



AirFit Mobile Application

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National Association for Clean Air Agencies (NACAA)

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Introductions

- Kevin Brundage: EPA Emissions Inventory System Project Manager
- Victoria Wasem: EPA Emissions Inventory System Lead Business Analyst and Emissions SME

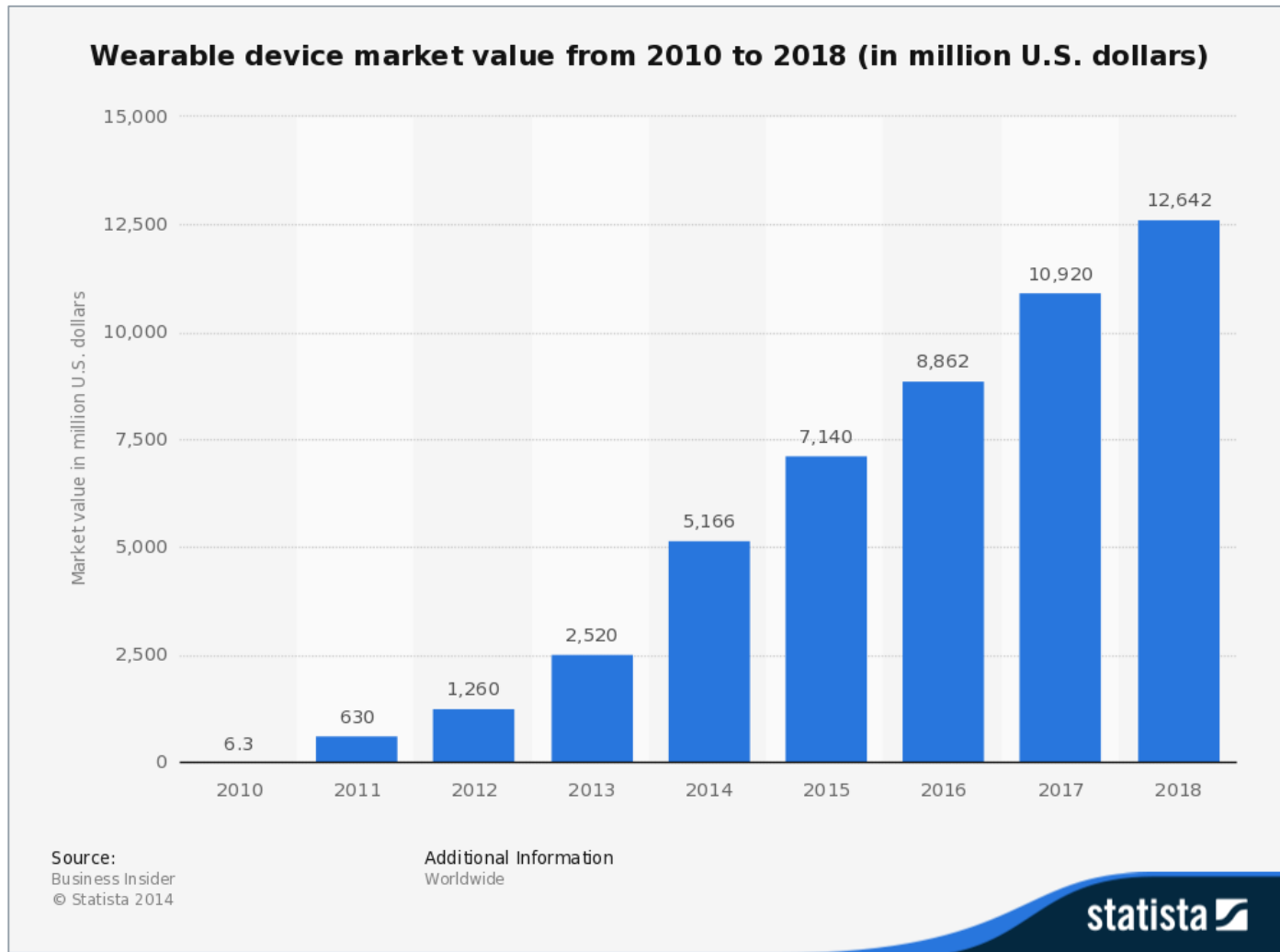
Wearable Tech Providers



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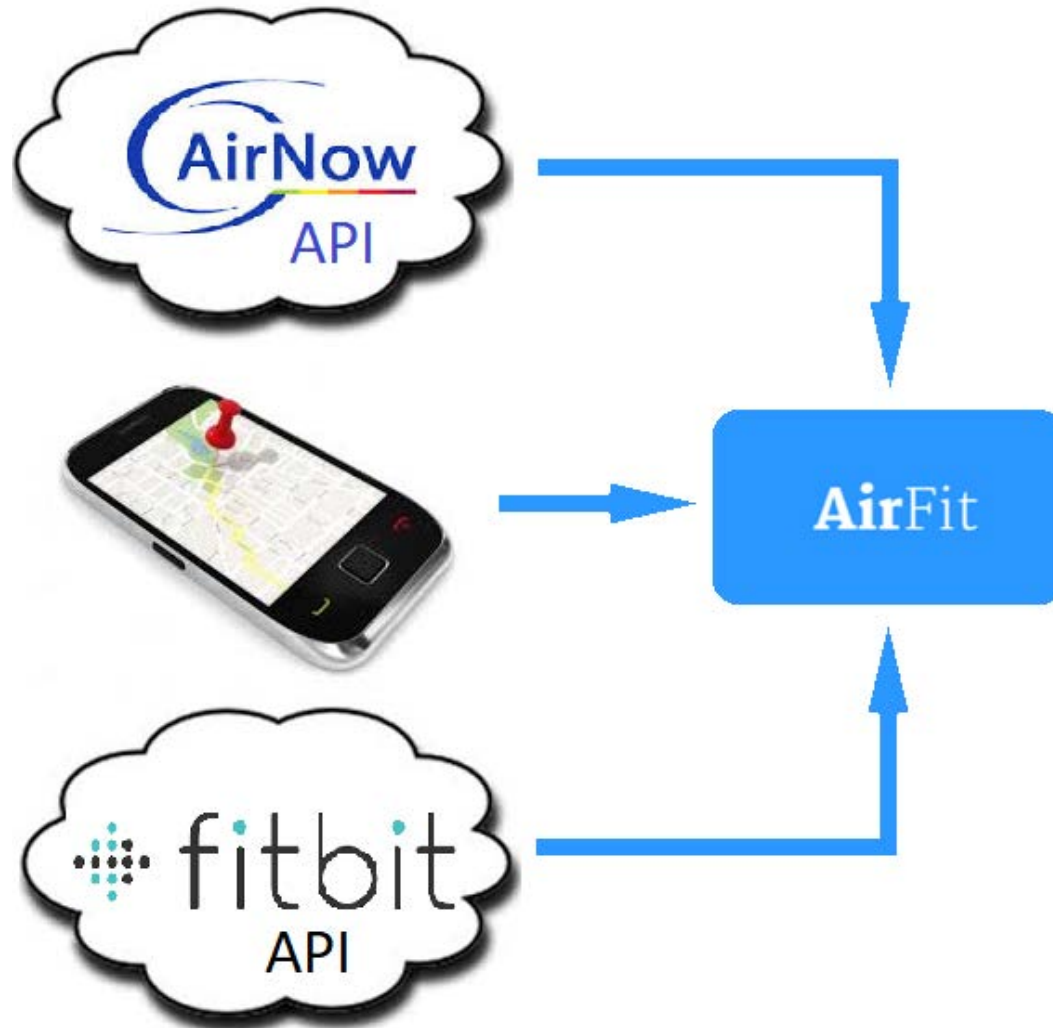


Wearable Tech Growth





AirFit Architecture



AirNow Data

AirNow API is publically available and receives real-time air quality observations from more than 2,000 monitoring stations and collects forecasts for more than 300 cities.

