

# Providing farm scale data from multi-satellite



## Satyukt Analytics

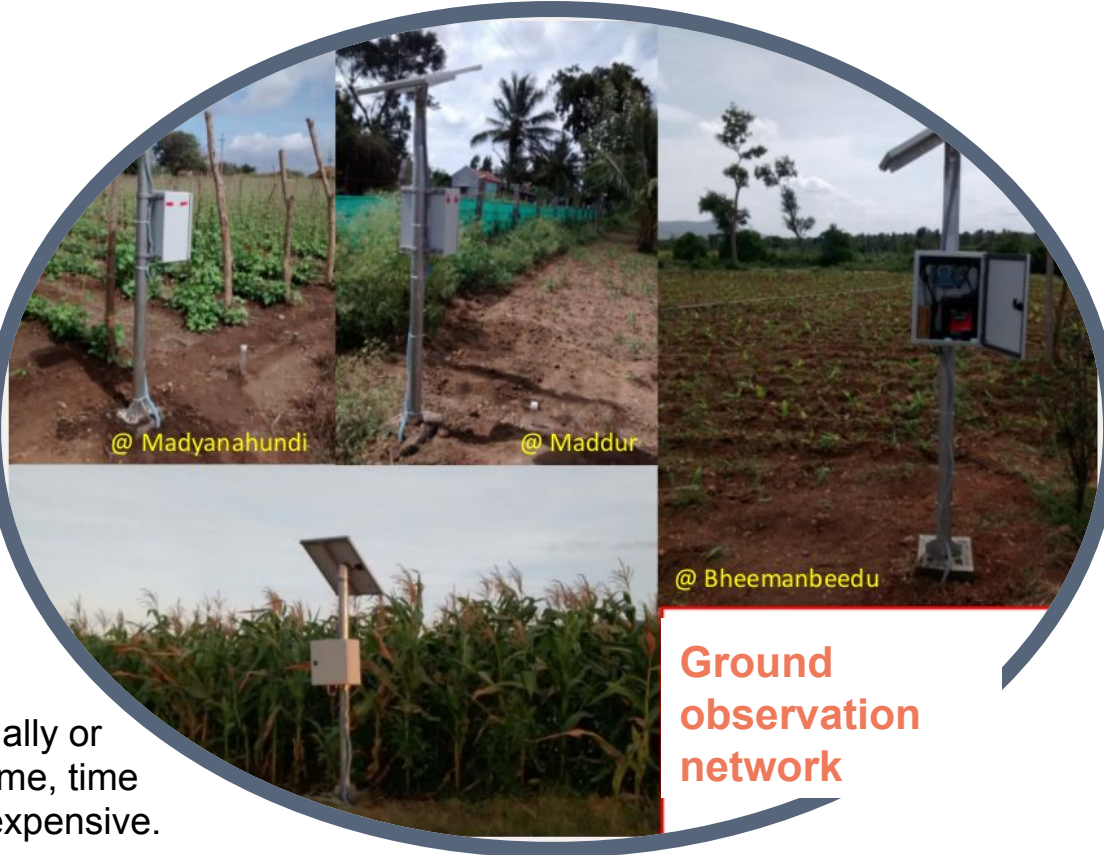
- Satyukt is a data analytics company providing high granularity satellite data
- Satyukt provides data in all weather conditions

# Existing Scenario



**Manual observation**

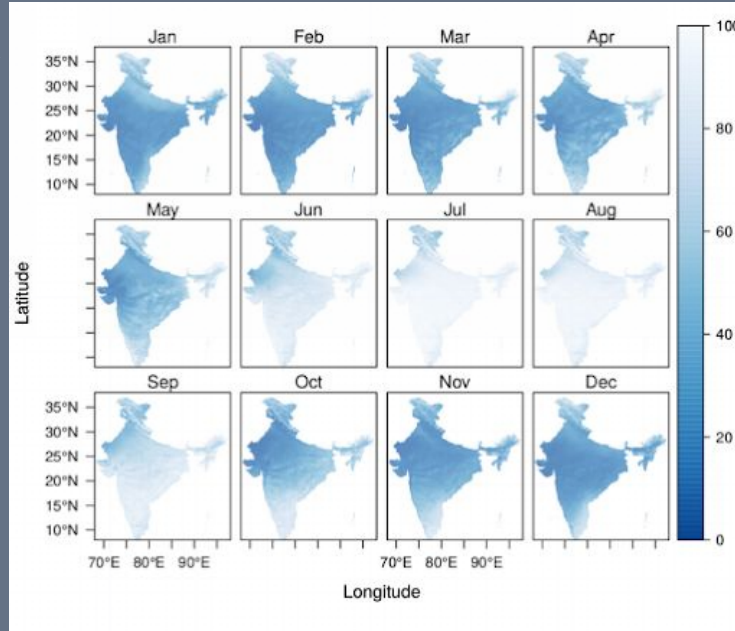
Traditionally measurements are taken manually or with stationary gauges which is cumbersome, time consuming, provides limited coverage and expensive.



