Tunnel Automation

For Market Gardeners







How much do YOU get from a tunnel?



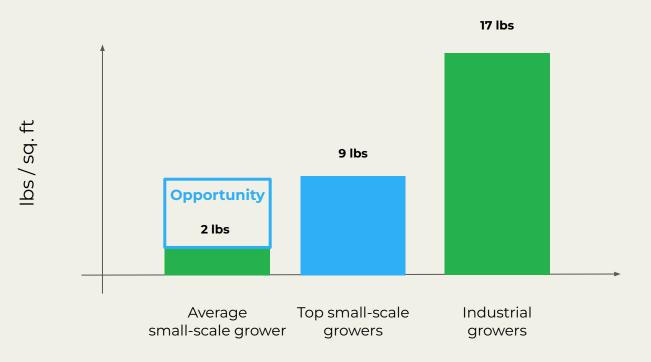
\$6

\$18,000

Per sq. ft

Per 30x100'

Tomato Yields

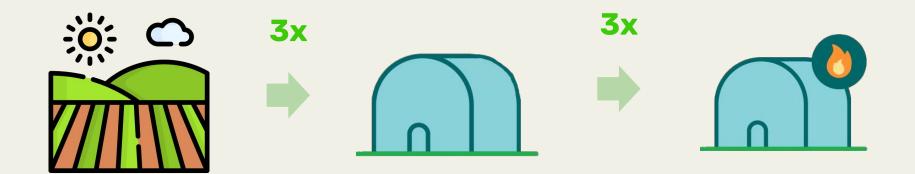




+1 lbs/sq. ft

= \$1,800/bed

Heated & Unheated Tunnels



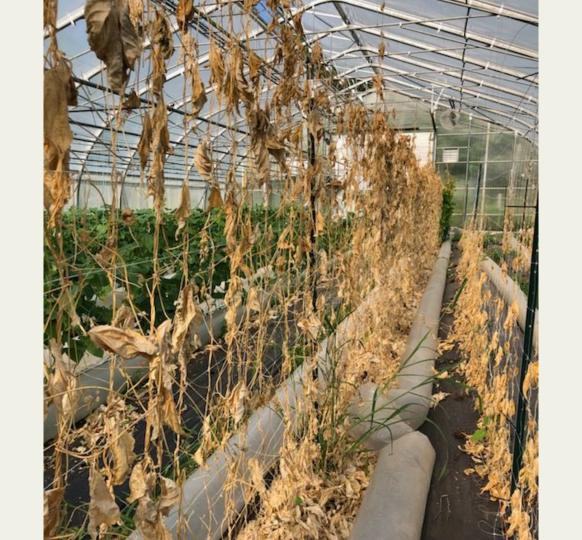
+ \$20,000

+ \$10,000





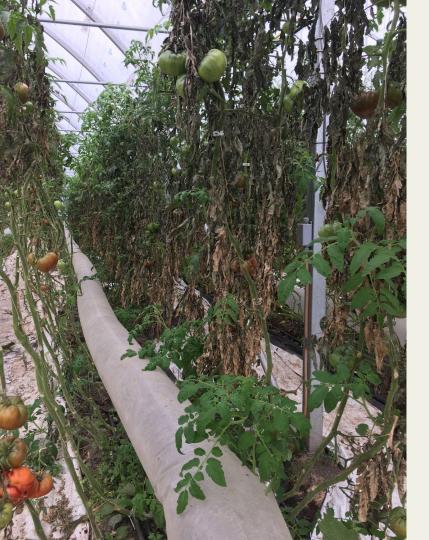
Avoid Losses



15%

loss per blossom drop

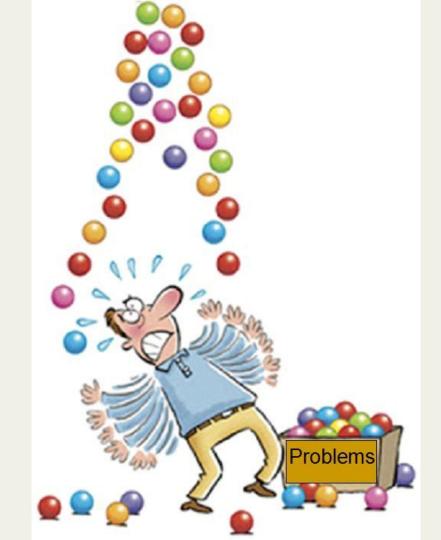




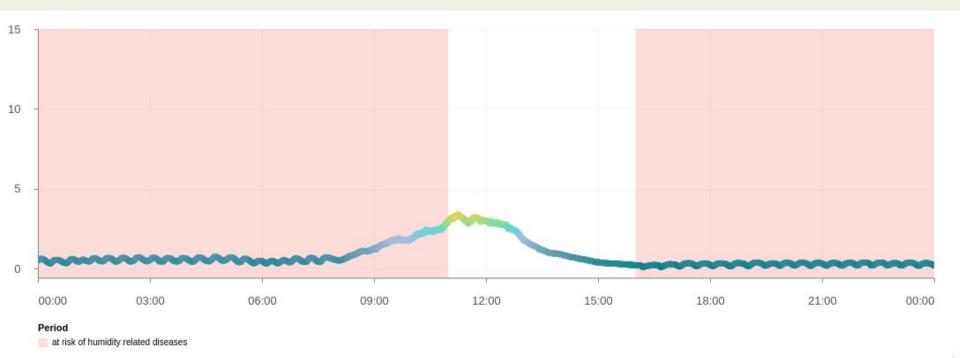


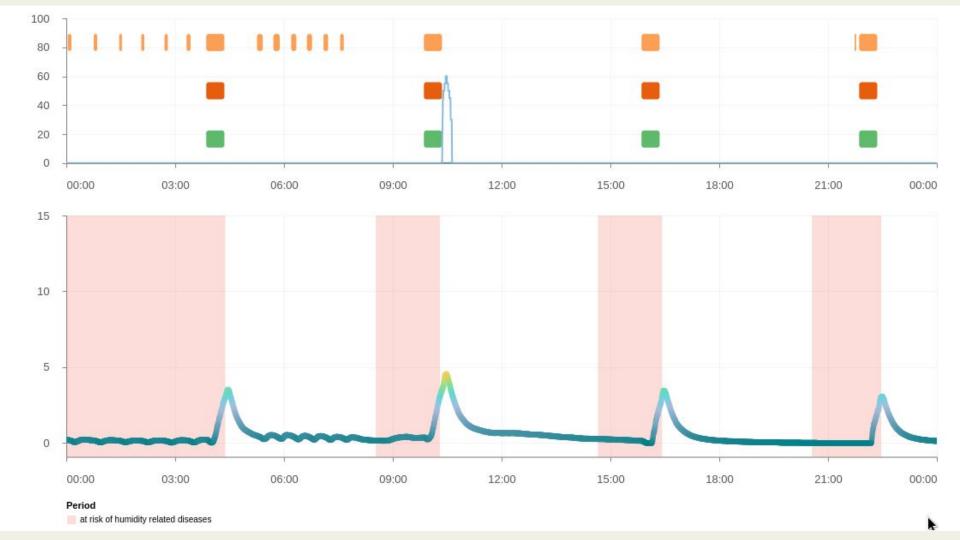














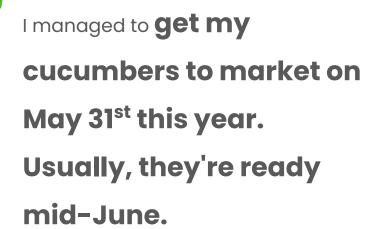
