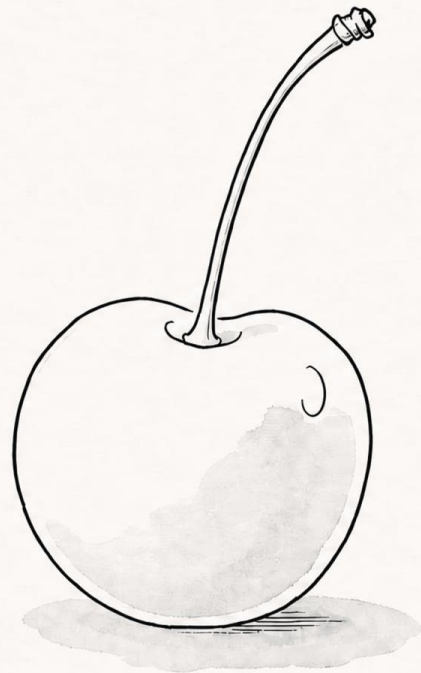


Future Technologies for Efficiencies.

Cherry 2026

Sam Turner



Who am I?

Sam Turner

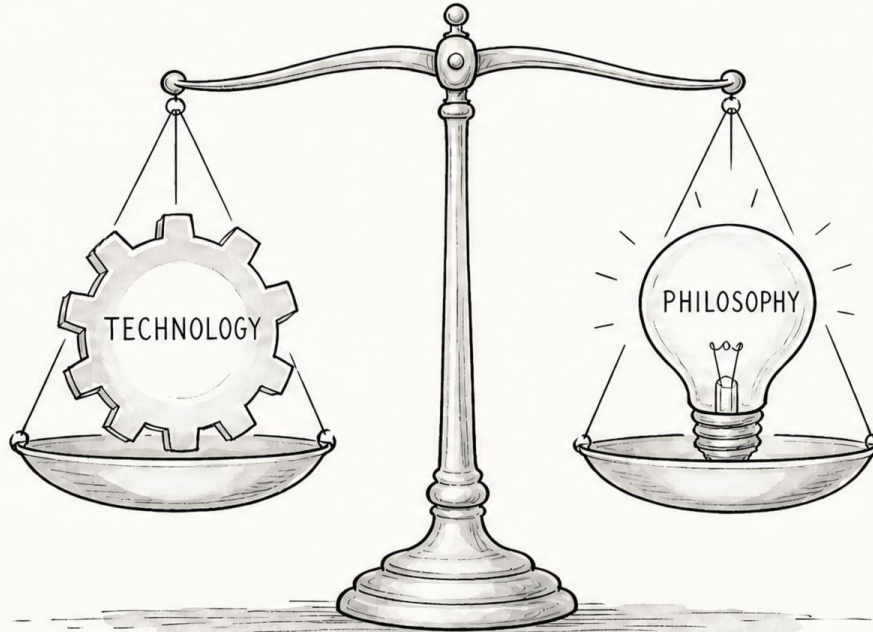
- Agronomy
- AgTech Adoption
- Digital transformation
- Deep Tech startup



