

Drones, AI, for Better Insights Into Supply Chain



Mughilan Ramaswamy
Co-founder and CEO
Skylark Drones

20,000+ autonomous drone
flights flown

1M+ drone images processed

Headquartered in Bengaluru,
India

Drone based Insights

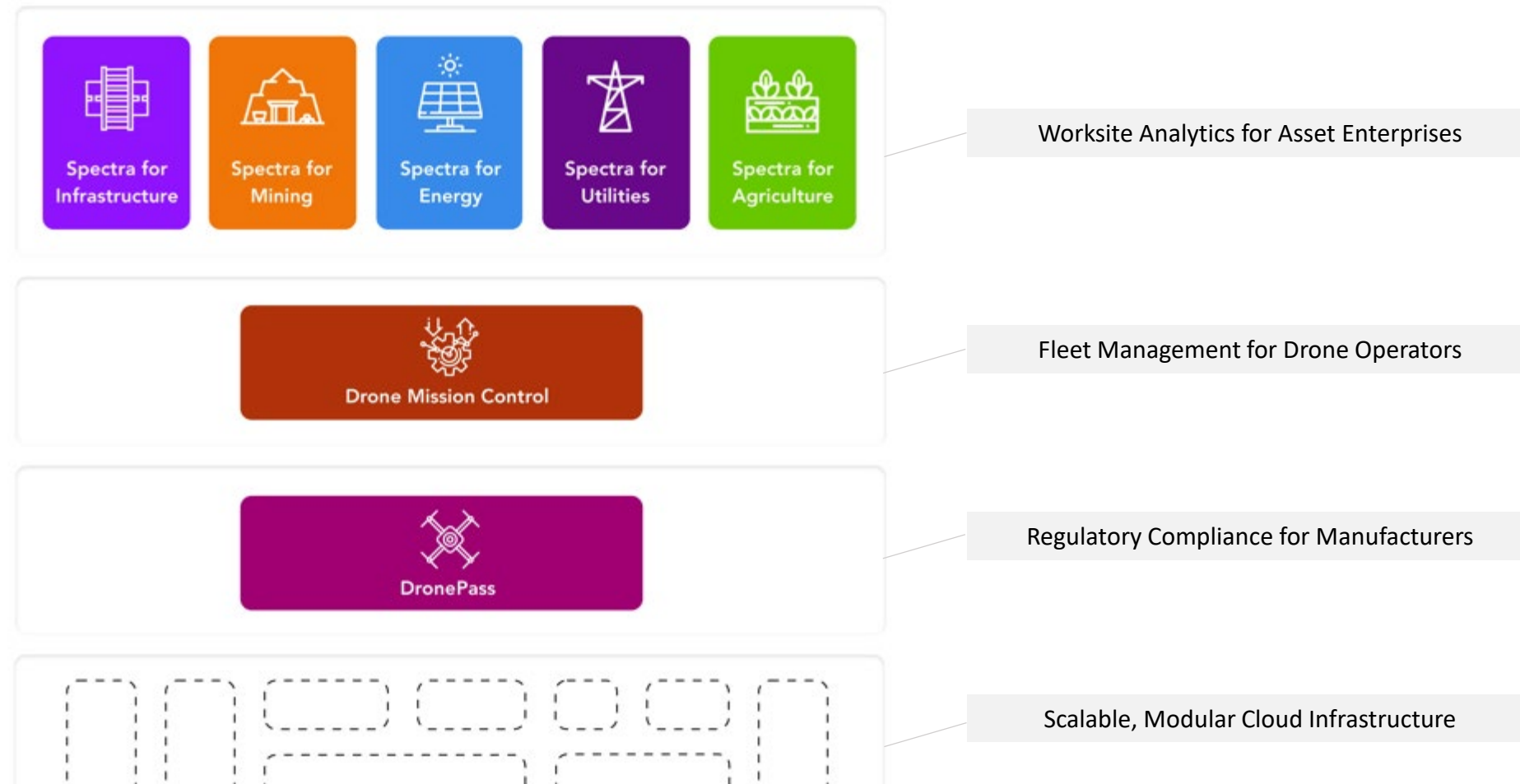
International Trade of Goods will transform with better quality of data and insights getting shared across borders.