- Search for conditions by zip code or geographic coordinates
- Air quality forecasts and action days issued by air quality agencies.
- Real-time air quality observations by reporting areas
- Historical air quality observations by reporting areas
- Specify a distance range, and the web service will return information for the nearest reporting area



Wearable Tech Data

- Daily Activity Summary
- Frequent activities
- Log activity
- Recent activities
- Favorite activities
- Body fat logs
- Activity goals

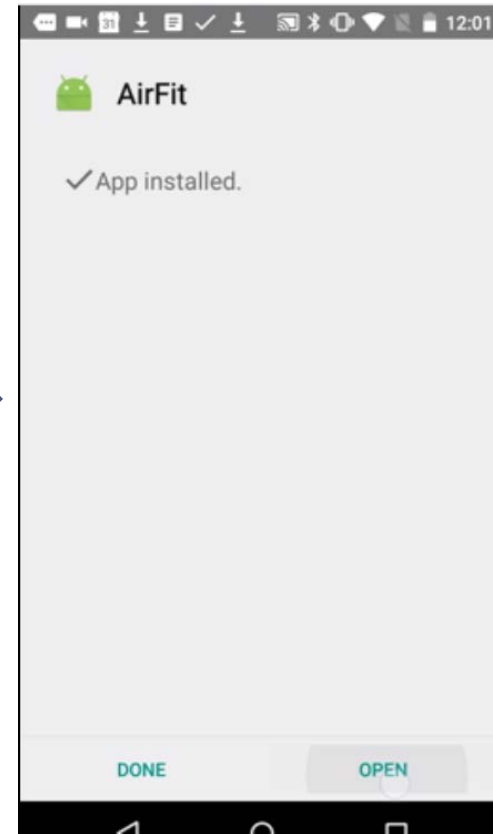
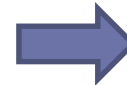
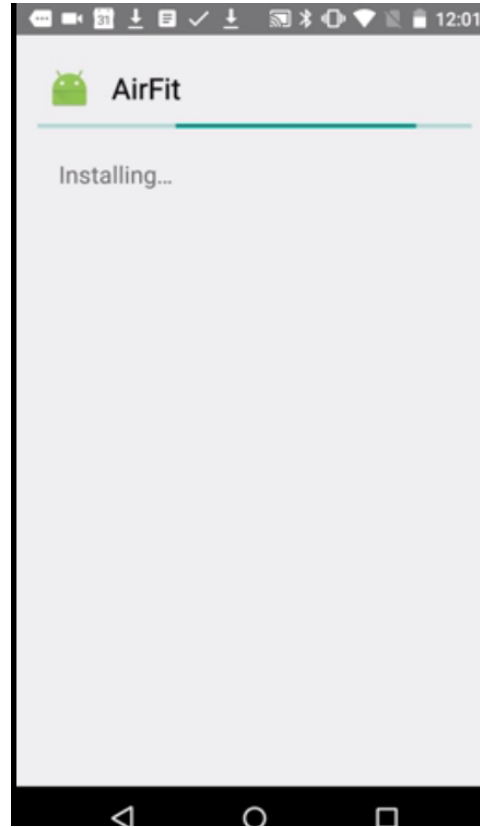
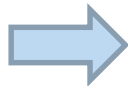
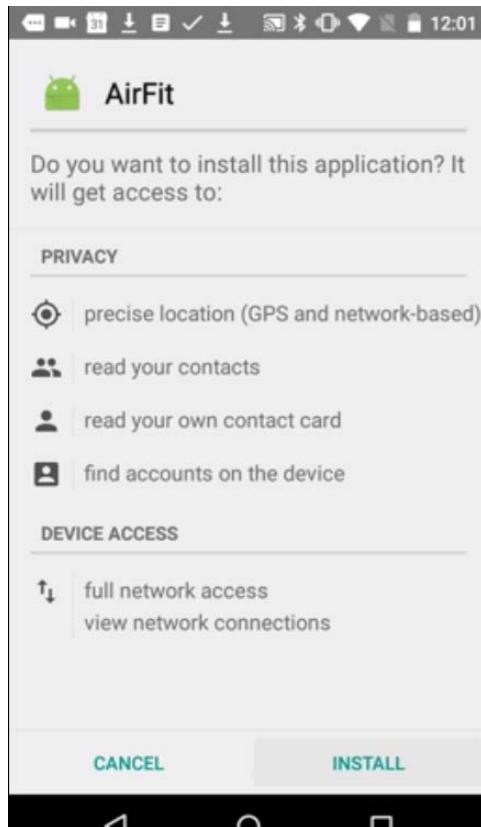


