

Mobile System for on the Spot Checks

For Use at Inspections of Area Based Schemes



County Administrative Board of Västra Götaland

Previous Method of Working

- **In the field.**
 - Paper print outs of ortofotos
 - Paper maps of the cadastres
 - A paper formula to which the observations were being noted.
 - No GPS was used.
- **At the office.**
 - The papers from the field was used as originals
 - Manual typing of observations into the database
 - Manual drawing of the borders of the fields and the areas of discrepancies into our GIS system.

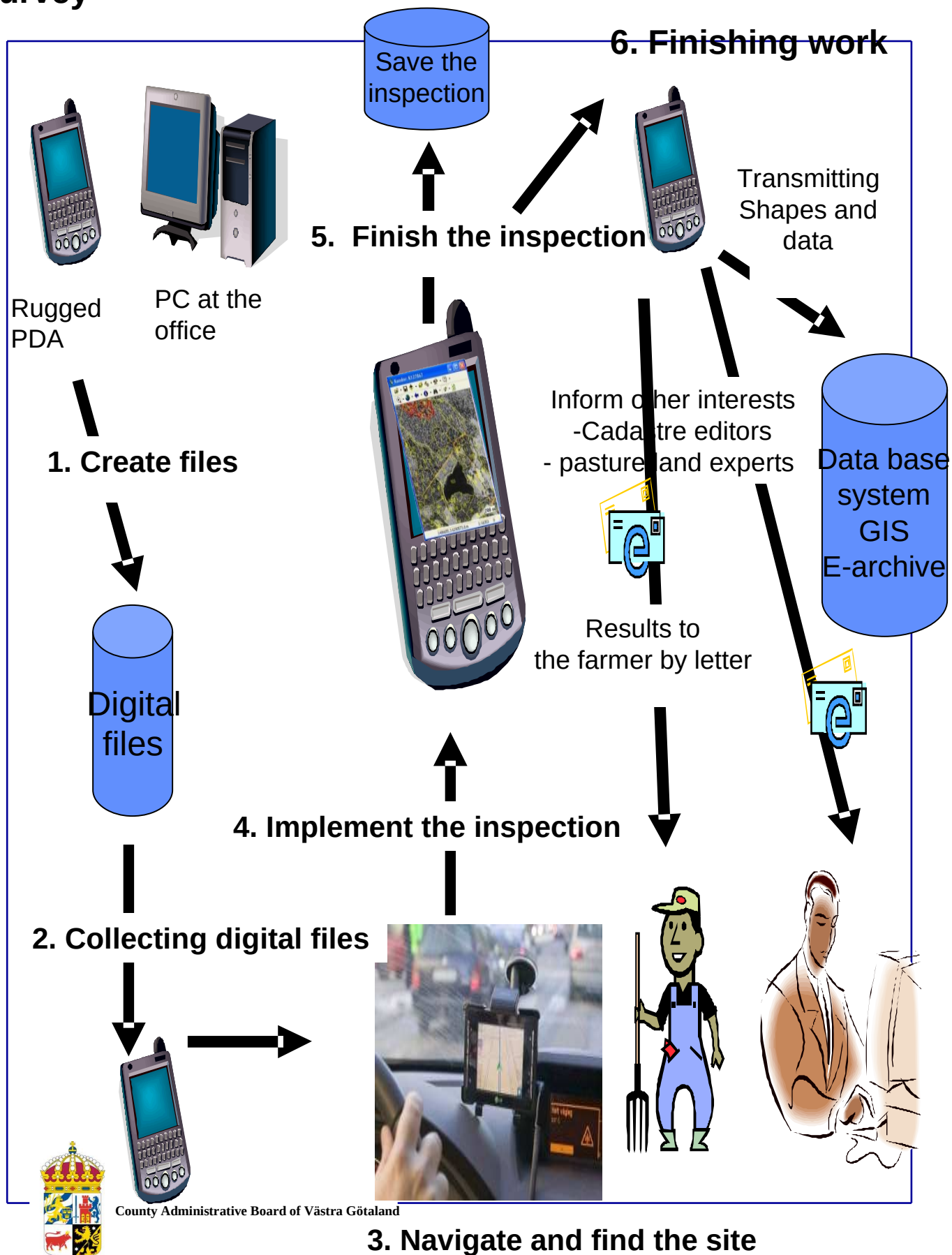


Mobile System for on the Spot Checks

- In the field.
 - The inspector uses a PDA for the entire inspection.
 - Connected to the PDA is uncorrected GPS data for support when drawing borders on to the ortofoto.
- At the office.
 - All the data and drawn borders at the map are automatically transferred into the data system and GIS. Data is being finally verified.