Where privacy preserving AI and Computer Vision can be used for better governance of supply chains.



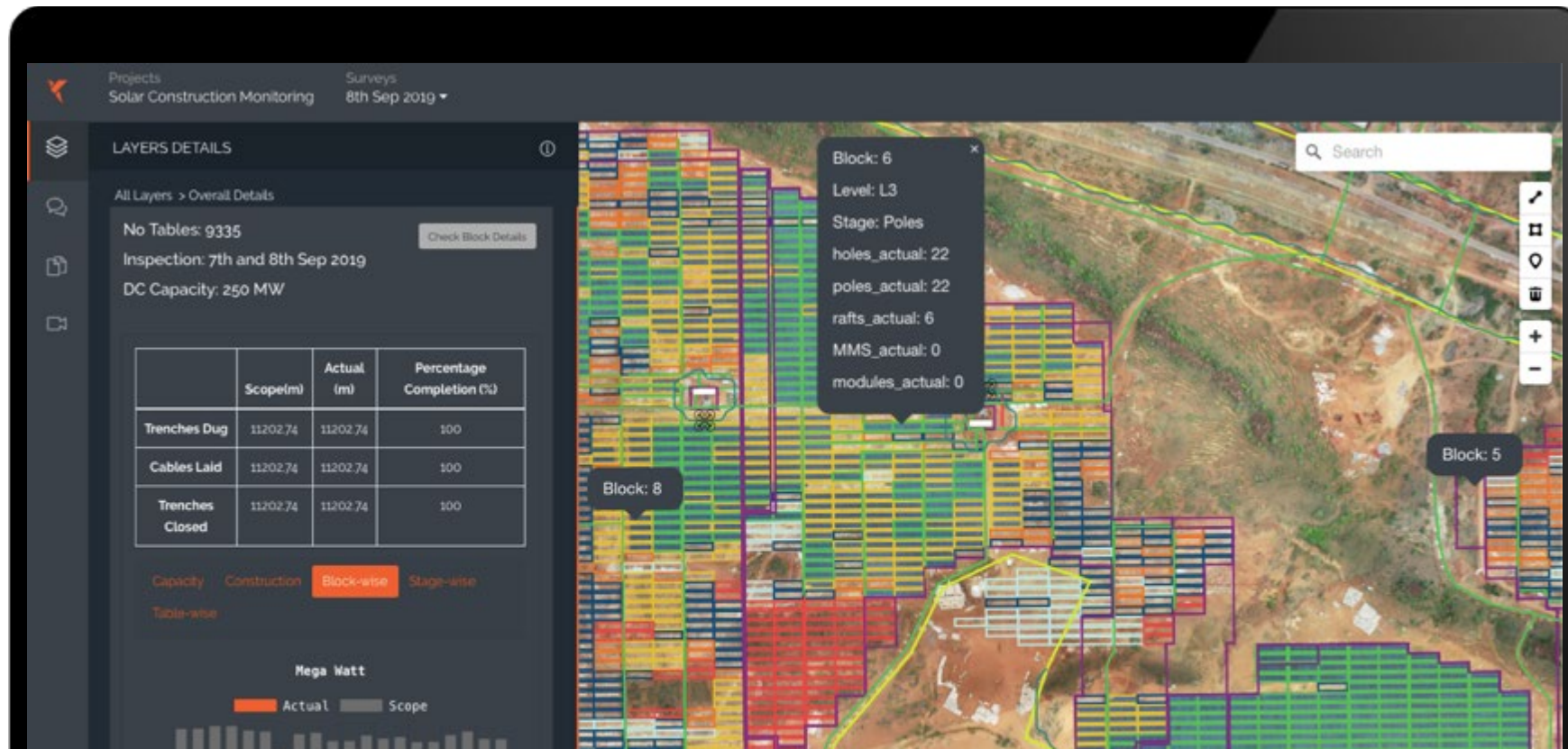
The Skylark Drones Platform,

empowering meaningful work at global scale



SPECTRA

AI/Drone product suite that uses drone data to accelerate asset profitability by helping Enterprises plan better, construct faster and sustain longer and bring efficiency in supply chain



