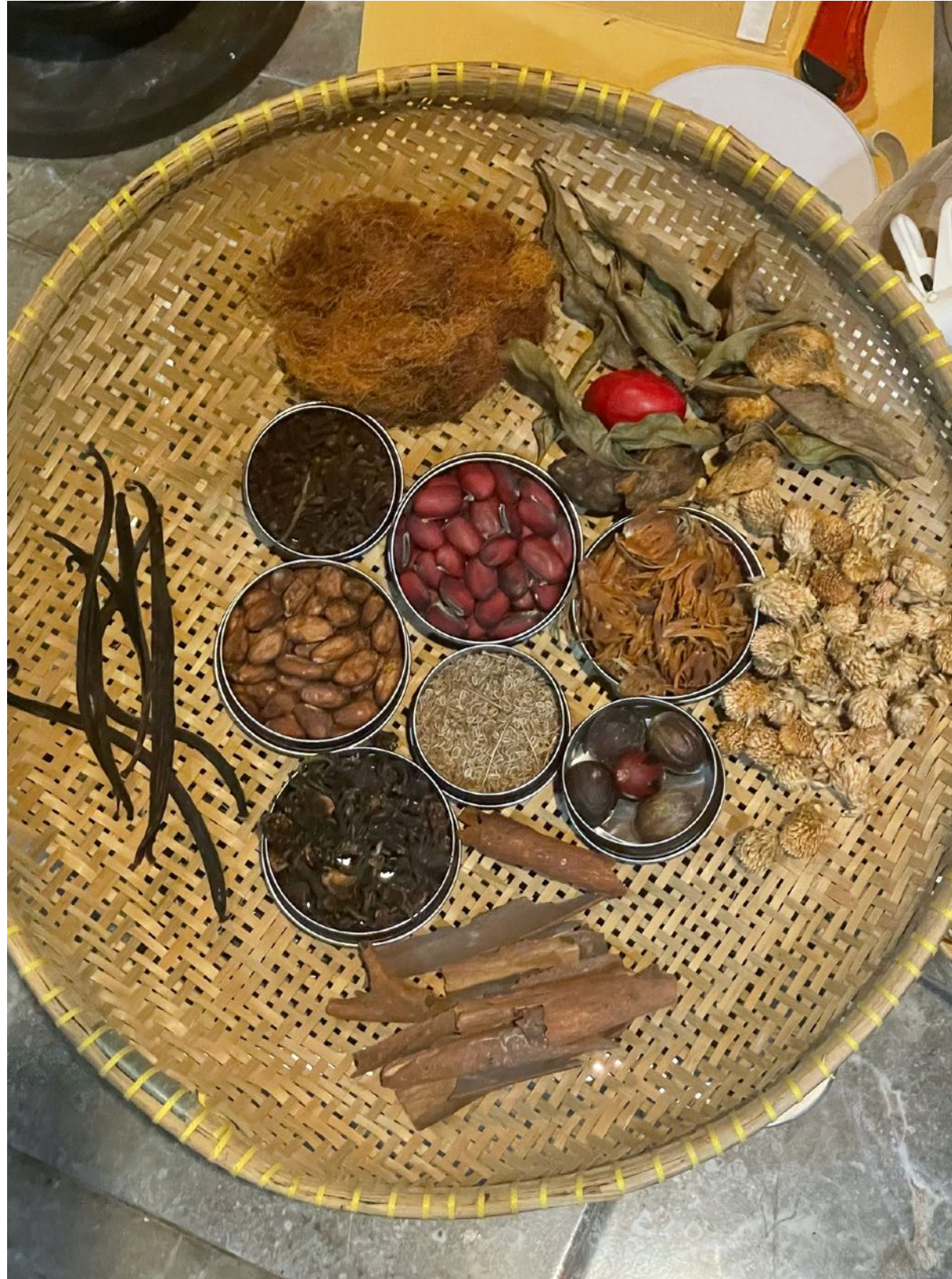
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Two different fermentation applications:

1. Food includes dairy (cheese), vinegar, probiotics, coffee processing, vanilla processing, wine making.
2. Waste conversion to fertiliser and animal food.

Students can deep dive into fermentation to understand the processes, the bacteria, yeast, enzym and control of both food and waste conversion ferments. This is an interesting bio tech and food security skill set and knowledge base.

medicinal properties



8

Students explore
and research
where medicines
are derived and
how they
are developed
and
understood.



Please choose 2-3 areas to explore in more depth. We can provide guiding content, some links and research ideas before you come to the farm. Our main focus is practical science around the topics you choose and we are happy to work closely with teachers in presenting any specific area of teaching.

The cost for a Group 4 FieldTrip is Rp. 550,000.00 pp. and includes farm made refreshements, a buffet style lunch, guiding, leading and teaching.

An additional service is offered for escorting your bus from Dramaga to the farm. This is helpful and includes organising bus parking for the day.

The cost for this is 1.1 juta per bus and this is paid to the Purwasari village leadership.

Please indicate further interest by choosing up to three areas to explore further, or requesting a different approach. This is a guide only and we are mindful that your department has its own teaching prerogatives.





Notes on next steps:

- Site safety audit
- facilities
- what to bring and not bring
- confirm number of students, teachers, drivers
- confirm number and size of bus
- confirm areas to develop for student engagement.
- invoice costs and deposit.

Example schedule

A one-day field trip starts early with our driver escort meeting your bus/s at the toll turn off and guiding you to 5eyesfarm. You will be met with welcome refreshments before a briefing and then we start with a quick tour of the farm. Before leaping into to the areas you choose to concentrate on, we will have a morning tea/ break- then to work on project areas. Buffet style lunch is served at 12.30 pm with enough variety to please all.

After lunch we will consolidate our morning work and findings and you will leave at 2.30 -3.00 pm to return to school.

Available times

Friday's are the best for Field-Trips

We are flexible with dates

We need some time to prepare catering and the 20% upfront deposit allows us to lock in your preferred week.

We are happy to discuss and to address any further questions and work out more details with you as needed.