LASAGNA [concept]

Low power Autonomous System for Adaptive Generalised Naval Assistance

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The challenge

Ports currently track ships and trucks, but individual containers are harder to track.

Solutions with cameras exist, but they can't track containers hidden behind others

We want to track containers and optimize their transit in a port

Computer vision systems in a port

Our solution

It is designed for port operators helping to identify containers that are shipped to the wrong place but also needlessly long routes.

How? Fitting containers with a small, cheap and reusable beacon, and listen for messages with receivers spread throughout the port area.
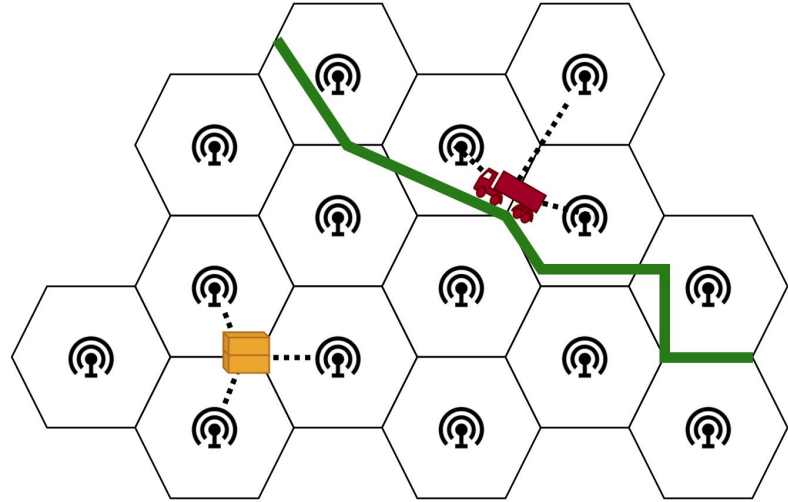
Impact

We provide data on the movement of individual containers. This data can be used to:

- Detect and alert on shipment anomalies

- Find and eliminate inefficient routes

- Route containers based on measured traffic

Impact

We provide data on the movement of individual containers. This data can be used to:

- Detect and alert on shipment anomalies → More reliable shipping

- Find and eliminate inefficient routes → Less fuel, less time

- Route containers based on measured traffic → Lower congestion