Drone Analytics for Agriculture

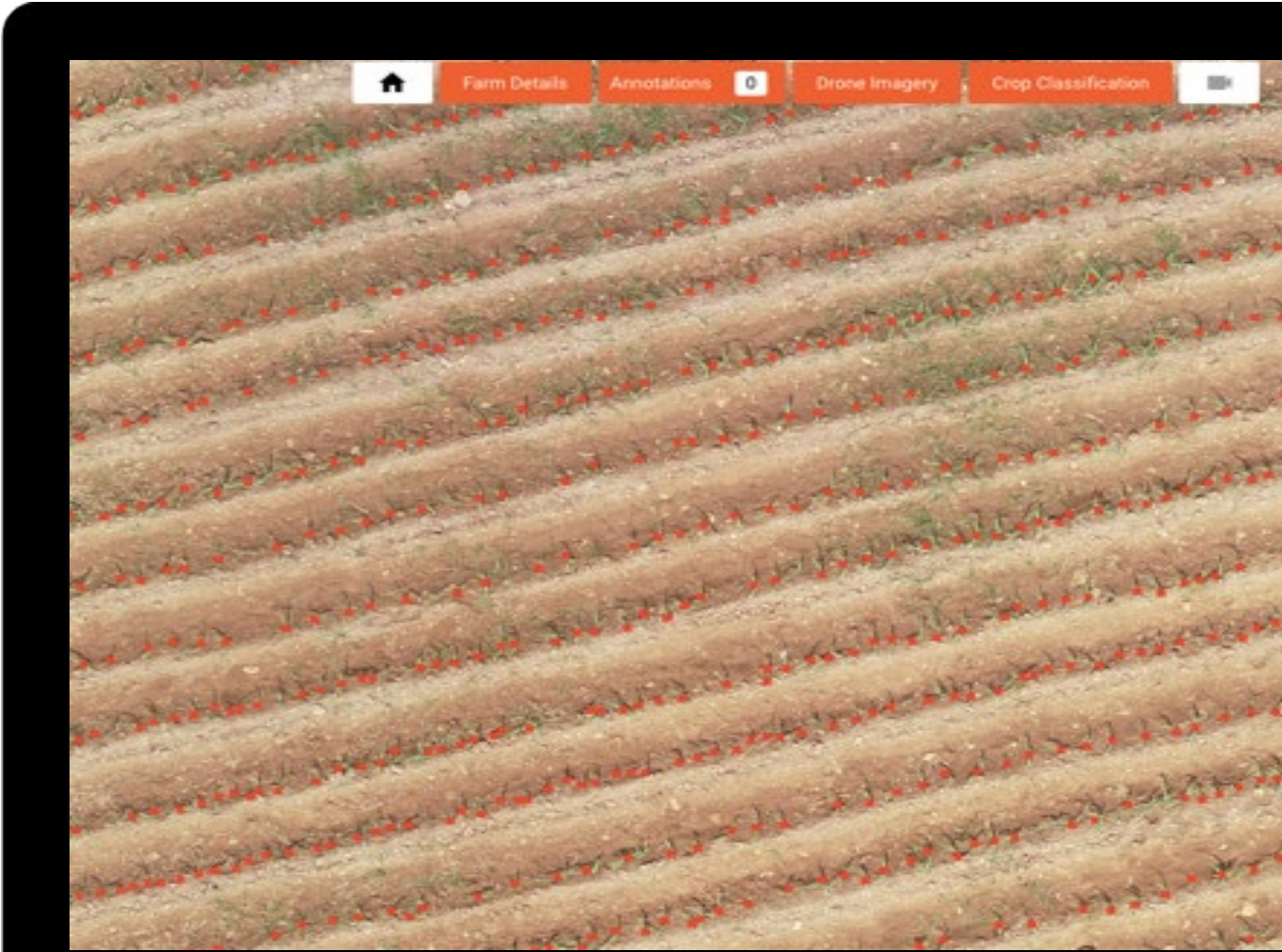
Applications

Plant ID	Soil Quality
Yield Estimate	Crop Insurance
Disease Detection	Weed Detection

