

National Agricultural Survey 2014

Use of technology for obtaining
information



National Agricultural Survey 2014

- The latest statistical event of the agricultural sector in Mexico.
- Generated information for 34 agricultural products



- 29 agricultural products

- 3 cattle products

- 2 products derived from animals



Agricultural products with national representivity and for the main state producers



Bovine



Hogs



Poultry



Milk



Eggs



Maize



**Yellow
Corn**



**Fodder
corn**



**Sugar
Cane**



**Wheat
grain**



Avocado



**Sorghum
grain**



Beans



Chile



Alfalfa



Tomato



Potato



Melon



Watermelon



Coffee



Orange



Grape



Banana



Lemon



Mango



Onion



Courgette



**Green
tomato**



Cotton



Apple



Cacao



Rice



Barley



Soybean

Use of technology for the National Agricultural Survey 2014

Changing collection in paper to electronic collection



Cartography and questionnaire integrated in the tablet

Use of a mobile electronic device (Tablet)

System integration for collecting and reviewing information

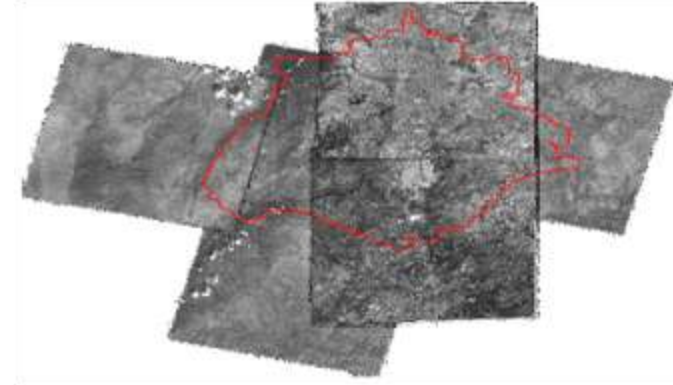
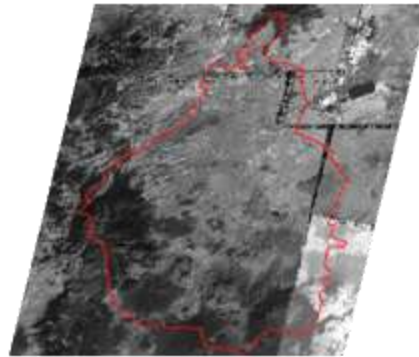


INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

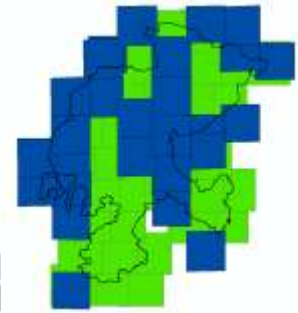
Satellite Image

SPOT 6/SPOT 5

- Panchromatic
- High space resolution (2.5 m)
- Images coverage by State and Municipality



