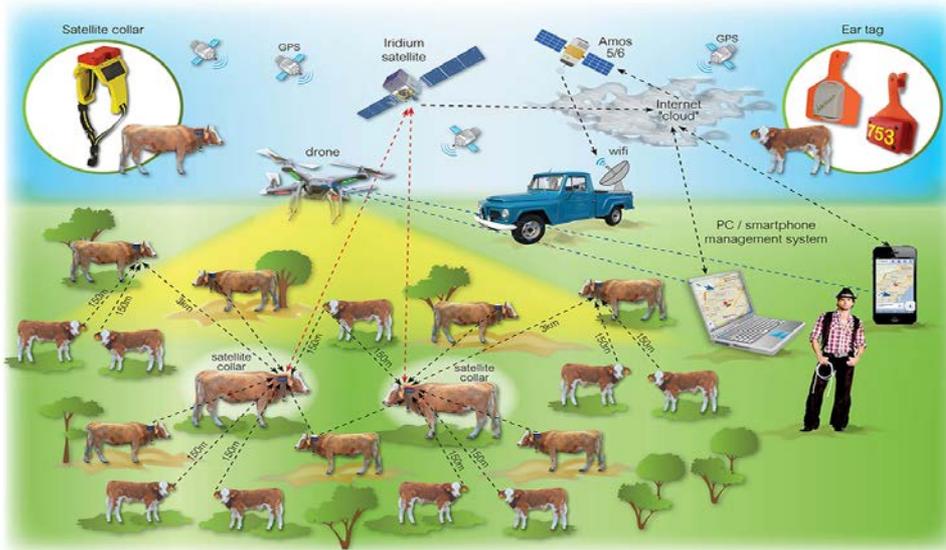


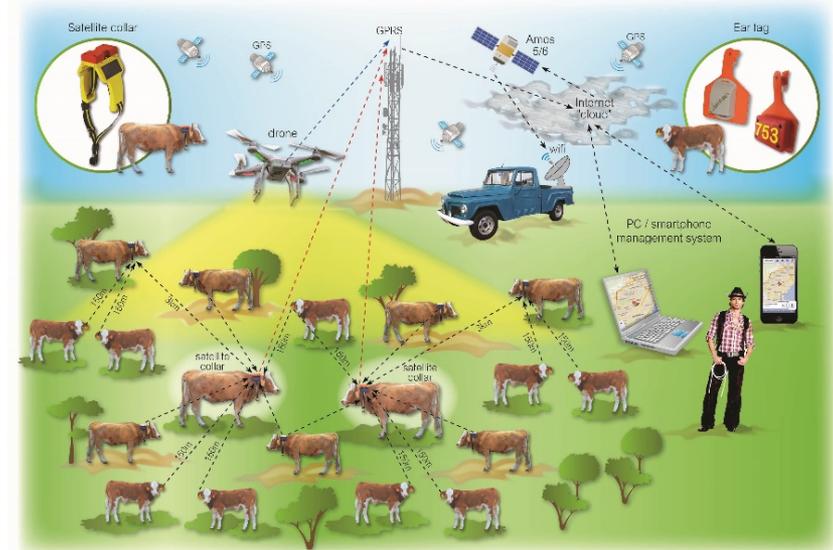
See video below

<https://www.youtube.com/watch?v=MbGvt4UFKeeb.utuoy=erutaef&8>

- ✓ Increasing yield (calves weaning) by 25% while saving 10-15% operational cost
- ✓ Identified Illness, Theft, Oestrus, pregnancy, walking, running, panic, laying, Calving, Bulls performance, Results of Bull-cattle engagement
- ✓ Theft and hostile real time alarm



Satellite based solution



Cellular based solution

Cattle Watch develops innovative, state-of-the-art technology in the field of remote monitoring systems / IoT for cattle herds, sheep and goats

The purpose of the system is to increase buy 25% the cattle's herd yield (weaning calves while saving 10% of operational cost)

The technology is based on Artificial Intelligence, Deep Learning and Mass Data algorithms

**Cattle-Watch is the only operational system for monitoring cattle's herds at the market right now**

- ✓ Increasing yield and saving operational cost
- ✓ Behavior information collecting every 4 minutes (cellular base, satellite every 4 hours)
- ✓ Herd counting every 4 minutes (cellular base, satellite every 4 hours)
- ✓ Real time & early warning for theft / hostility / illness
- ✓ Geo fences and dedicate "**Anti Theft**" electronics fence
- ✓ Worldwide coverage with 66 Iridium satellite and mobile coverage provided by Telefonica
- ✓ Automatic drone operation: day / night camera + herd's head counting device
- ✓ 10 working years for collars and Pole, 4 for ear tags (Then replacing tag)
- ✓ Collars work from -40 to +80 degrees Celsius, and under very tough grazing conditions
- ✓ Friendly Graphic User Interface for Android, IOS, any tablet
- ✓ Scalable system: from as few as 40 heads to as many as 20K heads per herd
- ✓ **Competitors:** As of now, there is no existing competitive solution in the market, providing Cattle Watch with the first mover advantage

Farmers of large cattle herds are facing three key challenges:

1. **High cattle and calf mortality** due to insufficient early disease prevention and a lack of real time monitoring
2. **Increasing cattle theft and hostile cases**
3. **Large distances**, causing high cost and hindering real time reaction

The lack of adequate monitoring leads to low yields (in terms of cattle production). Unmonitored herds show a yield of maximal 55%, while small, closely supervised herds may reach a yield of 80%.