**Ground observation network**

# USP

## Optical/Thermal Satellites



## Microwave Satellites



# USP

## All weather data

Use of microwave data.

## High granularity soil moisture

Algorithm to combine data from different satellites having different characteristics

## Global algorithms

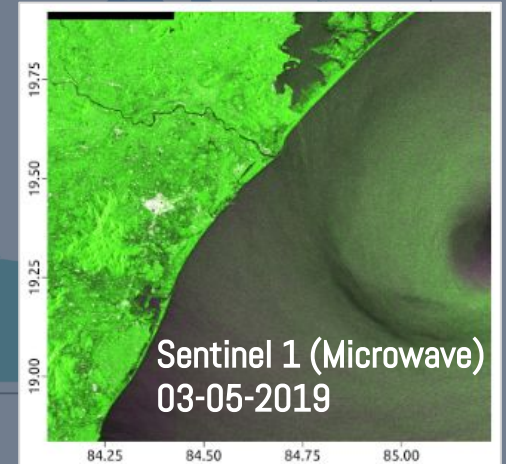
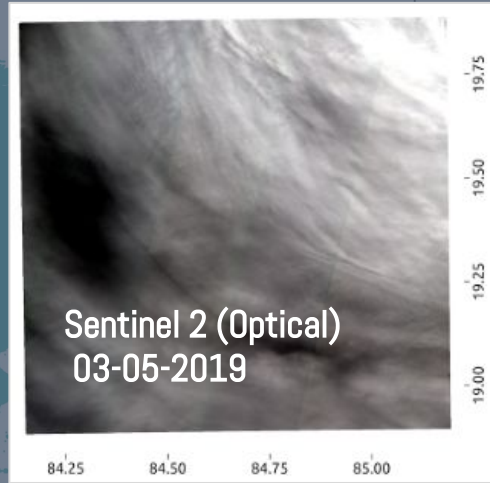
Validation in several countries (India, NZ, Australia, Spain, UK, USA) across the globe

## Root zone information

Developed algorithm to infer the root zone soil moisture by using high granularity surface information.

