



Safe and environmental friendly insect and rodent control





## Safe and environmental friendly insect and rodent control





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## Bird Control Program

Falconry

Dogs

Propane canons

Laser guns

Methyl antranilate

Ultrasonic devices

Raptor Kites



Hologram bands

Pyrotechnics





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Go back to basic

ANALYSIS

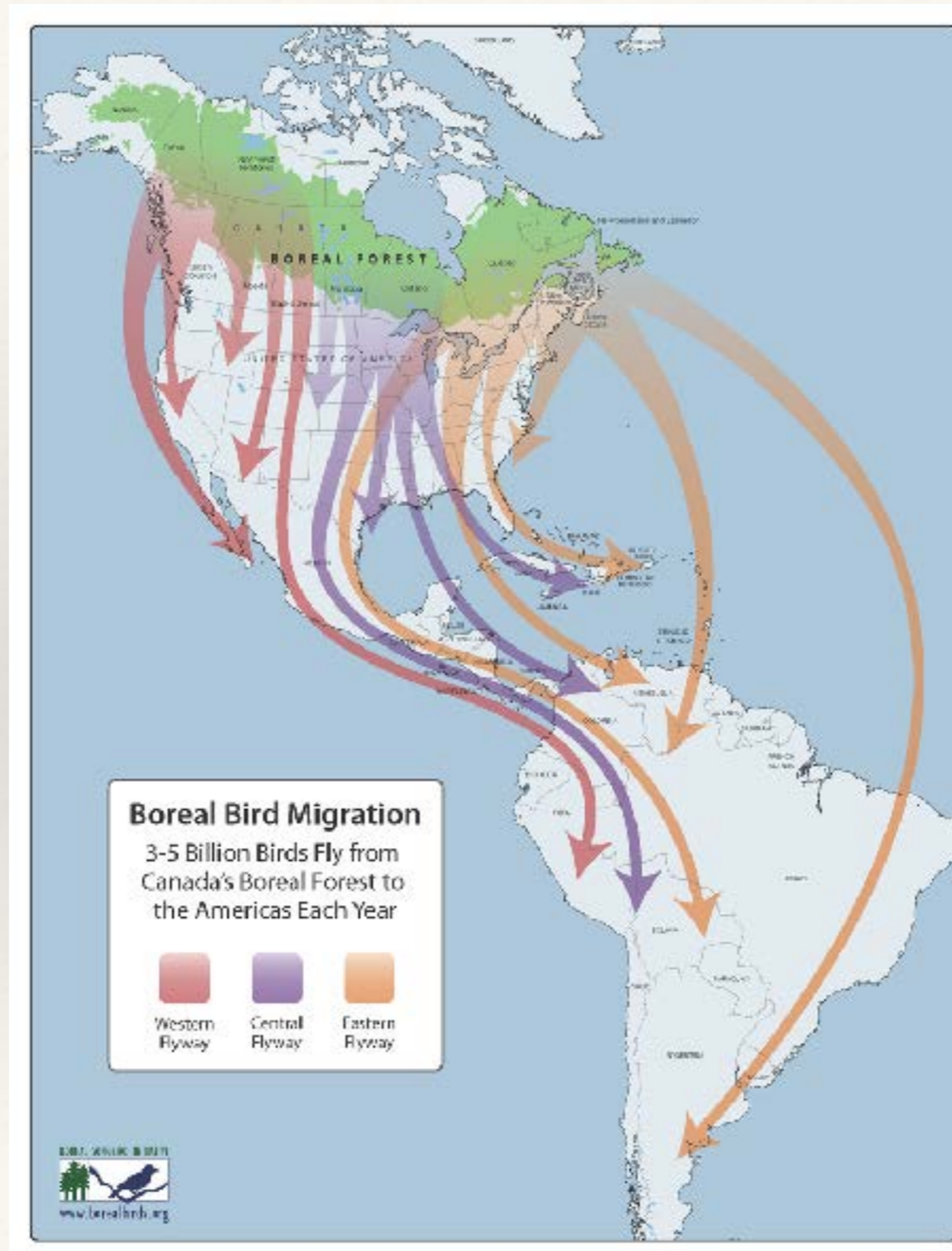


# Safe and environmental friendly insect and rodent control



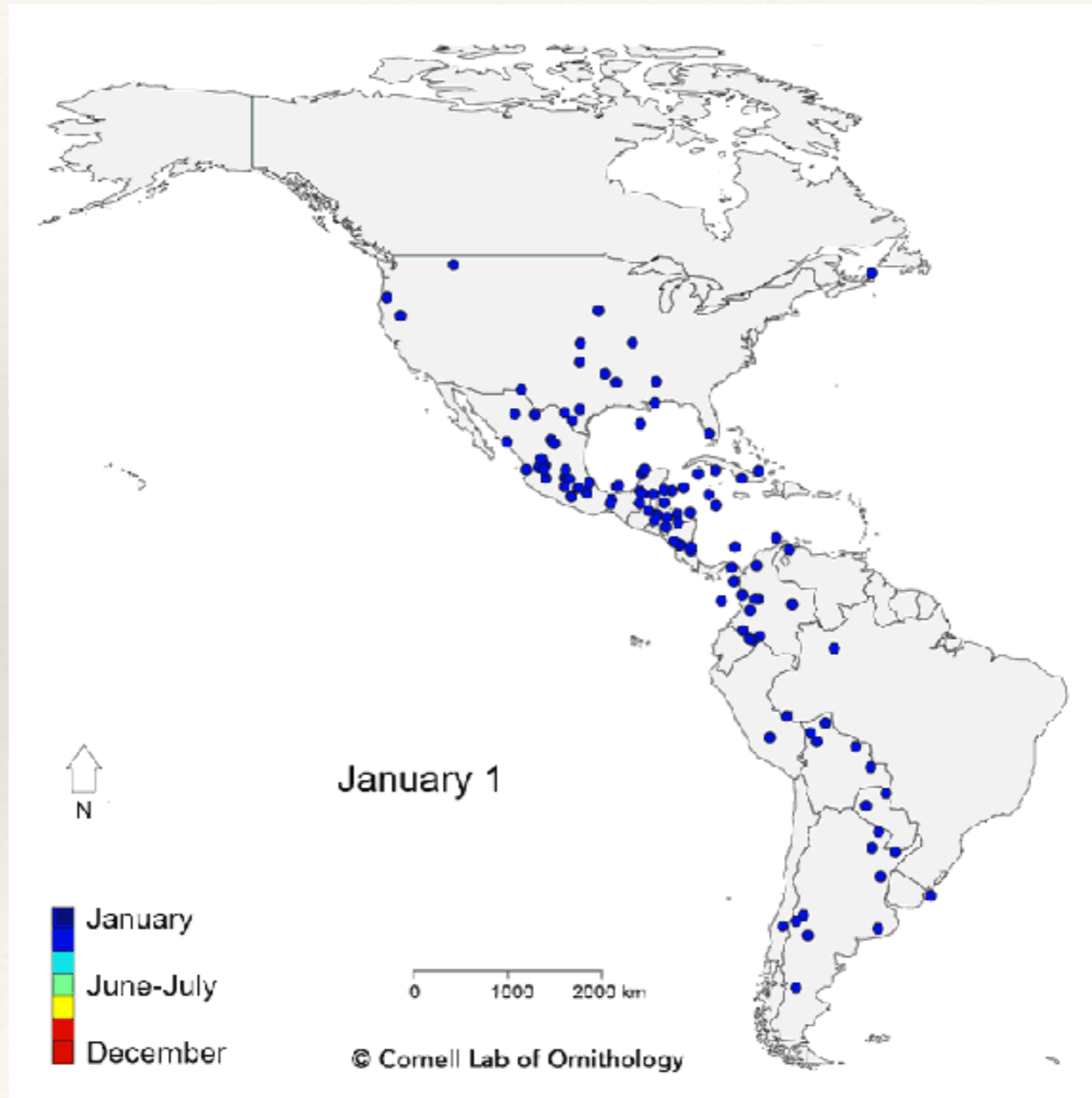


## Safe and environmental friendly insect and rodent control





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Grass size control at Airports





