



# POST CONFLICT RECOVERY & SATELLITE DATA ANALYTICS

AUTOMATED GREEN COVER MONITORING & FOREST  
MANAGEMENT SYSTEM IN AGROFORESTRY -  
TIMOR LESTE

# WHAT DO WE OFFER? LARGE AREA ANALYTICS



**Satellite  
Data**

+



**Machine  
Learning**

+



**Big Data  
Analytics**

=



**Insights**

# OUR APPROACH? SATSURE'S GEOSPATIAL ANALYTICS PLATFORM



Satellite Imagery

BATCH  
↓



IEEE  
Internet of Things  
IoT Sensors

STREAM  
↓



Drone Data

STREAM  
↓



Socio Economic Metrics

STREAM  
↓



Cadastral Land Records

STREAM  
↓



Weather Data

STREAM  
↓



Commodity Price Data

STREAM  
↓



Federal, State Datasets

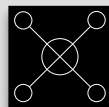
STREAM  
↓

## DATA SYNCHRONISATION MIDDLEWARE

DATA INGEST



ANALYTICS



DeepLearning:



DATA STORE



VEGA

REPORTING



HITACHI  
Inspire the Next



esri

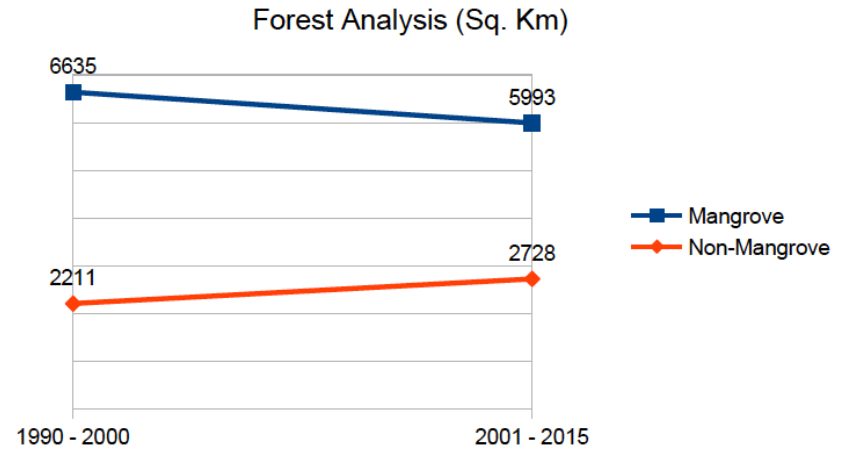
CITIZEN SERVICES



# LARGE AREA ANALYTICS APPLICATION: FOREST MANAGEMENT

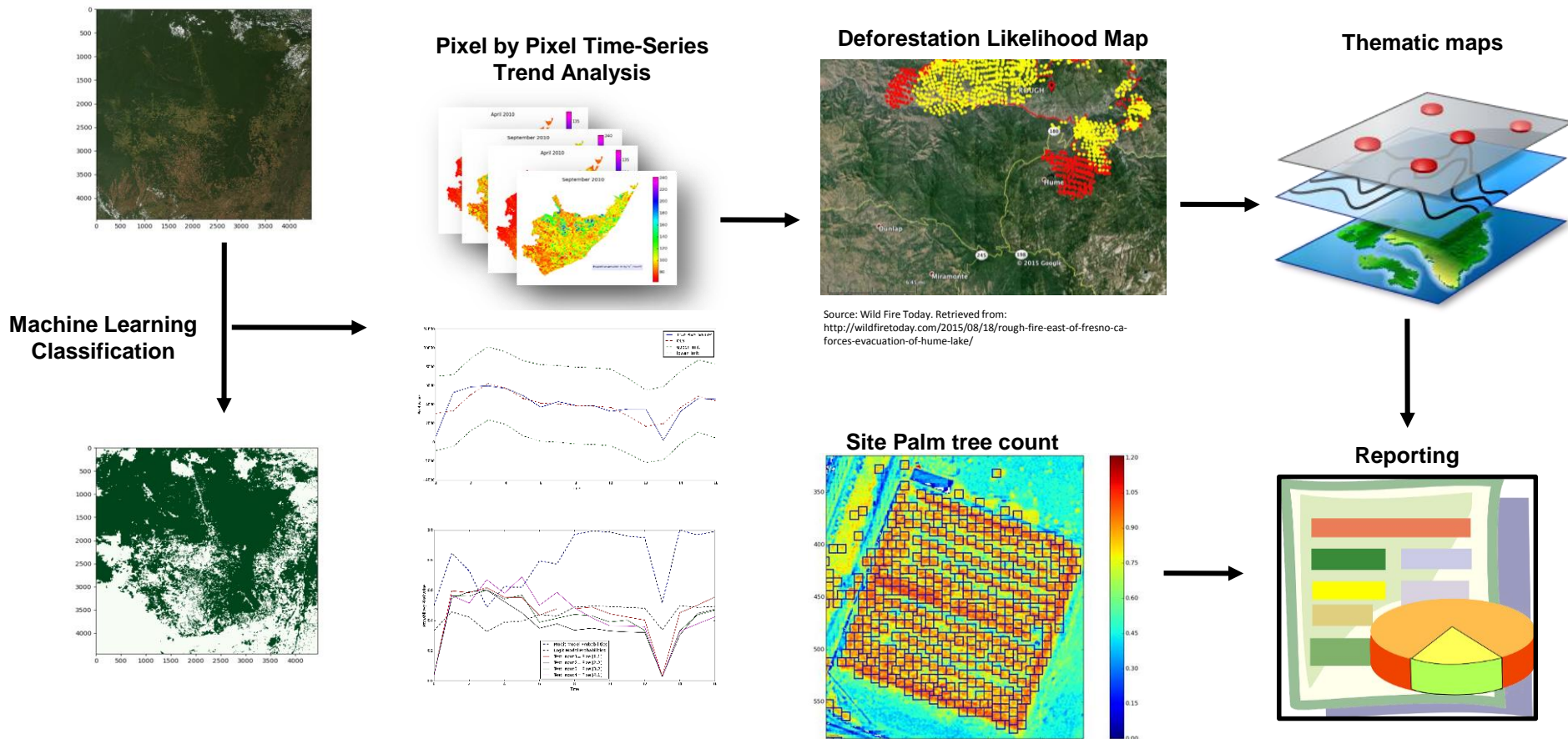


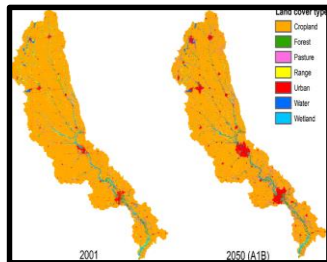
Example: Mangrove Forest cover change detection



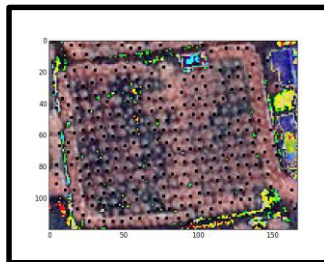


# OUR APPROACH? AUTOMATED GREEN COVER DETECTION SYSTEM

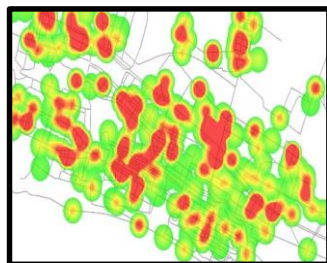




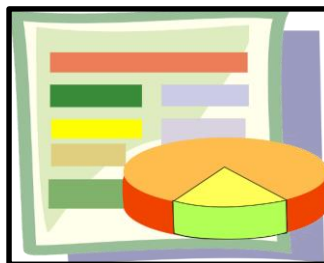
Land use land cover Maps



e.g. Palm tree count



