

# 3M™ Domestic Violence GPS Proximity Notification System – Web Training



Enabling  
Safer  
Communities



# Objective

- **TO EXPLAIN HOW THE SYSTEM PROTECTS THE VICTIMS OF DOMESTIC VIOLENCE**

# 3M™ Domestic Violence GPS Proximity Notification System Web Application



# Domestic Violence GPS Proximity Notification System

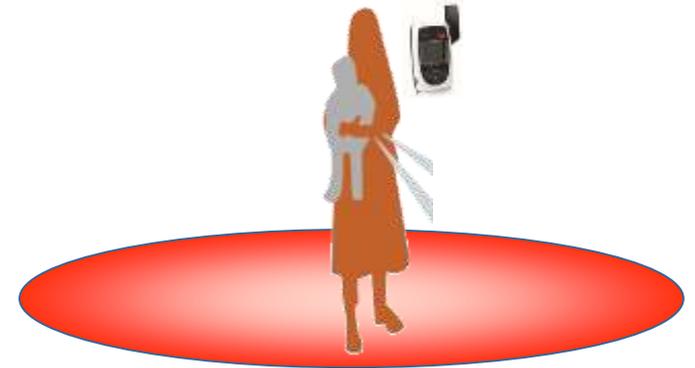
- Provides multiple security layers around the Victim while in the residence and on the move
  - *Fixed zones*
  - *Mobile zones*
  - *RF layer*
- Real time tracking of Aggressor's location according to predefine zones and proximity to the Victim



# Victim's perspective



**Fixed Zone**– When indoor, at home, at work, at parents house, at children school



**Mobile Protection Zone** – On the Move when outdoor.



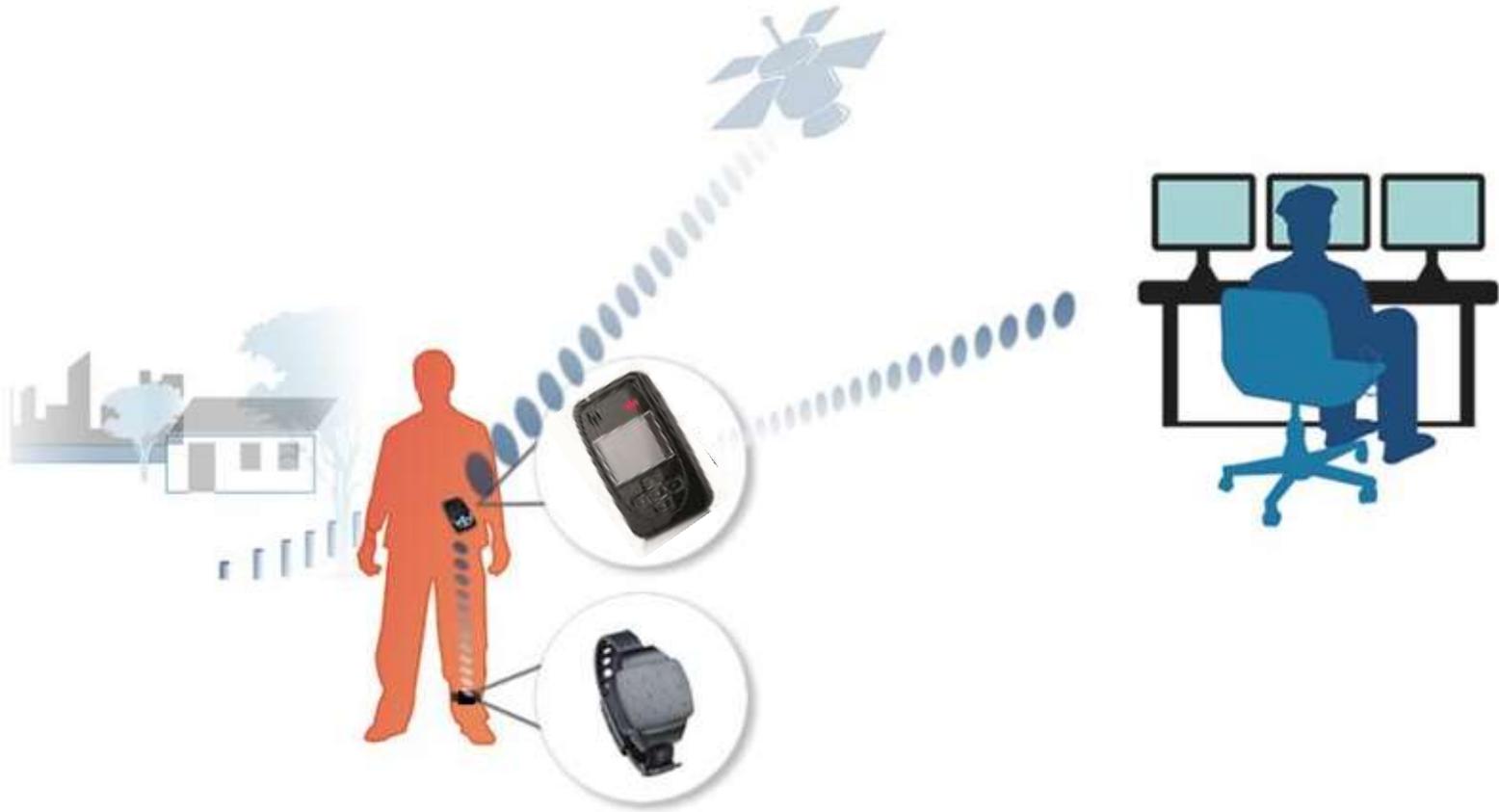
Real Time notification to the Victim when the Aggressor is in range or in proximity to the Victim.