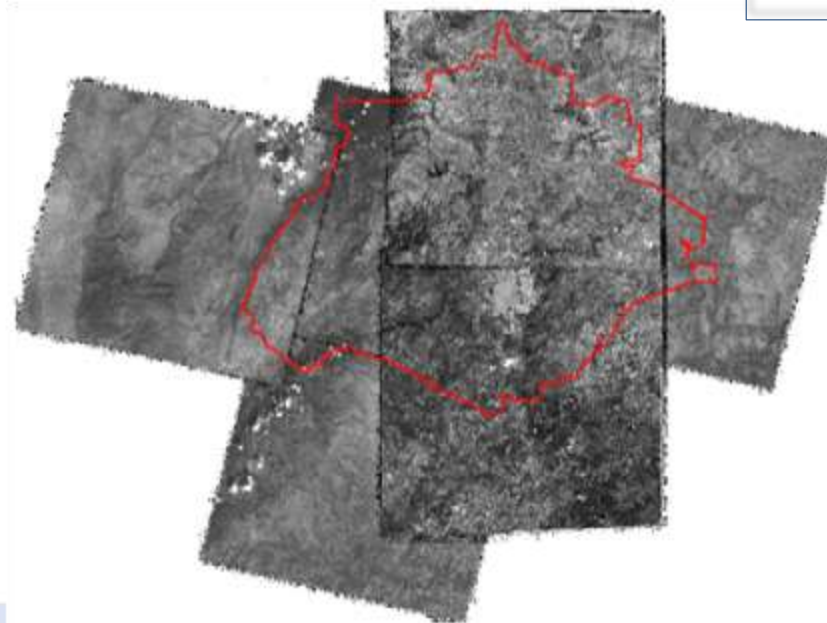
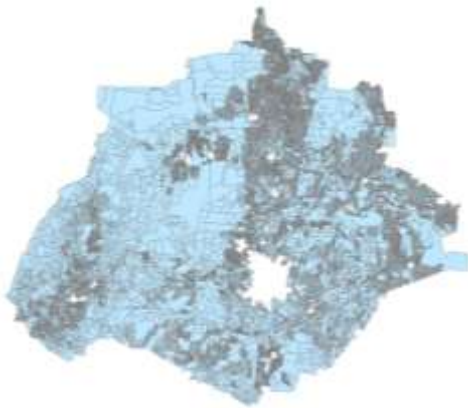
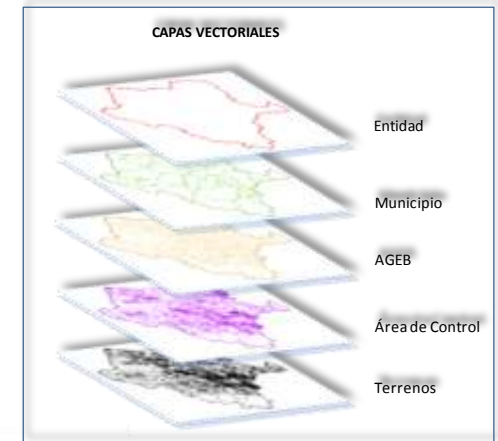
SPOT 6
SPOT 5



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Landplot shape files from last Agricultural Census

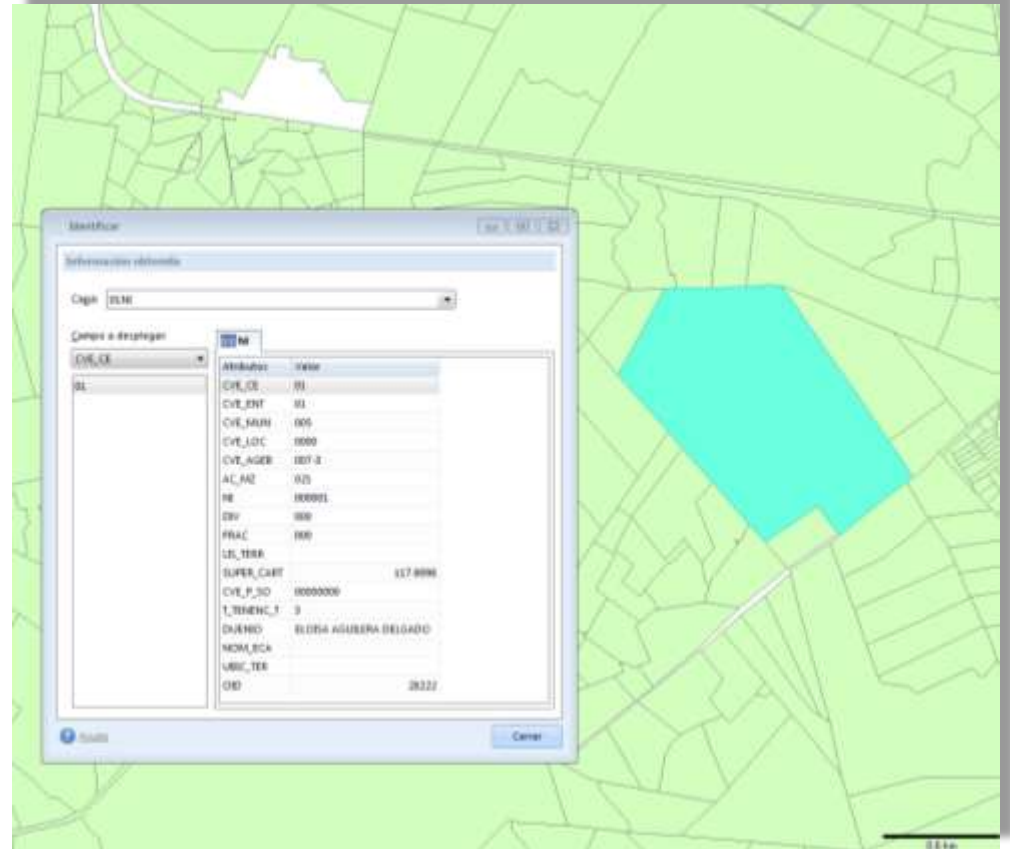
- Landplots *Layer shape*
- Reference System compatible with satellite image



