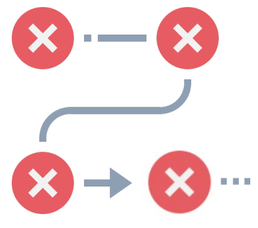
# Reactron – AI-automated reactions made simple

Institute for Engineering Leadership
College of Design and Engineering

Reactron is an AI-driven reaction automizer system. With Reactron, researchers can automate mundane and repetitive reactions and focus on the most important tasks. Initial deployment will be within agrochemical R&D.

## Problem

**Researcher seeks new formulations**



**Costly Trial & Error trials**

**Highly inefficient processes**

- Frustrates the researcher
- Wastes precious lab time
- Consumes more materials
- Adds unnecessary wage costs

## Product


- Fully automated reactions targeting agrochemical R&D
-Reduced contamination
- Readable results

## Solution

Specify ideal compound in Reactron → Reactron iterates reactions → Collect your results

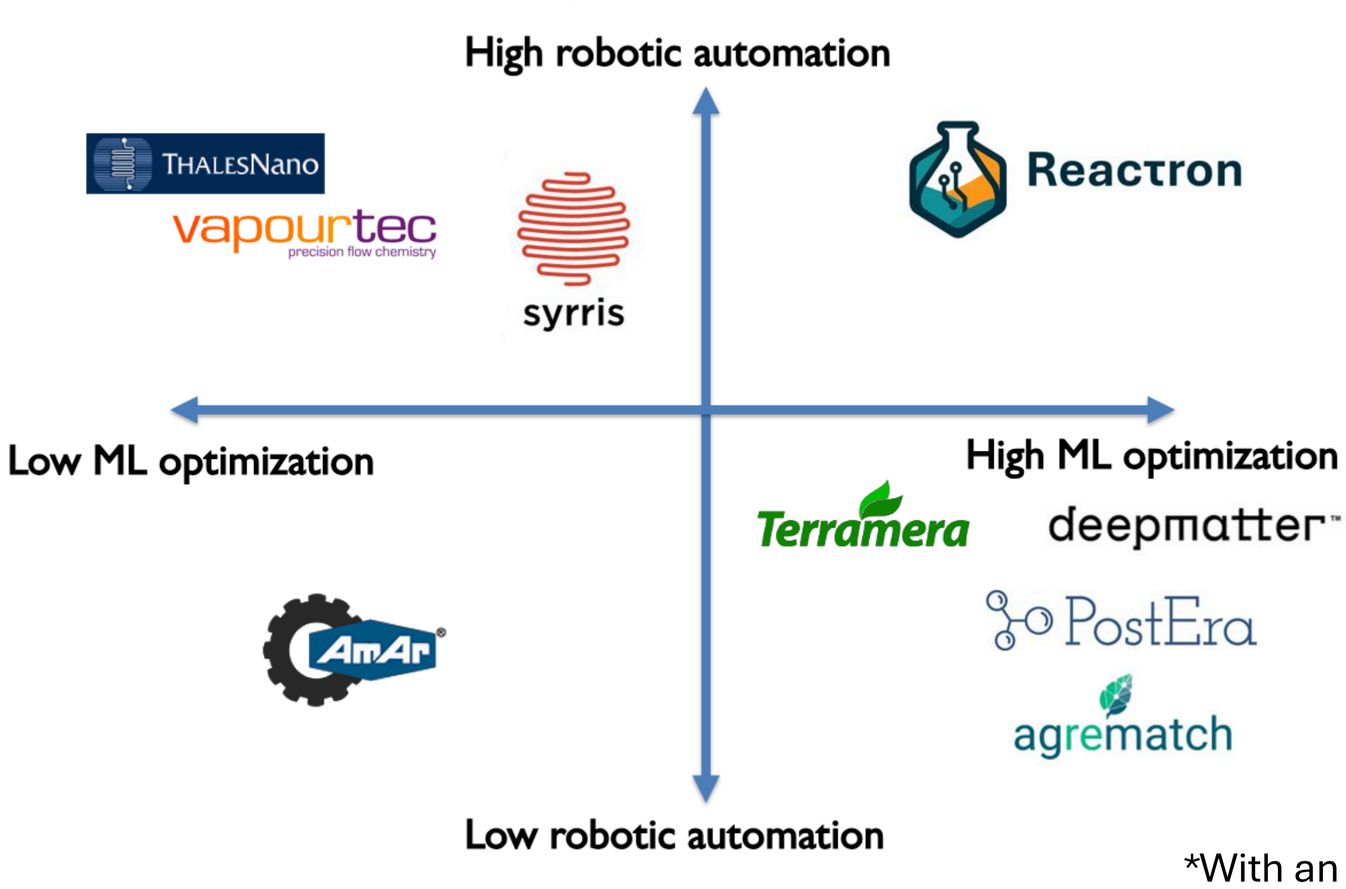
## Benefits

- **Efficient**
  - 6x faster than human experimentation
- **Easy to use**
  - **Safe** (closed system reactions)
  - **Flexible** (modular and scalable)