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Facing challenges

Local regulations

Airport regulations



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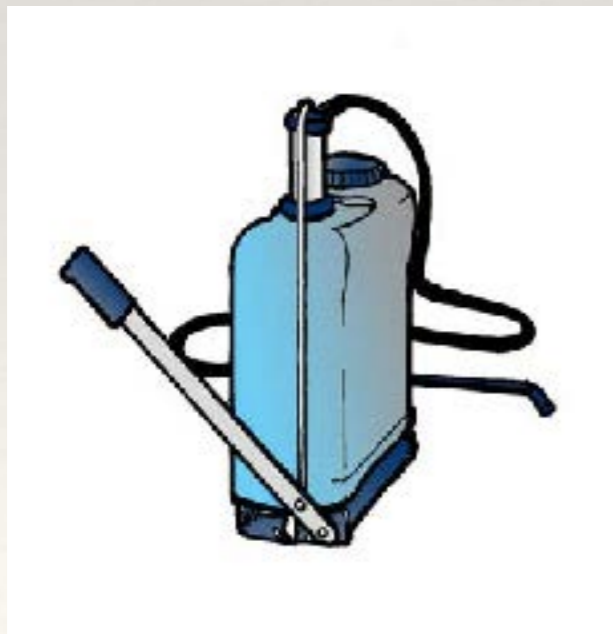




## Safe and environmental friendly insect and rodent control

### Natural Control of Insects

Insecticides made from natural ingredients such as Chile, Salt, Tobacco, Guava, Cactus, Onion, Garlic and many other (Herbs and fruits)





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The use of this insecticides it's been proof in Latinamerica for Organic production in Agriculture.