Landplot shape files from last Agricultural Census

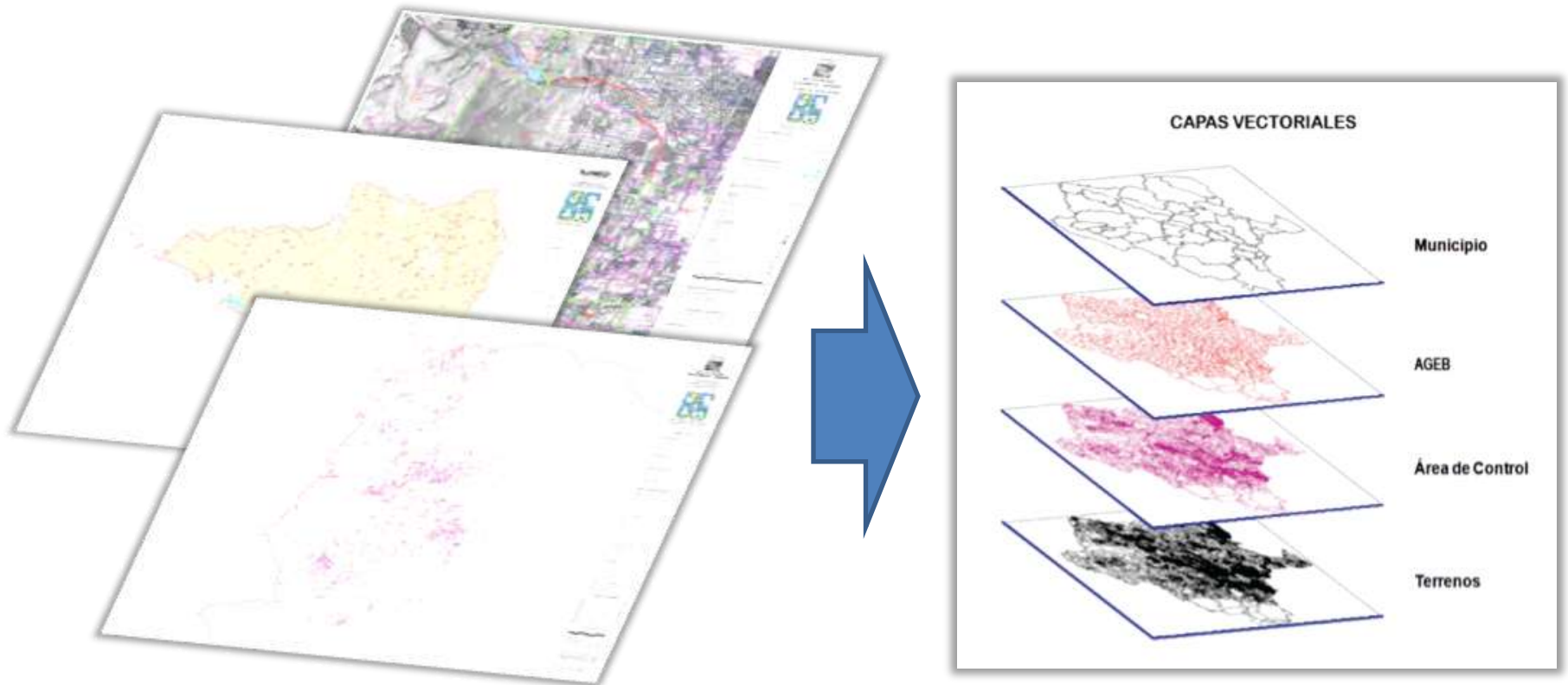
Attributes of landplots:

- Geostatistics
- Location
- Area
- Land Tenure



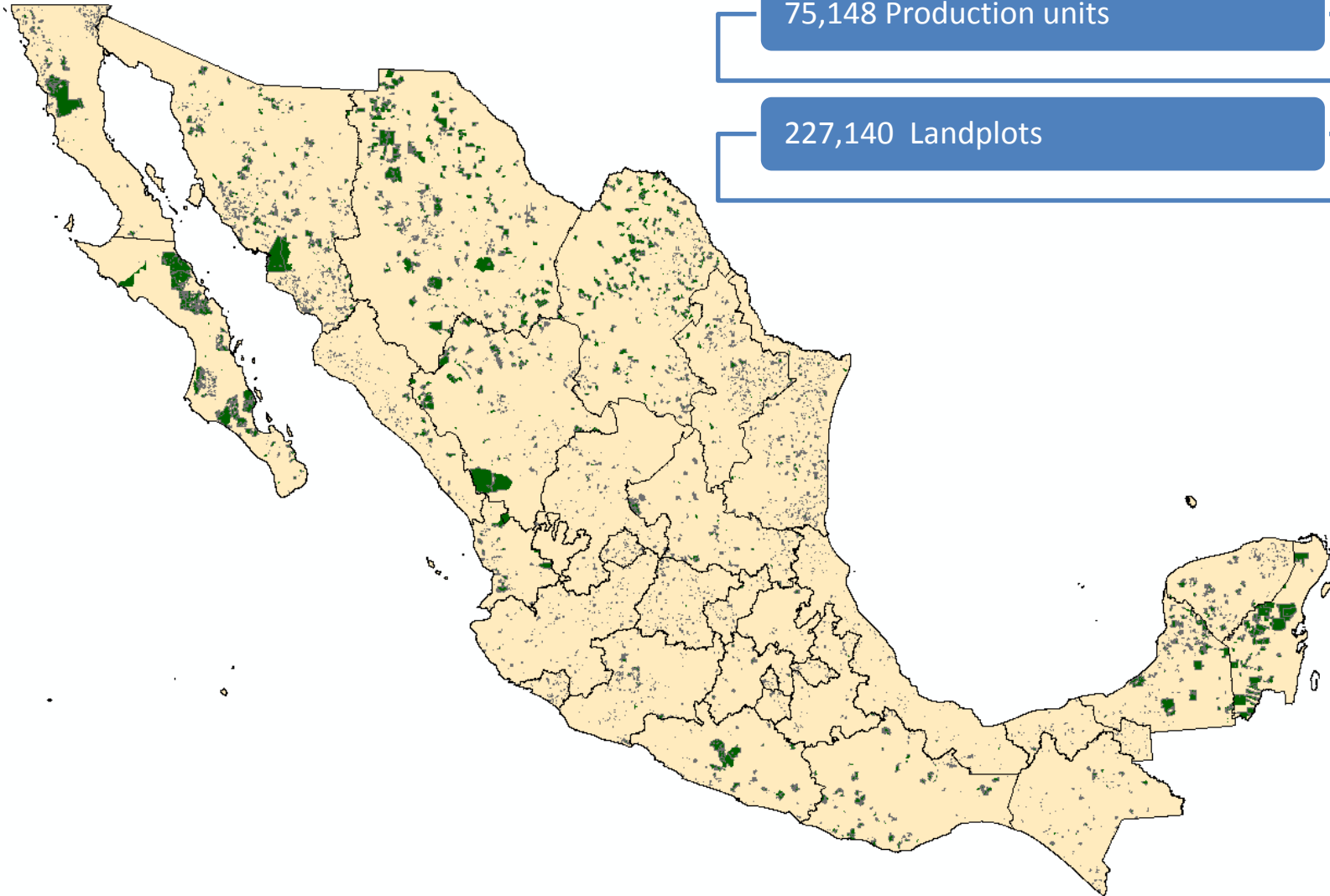
INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Change from printed cartography to digital files