Technology vs. Philosophy

TECHNOLOGIES

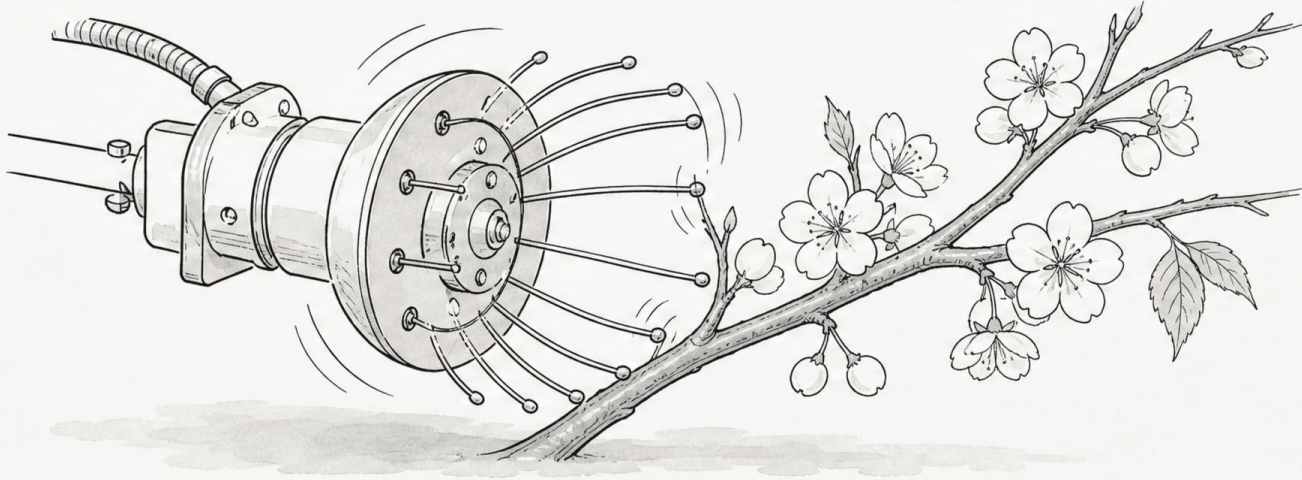
- 2D Planar
- Co-bots
- OSST Spraying
- AI Sorting



PHILOSOPHIES

- Problems Before Solutions
- ROI over R&D
- Small Teams/Big Results

Precision Thinning: Automated Cost Control.



Ⓘ

*Manual thinning requires
70–80 man-days
per hectare.*

Ⓙ

*Mechanical solutions like
PEK Agrobot
reduce costs by 3x.*

Ⓚ

*Early intervention ensures
optimal
fruit size.*

Collaborative Robotics: The “Co-bot” Advantage.



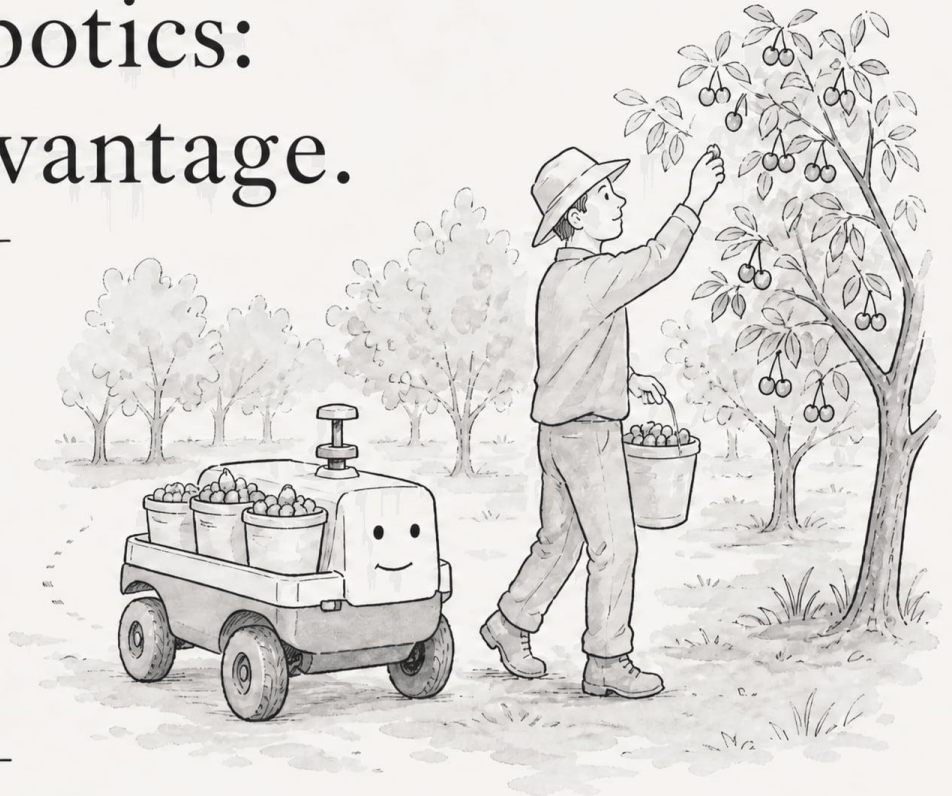
Move away from high-power tractors toward lightweight “co-bots”.