*There is a urgent need for a cost-effective solution to monitor large sized cattle and calf herds, their behavior and health conditions, as well as to prevent theft.*

# The solution

State-of-the art remote monitoring / IoT solution that allows farmers of small and large cattle herds to reach a yield of 80%. The core product are:

1. Satellite or Cellular collar or pole



2. Ear tags or belt tag for cattle and calves

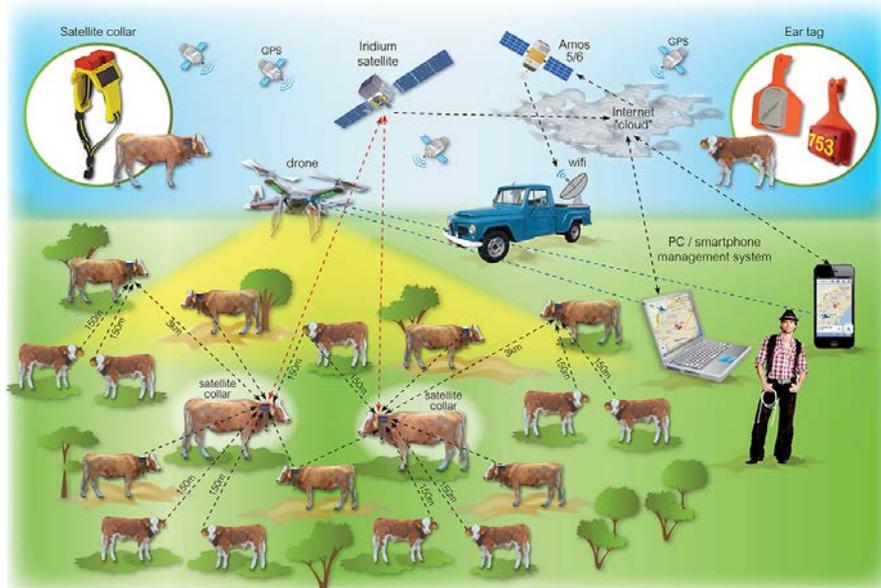


The Hub (satellite or cellular) collars are placed on each bull in the herd (~4% of the herd and 100% of the bulls). It includes GPS, solar panels, Behavior sensors (walking, grazing, resting, in-heat, etc.), satellite or cellular modem and in-herd communication system. Alternative to the collar is Solar based Pole which cover Radius of 750

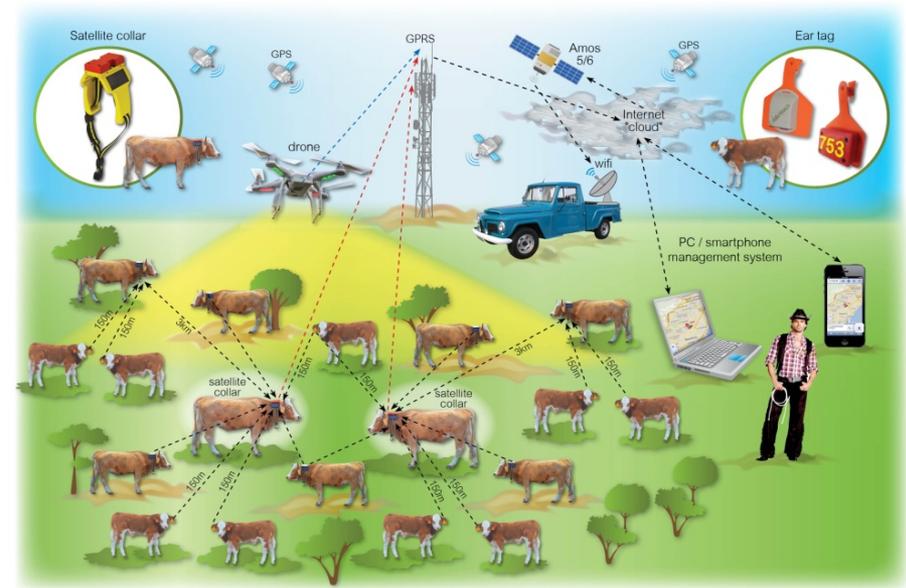
All the remaining cattle (cows and calves) are equipped with ear or belt tags. They identifies the behavior of the cattle/ calf

# How it works with collars and tags?

The system based on satellite collars when is no cellular coverage and on cellular collar when cellular coverage exist