Survey



How Does It Work?

- At the office.
 - Connecting the PDA to the LAN.
 - Collecting data needed for the inspection of the chosen schemes at the company to inspect
 - Automatically downloaded from three different databases
 - Application data
 - Borders of the cadastres and when applicable also the borders of the fields and areas of discrepancies drawn at the last checking occasion. When field visiting is due to interpretation of RS-views these borders also are downloaded
 - Ortofotos
- Resident in the PDA we have a car map of the entire county.



The Initial Interview at the Farm

Arealkontroll - Eko. 18:21

Utsäde/förökningsmaterial...

| Gröda | Sort | Eko/konv | Behandl | Sådatum |
|-------|------|----------|---------|---------|
| | | | | |
| | | | | |
| | | | | |

Kan brukaren redogöra för utsädet/förökningsmtr, ursprung och behandling?

☒ Ja ☐ Nej

[Kommentar](#)

Start 1. Växt... 2. Utsäde... 3. Tillförda göd... Arkiv

Arealkontroll - Eko. 18:30

Utsäde/förökningsmaterial...

[Stäng](#)

Gröda

Sort

Eko/konv.

Behandling

Sådatum 2007-05-13

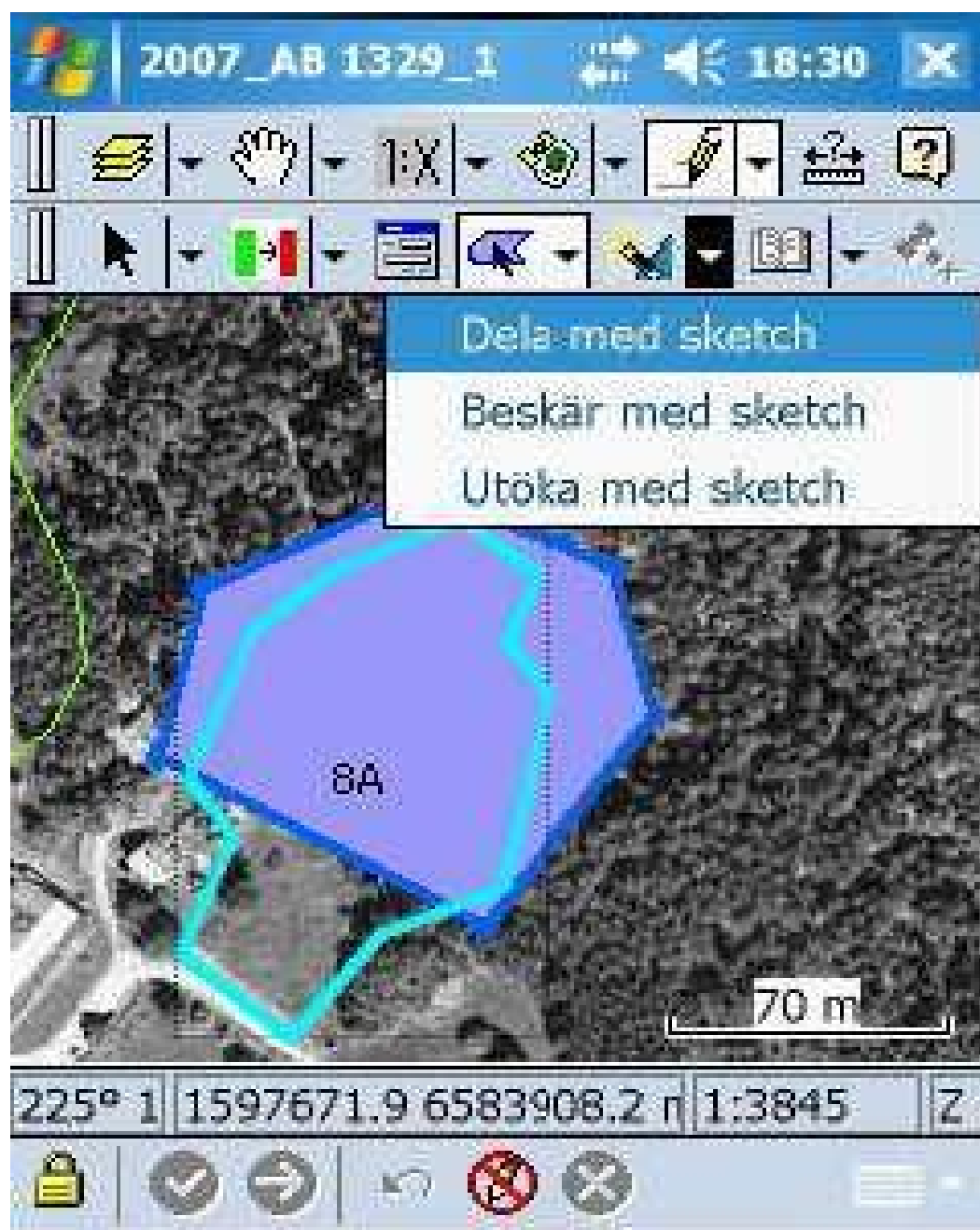
1. Växt... 2. Utsäde... 3. Tillförda göd... Arkiv



