

## Mizner Country Club Pathfinder Experiment

**Purpose:** Deploy the Pathfinder/EUGS sensors to test the probability of detection (PD) and False Alarm Rates (FARs) in a suburban area.

### System:



**Receiver:** Base station type receiver with 25' antenna cable that will be mounted on top of the Country Club security office.

**Sensors:** Small (2.6" diameters x 7.7" height), with integrated geophones. When buried in the ground, algorithms detect human footsteps.

**Client Application:** Runs on commercially available smart devices connected to either 3G/4G or WiFi networks to display the alerts.

**Server Application:** runs on commercially available laptop, collecting sensor data, and logging data for analysis.

**Sensor Antenna:**

**Receiver Antenna:**

**Location:** Mizner Country Club, Delray Beach FL

**Program Manager:** Matthew Fordham  
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Associate Division Manager

**Mizner POC:** Alyson Ruprecht  
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16102 Mizner Club Drive  
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**Location Deployment Map:** 26°26'14.62"N 80°10'48.24"W elevation 24 ft



**Data to be analyzed:**

- Number of detections
- Sensor Power Usage
- Number of False Alarms
- Performance of the Pathfinder radio technology in a suburban environment