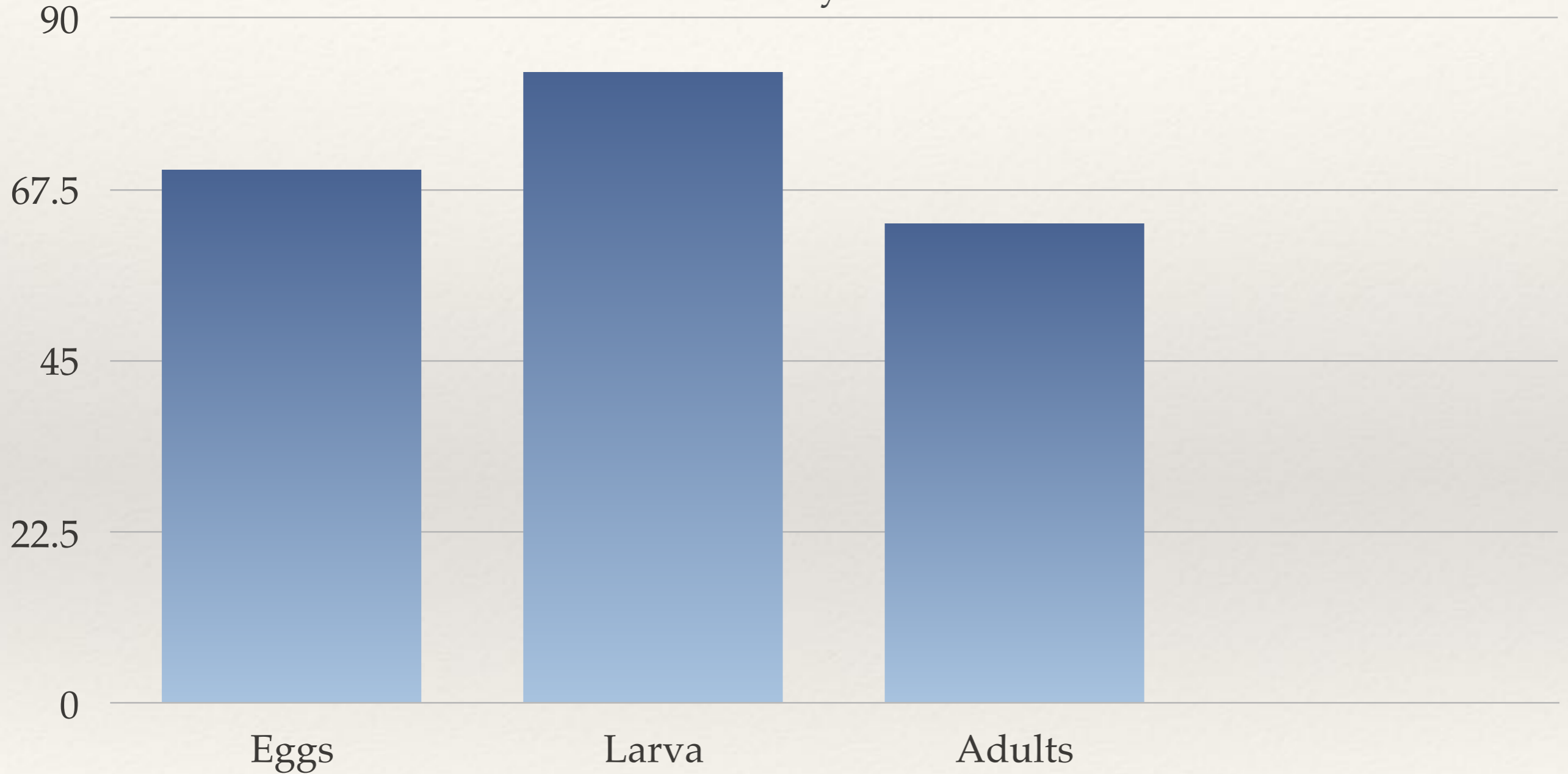


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Test data for the first 15 applications of natural insecticide