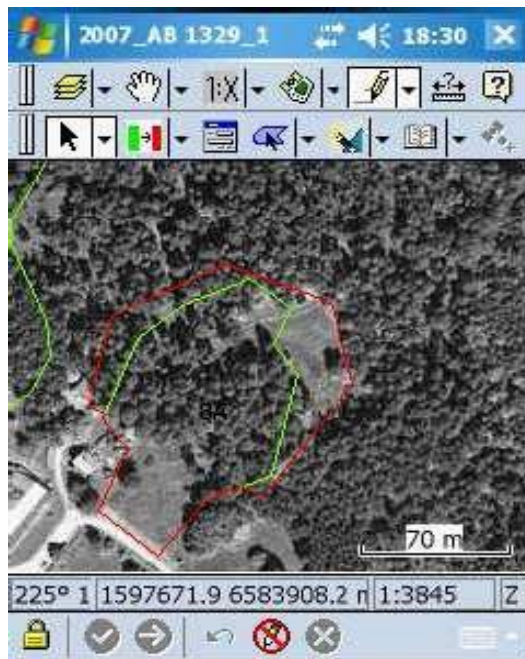
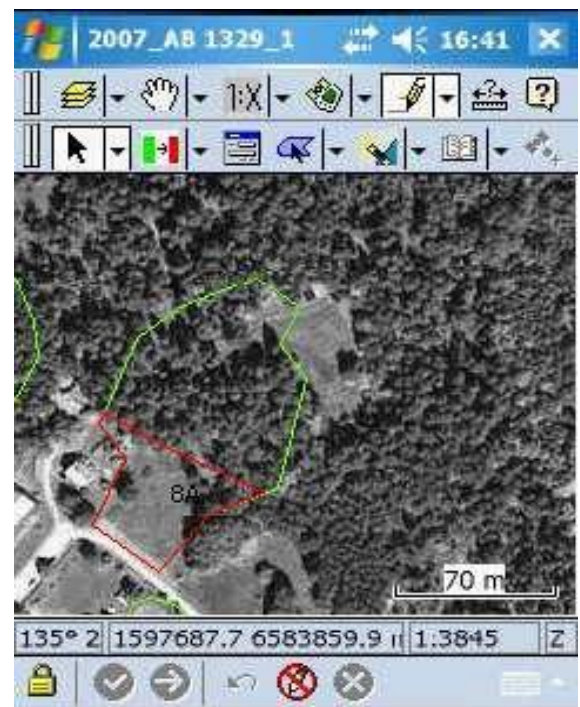
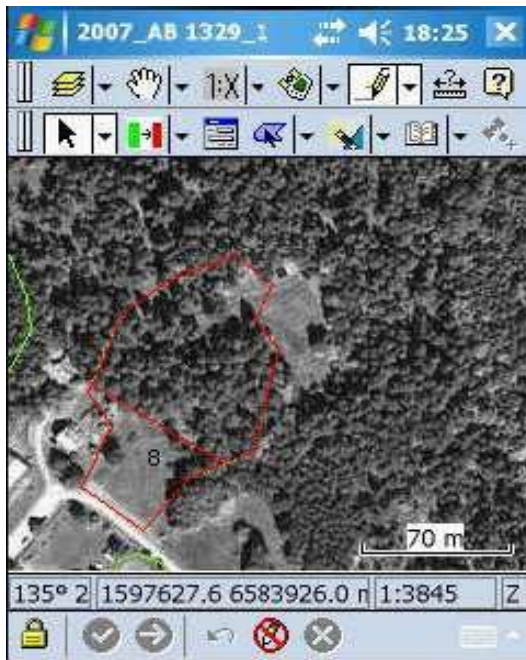
Create a New Field