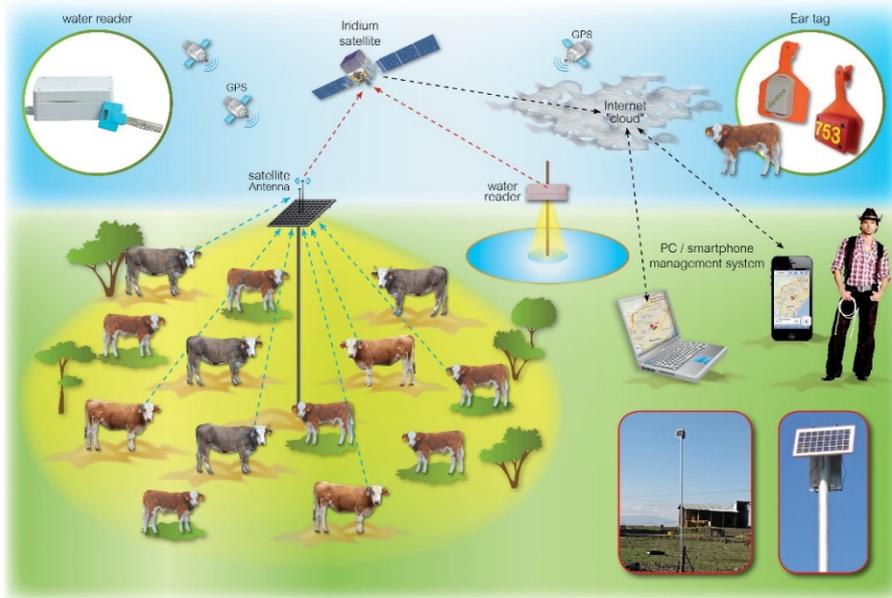
Satellite based collar



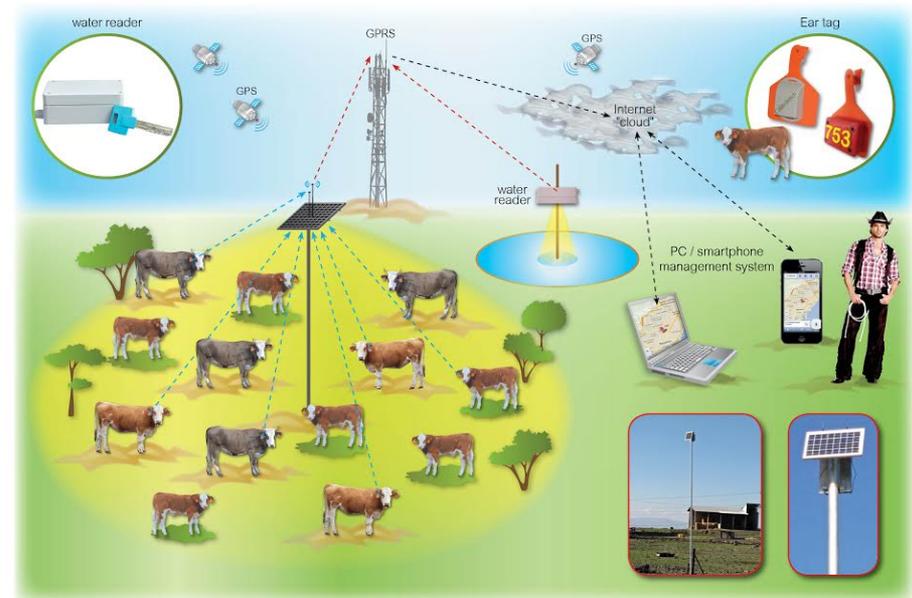
3G / GPRS based collar

# How it works with satellite pole and tags?

The system based on satellite pole when is no cellular coverage and on cellular pole when cellular coverage exist



Satellite Pole (Based on Iridium 66 satellites around the glob)

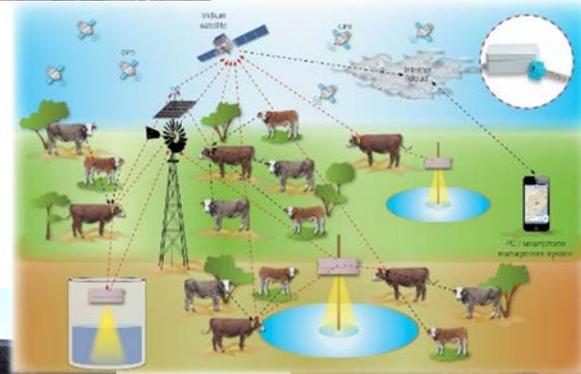
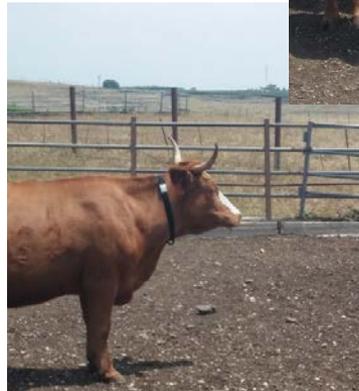
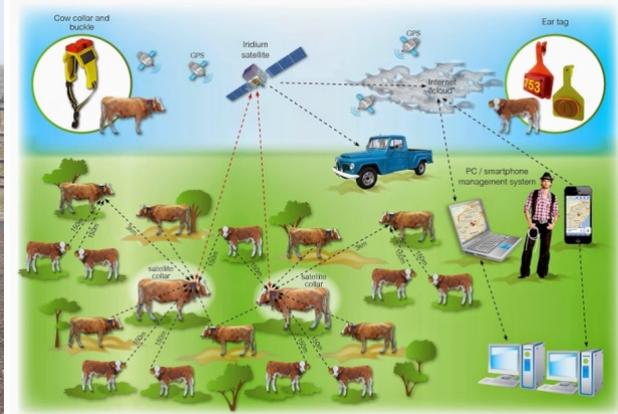