## Strong R&D ecosystem

Collaboration with premier academic institutions of India and abroad



Legend

Valida

-160.0

-80.0

-40.0

0.0

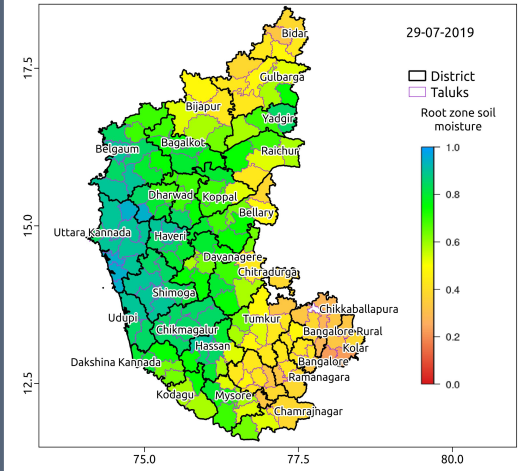
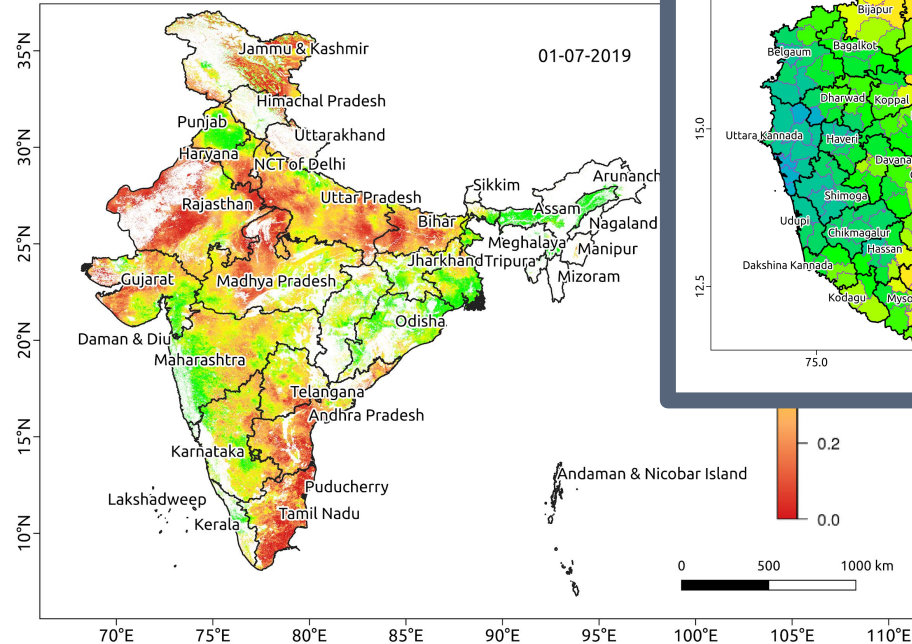
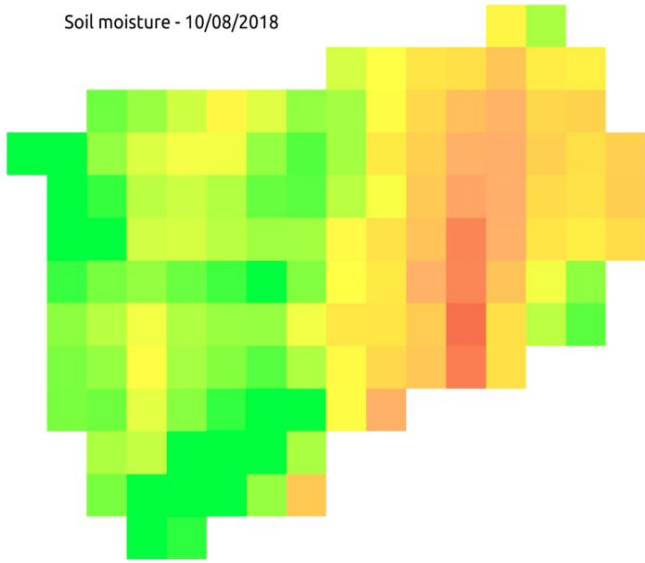
40.0