# Victim- Operational Concept

- **GPS Tracking Device**
  - *Combines GPS+RF+GSM*
- GPRS communication with the monitoring center
- **Requires Victim cooperation**
  - *Message acknowledgement*
  - *Carrying and charging the unit*
- **Communication with the Victim**
  - *Text and Voice communication*
  - *Audible alarms*
  - *Real time notification of Aggressors presence*
  - *Enables the Victim to call for help or send a Panic Alert*
  - *Immediate notification to the monitoring center*



# Aggressor's perspective



# Aggressor - Operational Concept

- **2 piece GPS Tracking Device**
  - *Combines GPS+RF+GSM*
- GPRS communication with the monitoring center
- **Requires Aggressor cooperation**
  - *Message acknowledgement*
  - *Carrying and operating the unit*
  - *Charging the unit*
- **Communication with the Aggressor**
  - *Text and Voice communication*
  - *Audible alarms*
- **Program Configuration**
  - *Multiple zone settings*
    - *Inclusion / Exclusion, Circle / Polygon*



# DV Parameters

- **GPS Proximity**– The radius from the Victim which, if the Aggressor enters that radius, an violation event is generated
- **Proximity Buffer** – The radius from the Victim, beyond the GPS Proximity radius, which, if the Aggressor enters that radius, a warning event is generated
- **RF Proximity** – The distance between the Aggressor’s Transmitter and the Victim’s Tracking unit at which the system will detect physical proximity via RF monitoring.