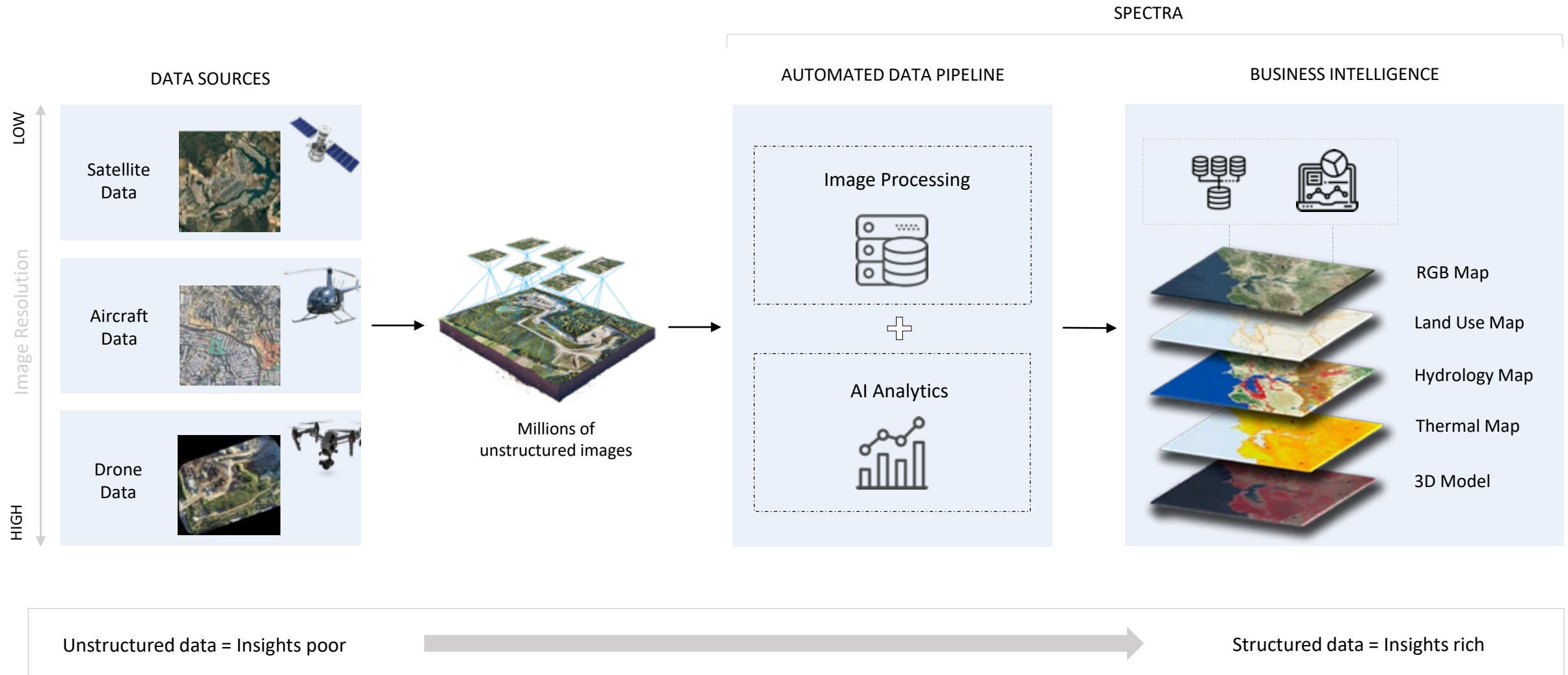
* 1cm resolution of images, which can ensure detection of all plants

Asset Profitability Levers

	Production Efficiency	Safety & Security
Present-Day	Erroneous, infrequent manual inspections	Ad-hoc manual patrolling with no visual evidence
SPECTRA	Automated diagnostics from safe and frequent aerial inspections	Real-time, centralized view of remote assets
Advantage	Maximize revenue potential of worksite by ensuring 100% up-time	Track pilferage and illegal encroachments, backed by visual proof



Images to Insight workflow



How this data affects the quality of supply chain ?