80.0



# Agriculture

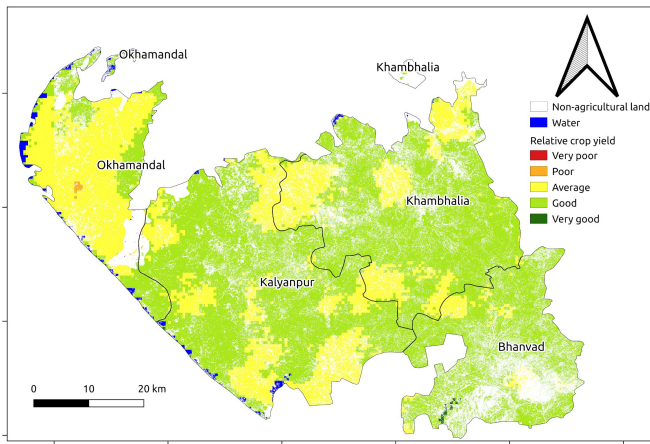
Soil moisture - 10/08/2018



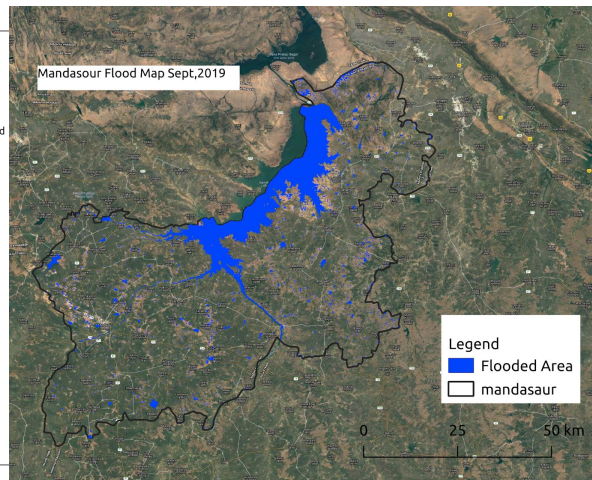


# Crop Insurance

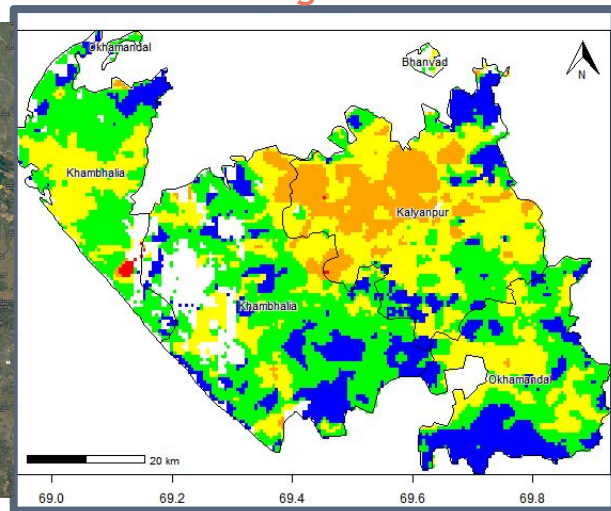
## Relative crop yield



## Flooded area



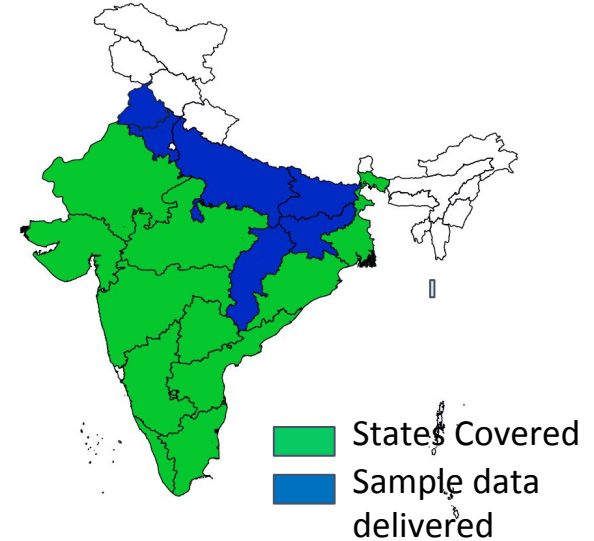
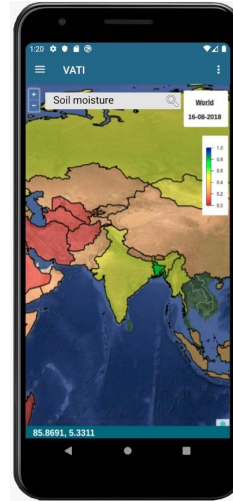
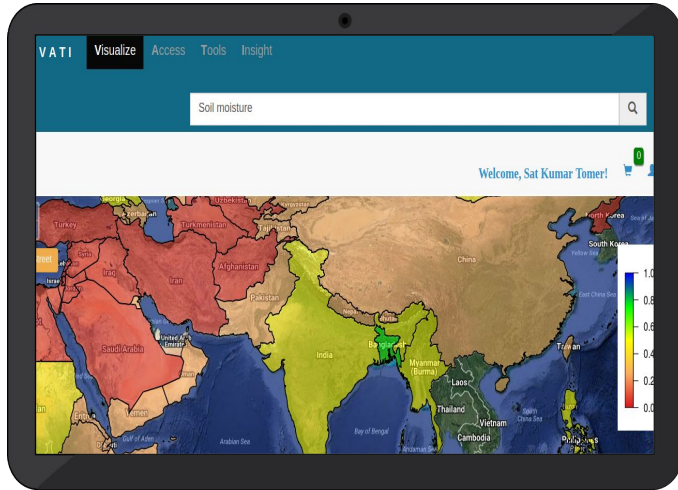
## Prevented sowing



# Coverage

VATI: <http://vati.satyukt.com/>

No. of States Covered



End customers are farmers

# Impact

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- ❑ Risk management by utilizing satellite data from multiple sources.
- ❑ Most of the algorithms are scalable.
- ❑ Per acre pricing
- ❑ Information in digital format
- ❑ Financially sustainable: broke even
- ❑ Capacity building: Training employees and clients
- ❑ Delivery time: within 72 hours
- ❑ Accuracy of products: 70-90%
- ❑ Crop health monitoring for farm size upto 1 acre



# Core Team

SATYUKT

**CEO**

Dr. Sat Kumar

**MD**

Dr. Yukti Gill

**Research**

Mr. Subash Yeggina.