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Rodent control





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Rodent control







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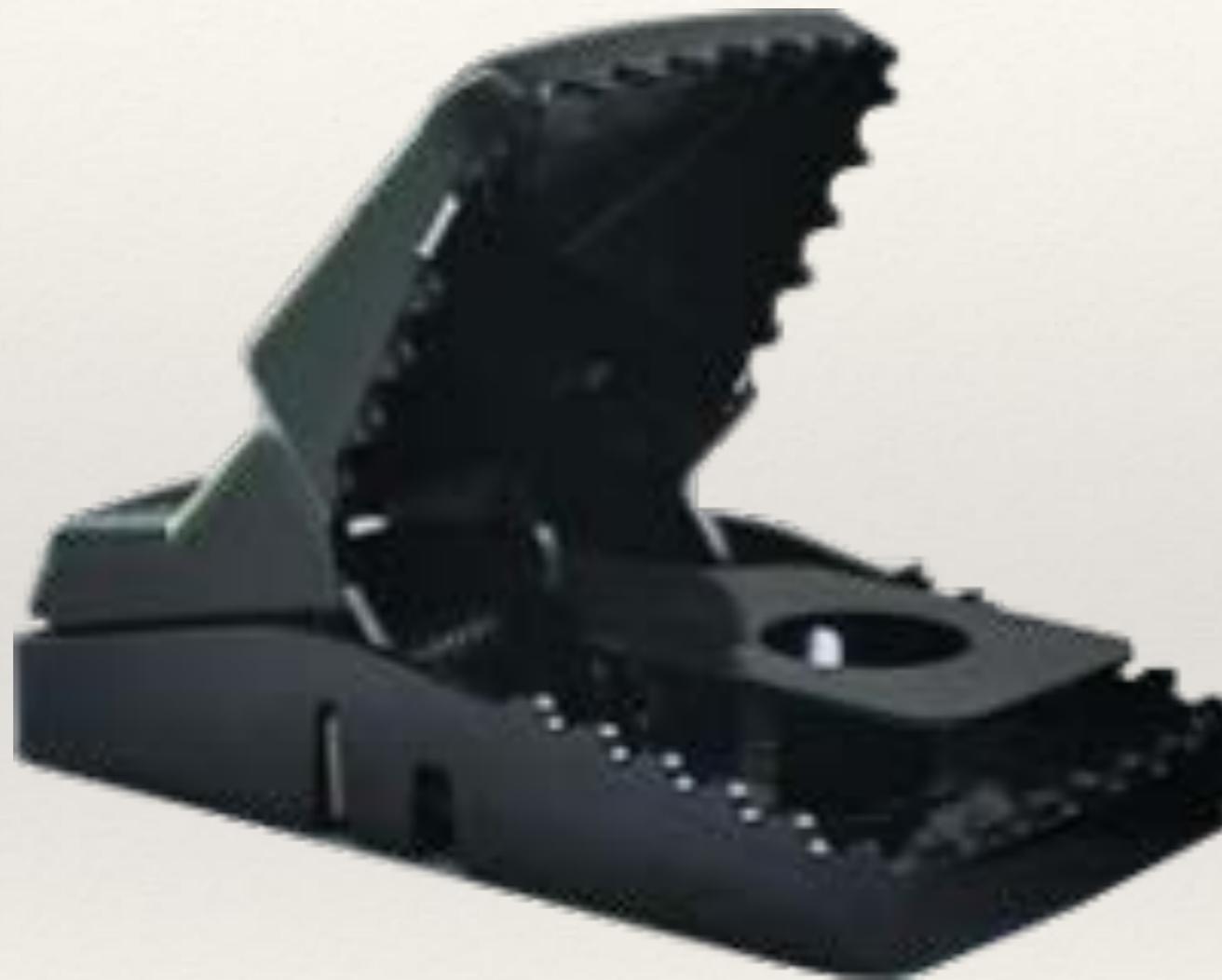


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Rodent control





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## Rodent control





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VM NOW™ OVERVIEW



Proprietary & Patent-pending system<sup>®</sup>

**Introducing new EZ Flex™ with VM NOW™,**  
the revolutionary new rodent monitoring device with  
electronic data collection system helping you  
prepare for the new FSMA Regulations

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## Rat Size Bait Station





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## Rodent and Bird Stations







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## Outdoor and Buildings Instalation





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SIMPLE, READY-TO-USE SOLUTION



**VM NOW™ remote monitoring technology provides a simple, ready-to-use solution**

No I.T. support or additional infrastructure needed  
Easy to install | Scalable | Easy to manage | Secure

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SIMPLE, READY-TO-USE SOLUTION

# Simple, Ready-To-Use Solution

## Easy to install

Installation is a simple 3-step process\*

1. **Connect the coordinator**
2. **Deploy the checkpoint and router**
  - Easy deployment with Smartphone App
3. **Verify communication**
  - When the LED is green, the PMP has confirmation that the entire system is up-and-running



## Scaleable

- A single coordinator can expand to up to 450 stations



\*(see Appendix)



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VM NOW™ ACCURACY & RELIABILITY

# VM NOW™ Utilizes Proven, Reliable Technology

## Microsoft Azure Cloud

## Texas Instrument technologies

## Linux Operating System

- The primary Operating System for IoT gateways; used by more than 60% of the gateways in the world

## Zilog

- The “Rolls Royce” of motion detection sensors, used in commercial security systems worldwide

## Industrial Grade

- Utilizes industrial grade components which can stand up to dust, heat, humidity, and cold

## FCC & Safety Certified

- The system was FCC tested and approved in both the U.S. and Europe
- Meets all U.S. and European safety standards

