

## Core Motivation

Can we make implementing physical distancing easier?



## Why is this important?

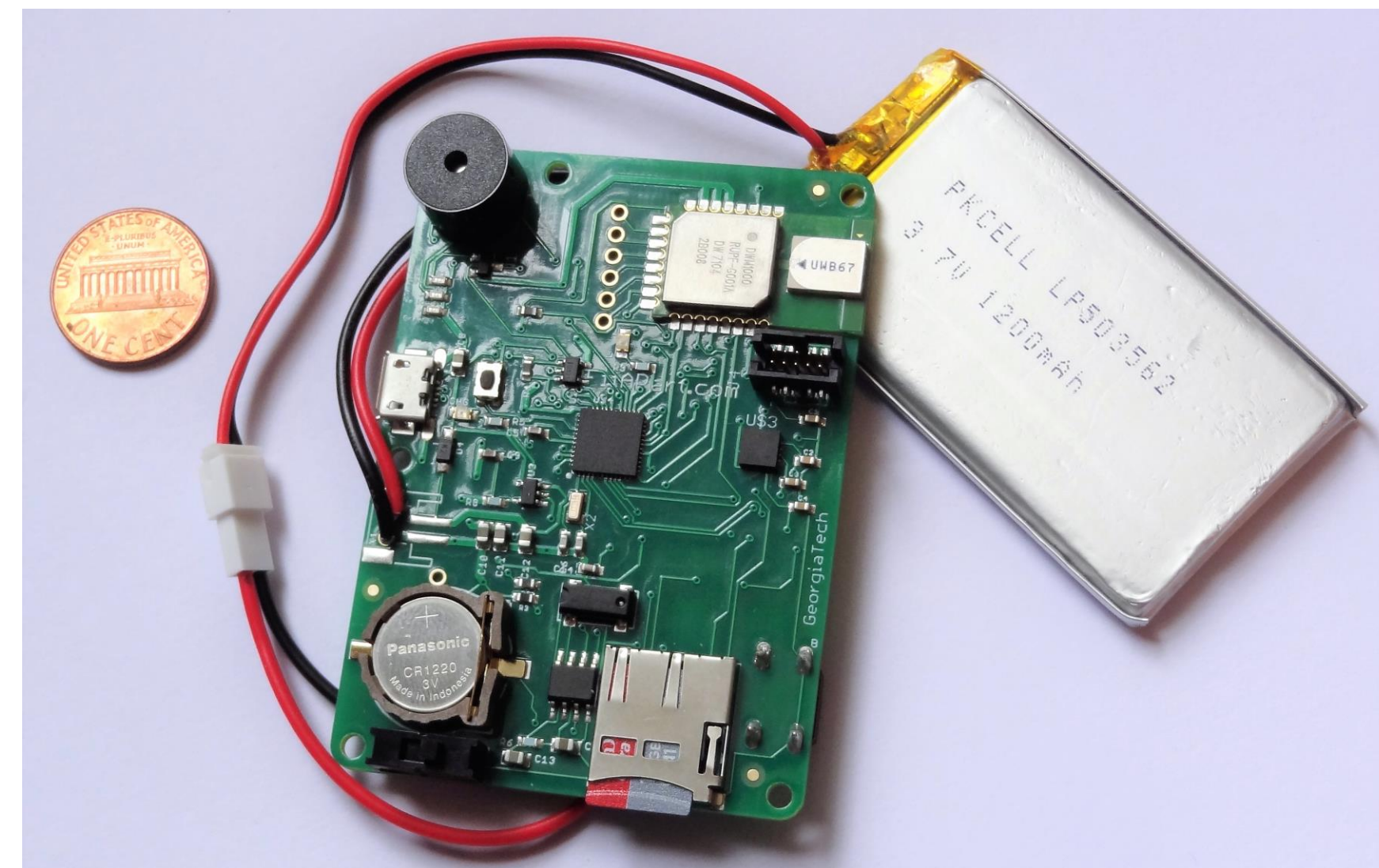
A safe distance between people helps **prevent** the spread of the SARS-CoV-2 virus. But it is hard to implement because people tend to underestimate the risk of brief exposures. Also, people are not comfortable calling out misdemeanors. Instead, using technology to warn people makes it impersonal and enforceable.