**DV Parameters**

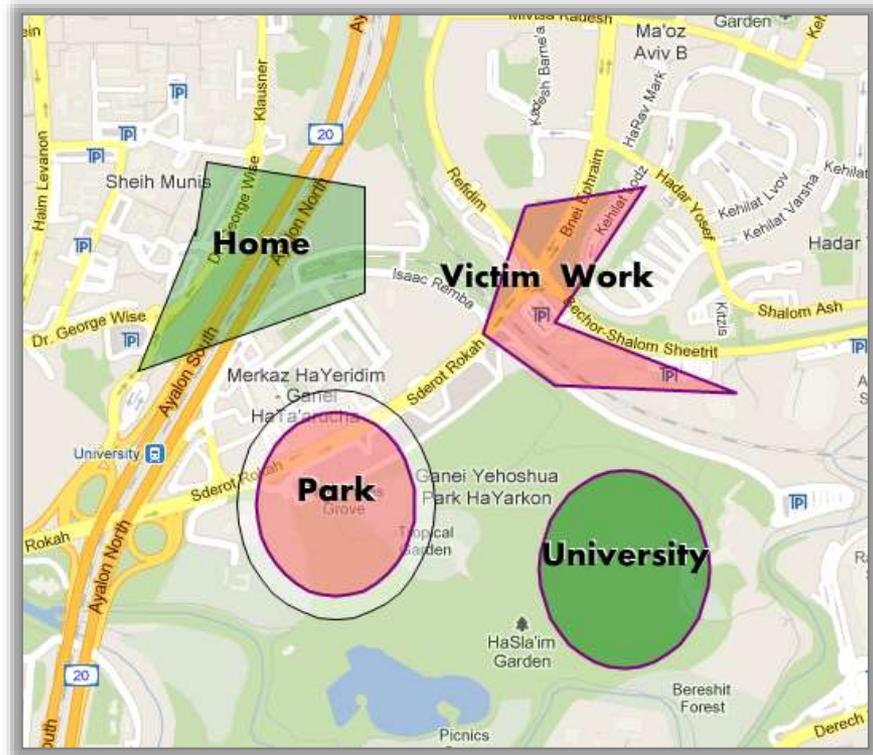
GPS Proximity	<input type="text" value="1000"/>	◆ Meters
Proximity Buffer	<input type="text" value="500"/>	◆ Meters
RF Proximity	<input type="text" value="Max"/>	

## HOW IT WORKS

- In case there is no alert or violation, the system remains “sleeping”
- When the aggressor enters in an alert or violation situation, an alert or violation event is produced and should be managed by the control center officer.
- In case of violation of a mobile zone, an alarm is sent to the victim and to the control center, but not to aggressor. The officer at the control center, controls the Aggressor’s trail.
- In case of violation of a fixed zone, an alert is sent to the victim, to the control center and to the aggressor. The officer contacts the aggressor and if he doesn’t obey to the officer order, the police is called and the victim warned.

# Zones for the Aggressor

- Zone Shapes
  - Polygon
  - Circular
- Zone Types:
  - Inclusion (Green)
  - Exclusion (red)



Notice: Circular Exclusion Zones include a Buffer area.

# Zones Configuration for the Aggressor

The screenshot displays a software interface for configuring monitoring zones. The interface is divided into several sections:

- Top Navigation:** Includes tabs for 'Details', 'Configuration', 'Location' (selected), 'Schedule', and 'Current Status'. On the right, there is a 'Planned' dropdown and a refresh icon.
- Left Sidebar:**
  - Section: **Location**
  - Sub-sections: 'Trail' and 'Zones' (selected).
  - Buttons: 'Add Zone' and a vertical scale bar.
  - Zones List:**

861		Park
860		Victim Home
859		Victim Work
858		Home
857		Work
- Main Map Area:**
  - Address bar: 'Address - [ ] [X]'
  - Map: A detailed street map of a city area. Four zones are highlighted:
    - Home:** A green square area in the lower-left quadrant.
    - Victim Home:** A pink circle area in the center-left.
    - Victim Work:** A red square area in the center.
    - Work:** A green circle area in the upper-right quadrant.
  - Map controls: Includes a search icon, zoom in/out buttons, and a 'Map data ©2012 Maps GİŞrael - Terms of Use' footer.

# Trail Report

View the most recent Trail according to the last 6,12 or 24 hours, or according to the dates you want

Details Configuration **Location** Sc...

Location

Trail Zones

Online  History

**View**

Recent:

12 Hours

From To

13/03/2012, 15:42 14/03/2012, 09:42

Last Point 14/03/2012 09:15:19

**Filter Trail**

Interval between points:

Time 0 Seconds

Distance 0 Meters

Show Violations Only

Show LBS Area

Display

Ve..	From	To
#1	13/03/2012 1...	14/03/2012 0...
#0	13/03/2012 1...	13/03/2012 1...

Click Display to show the Trail

Optionally, filter the Trail according to Time or Distance.



# Trail Animation

Details Configuration **Location** Schedule Current Status

Address

Location

Aerial Aerial with Labels Roads

See both Victim and Aggressor Trails or Hide one of them

See Dynamic Zone

Play or Pause

Speed

VIEW: [Icons]

4.54 km

# Trail Report Printout

Details Configuration **Location**

**Location**

Trail Zones

Online  History

**View**

Recent:

12 Hours

10/2011, 20:10

9:21

Seconds

Meters

Show LBS Area

Display

Export Zones  
Export Trail  
Trail Report  
Events

Ve..	From	To
#17	11/10/2011 1...	23/10/2011 1...
#19	23/10/2011 1...	23/10/2011 1...
#20	23/10/2011 1...	24/10/2011 0...