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

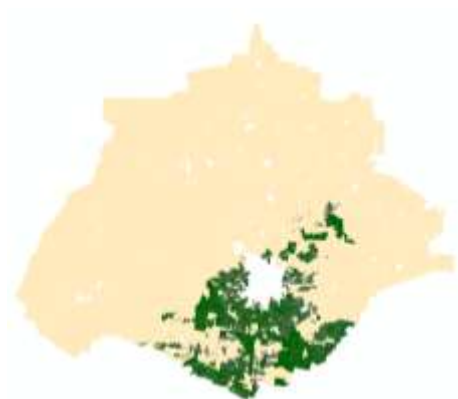
Planning the survey



Planning the survey

From the
universe of
production
units and its
landplots

Selection
of the
sample



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Technology to collect information in the National Agricultural Survey 2014

Computer
Geospatial
tool

- Cartographic System

Computer
Statistical
tool

- Information about landplots
- Questionnaire



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

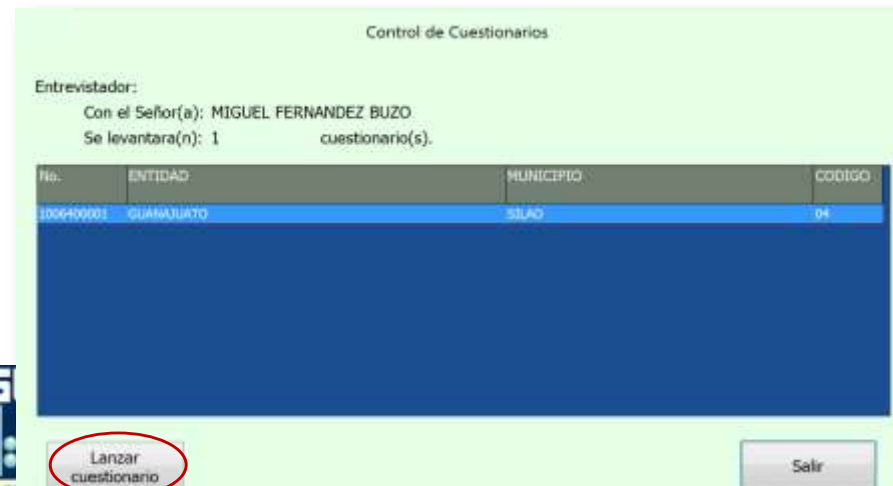
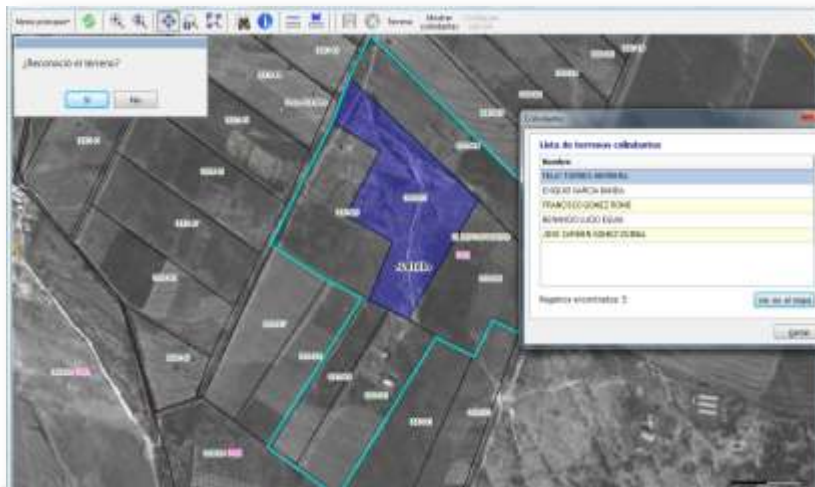
Computer Geospatial and Statistical tools