Physical distancing is distinct from contact tracing. This is just a real-time warning system that beeps if two people come too close to each other; no IDs are exchanged!

## Our Innovation

A credit-card sized wearable device that uses ultra-wideband radio to calculate distance from other similar devices in the vicinity and beeps if one is detected with 6 feet.

- It works stand-alone without connecting to the Internet or storing long-term data.
- Can fit in the pocket, be affixed to a grocery cart, or clipped like an ID badge.

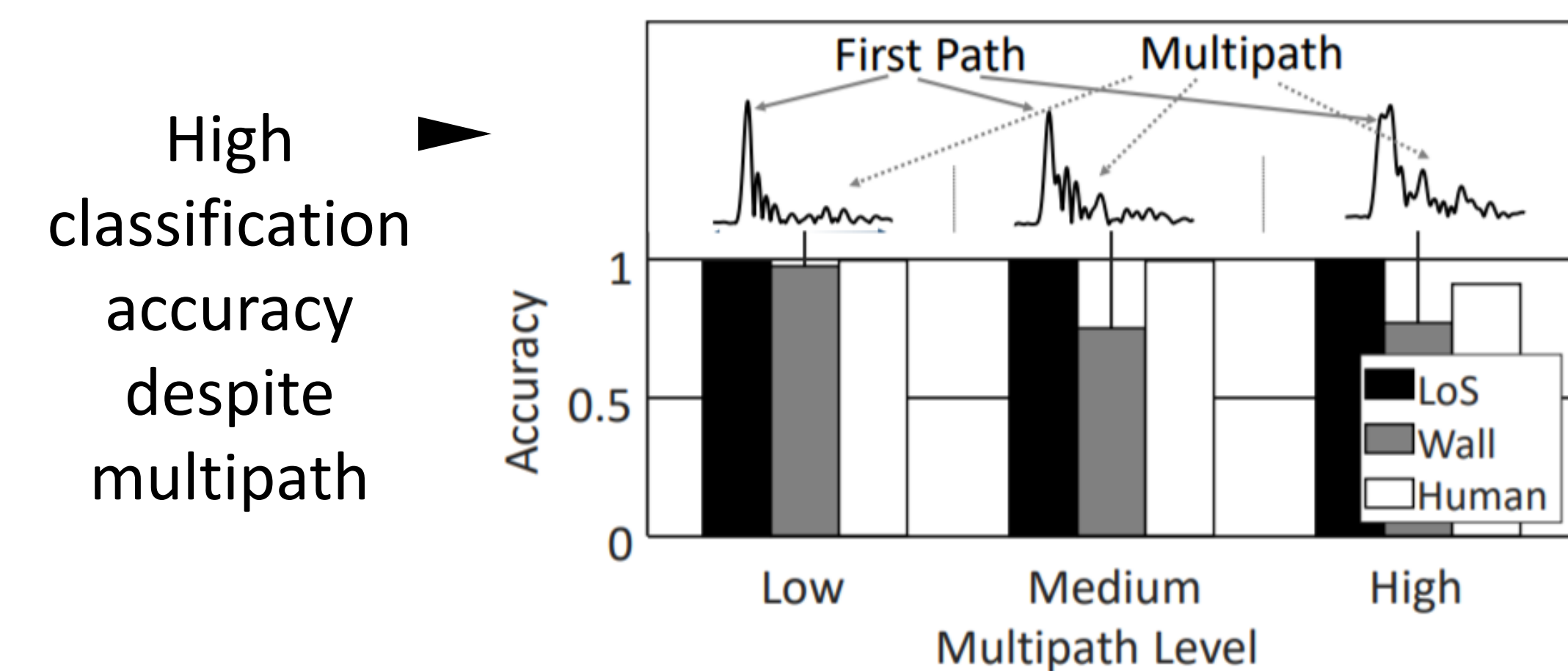