3G / GPRS based Pole

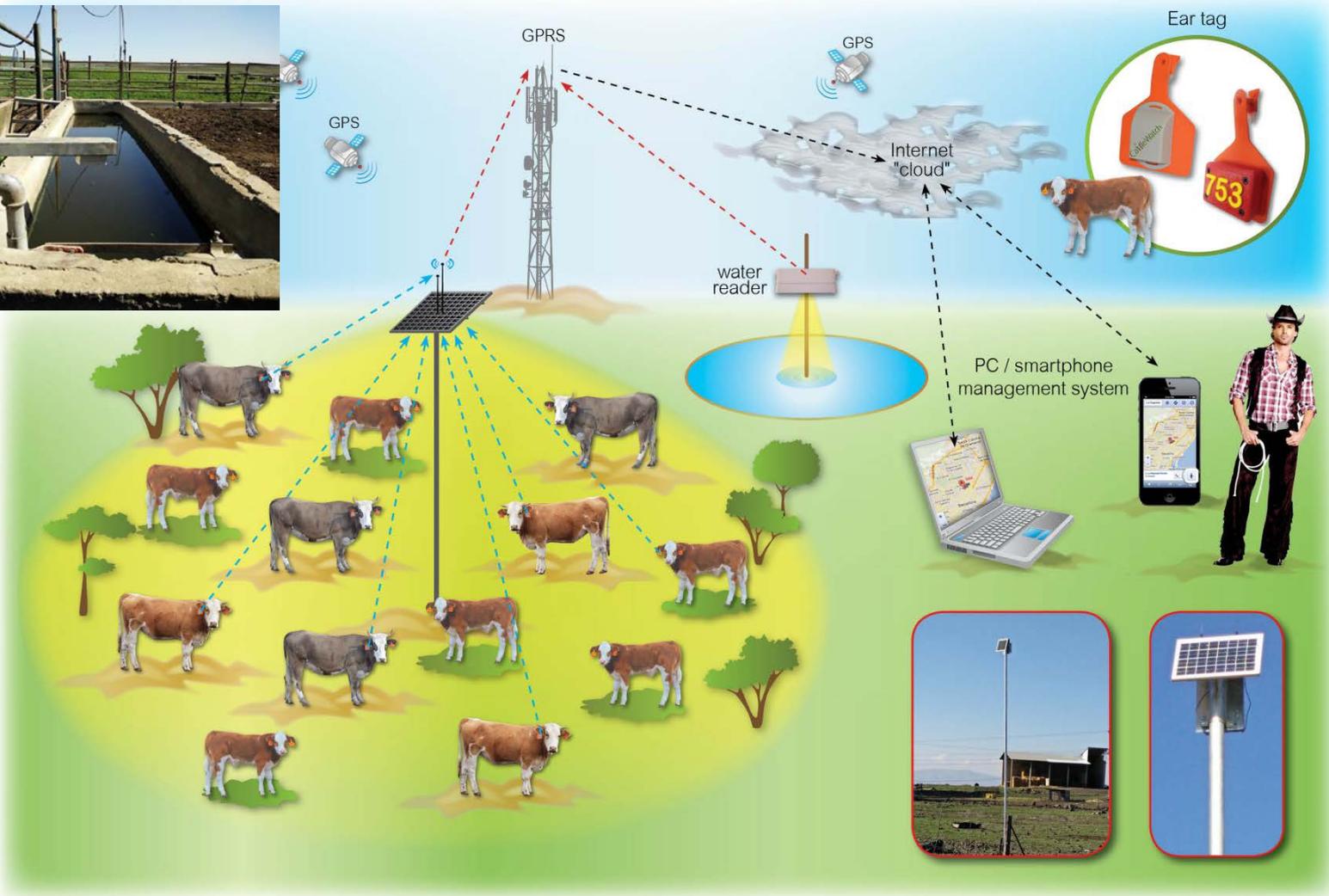
# System for large grazing area with no cellular coverage based on collars or Pole and tags

# CattleWatch

Taking care of your herd

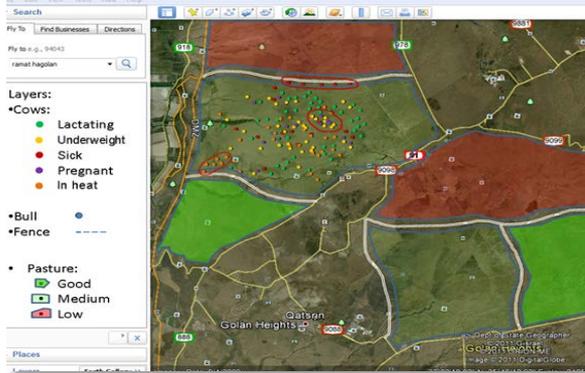


# System for small herd (500 acres/ 500 head) based on cellular Poles & Tags (750 meter Radius Geo Fence) +water level reader