Geospatial component



Statistical component

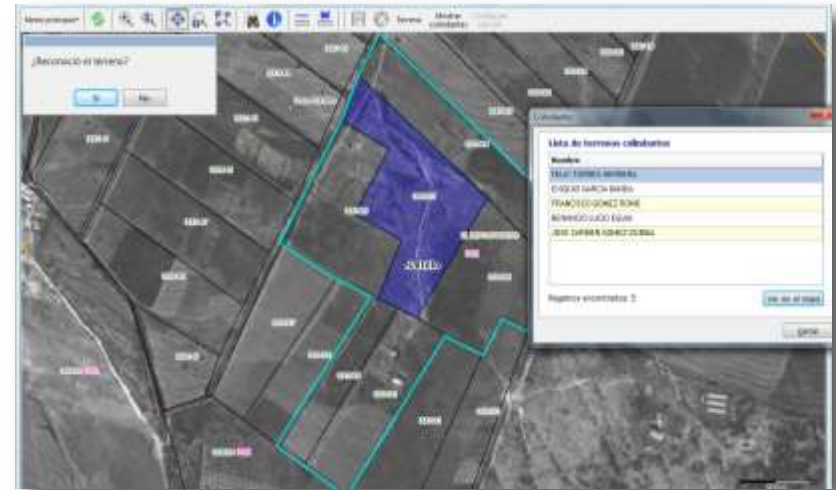


Activities with the geospatial tool

Identification
of producer
landplot

Adjust
landplot
boundaries

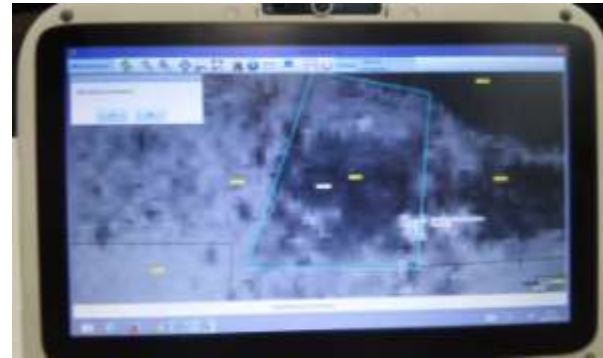
Obtaining
the area



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Identification of the producer landplot

- The location of the landplot is shown to the producer by using the SPOT image, (panchromatic of 2.5 m resolution).
- Surveyor makes different zooms to get better identification.
- Features are used to help the producer in the identification of his landplot.



