

# VERTEX Natal-Linked System

- Notifies parturition events and neonate mortality
- Monitors mother-offspring behavior
- System components of VERTEX Natal-Linked System:
  - Vaginal Implant Transmitter
  - UHF Fawn Collar with expandable belt, VHF Beacon and Mortality Sensor
  - VERTEX PLUS collar with Separation Option



Vaginal Implant Transmitter (VIT)

UHF Fawn Collar



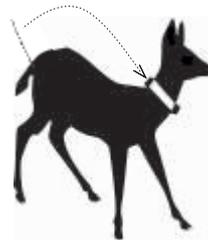
# VERTEX Natal-Linked System

## components and examples of use

### 1. Female deer with VERTEX PLUS collar and Vaginal Implant Transmitter (VIT)

The VIT

- measures body temperature
- sends daily messages to the collar via UHF with status expelled / not expelled



daily status message  
via UHF from VIT to collar

### 2. Parturition event!

The VIT

- is pushed out during parturition event.
  - is triggered by a changed ambient temperature, motion and separation.
  - sends a birth notification to the collar via UHF.
- The VERTEX PLUS collar with IRIDIUM or GSM communication transfers a birth notification remotely with the next GPS location.



birth notification  
via UHF to collar

birth notification  
via GSM or IRIDIUM

### 3. Offspring is collared with UHF Fawn Collar

The UHF Fawn Collar is equipped with:

- expandable belt, UHF ID tag option, VHF Beacon and mortality sensor.
- sends constant UHF signals to the VERTEX PLUS collar in defined intervals.

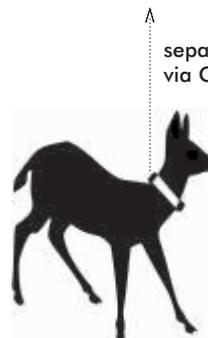


daily status message  
via UHF from UHF Fawn Collar  
to collar

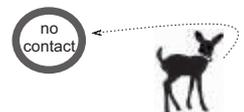
### 4. Mother - offspring behavior

VERTEX PLUS collar

- triggers a separation event if no UHF signal is received within defined time.
- transfers a separation notification via IRIDIUM or GSM remotely with the next GPS location.
- transfers a mortality notification via IRIDIUM or GSM remotely if the UHF Fawn Collar sends a mortality signal and if there is no mother-offspring separation.



separation notification  
via GSM or IRIDIUM



Please contact us to specify detailed settings and requirements for your project.

**contact us**

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