Integrating AirNow and Wearable Tech

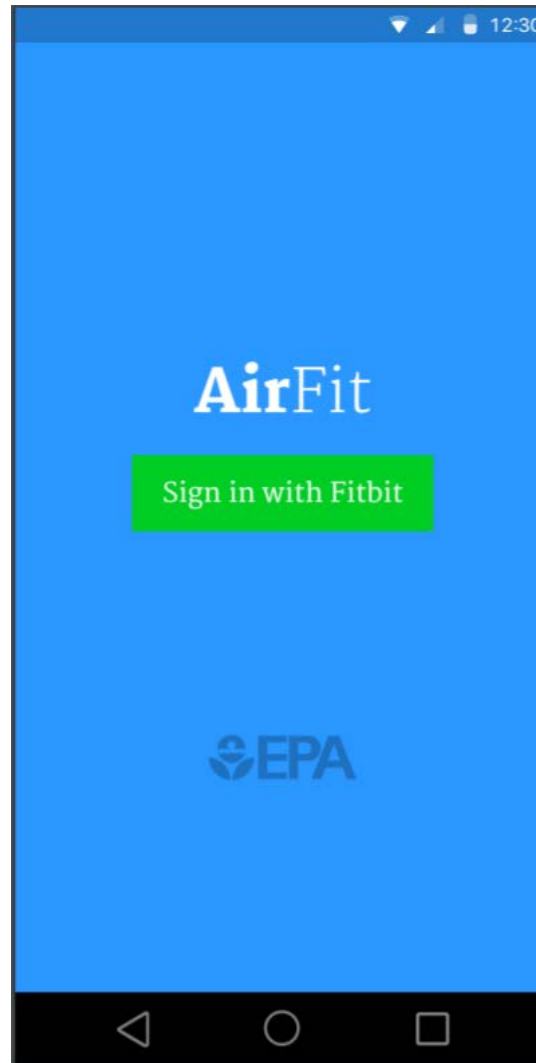
- View the number of steps taken compared to the air quality on a specific day
- Receive information about air quality in my area
- Track personal activity level per day over a period of time
- Track when you exercise indoors versus outdoors
- Choose your location to view air quality and the amount of activity you have in that location