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Adjust landplot boundaries

Landplot identification



It is confirmed if there is only one owner



If there are more owners, a division is made

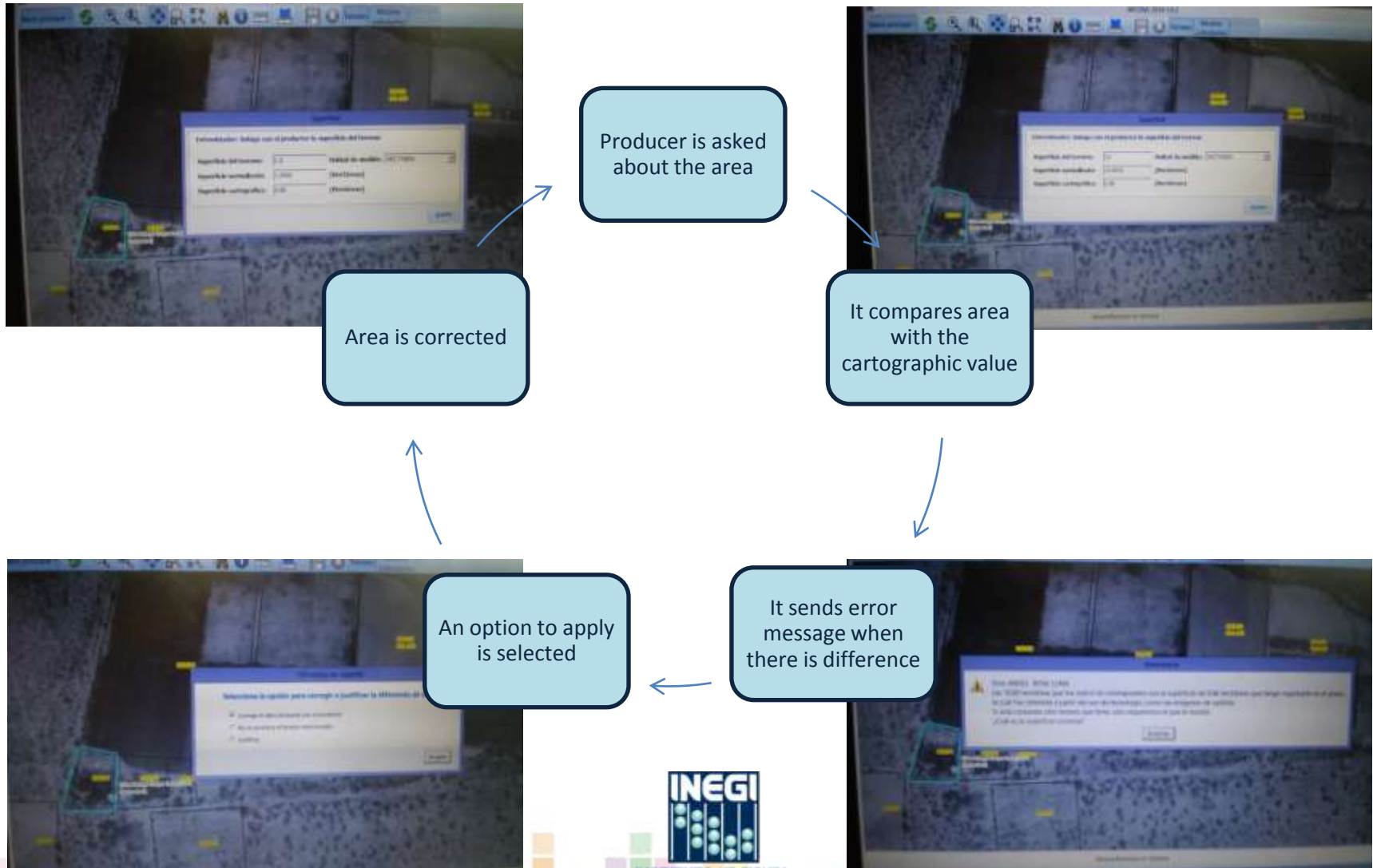


Actual landplot with its area



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Obtaining the area



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Activities with the statistical tool

Information
of landplot

Collect
questionnaire
information

Confirm area
of the
production
unit (farm)



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Landplot information

Entrevistador: con base a lo que indique el productor, actualiza los datos del terreno que corresponde

Superficie del terreno:

Superficie normalizada: (Hectáreas)

Entre octubre del año pasado y septiembre de este año, ¿Cuál fue la actividad principal a la que se dedicó este terreno según sus ingresos?

AGRICULTURA A CIELO ABIERTO

En este terreno, ¿Cuántas hectáreas dedica a la agricultura? Unidad de medida:

De esta superficie, ¿Cuántas hectáreas son: de riego? Unidad de medida:

de temporal? Unidad de medida:

¿Cuál es el principal cultivo que siembra en este terreno?

¿Cómo se conoce al lugar donde se ubica el terreno?

Nombre del dueño: Apellido paterno: Apellido materno:

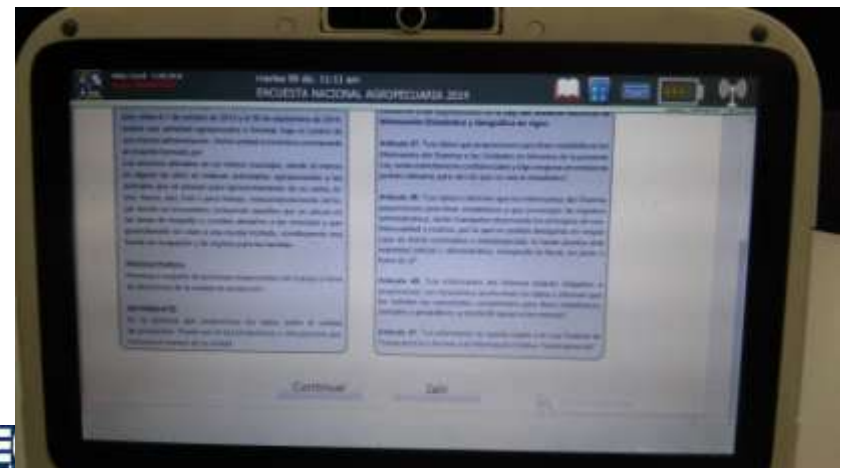
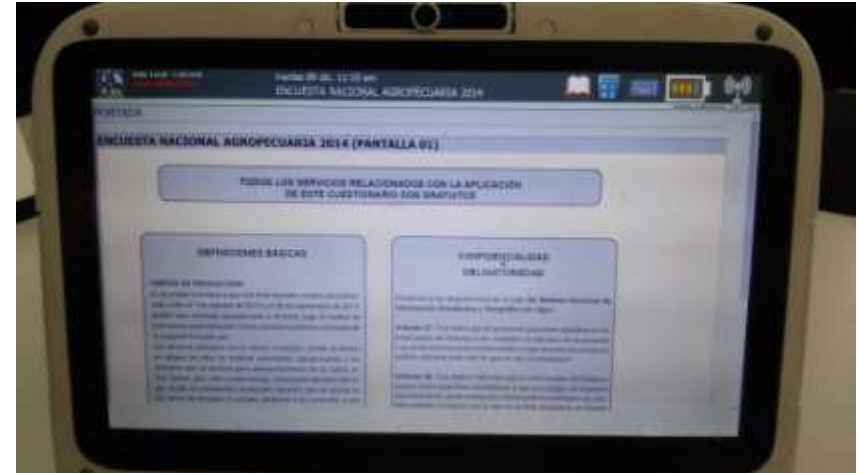


INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Questionnaire collection

Before the collection
there is information for
the producer:

- Basic definitions
- Confidentiality and
obligatory nature of the
information



Confirm area of the production unit



Confirmation of the
stated area



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Sending information through internet



Sistema de envios

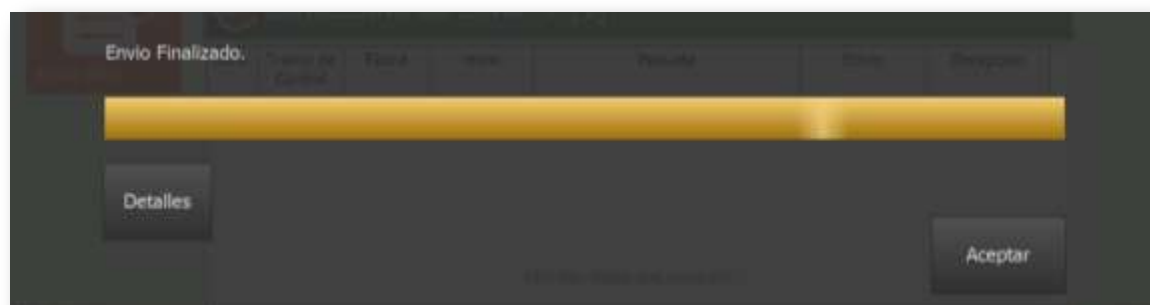
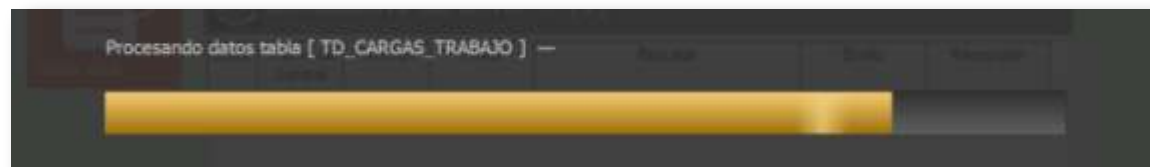
Listado de paquete para envio

 Envio Web

Consecutivo de Envío -> [1]

Cons.	Tramo de Control	Fecha	Hora	Paquete	Envío	Recepción

Selection of available *wifi* and sending



← Sistema de envíos

Envío Web

Listado de paquete para envío

Consecutivo de Envío -> [1]

Cons.	Tramo de Control	Fecha	Hora	Paquete	Envío	Recepción
1	25185	10/09/2014	03:41:27 pm	25185_10092014_1_034127pm	Paquete Genera	Envío Correcto

Conclusions

- Use of technology allows:



- To reduce to minimum the printed cartographic materials



- To update the shape of landplots during the interview with the producer



- To confirm area information by keeping control of the coverage



- To generate information without georeferencing problems



*Porque proporcionamos información para
todos...*

01 800 111 46 34

www.inegi.org.mx

atencion.usuarios@inegi.org.mx

¡México cuenta con el INEGI!