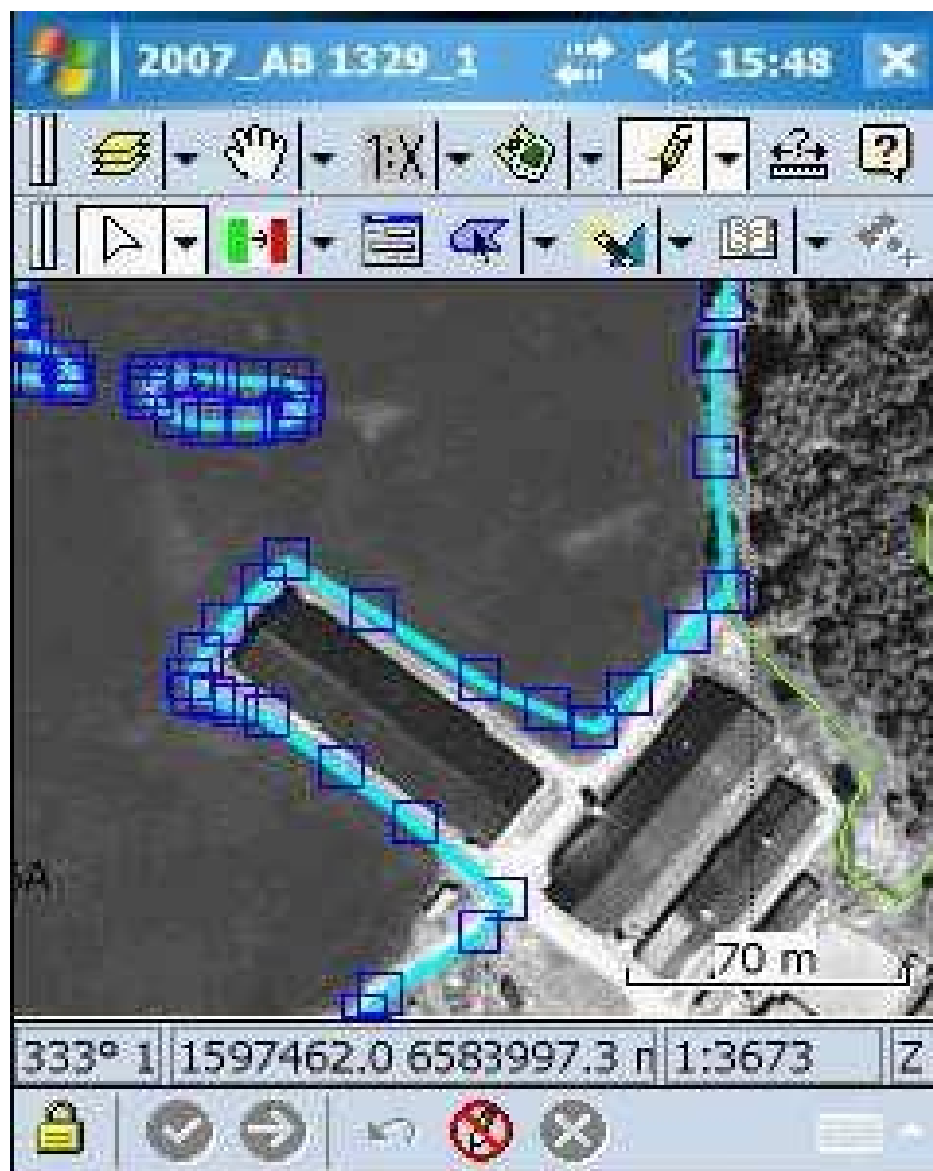
Out in the Field



Out in the Field



Out in the Field



Out in the Field



Out in the Field

Valt skifte: 4A 11:00

Avvikelseyta

| | |
|----------------------|---------------------------|
| Skiftes - beteckning | 4A |
| Löpnummer | 1 |
| Kontrollpunkt | 418 |
| Klartext | Ingen gröda |
| Anteckning förslag | Uppt trampat |
| Anmärkning | Uppt trampat, ingen gröda |
| Id | 0 |
| Kontrollskifte ID | 0 |

Attribut 1(2) Attribut 2(2)

