

Why it is SavvyLoo unique ...



... SavvyLoo

SavvyLoo is designed to ...



- **Separate** urine and from faeces
- **Desiccate** the faeces, producing a dry bio-solid
- **Eliminate pathogens** using a ventilated drying process and solar heat

What makes it unique?



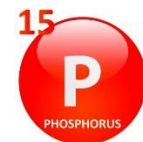
- **Only service once-a-month to remove bio-solids**



- **No chemicals, sewer pipe or septic tank is required, and no sludge to manage**

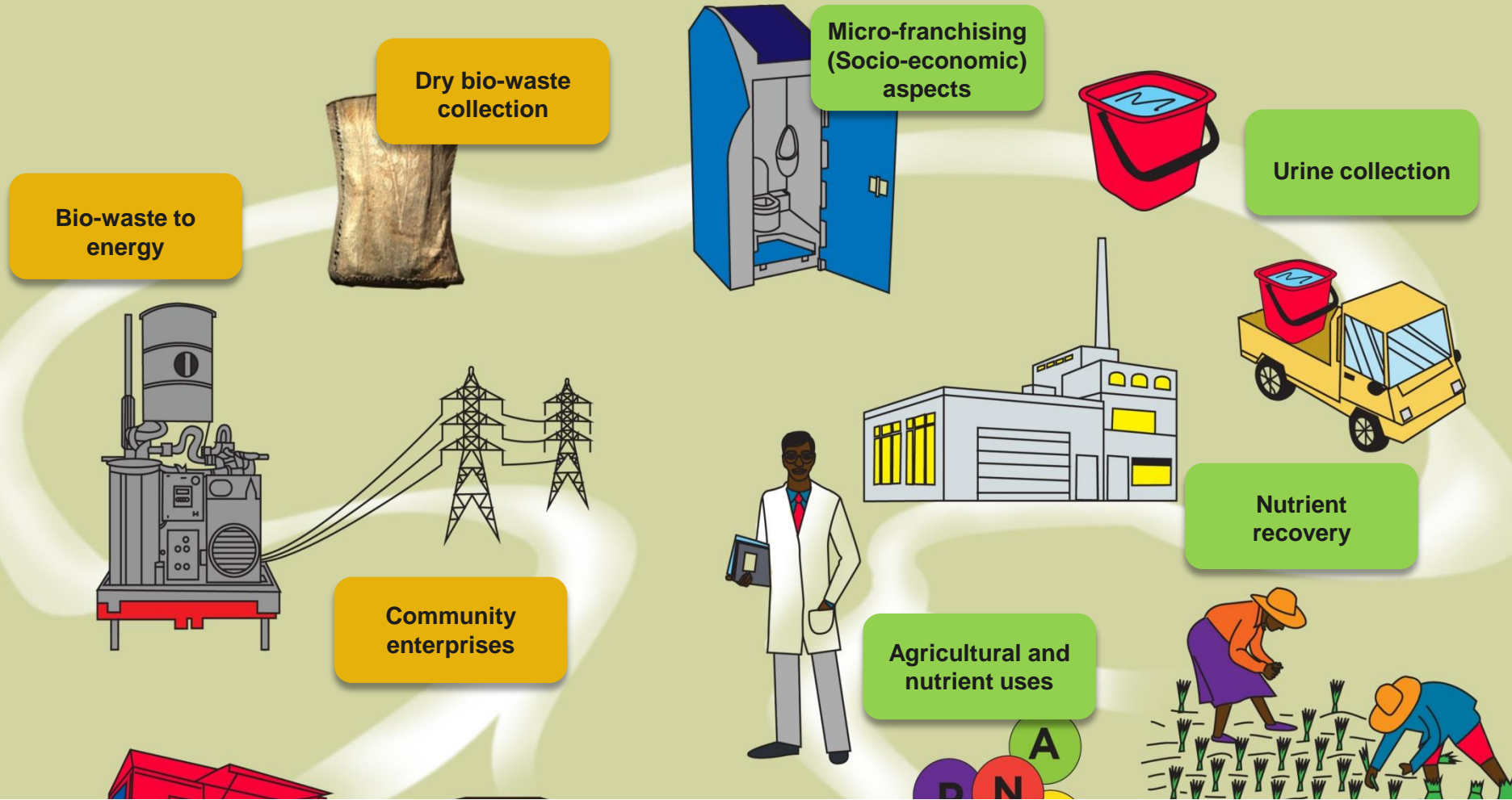


- **Energy from dry bio-waste (1kg = 1 Kw), and**



- **Nutrients from urine**

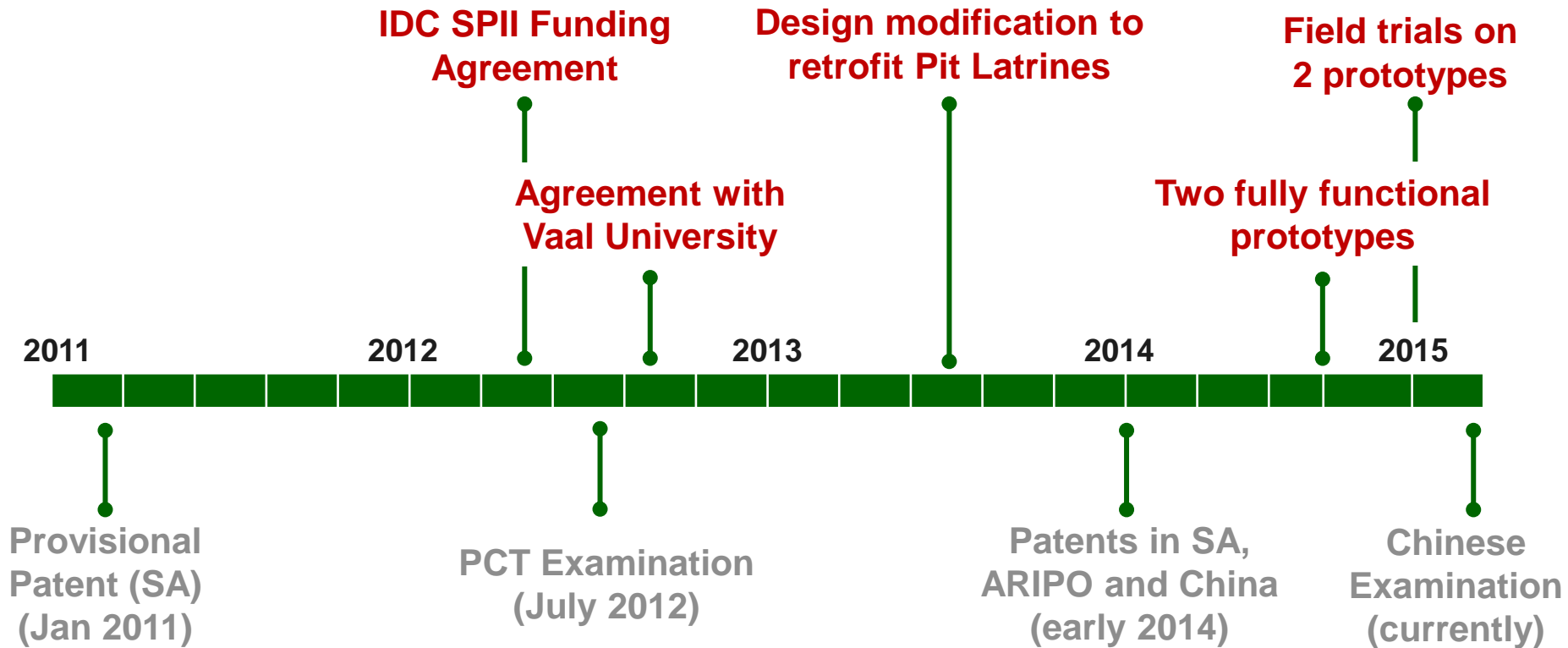
SavvyLoo's business model ...



Dry bio-waste is excellent fuel for energy ...

Valuable nutrients like phosphorous and nitrates found in urine

Where is SavvyLoo today ...



First two field trials ...



Field trials using two alpha prototypes at VUT campus – one mechanically activated and one activated using solar energy.

Six tests in progress:

- ✓ 1. Liquid separation based on viscosity.
- ✓ 2. Mechanism and rotational function.
- ✓ 3. Movement of solids through the system
- ? 4. Drying of solids - 10% to 20% (**ideal <10%**).
- ? 5. Temperature and greenhouse effect - 54°C (**ideal > 60°C**).
- ✓ 6. Duration of solids from drop to exit - 3 days.



Two prototypes: SavvyLoo toilet with foot activator (left) and a cross-section of the dry faecal matter (right).