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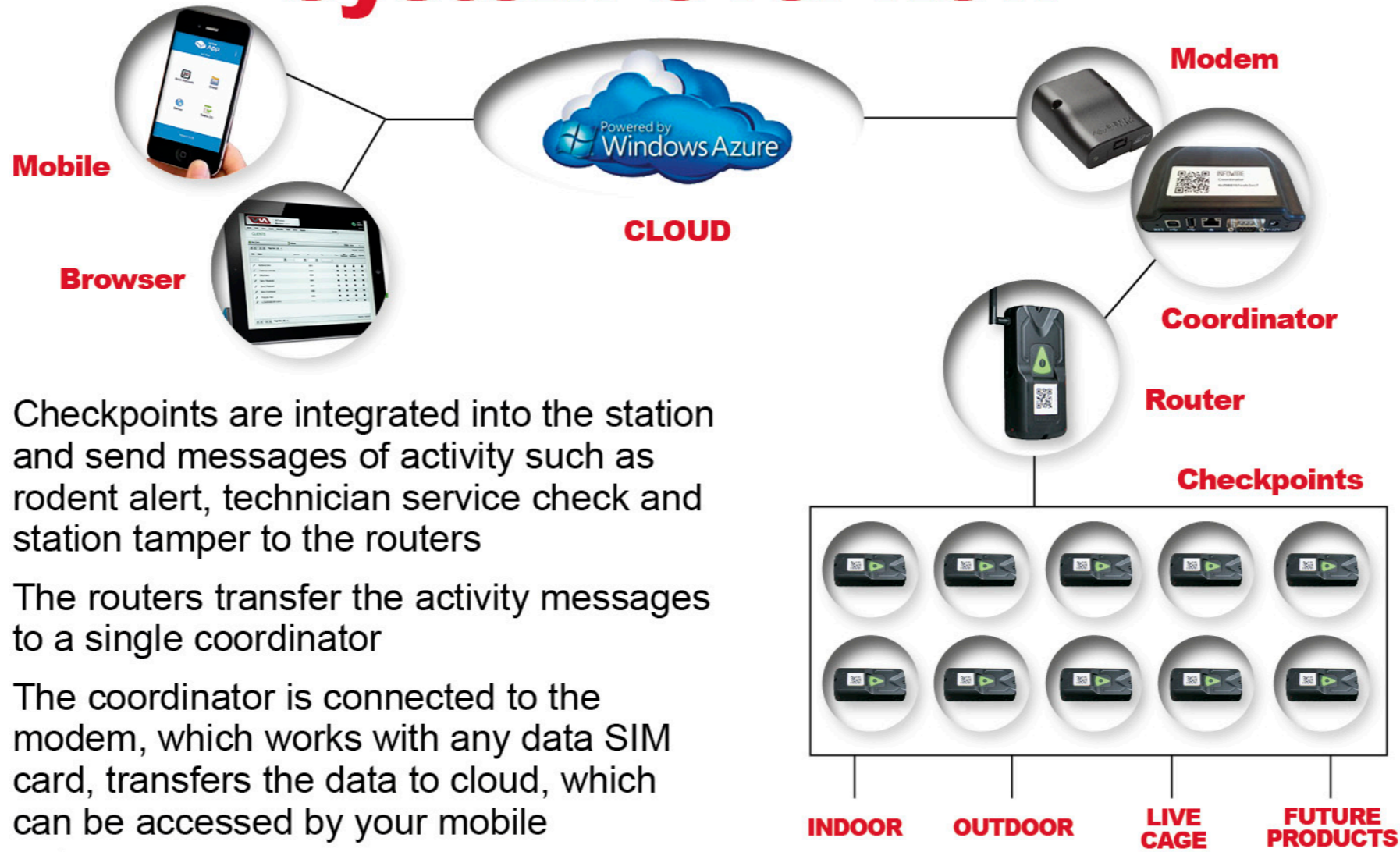




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SYSTEM OVERVIEW

# System Overview



- Checkpoints are integrated into the station and send messages of activity such as rodent alert, technician service check and station tamper to the routers
- The routers transfer the activity messages to a single coordinator
- The coordinator is connected to the modem, which works with any data SIM card, transfers the data to cloud, which can be accessed by your mobile or browser