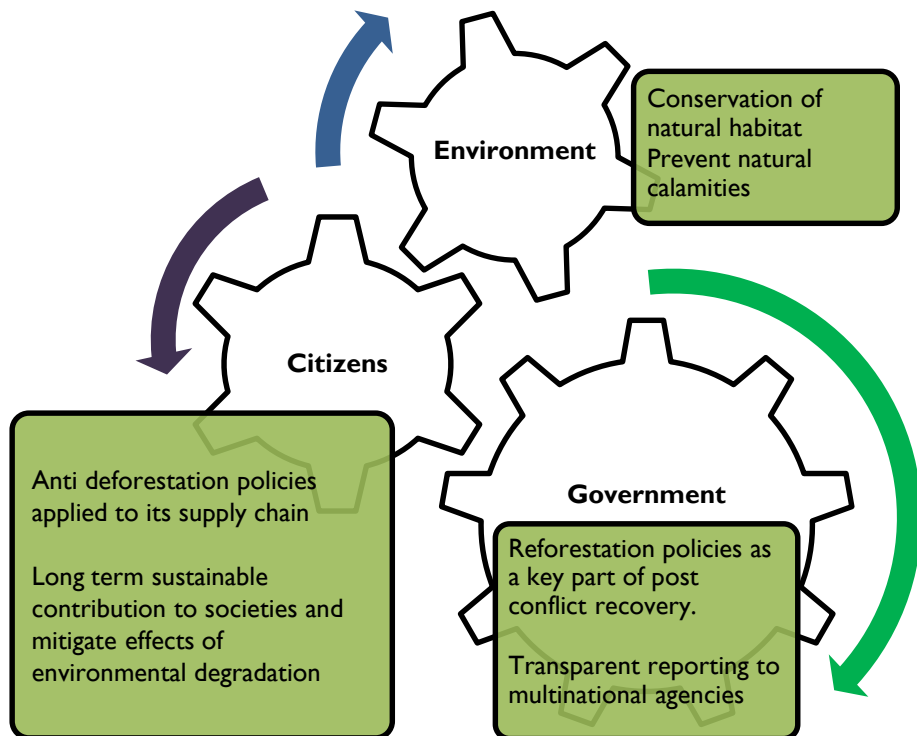
Deforestation likelihood map



Monthly monitoring report

**For Example:**  
Our automated monitoring forest management system help decision makers to strategies against the illegal logging and natural calamities that has drastic environmental and economic implications.

# OUR SOLUTIONS FOR DIFFERENT STAKEHOLDERS?



The Automated Forest and Green Cover Monitoring System enables stakeholders to achieve multiple objectives using SatSure's unique image processing models based on satellite images, connecting it with other big data to indicate logging patterns or to predict such patterns through historic multi-variable data analysis.

# OTHER APPLICATIONS?



INFRASTRUCTURE

Town Planning  
SDGs  
Utilities  
Smart Cities



OIL & GAS

Geospatial Services  
Production Optimization  
Supply and Logistics



AVIATION

Route Optimization  
Predictive Maintenance



CRITICAL  
NATIONAL  
INFRASTRUCTURE

Video Analytics  
Log Analytics  
Predictive Policing  
Geo Spatial Intelligence



NEW SPACE

EO Products  
Data Management



TELECOM

RF Planning  
Location Analytics



AGRICULTURE

Crop Management  
Water Resources  
Forest Management  
Irrigation Management



# PARTNER ECOSYSTEM



**NVIDIA.**  
INCEPTION  
PROGRAM



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# THANK YOU