- **Having a Farm ID for Farm produce.**

Every produce will be tagged against a farm id. and can be tracked from source of supply all the way to the destination, leading to a trail.

- **Tracking Health and Status of Crops**

All the health of plants for better supply of the right produce almost instantaneously, large amount of data can be processed by every stakeholder during production near real time.

“Imagine having a searchable ID for all the farm produce at an individual farm level, which gets updated daily automatically with limited interference”

Case Study: Agriculture

- Mapping 10+ Villages across the state of Andhra Pradesh to ensure **Farmer Protected Income** for over 2000 + farmers.

https://www.youtube.com/watch?v=FvswAScGi_o&t=3s

Dashboard for real-time analytics for various stakeholders across the value chain.

Analytics on Block-Wise Construction Progress

Historic Comparison between Inspection Dates

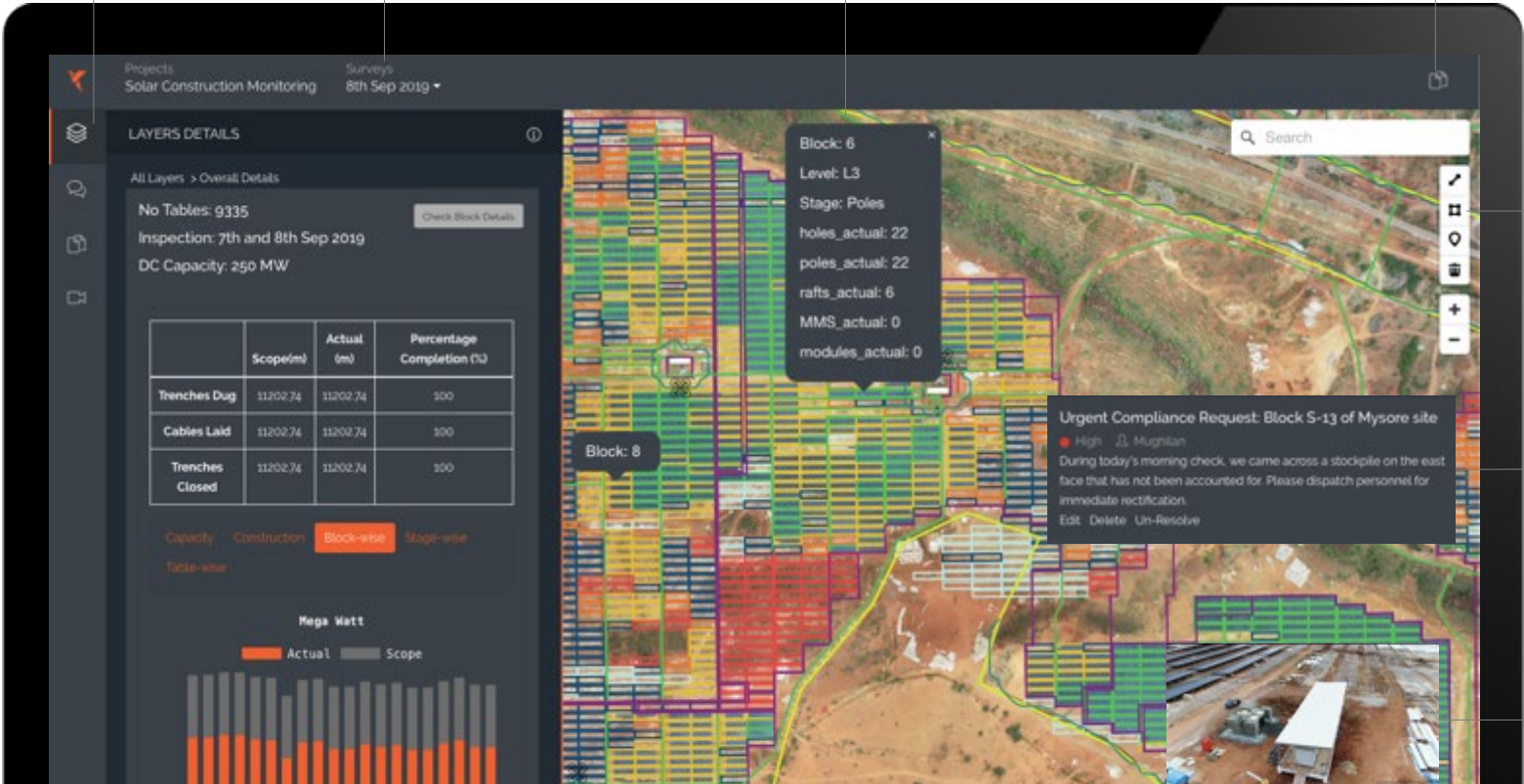
Automated Identification of Installed Solar Modules