OK X

Valt skifte: Godsalupplag 11:00

Godan består ej av va

Avvikelseyta

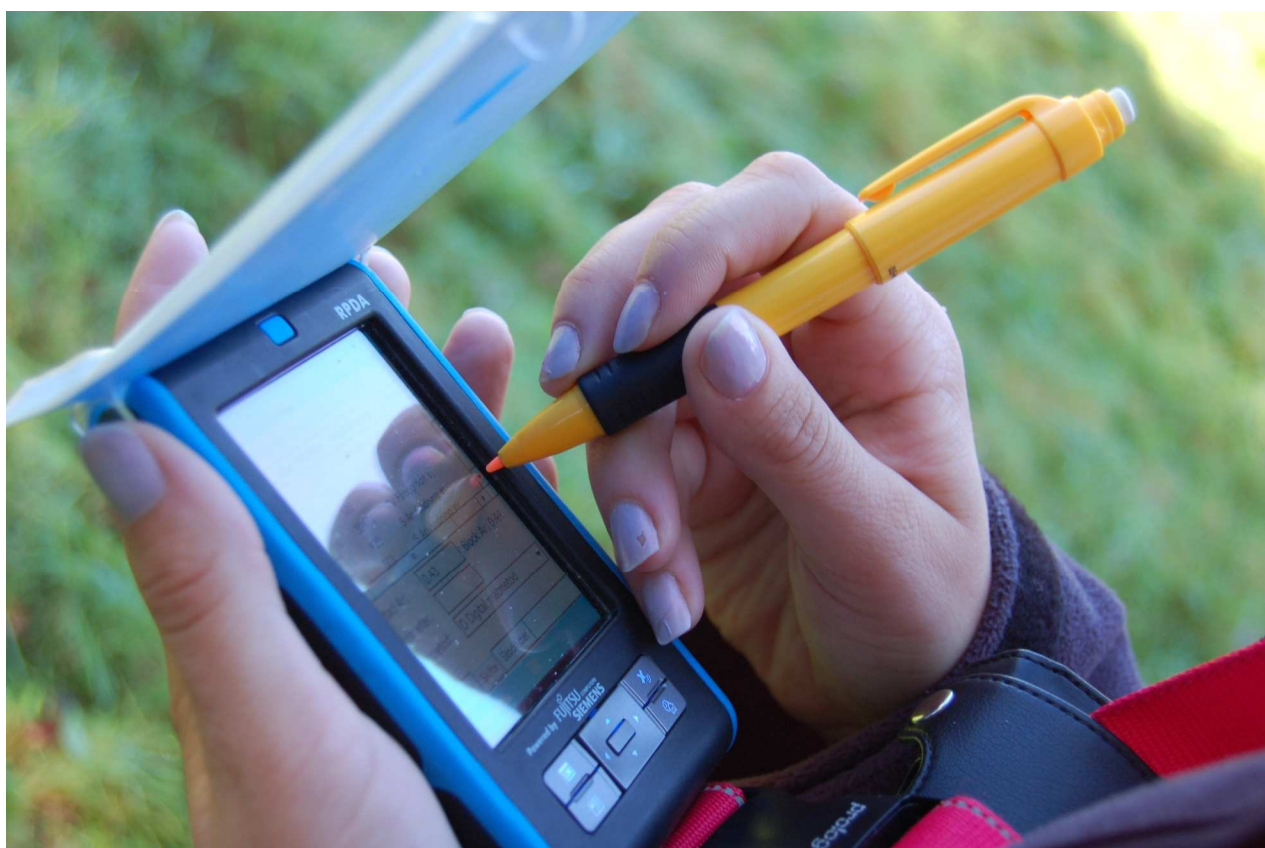
| | |
|----------------------|-------------------|
| Skiftes - beteckning | Impediment |
| Löpnummer | Osatt |
| Kontrollpunkt | Semiat |
| Klartext | Skog |
| Anteckning förslag | Tilfalligt upplag |
| Anmärkning | Tomtmark |
| Id | Tuvtat |
| Kontrollskifte ID | Uppt trampat |

Attribut 1(2) Attribut 2(2)

OK X



Out in the Field



County Administrative Board of Västra Götaland

Benefits in the Mobile System

- Saves time – maybe 20 – 30 % faster inspections
- Higher quality
 - No wrong figures are being typed into the data base
 - No accidentally mistakes in redrawing borders into GIS
 - The inspector finishes the inspection in the field – no saving of work for the office where the memory fails to remember the real situation
 - No checking and double checking of retyped data and redrawn borders



Benefits in the Mobile System

- Both the farmers and the inspectors finds it more serious when we use modern technology at the inspections
- BUT
 - There has been some initial problems in the system
 - There is still some items to be solved during the winter
 - There are still some enhancements that could be implement to make the application still more beneficial