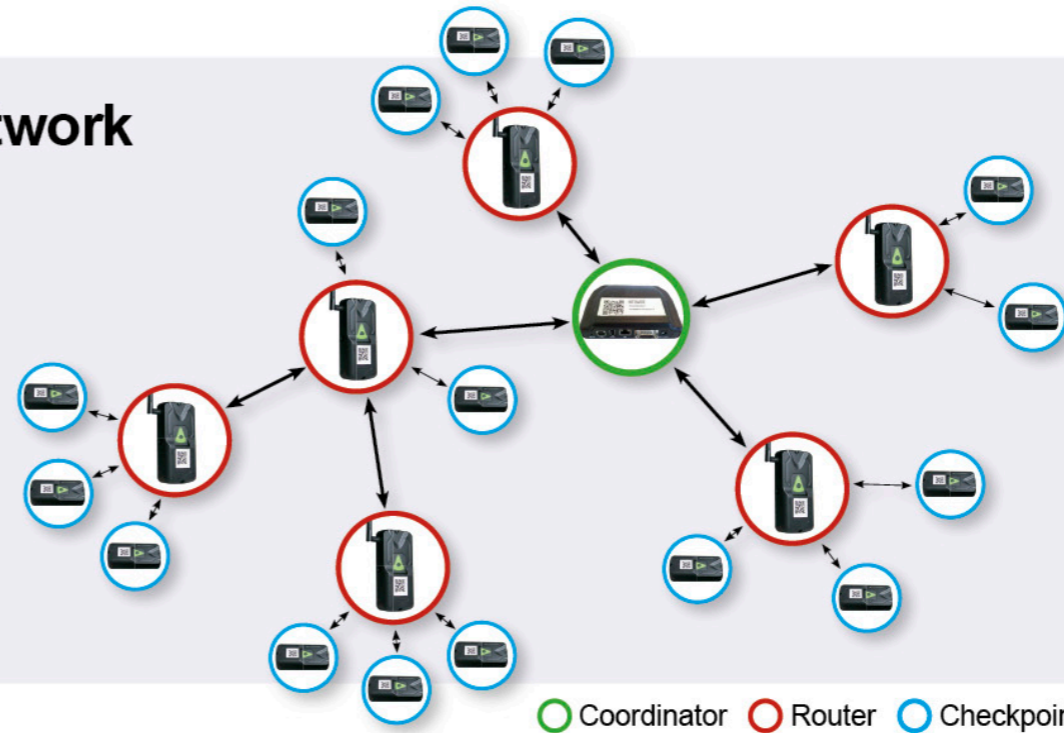
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VM NOW™ ACCURACY & RELIABILITY

# VM NOW™ Utilizes Proven, Reliable Technology

## Zigbee PRO Mesh Network

Designed to communicate data even in hostile RF environments, common in commercial / industrial applications. This wireless data solution is characterized by secure, reliable wireless network architectures.



## Zigbee is used by leading companies worldwide





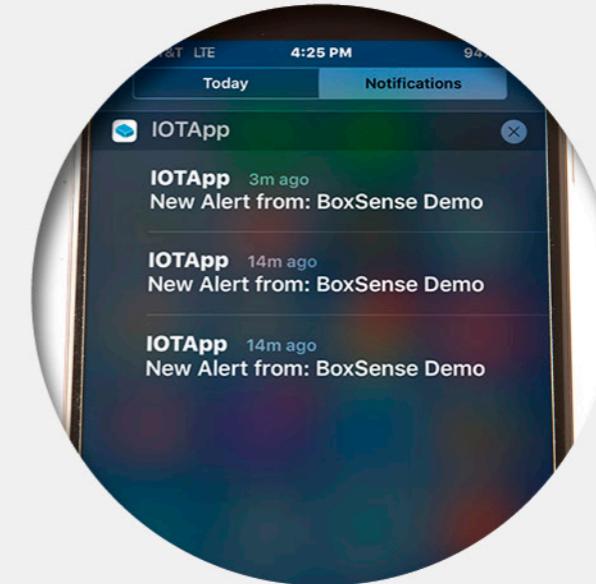
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VM NOW™ OVERVIEW

# FSMA Readiness with VM NOW™

## Monitoring

- 24/7 monitoring, even in hard-to-reach or high-risk locations
- No waiting for the technician's next visit to determine if there has been rodent activity
- Provides early warnings with reliable rodent activity alerts in real-time
- Improves technician labor efficiency due to reduced need for site visits when there is no activity, and reduces the need to check stations where there has been no activity



 **Communication**



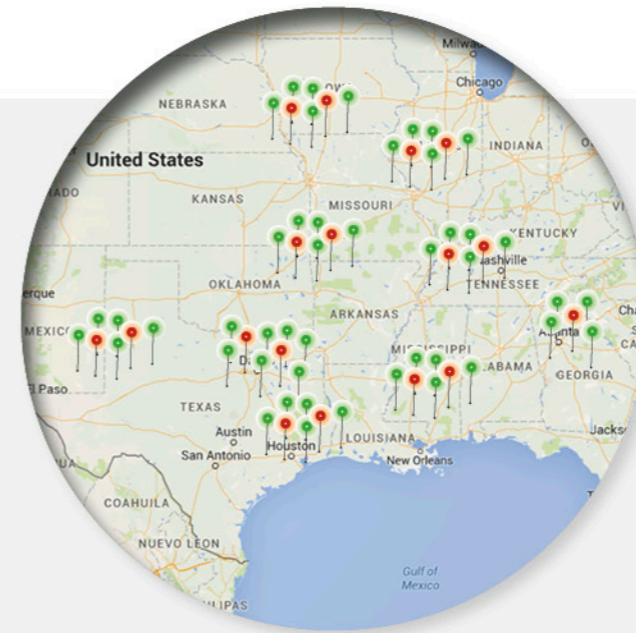
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VM NOW™ OVERVIEW