One-click smart reporting and sharing

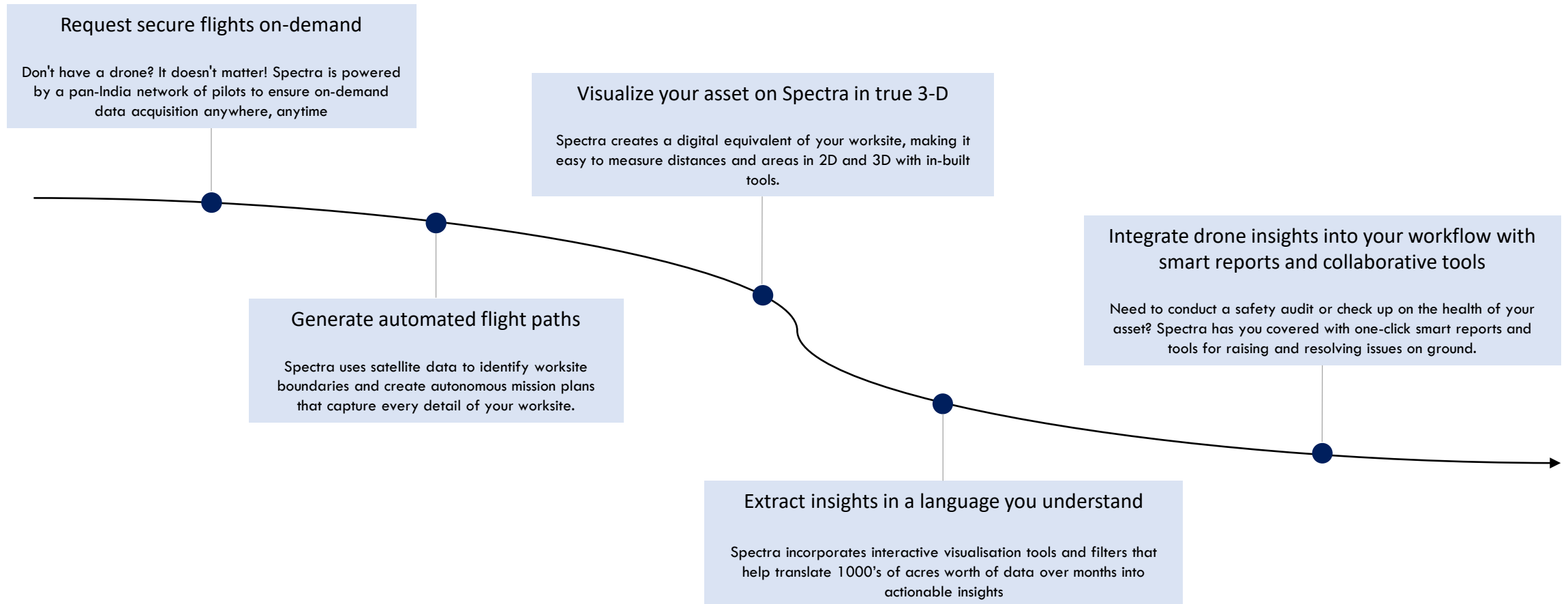
In-built tools for Area/Distance Measurement

