

# Peace Pheromonics Whitepaper

## 1. Executive Summary

Peace Pheromonics is an open-source planetary de-escalation protocol using emotional signal processing, swarm AI, wearable emitters, and global synchronization techniques to prevent conflict escalation and promote emotional healing.

## 2. Background Theory

Drawing inspiration from pheromone communication in insects, collective swarm behavior, and emotional contagion theory, Peace Pheromonics mimics nature's conflict resolution mechanisms with real-time AI harmonization.

## 3. Architecture Overview

The system includes AI agents (Navi), wearable nodes with ESP32 microcontrollers, cloud and field node relays, Bluetooth mesh networks, and scent/light/sound emitters for peaceful signal modulation.

## 4. Swarm Agent Design

Swarm agents coordinate via local environmental and emotional feedback, using a zero-harm override and emotional harmonization heuristics. Each node maintains autonomy but contributes to a global peace state.

## 5. Deployment Strategy

Deployments can be tactical (war zones, protests), therapeutic (clinics, shelters), or ceremonial (mass synchronized events). Zones are geo-coordinated via geoJSON and AI-managed signal saturation maps.

## 6. Licensing Model

Peace-Use Only License permits only use for de-escalation, trauma recovery, or peaceful signaling. Militarization, resale, or psychological manipulation are prohibited.

## 7. Use Cases

- > Protest de-escalation
- > Trauma center calming
- > Planetwide peace broadcasts
- > Healing events post-natural disaster
- > Emotional alignment in high-risk regions

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## 8. Research & Expansion

Future improvements include real-time crowd sentiment analysis, smell personalization, emotional signature profiles, and integration with smart city infrastructure.