Click the Reports option and choose the Trail Report

**3M**  
3M Electronic Monitoring

## Trail Report

**Report Date:** 17/11/2011 17:13:59  
**User Name:** Angel  
**Offender Details:** Jonny Smith (1212410041), **Offender Program:** 2Track Active

**Trailing Map:**

**From:** 23/10/2011 16:10:00 **To:** 23/10/2011 20:10:00  
**Range Selected:** Custom

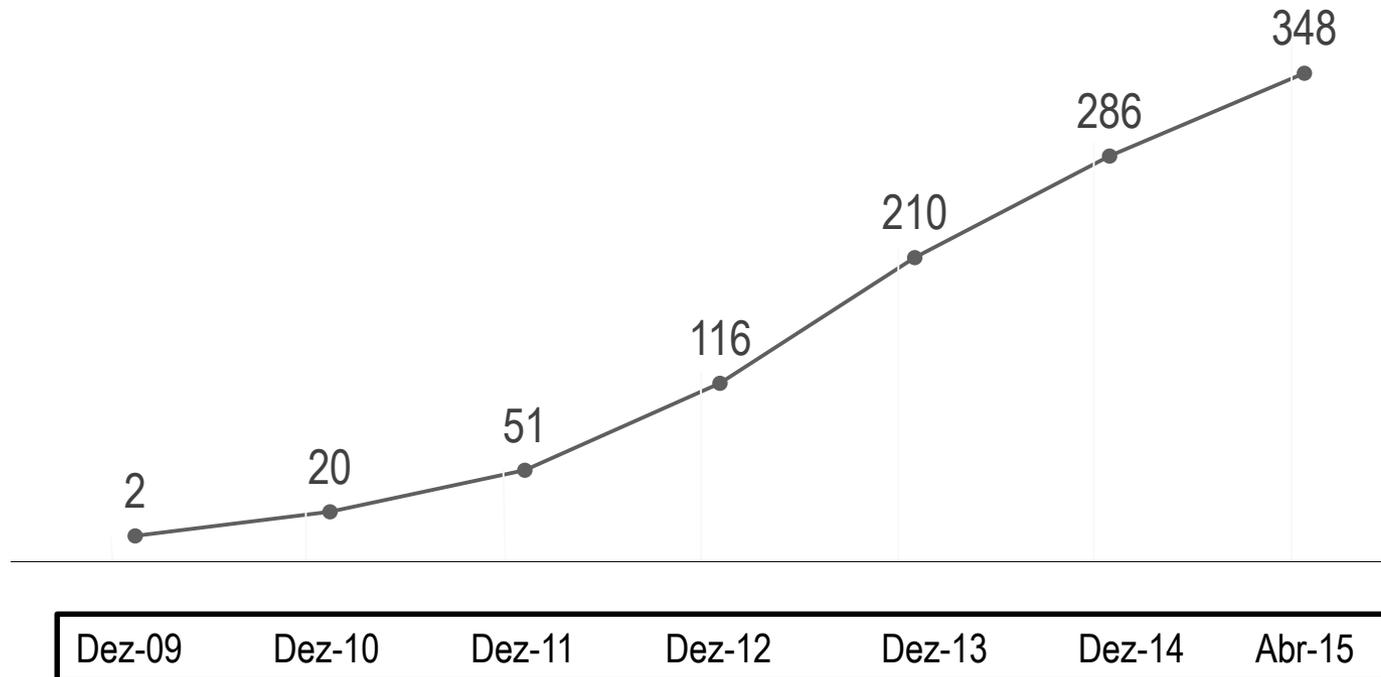
**Zones:**

	Name	Limitation	Type	Grace Time	Curfew
1	Home	Inclusion	Polygon	10	<input checked="" type="checkbox"/>

**Print**

Roads

## Evolution of DV Cases in Portugal



# Questions?