Simplified Collaboration and Communication over Visual Data

Aerial Videos & Images

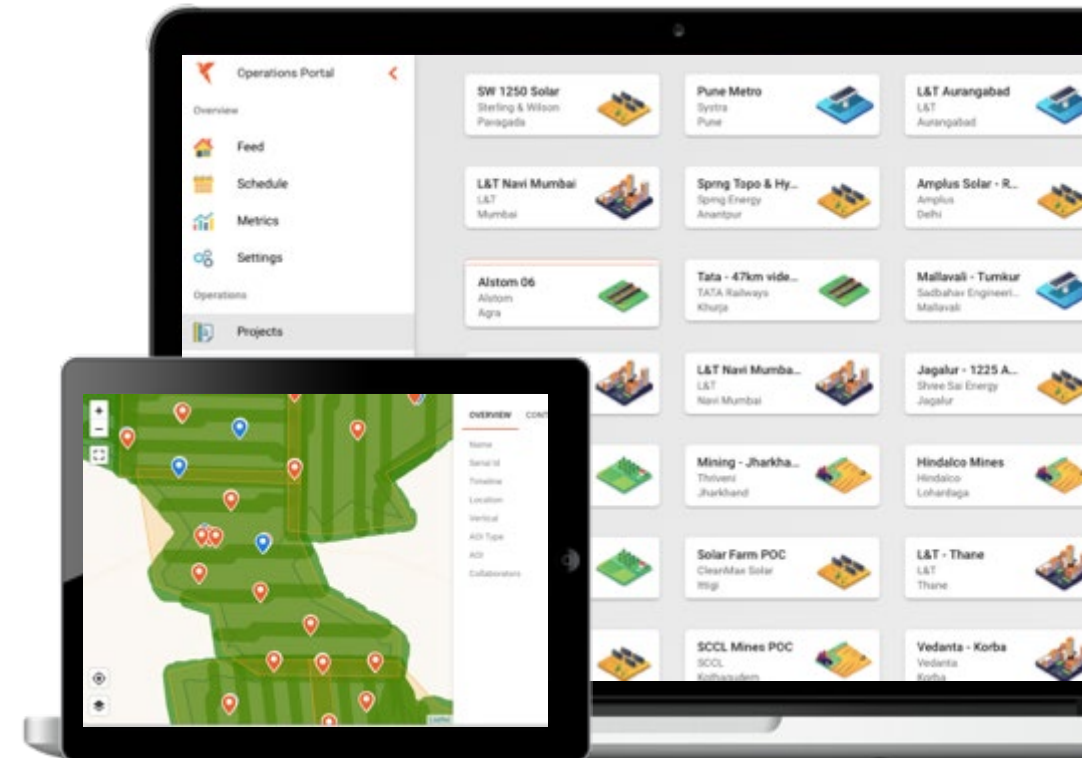
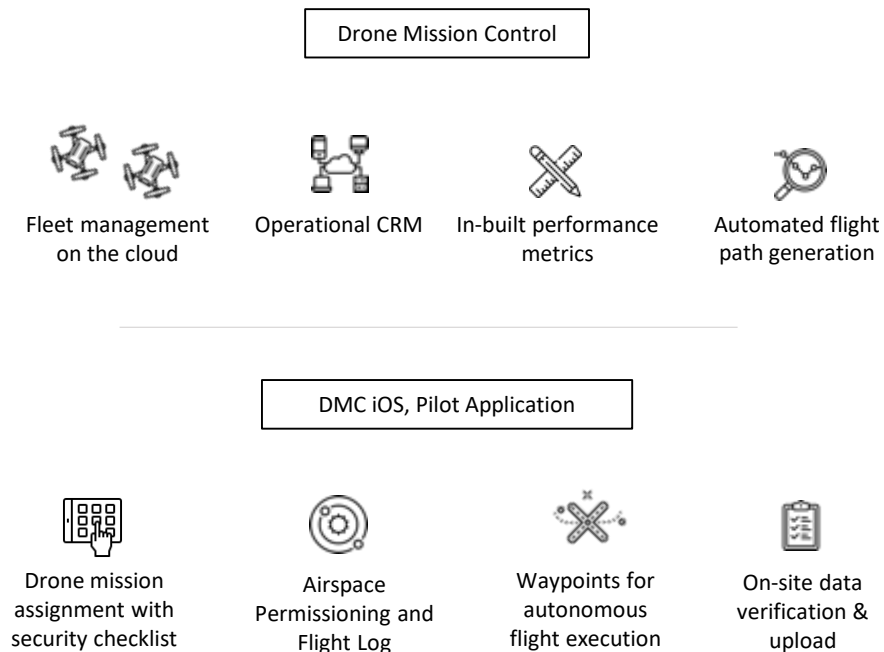