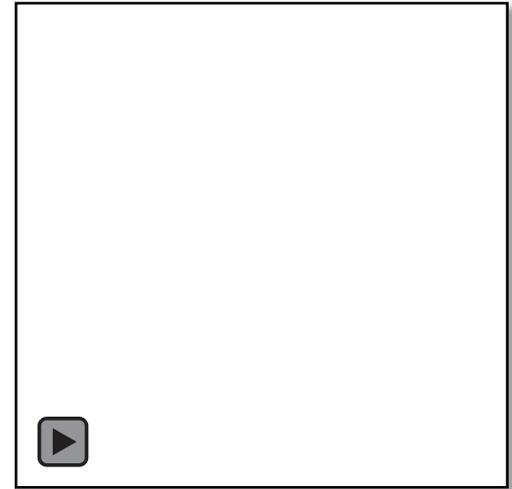


# Additional products: cattle counter and finder

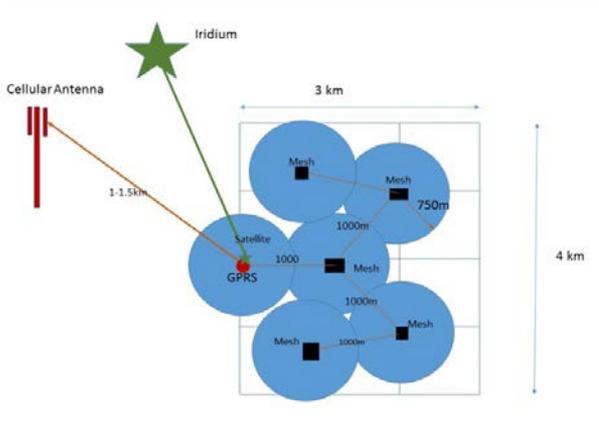
Herd management software for computer or smartphone