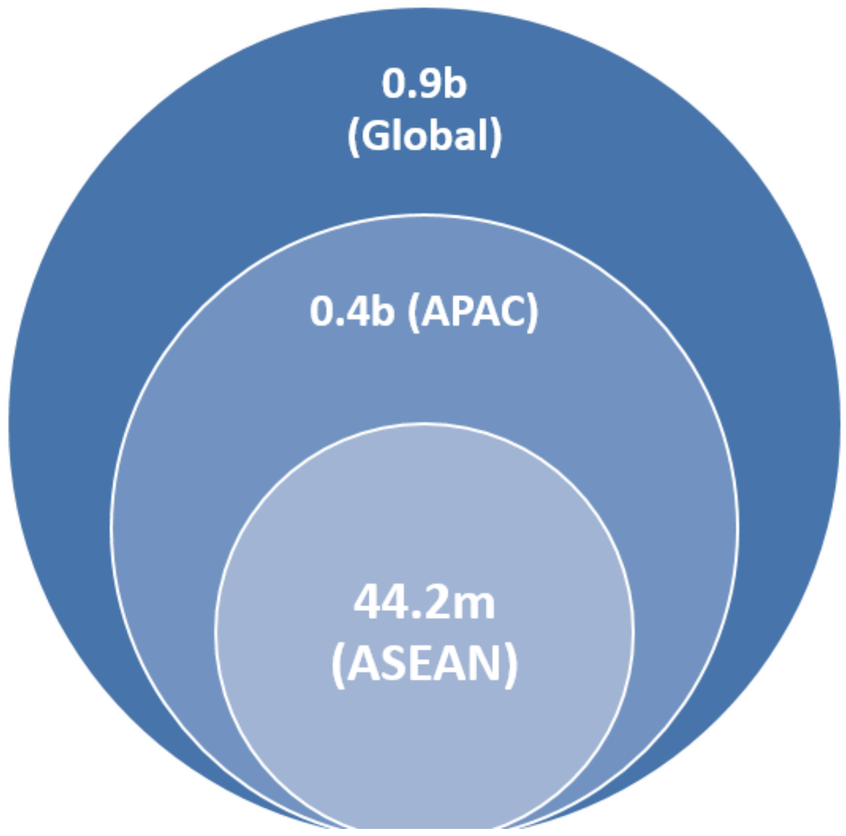
## Technology

- State-of-the-art machine learning feedback loop integratable with any system of sensors and output nodes (patent pending)
- Designed to respond to external factors such as humidity and sun exposure

## Competitor analysis

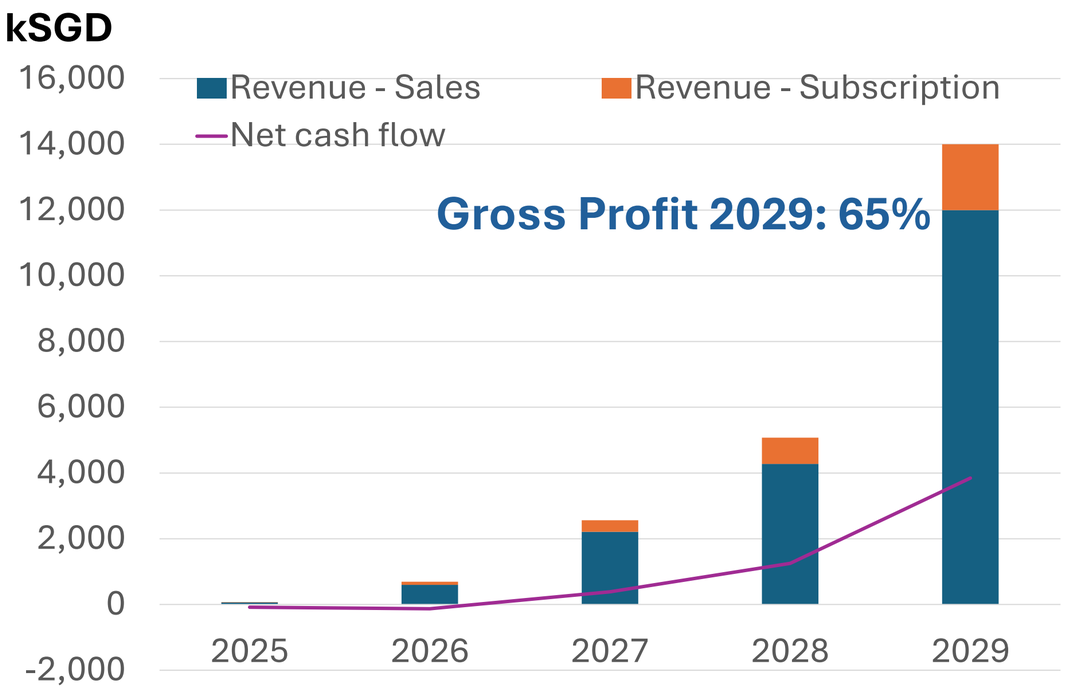



## Beachhead Market size:




*With an overall AI-adoptable R&D market of $39.2b at 7.6% CAGR

## Financials




## Future applications

Cosmetics, food & beverages, dye manufacturing, personalized cosmetics, and research education.

## Team & Contact

The Reactron core-team holds more than 40 years of collective experience in chemical engineering and is supported by an international team of systems engineers, MBAs, and natural sciences PhDs.

Interested? Talk to us here: stella_nsy@nus.edu.sg