



Intelligence

**SPOT 6/7  
for Agriculture**

The right information  
at the right time!

# Providing Answers for Agriculture Applications

## Crop Monitoring in Brazil

### ■ Challenge

- Assess the status of soy bean and sugar cane crops the evolution of various crops in Brazil
- Localise parcels on cadastral maps with accurate geo-data source

### ■ Method

- NDVI generation
- 4 acquisitions within 09 days to get cloud free image in cloudy area

### ■ Customer

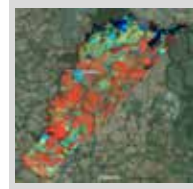


Cocamar Cooperativa Agroindustrial is now one of the largest cooperative organizations in Brasil, established in Maringa, Parana State.

### ■ Solution

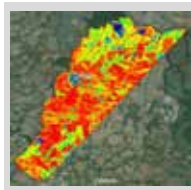


Natural colours

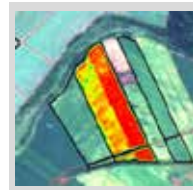


False colours

Great quality and accurate NDVI processing maps



NDVI



Parcel soy beans

## Generation of Land Cover Map at National Scale

### ■ Challenge

- Follow the evolution of agricultural areas at a country level
- Classification without prior information
- 4 to 6 yearly homogeneous coverages following crops development

### ■ Method

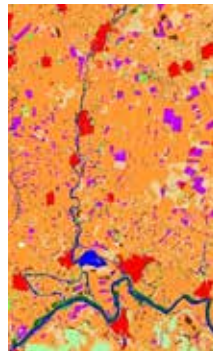
- Object-based segmentation
- Biophysical parameters layers generation

### ■ Customer

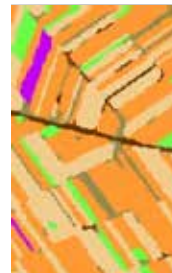


The Serbian Republic Geodetic Authority is a specialized organization carrying out technical and administrative tasks related to state survey, land cadastre, real estate cadastre, utilities cadastre and registration of real estate rights, their maintenance and updating as well as other assignments defined by the Law. It aims at setting up a National Spatial Data Infrastructure and a Remote Sensing Centre for the Republic of Serbia.

### ■ Solution



Global 13-class land cover segmentation



## Optimize your budget for

- Monitoring the Growth of Crops
- Land Cover Mapping
- Land Use Management

## Product Description

- 1,5m or 6m colour resolution
- Daily image collection opportunities
- Natural colour and Near Infra-red information
- Accurate positioning (5-10m CE90)

## Key Benefits

- **Daily collection opportunity** acquisitions at the right period of the cultural cycle whatever the weather
- **Large coverage** for mapping up to national scale
- **Discrimination of small parcels** in fragmented areas
- **Improved accuracy** in the detection of the intra-parcel heterogeneities (<0.05ha)
- **Perfect overlay with cadastral maps**