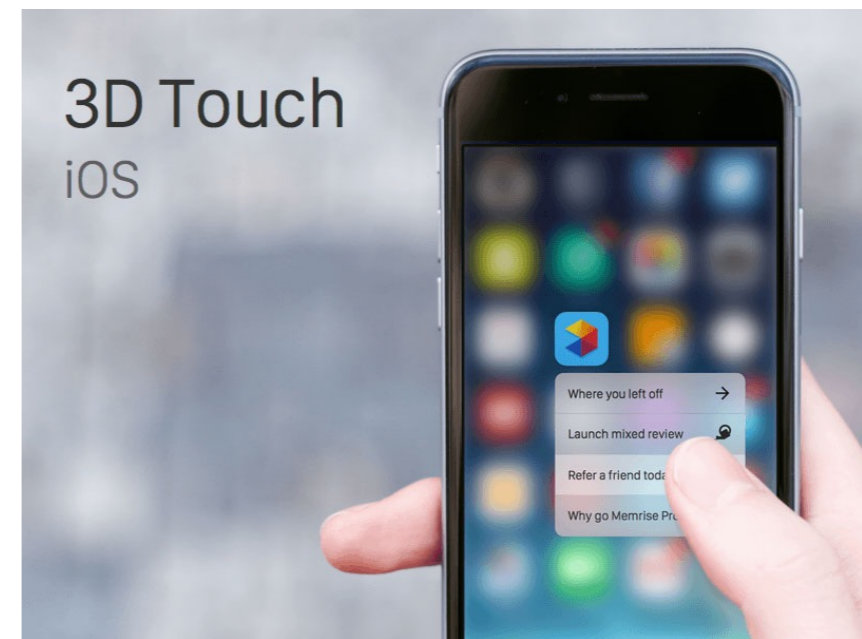


SWAN Project

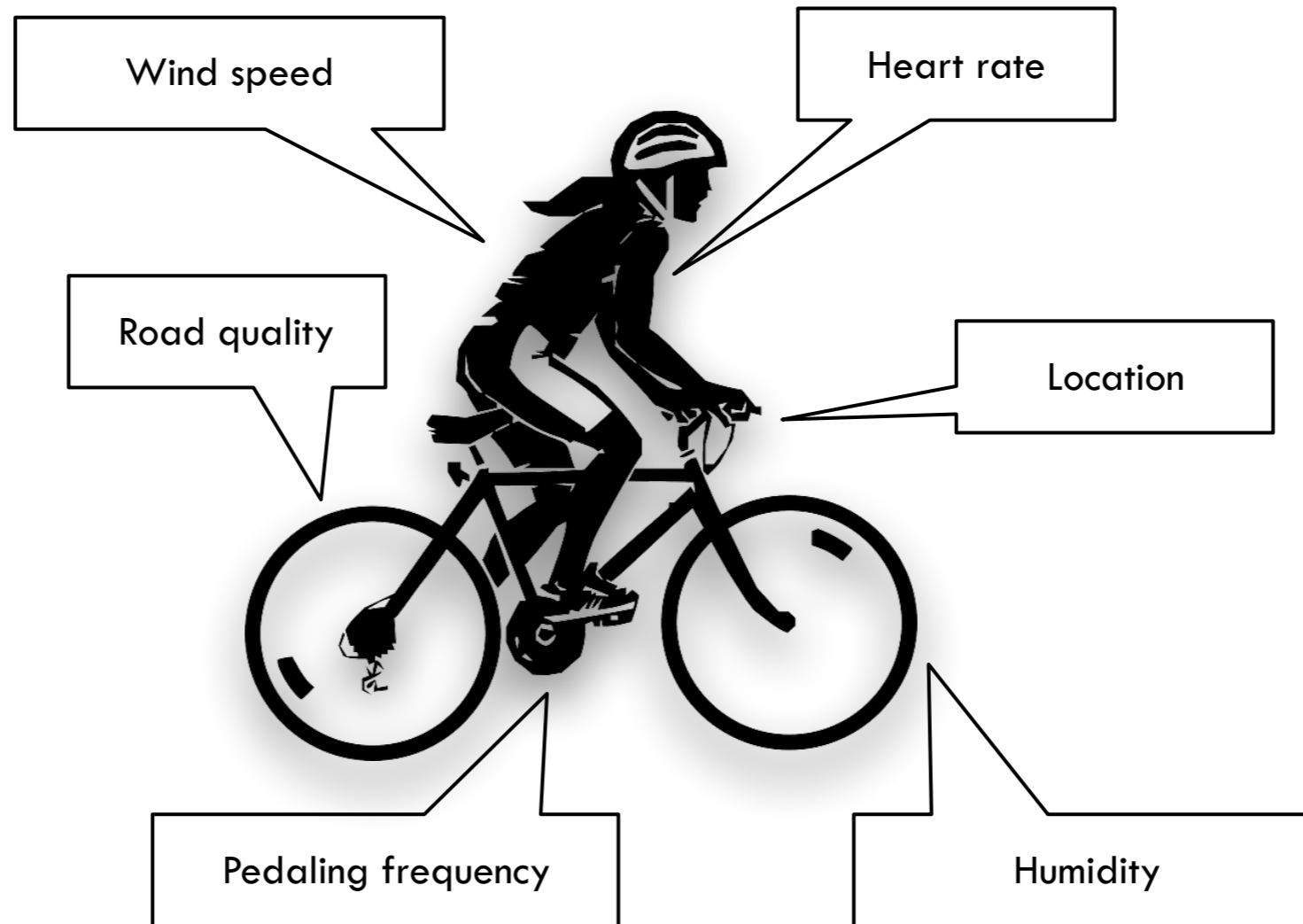
Roshan Bharath Das

Introduction

- Sensors
 - Onboard - Apple 3D touch
 - External - Smart watch
 - “Software” - Open data (Traffic, Weather)
- Interesting context-aware apps
 - Runtastic
 - Shazam



Introduction



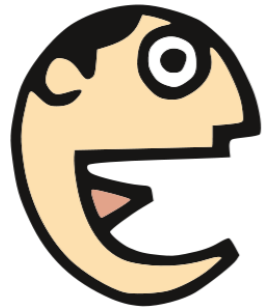
“Due to strong wind, high fatigue level and poor road quality on chosen route, it’s recommended to take an alternative route through Amstel.”

SWAN framework

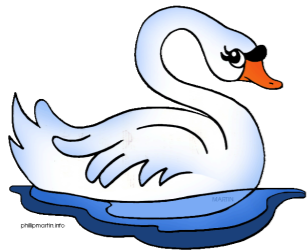
- Middleware between apps and sensors
- Supports 20+ sensors
- Easy plug-in for third party sensors
- Distributed sensing
- Cloud-ready



SWAN Song



"Let me know if the battery drops more than 25% within 1h with the screen turned off."



```
screen:on {ALL, 1h} == false && (battery:level {MAX, 1h} -  
battery:level {MIN, 1h}) > 25
```



```
IntentFilter ifilter = new IntentFilter(Intent.ACTION_BATTERY_CHANGED);  
Intent batteryStatus = context.registerReceiver(null, ifilter);  
... (10 more lines of code)
```