# FSMA Readiness with VM NOW™

## Corrective Action with Geo-Mapping of Activity

- Google map used to display status of activity on a nationwide basis
- Allows you to be pro-active about an alert without having to visit the site
- With the electronic data collection and interactive mapping features, the PMP can accurately address the rodent issues before they become problematic



 **Communication**

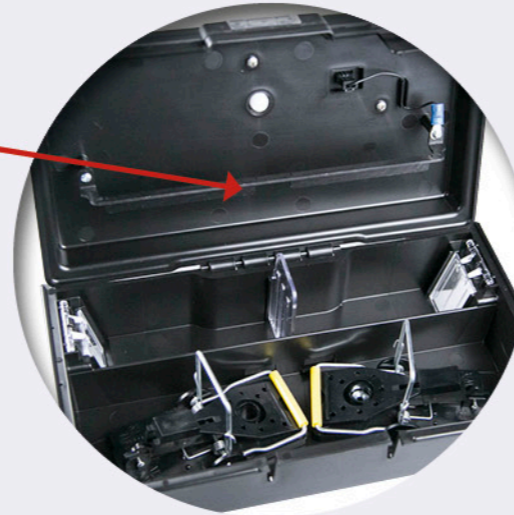




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## Multiple Sensor System

**Touch  
Sensor**



**Motion  
Sensor**



- Advanced motion detection with passive infrared sensor touch detection with a capacitive sensor
- These two sensors, combined with a **proprietary algorithm** which identifies and classifies raw sensor data, dramatically increases reliability to eliminate false alerts
- Single sensors commonly create false alerts, resulting in unnecessary technician visits

VM NOW™ ACCURACY & RELIABILITY



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## Proof-of-Service Check Button



- There is a button on the station that the technician pushes to provide credible proof-of-service. The message is electronically recorded on the server and provides reliable data to ensure audit-readiness.

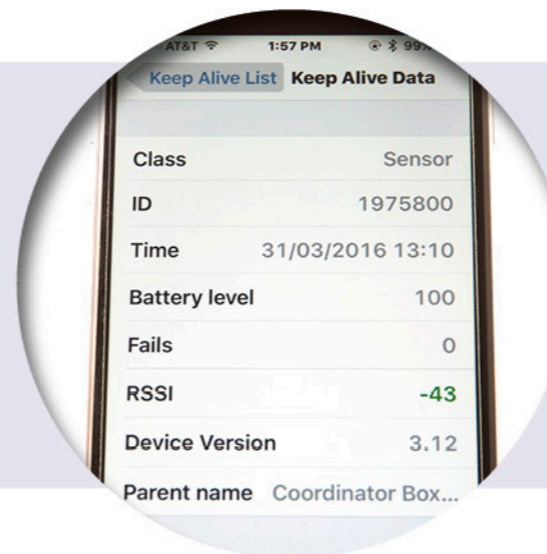
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## Keep Alive Data



- There is a “Keep Alive Data” feature which continually messages the server to confirm that all devices are fully functioning
- PMP receives a daily exception report of any non-functioning devices
- The station can work up to 1 year with standard C batteries. An email message alert is sent to the PMP to provide advanced warning that the battery is running low. This message is sent at least one month in advance.

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# Tamper Cable Keeps Station Audit Ready



There is a Tamper Cable to confirm the location of the station. If this cable is pulled out and station is moved, a message is immediately sent to the server.