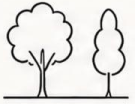
Platforms like Burro carry 500kg and automate transit.



ROI in 3–4 years by reallocating staff to picking.



Orchard Re-engineering:



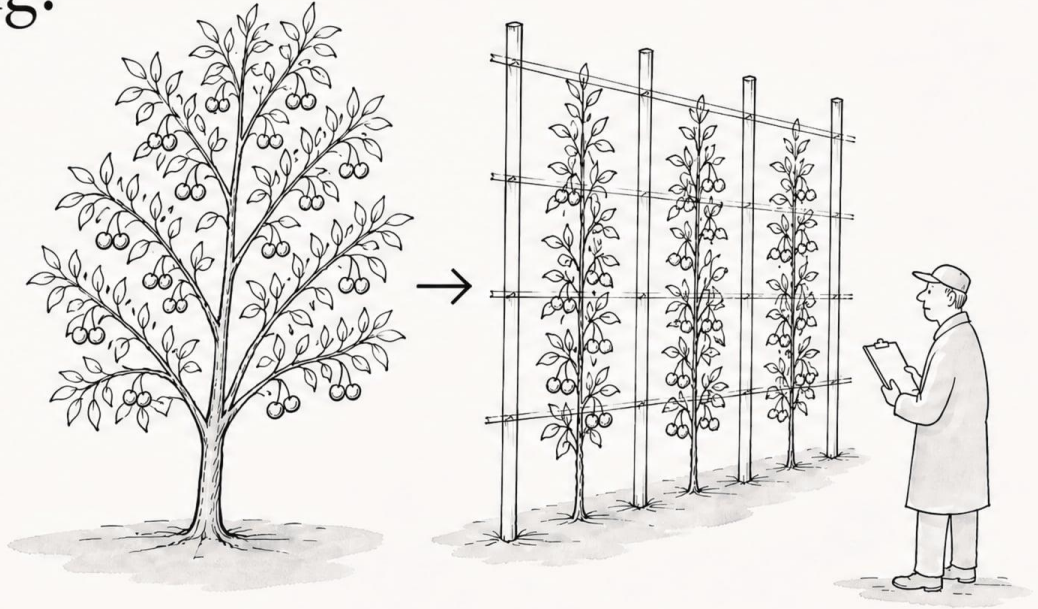
Transitioning to 2D
planar systems (UFO/V-trellis)



Structured vertical walls
for light and quality



The prerequisite for
robotic automation



Smarter Spraying: 90% Chemical Reduction.



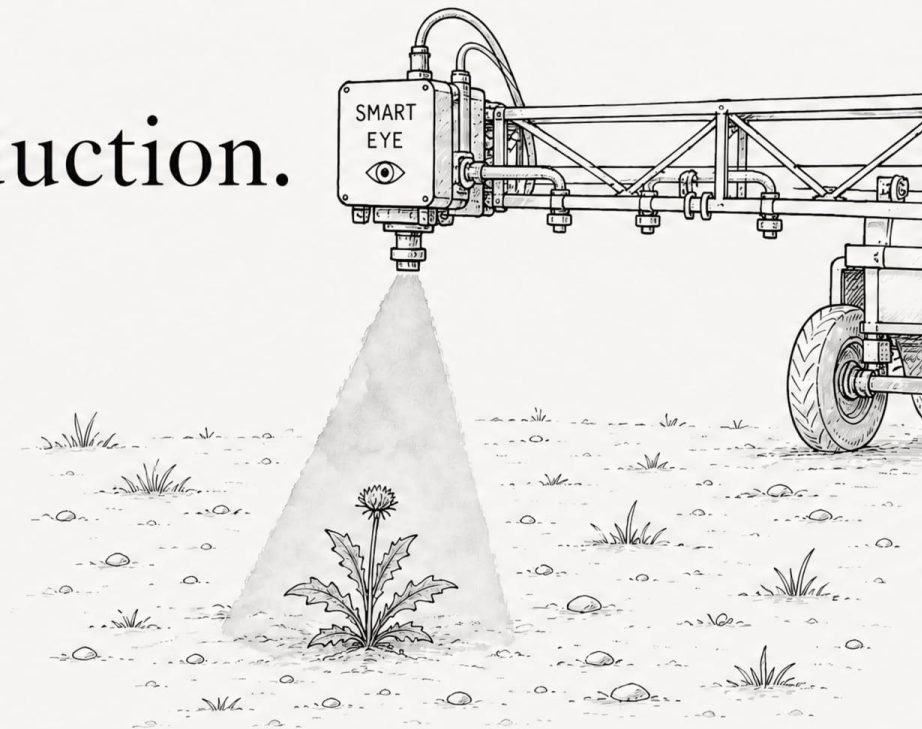
Optical Spot-Spraying Technology (OSST)
targets only active weeds.