Capture Every Bit of Possible Growth







50% Growth can be stolen by cold shock



Automation has helped me retain heat in my unheated greenhouse and helped avoid transplant shock."

> **Kevin** Amelot Farm

Protection Mode

- The plant preserves itself
- Everytime, it stops growth
- Hours of wasted sunlight





How do you see it?

Dehydration







80%

of crops come from the nursery





Bell Pepper

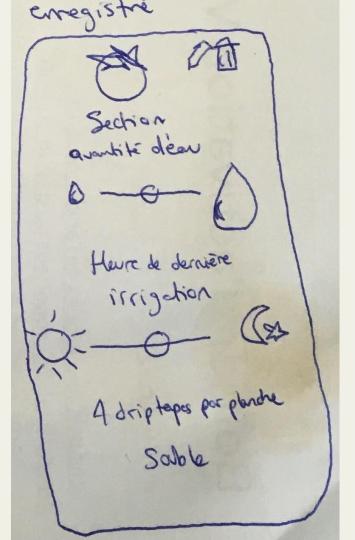
With timer

Irrigation duration 1 min

Valve Valve 3

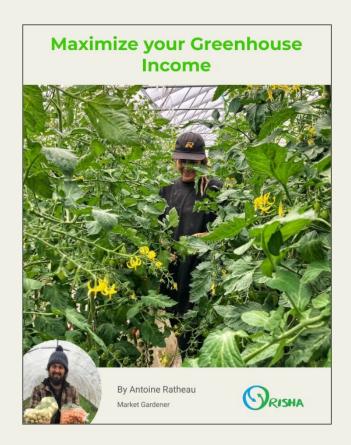
Starting times







Want to get concrete tricks?