Cattle counter and finder based on Bluetooth to Mobile



Cattle finder animation



6 poles cover 3000 acres up to 3000 head

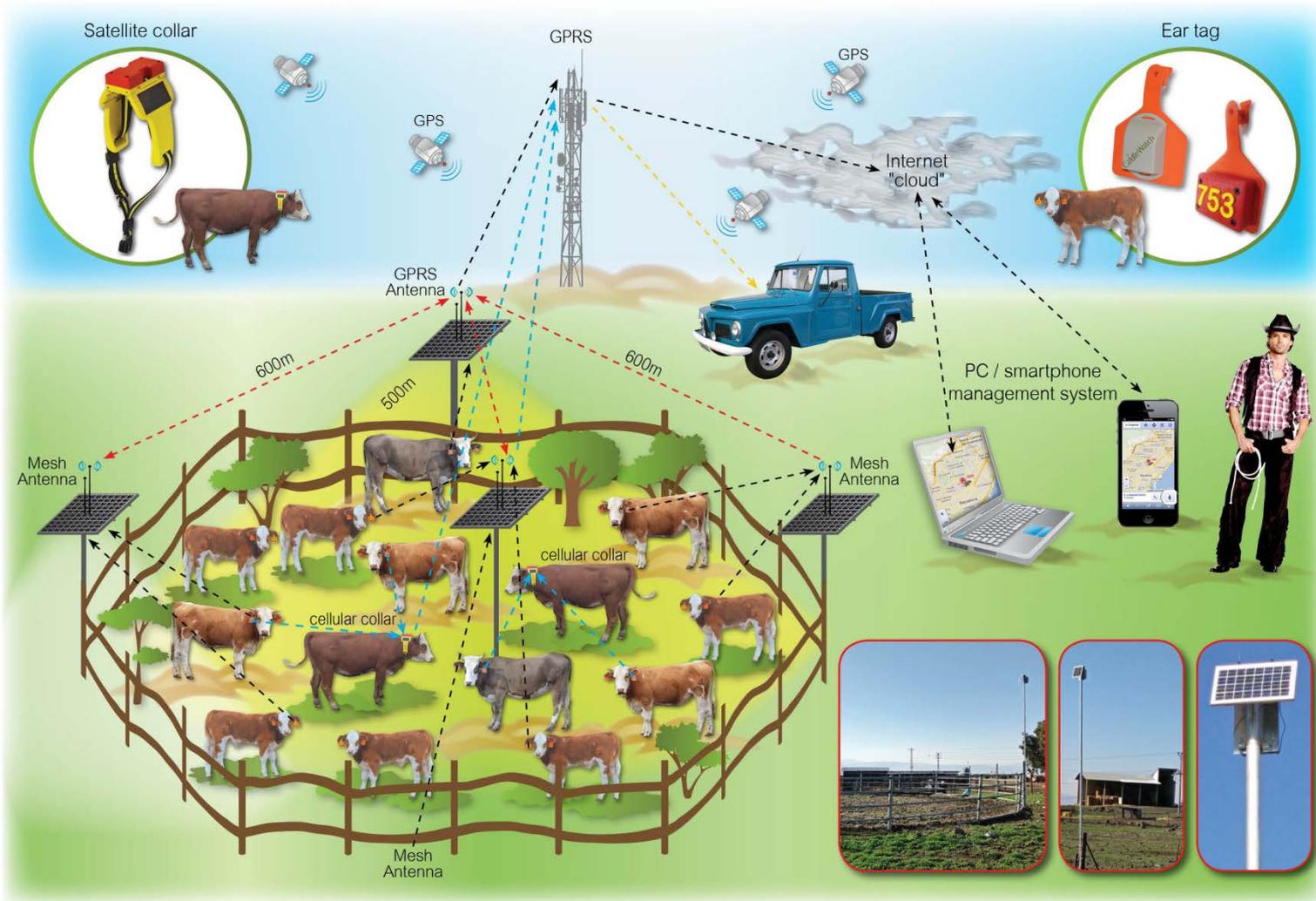


Tractor use cattle counter & Finder