Drone Technology can be scaled across regions – On Demand Flights by Local Skilled Pilots



Drone Mission Control

Drone mission control allows integrated fleet management, mission planning and autonomous flight execution suite. Built to standardize secure drone workflows at global scale.



India's scaling drone operations across Villages using SVAMITVA Scheme

- Every property is going to have a property ID using drones across the country.

How SVAMITVA scheme aims to transform rural India

ET Online · Last Updated: Oct 11, 2020, 03:49 PM IST

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Synopsis

This launch will enable nearly one lakh property holders to download their property cards through SMS on their mobile phones and pave the way for villagers to use property as a financial asset for taking loans and other financial benefits.



The SVAMITVA scheme was launched by PM Modi in April this year with the aim to update rural land records.

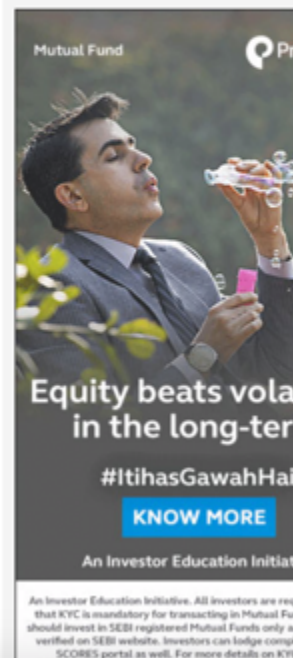
RELATED

PM Modi launches physical distribution of property cards under SVAMITVA scheme

GST Council to discuss compensation issue for third time in a row on Monday

Prime Minister Narendra Modi launched the physical distribution of **property cards** under the 'Survey of Villages and Mapping with Improved Technology in Village Areas' (SVAMITVA) scheme on Sunday, calling it a 'historic move' set to transform **rural India**.

This launch will enable nearly one lakh property holders to download their property cards through SMS on their mobile phones and pave the way for villagers to use property as a financial **asset for taking loans and other**

An advertisement for a Mutual Fund. It features a man in a suit holding a small drone. The text reads: "Equity beats vola in the long-term", "#ItihasGawahHai", "KNOW MORE", and "An Investor Education Initiative". At the bottom, it says: "An Investor Education Initiative. All investors are req that KYC is mandatory for transacting in Mutual For should invest in SEBI registered Mutual Funds only as verified on SEBI website. Investors can lodge compl SCORES portal as well. For more details on KYC".


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SVAMITVA scheme can become a game-changer | Opinion

The next step will be to remodel or redevelop the villages to ensure availability of all kinds of civic amenities to our rural popula to bring them at par with those residing in urban areas, writes Vijay Shankar Pandey.

OPINION Updated: Oct 11, 2020, 17:07 IST

 VS Pandey





Thank you.

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