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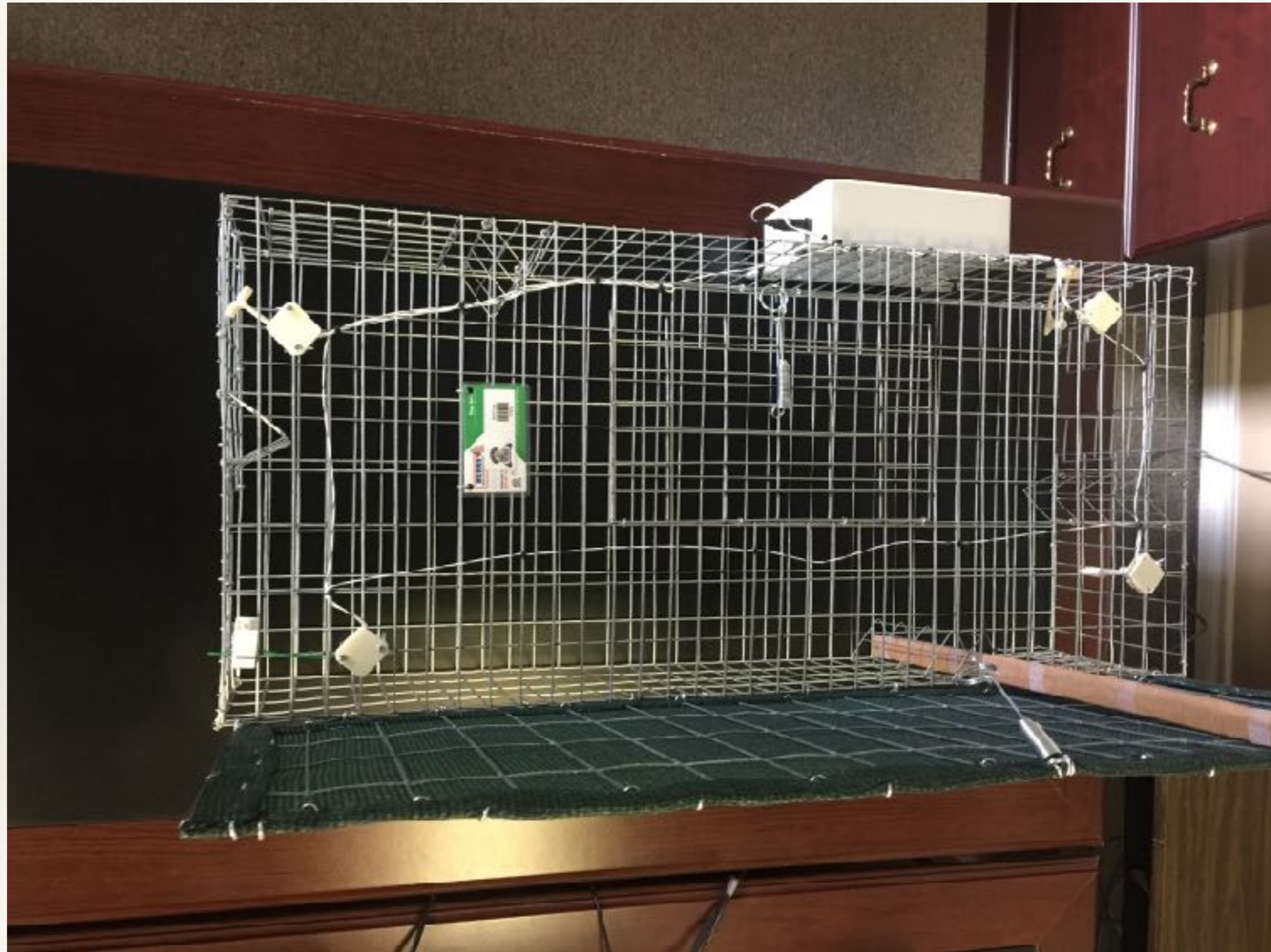
IMPROVED PLASTIC STATION



**The EZ Flex™ station design is also improved vs traditional rodent monitoring devices**



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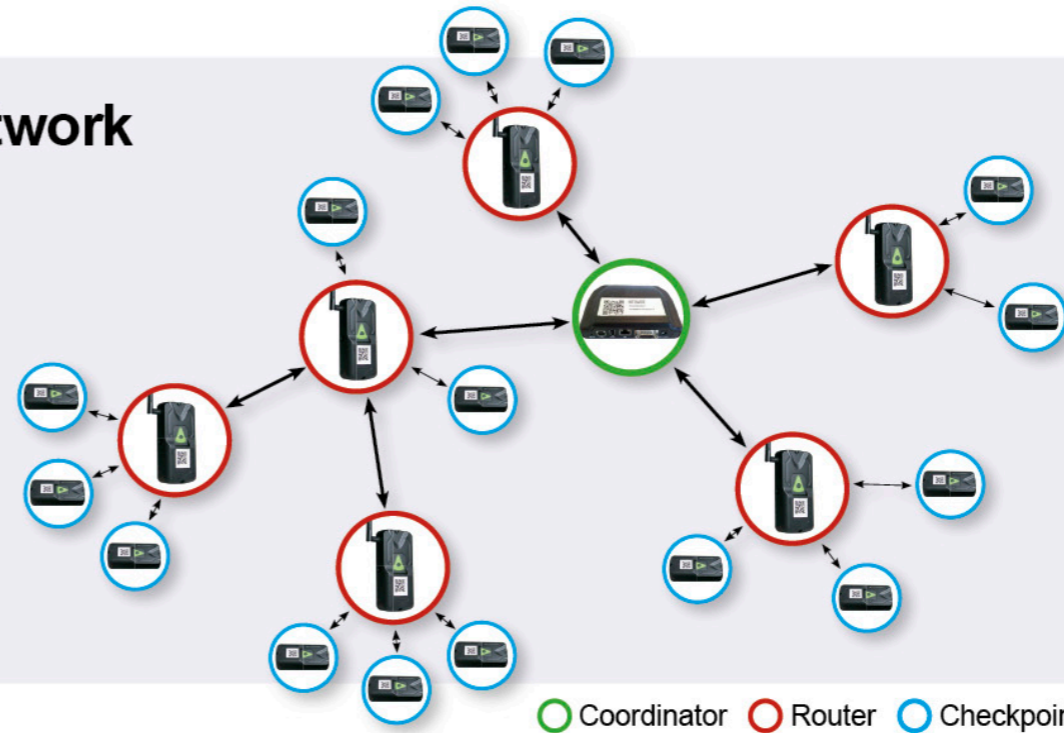
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ANY QUESTIONS?????