**Software**

Ms. Purva Hattekar

**Research**

Ms. Catherin S

**Remote sensing**

Mr. Thiyaku S.

**Remote sensing**

Mr. Vignesh K

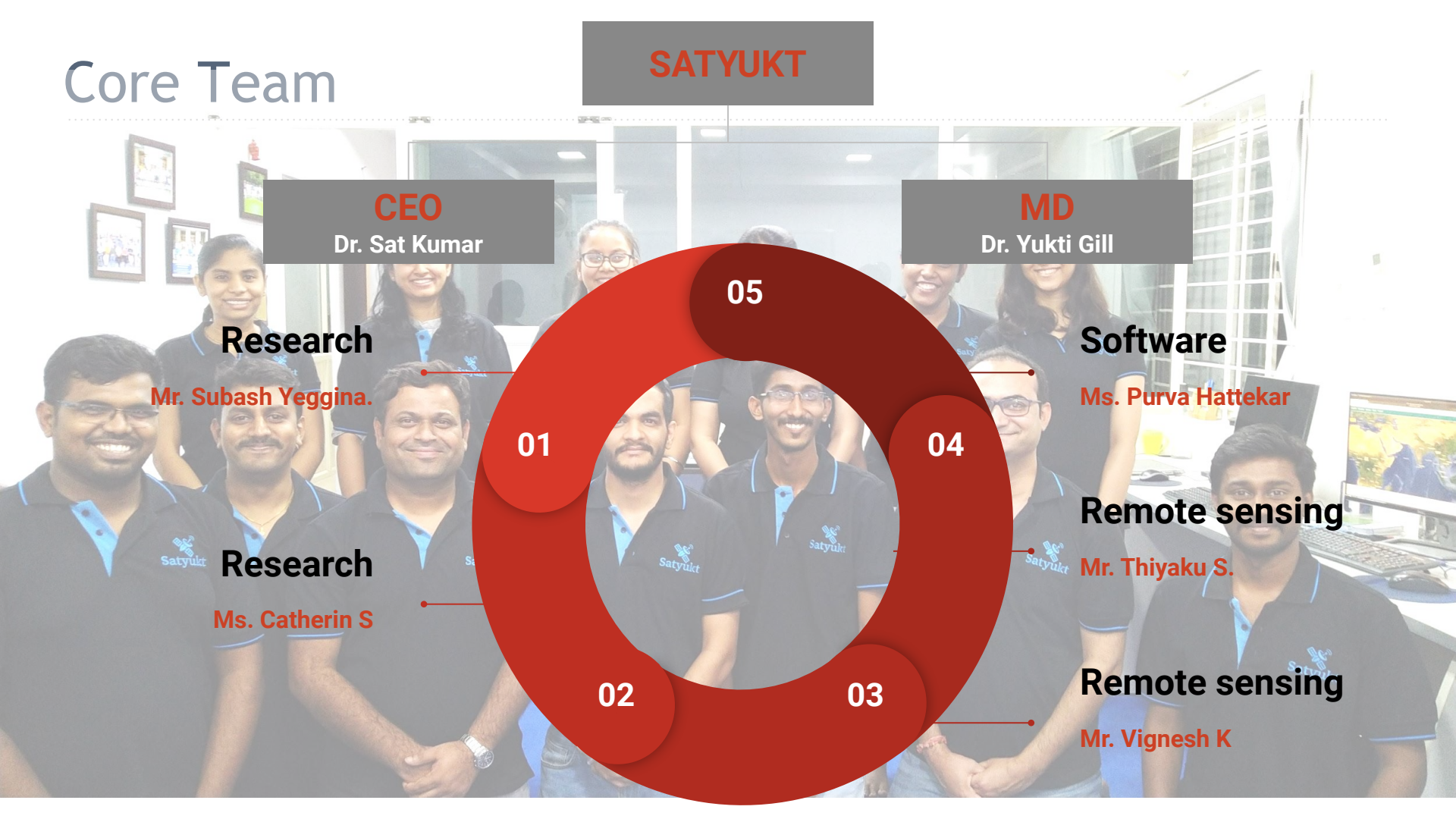
01

05

04

02

03



# Company **Contacts**

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