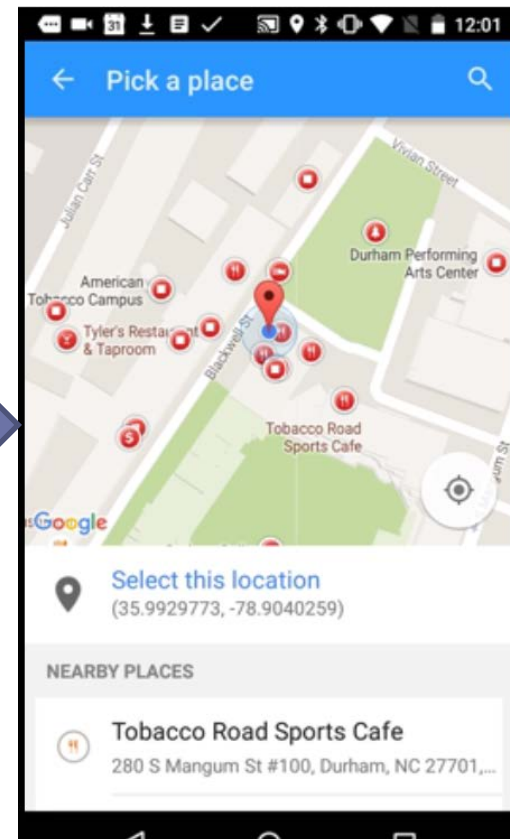
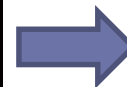
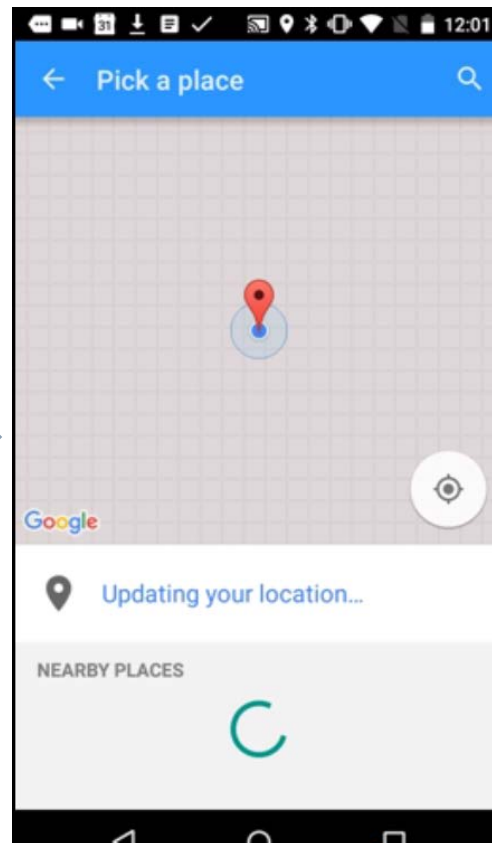
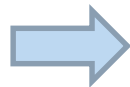
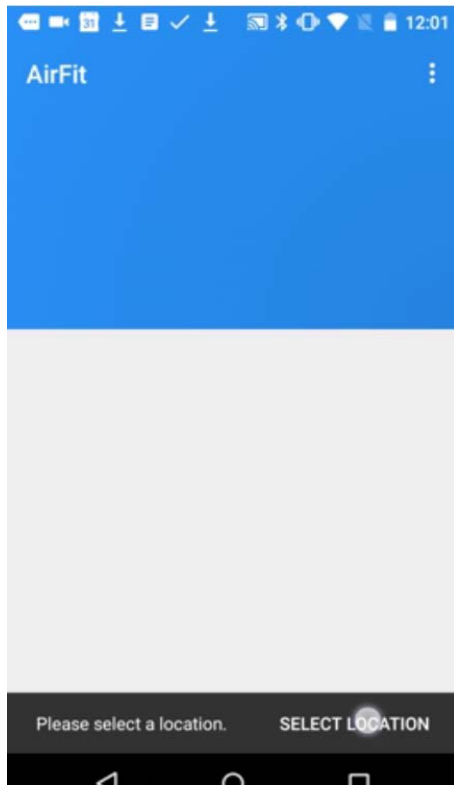
AirFit Workflow – Install App