Systems like WEED-IT Quadro reduce
herbicide use by up to 95%.



Pairing variable-rate spraying with
AI weather data saves six-figure sums.



AI and Post-Harvest: Protecting Your Brand.



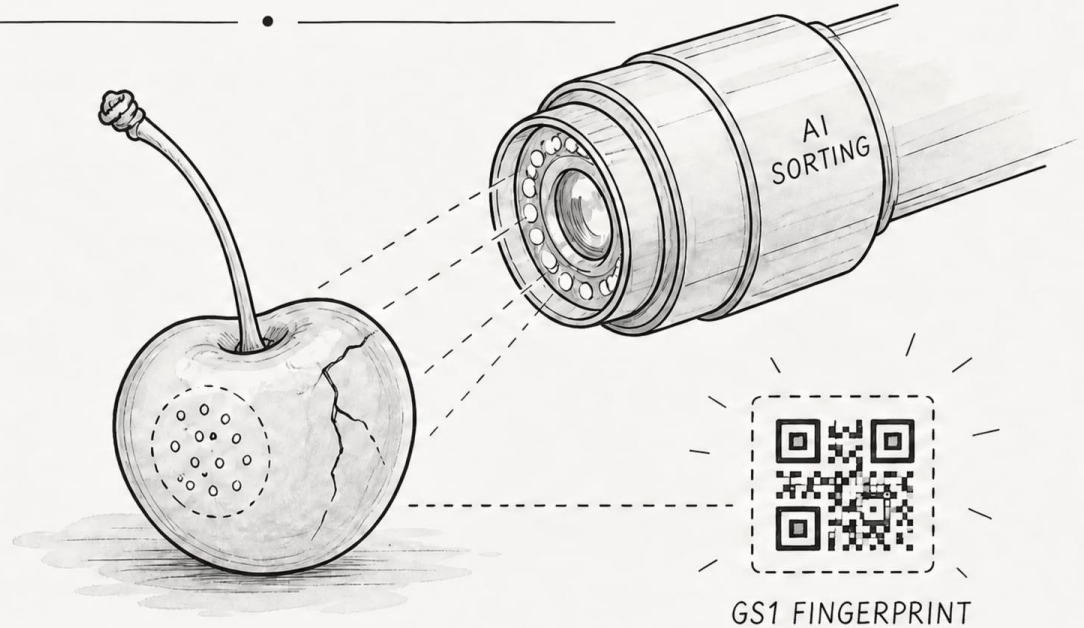
*Rapid cooling
(2°C within 60 mins)
is critical.*



*AI sorting detects
internal sugar and
external cracks.*



*GS1 traceability
protects against
counterfeiting.*



Biologicals and Supply Chain Resilience.



Fragile global supply chains
for fertilizers and chemicals.



Rise of biological agro-chemistry:
biostimulants and biocontrol.