Keep harvest high all season long



Energy Produced

- Number of leaves
- Density
- Moment of year
- Weather





Energy Consumed

- Number of fruits
- Temperature

Too Cold... you lose growth



Source : Production de la tomate de serre au Québec

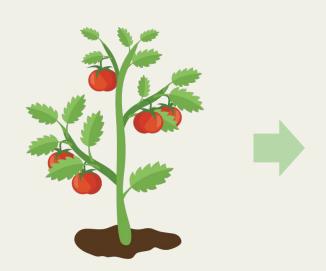
Too warm...
you exhaust your
crop



Source : Production de la tomate de serre au Québec



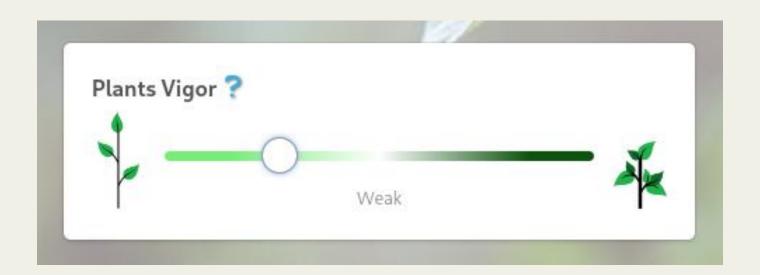




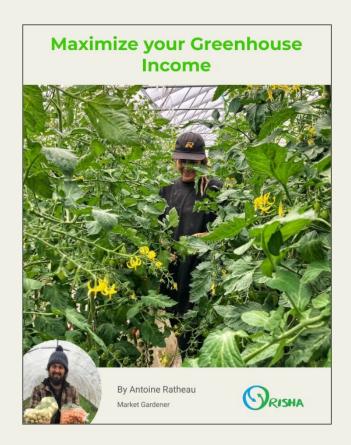






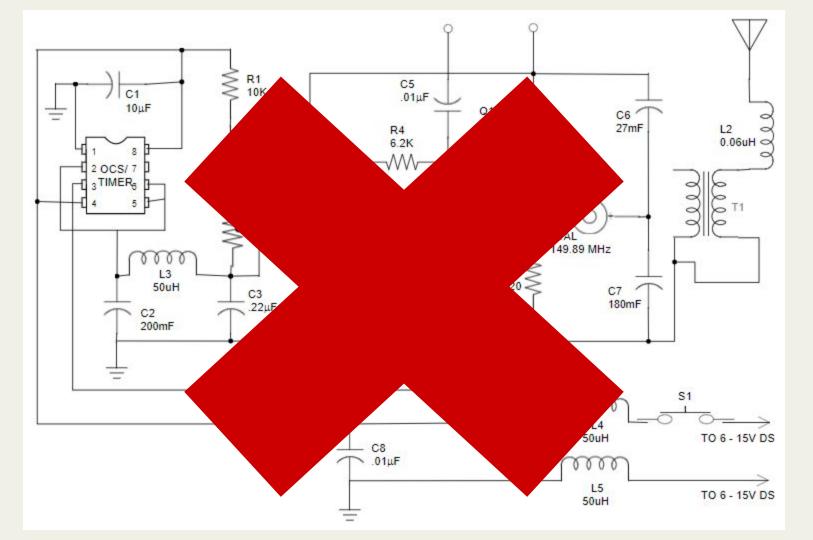


Want to get concrete tricks?









What you need







2 hours

No WiFi needed





As of today [August 30th], we have **DOUBLED tomato production** compared to last year.

That's more than 2000 pounds of tomatoes harvested this summer



Of course, there is a lot to get better at.

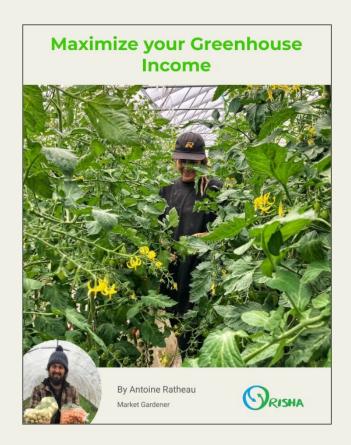


Drew

Ghost House Farm, Michigan

Who has gotten something useful out of this talk?

Want to get concrete tricks?





Need help
with your
growing
conditions?



quillaume@orisha.io