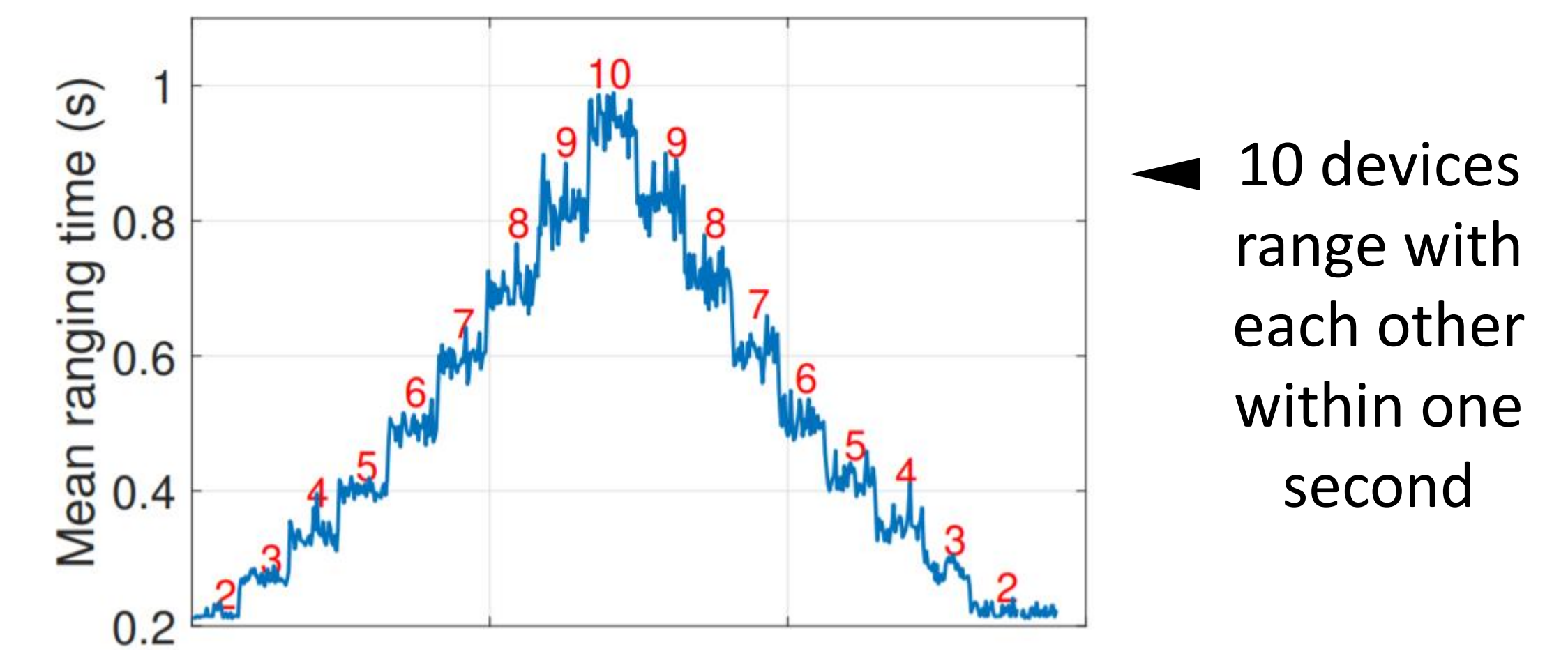


## Features

- Accurate distance measurements
- Ignores proximity across walls
- Compensates distance when devices are occluded by the human body
- Lasts an entire day without recharge
- Real-time audio-visual alarm system

## Technical Innovations

- An extremely fast peer-peer distance measurement protocol
- Simple on-device machine learning classifiers differentiate between walls and human occlusions
- Small form-factor, long battery life



## What's Next?

- Real-world evaluations
- Enables human behavioral studies