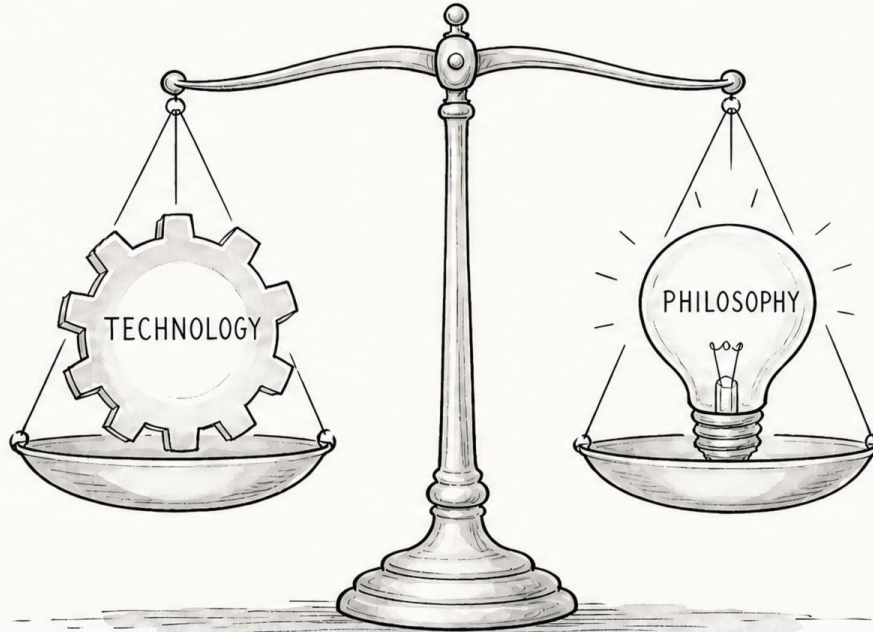
Sovereign capability through
on-farm biological solutions.



Technology vs. Philosophy

TECHNOLOGIES

- 2D Planar
- Co-bots
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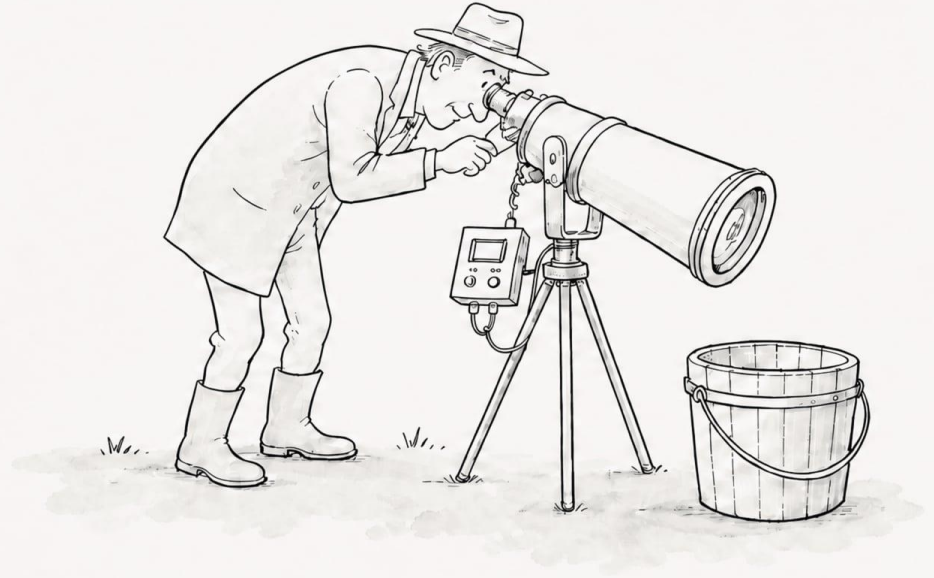


PHILOSOPHIES

- Problems Before Solutions
- ROI over R&D
- Small Teams/Big Results

The Golden Rule: Problems Before Solutions.

- I | Avoid “shiny object” syndrome.
- II | Identify bottlenecks.
- III | Tool must serve the task.



The Partner Trap: Solving Problems, Not Funding Experiments.



