



# NEW AGE FARMING WITH AGRILSYT

*A study on how data can bring the  
next green revolution*

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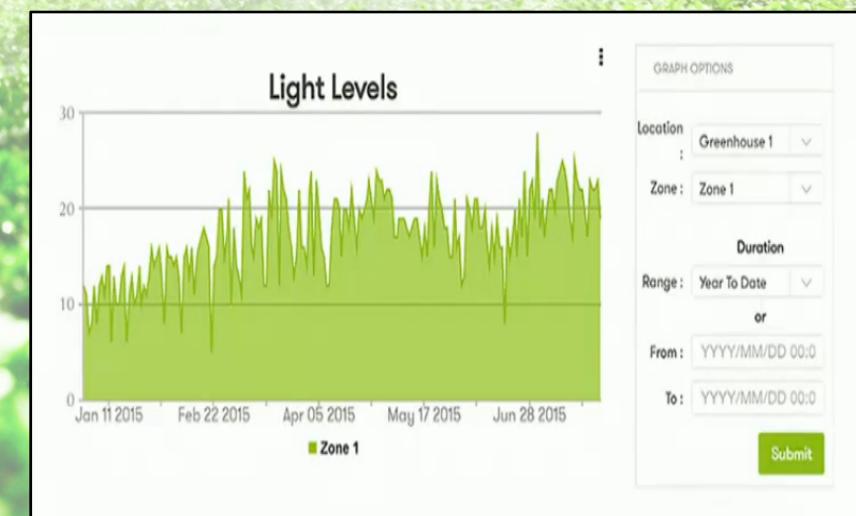
# Background & Challenges

- Indoor farming uses a highly controlled environment of light, water and other factors to grow fruits and vegetables
- Uses technology to make year round farming feasible
- Adaptable in cities where land, water, energy is scarce
- Requires 10% less land and 20% less water
- Different sensors measure temperature, lighting, PH levels, water, humidity
- Data is scattered and don't talk to each other
- Farmers collect yield data manually
- Spend a lot of time aggregating and analyzing the data

# What does Agrilyst do?

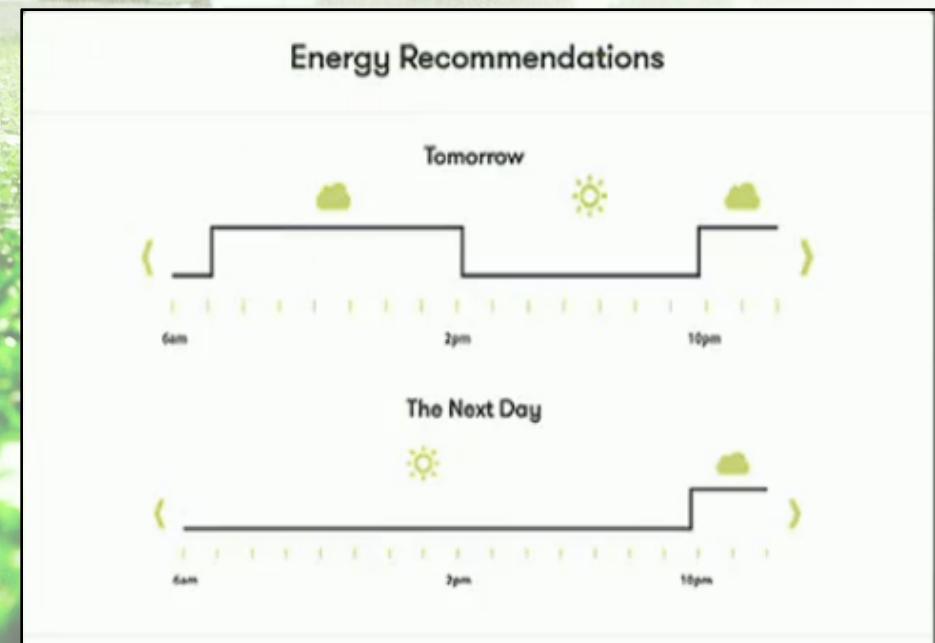
- Agrilyst is an analytics platform that syncs automatically with all the sensors in the greenhouse and provides an interactive dashboard
- Farmers can also enter their own data and can now dig deeper into the integrated data
- Provides graphs and real time task management capabilities
- Analyzes data and provides recommendations
  - Less yield expected - Notify distributors
  - More water required - Take action now

Greenhouse 1			
ZONE	SENSOR	STATUS	LAST UPDATED
Zone 1	Priva Light Sensor	✓	20 mins ago
Zone 1	Priva Temperature Sensor	✓	12 mins ago
Zone 1	Priva Light Sensor	✓	20 mins ago
Zone 1	Priva CO2 Sensor	✓	12 mins ago
Zone 1	Priva Humidity Sensor	✓	12 mins ago



# Energy Savings

- Recommends energy usage pattern by considering time varying electricity rates in your region
- By turning lights on and off as suggested, Farmers can save up to \$150 per day and nearly \$50,000 per year in electricity bills



# The Value Created?



- Food production needs to be doubled by 2050 in order to tackle rising global food shortage
- Indoor farming bridges the gap between where food is grown and consumed, cutting down supply chain costs
- No dependence on environmental factors
- Data can help in efficient greenhouse management thereby increasing yields and profits for farmers
- Encourages more growers to adapt indoor farming

# Business Model & Takeaways

- Agrilyst charges \$1000 per month per sq. acre
  - Tie ups with hardware installers and distributors for acquiring new customers
  - Market size of Indoor farming is estimated to be \$9 Billion
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- Technology and Data can enable innovation in non traditional industries
  - With more industries using smart devices and increasing data collection, Analytics As A Service can be a potential delivery model in traditional and non traditional industries