

# Project Soli

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## Why in news?

- Google Pixel 4 is launching Motion Sense, a feature with a radar-based Soli sensor, which provides similar touch-sensitive controls.

## What's fresh about this technology?

- Google's Soli is a purposeful chip for microscopically tracking your movement.
- This uses miniature radar to detect human hand movement in real time; it can track submillimeter motion with great accuracy at high speeds.

## Features

- The Soli chip is only 8 mmx 10 mm and included in one unit is a sensor and antenna array, ensuring that even the smallest wearable are ideal for use.
- There are no moveable elements, it uses very little electricity, does not suffer from lighting conditions and works with most materials to make it an innovative piece of technology.

## How does Soli chip work for Google?

- The Google Soli chip uses radar so that electromagnetic waves can be emitted with objects inside the radar which reflect data back into the antenna.
- The system collects information about the communicating effects from the reflected signal—things like time delay or frequency shifts.