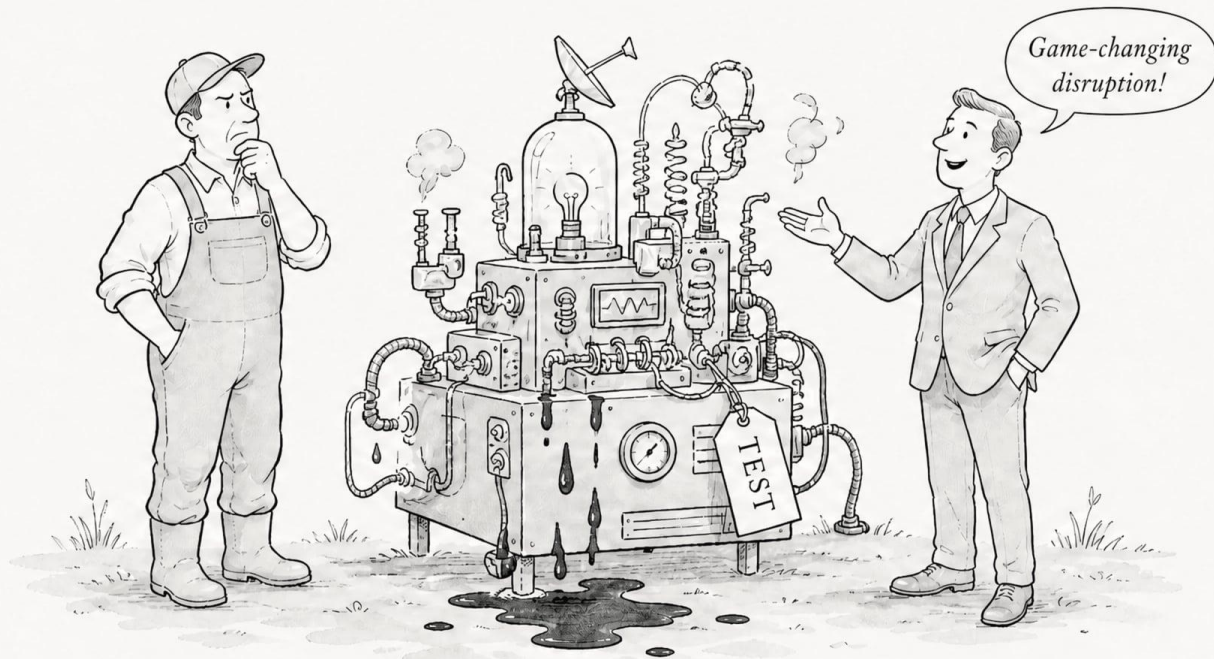
Be cautious of emerging tech using growers for R&D.



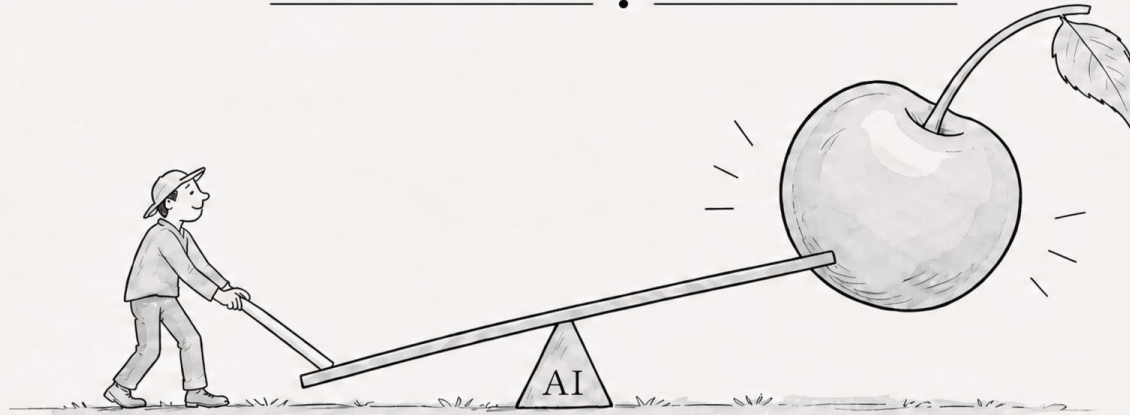
Ensure technology solves a verified problem first.