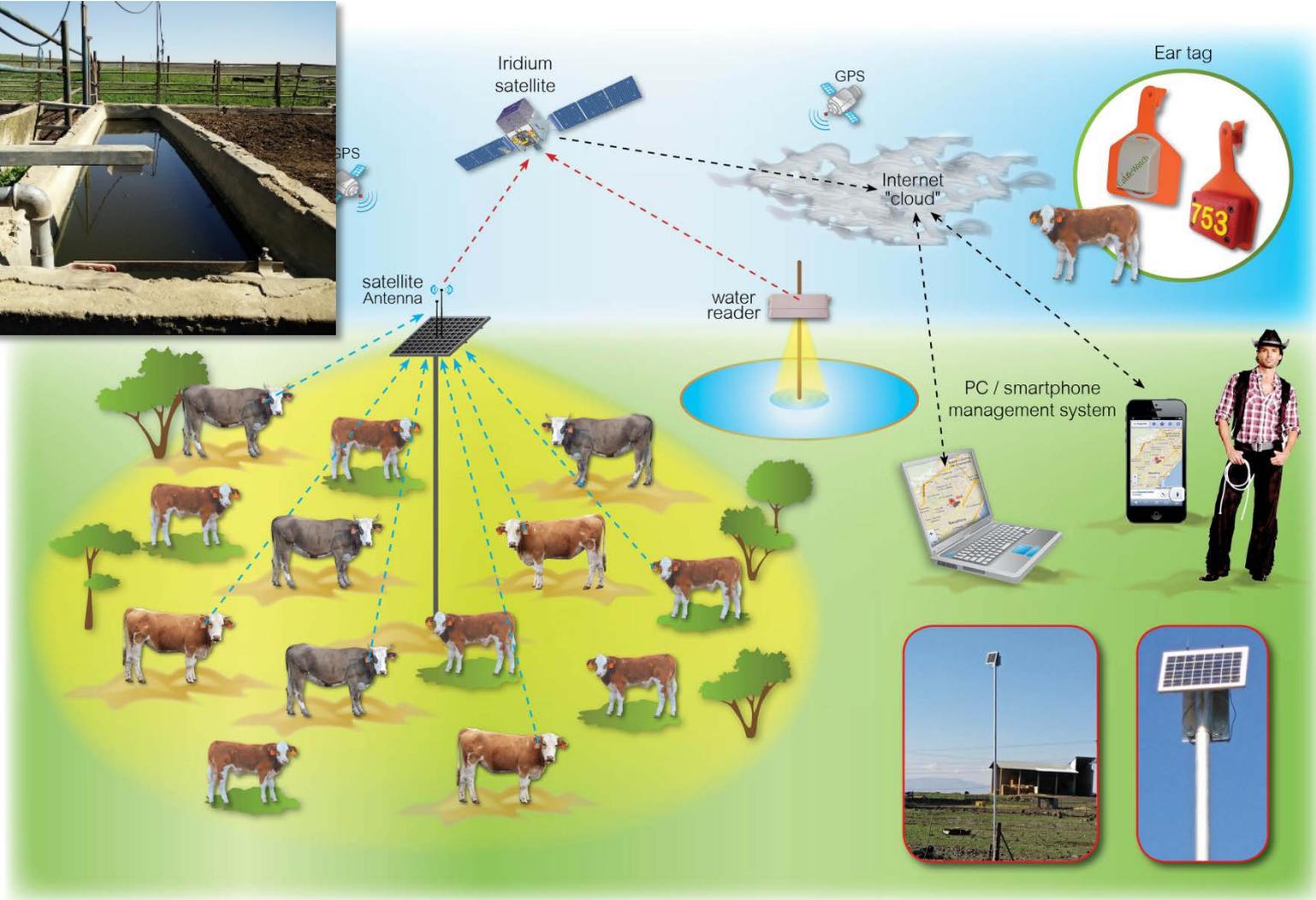


Ranger use cattle counter & Finder

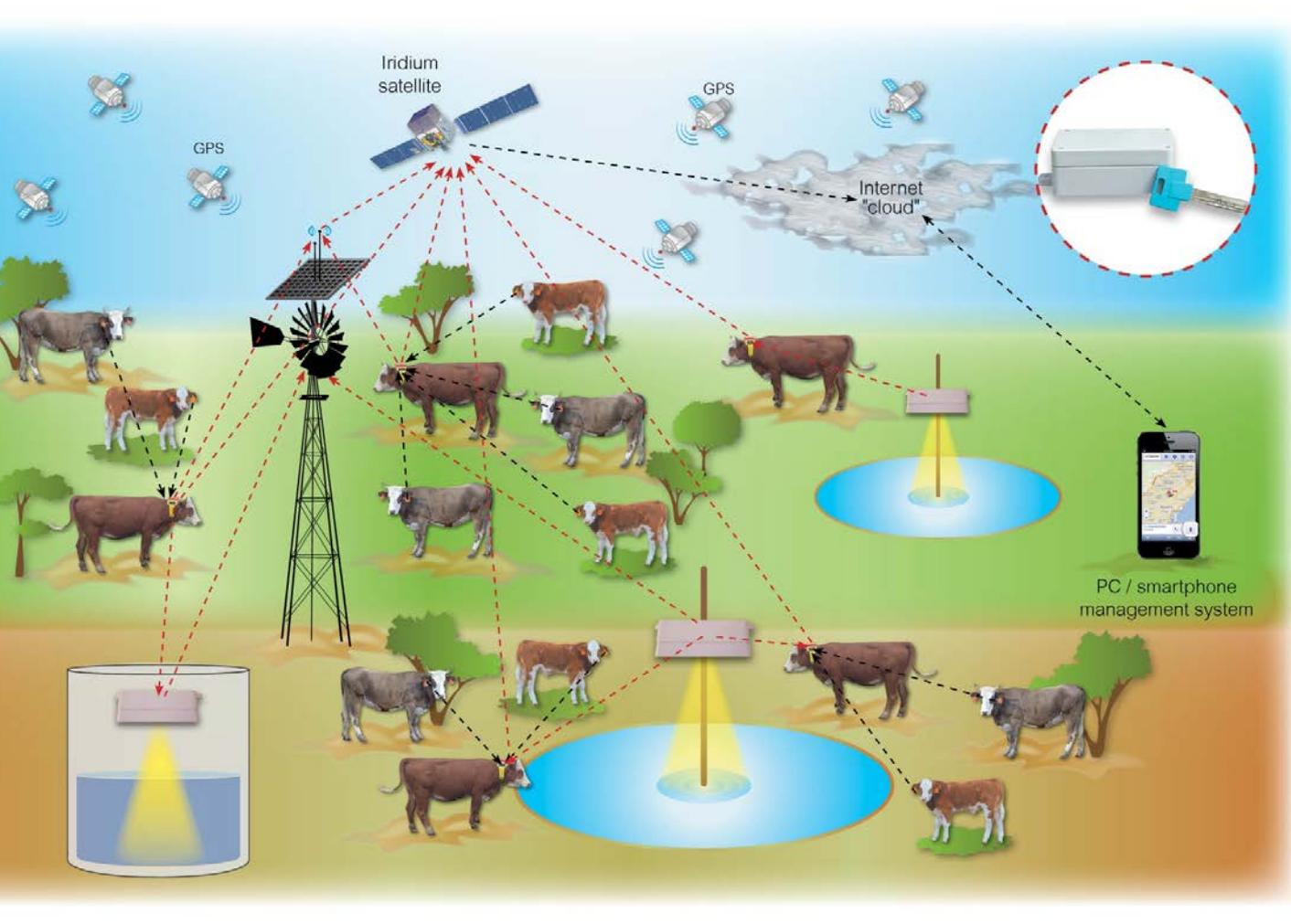
# Cellular based system with Geo fence and $\pm$ 60 meter cattle's location



