To build an *data driven* platform to monitor and manage risk in agriculture.
Data driven risk platform for Global Agriculture

- We are a climate smart technology business to enable sustainable agriculture using a data and AI driven platform.

- Our SaaS product delivers real time risk monitoring and management to the market participants via an API.

- Target sectors: We target Agricultural value chain where managing risk is closely tied to Balance sheet and P&L such as Insurance, Trade, Investment.

Data driven Digital Agriculture

- Farmers Trust
- Positive Media sentiment
- Regulatory support
- Government support
- Partners can integrate easily
- Research for product growth

AGVESTO
An real time risk analysis with *Deeper* data.

We evaluate all aspects of risk profiles related to an individual farm and regions.

It’s not just about data.. *it’s the context and impact behind it.*

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**Real time risk reporting**
Manage the farmlands in the portfolio with real time data from captured from space, atmosphere, localised weather and ground based information delivered near real time. Risks accurately reported for historical review and better future planning.

**Transparency to Weather and Climate impacts**
Reliable and continuous data to help the stakeholders to understand impact of events and protect their portfolio.

**Compliant**
Our platform is secure and compliant with the latest infrastructure by Amazon with Security against DDoS.

**Cost efficient. Real-time.**
Our partners are shaving off time spent by their underwriters for manually-analysed farms. And we can provide instantly.
Proposed Process Flow

**Decision Engine**

- **Existing data**
- **Compliance/KYC layer**
  - Document upload
  - Verification and authentication

- **External**

**RISK Managers/UNDERWRITERS**

- **A** “Operations”
- **B** “Augment”
- **C** “Enhance”

**Agvesto**

- Macro risk
- Price risk
- Climate risk

- Real time risk delivery via API
  - www.agvesto.com/api
Team

Dr Srini Sundaram
Founder & CEO
Tech Entrepreneur in Financial Technology, Risk & Credit
PhD in Electrical Engineering.
Co-Founder of Aire, a Techstars company.

Lorenzo Savi
Partnerships
Ex: Head of OTC Soft & Agricultural Commodities Risk Management at JPMorgan
Ex - Group Chief Risk Manager at Sodrugestvo

Martin Massey
Partnerships
23 years in Insurance industry Expert in ERM, risk modelling and risk financing.
Ex-AIG, Marsh.
MBA Cass business school with weather derivatives specialisation
Agvesto Regional/National level analysis using SMAP and GPM
Agvesto Regional/National level Analysis using NASA’s SMAP and GPM

SMAP Countries Integrated and Available:
North America - US, Canada
Europe - UK, IE, Ukraine, Germany
APAC: Australia, Philippines
Asia - India
Africa - Kenya, Rwanda, Tanzania
• April 2016 Rainfall More Than 300mm Above Monthly Average
• Excessive rains led to flooding in areas such as Rios Santa Fe, Chaco.
• Parana and Salado rivers overflow.
• 4% of Soybean Crop got damaged.
• Insurance Claims: > 12500

Buenos Aires Grains Exchange projects Argentina’s 2016/17 soybean crop at 53.5 million tonnes down from 56 million tonnes in the previous crop year.

Argentina Ag Ministry says 1.27 million hectares have been affected by flooding, however, they believe the good yields on higher ground will offset some of the flooding losses.
Agvesto - GPM Event Capture

Precipitation (mm/d) - data collected in the half hour with dropouts due to snow/ice.
Agvesto - SMAP Index Capture

Pre Event SMAP Profiling

Post Event SMAP Soil Moisture Profiling
Agvesto - GPM Index Capture

Precipitation (mm/d) - data collected in the half hour with dropouts due to snow/ice.
Agvest- SMAP Index Capture

Pre Event Crop condition

Post Event Crop condition
Agvesto Farm level analysis using Sentinel 2
Location: UK farms (Eastern England)  Period: June to August 2016
We have used Optical satellites and extracted NDVI and NMDI Indices using Image processing algorithms.

Crop initial condition (June)  Crop growth phase (July-Aug)

Excessive rainfall event in farm and Crop damage  Post Harvest (Sep)