Demand proven utility and clear ROI.



The AI Advantage: Outsized Results from Small Teams.



AI allows small teams
to achieve outsized
results.

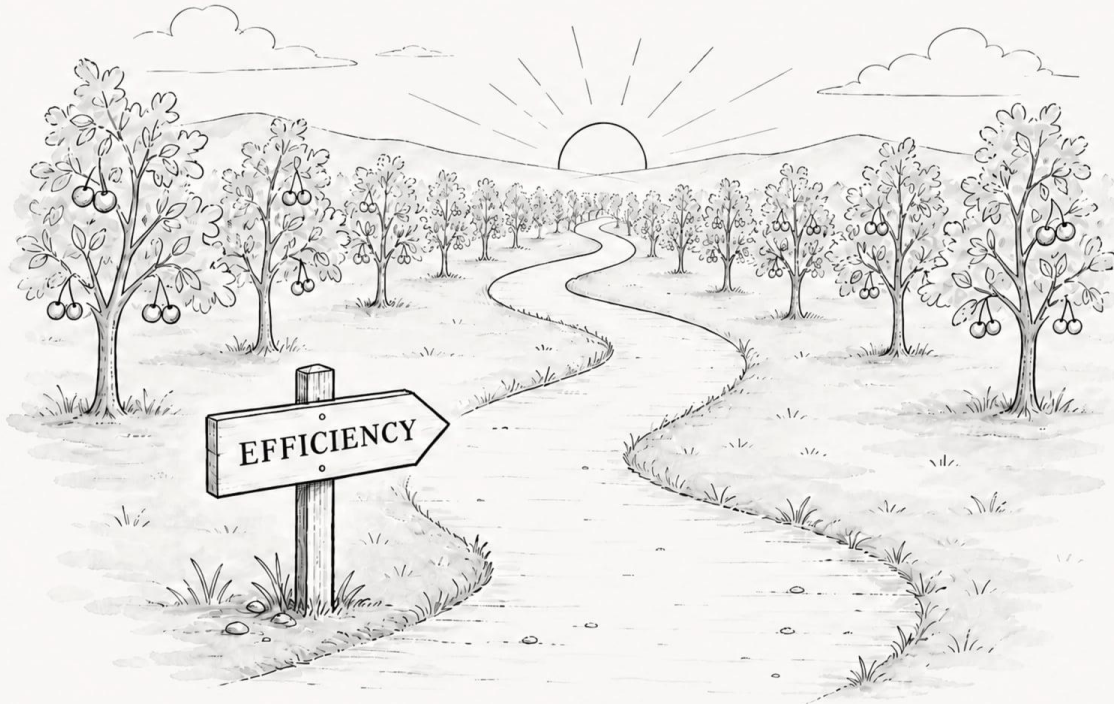


Streamlines business
operations and
decision-making.



Manage complex logistics /
operations with minimal
overhead.

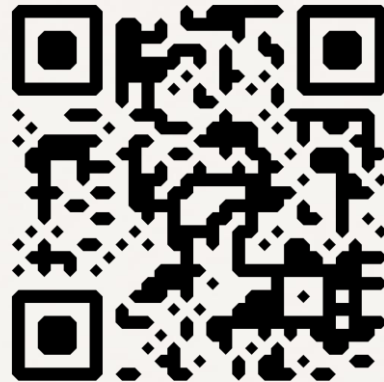
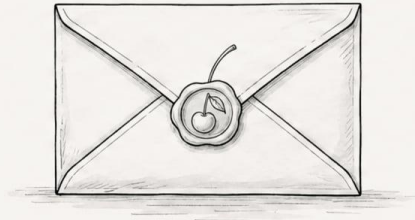
Conclusion: A Strategic Roadmap.



Technology is a tool
to be used to improve
the sustainability of
your business.

$$V_{\text{optimized}} = V_{\text{baseline}} \cdot (1 + \Delta Y) \cdot (1 + \Delta Q)$$

Detailed Report



CONTACT INFORMATION

Sam@TurnerCo.com.au