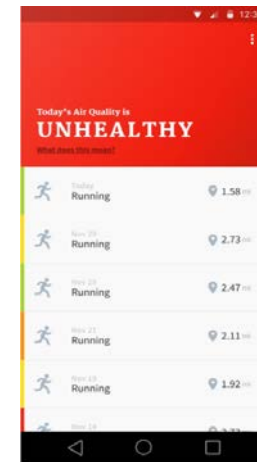
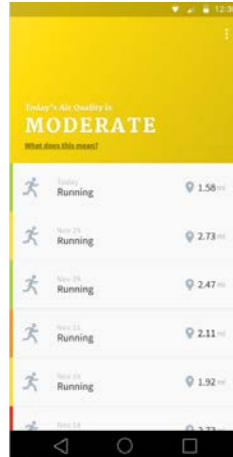
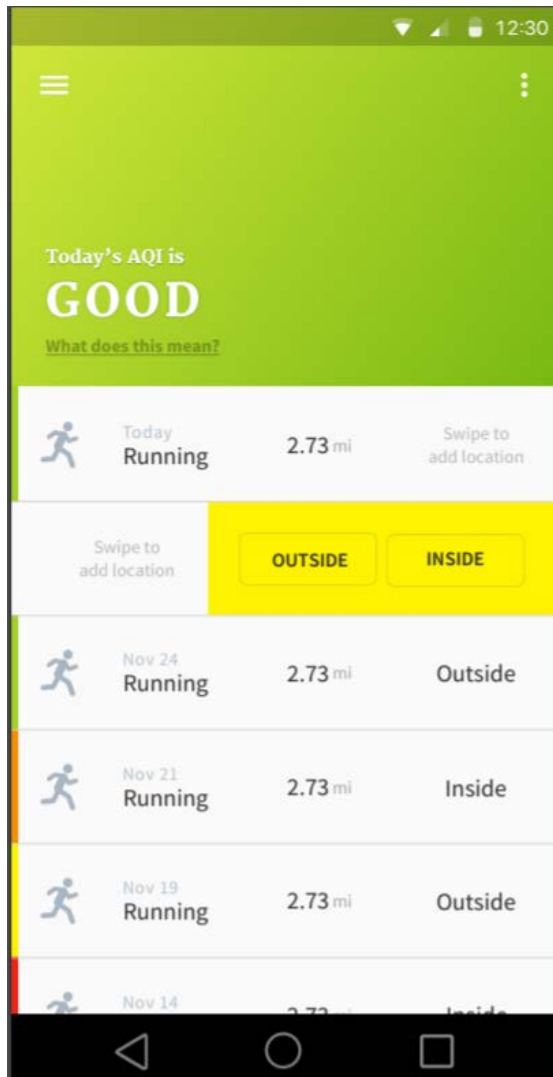
Sign in with Fitbit