# Satellite base small (500 acres / 500 head) solution + 750 meter Geo fence + water level reader

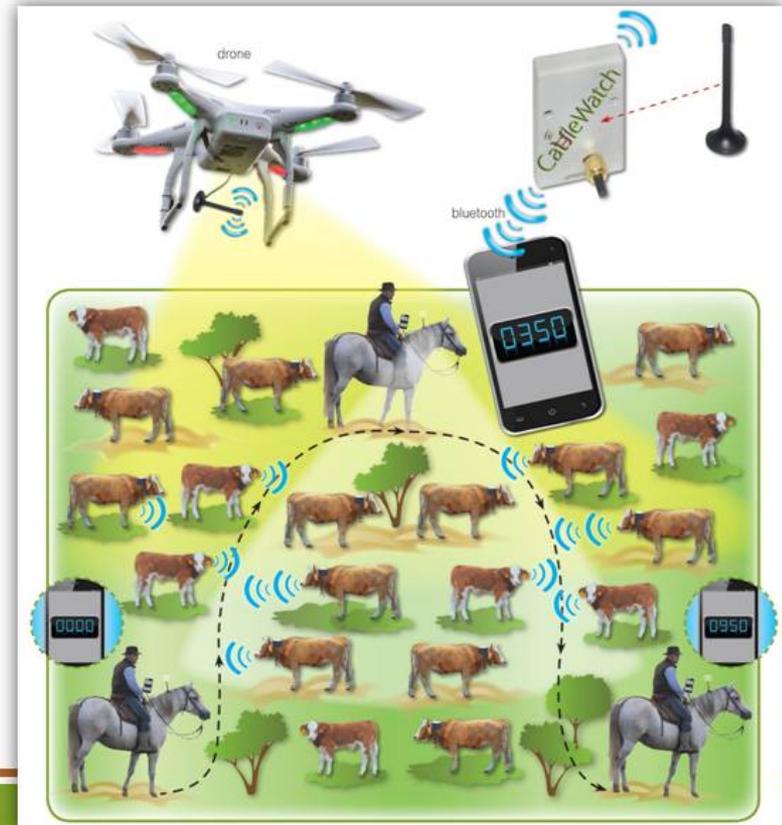


# Australia base satellite solution including water level reader device



## Cellular Cattle's Counter

1. 50g receiver collects ear tag transmission from up to 400m
2. Bluetooth connectivity between the receiver and a smartphone
3. Easy to use Graphical User Interface.
4. Dedicated counting application for smartphones
5. Able to be used in conjunction with a drone to automate counting

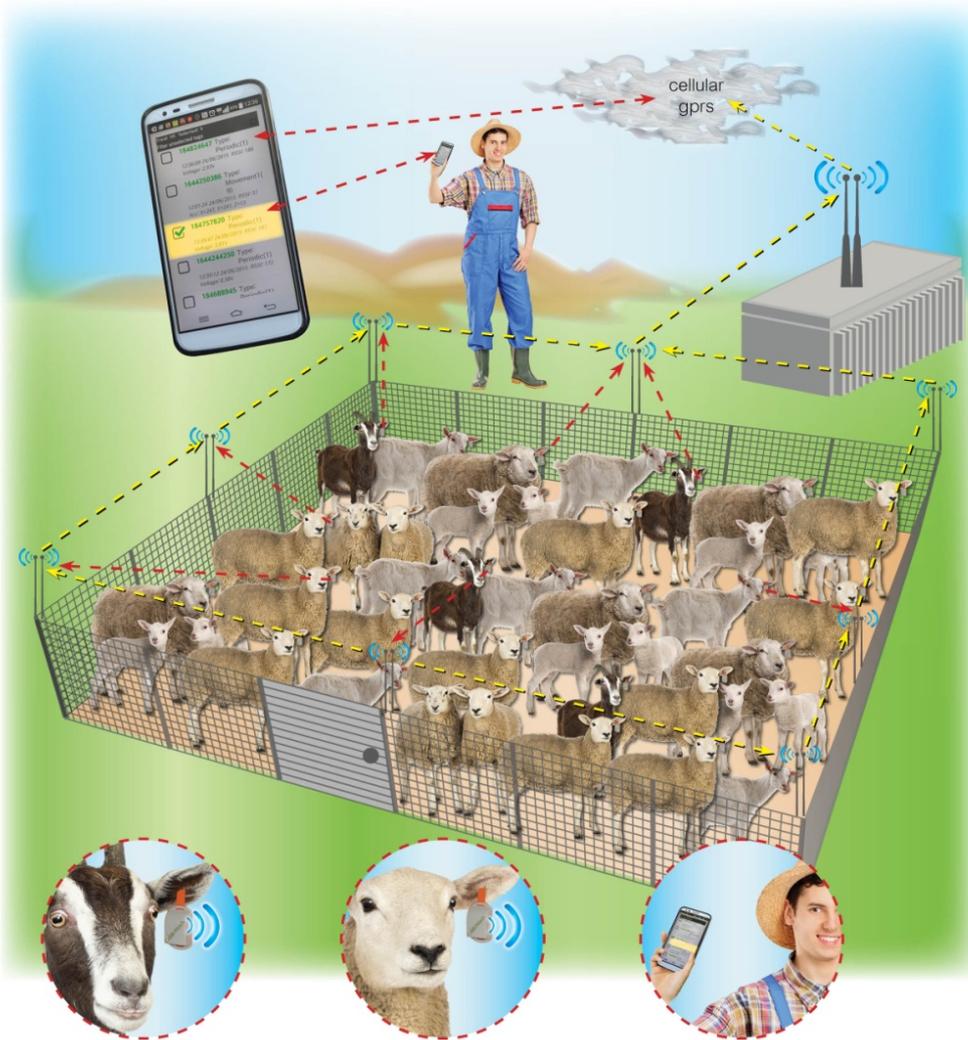


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Animation Click



# Solution for Sheep & Goats



# Sheep and Goats