Select Your Location

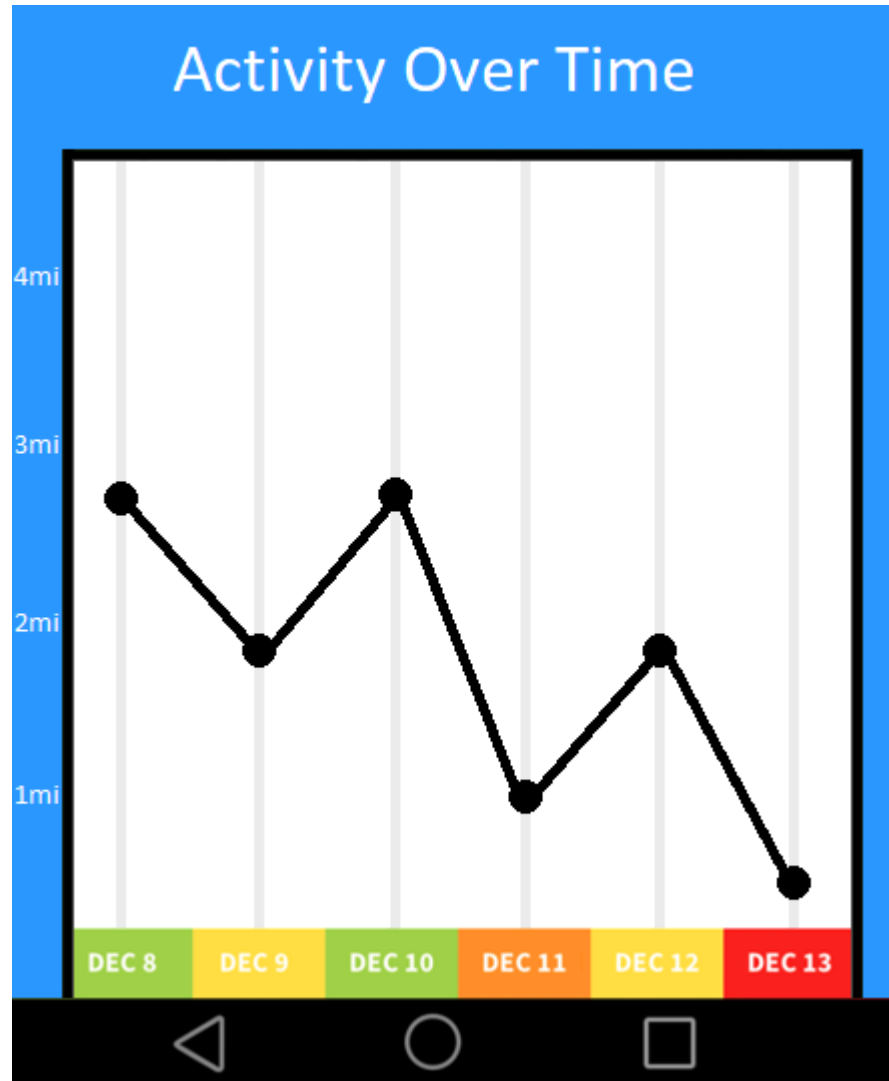


AQI and Activity Level



Air Quality Index (AQI) Values	Levels of Health Concern
0 to 50	Good
51-100	Moderate
101-150	Unhealthy for Sensitive Groups
151-200	Unhealthy
201-300	Very Unhealthy
301 to 500	Hazardous

AirFit Metrics



As the public, you can...

- Understand AQI ratings and what it means to them and their activity choices
- Receive information on recommended exercise environments or suggested periods of time for when to partake in physical activity
- Make more informed choices for your health



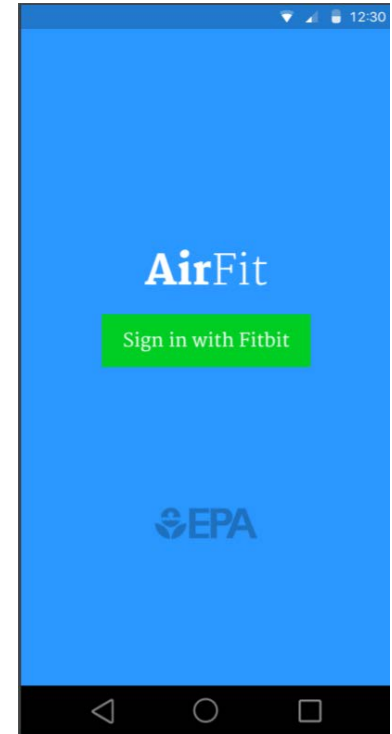
As the EPA, you can...

- Access accumulated data from the public who are using wearable fitness tracker technology to review activity choices
- Determine if there is any connection between air quality and physical activity
- Identify areas where infrequent exercise coincides with poor air quality
- Recommend particular exercise environments based on a larger set of air quality data



Future Capabilities

- Collect demographic data about the individual to personalize the recommendations and alerts
- Show alerts when there is good air quality so user knows when to exercise
- Make recommendations for daily activities based on air quality and personal settings (e.g. allergies)
- Provide additional data regarding the specific pollutants and how they impact your recommended activity level
- Integrate with other types of wearable technology devices





Thank You