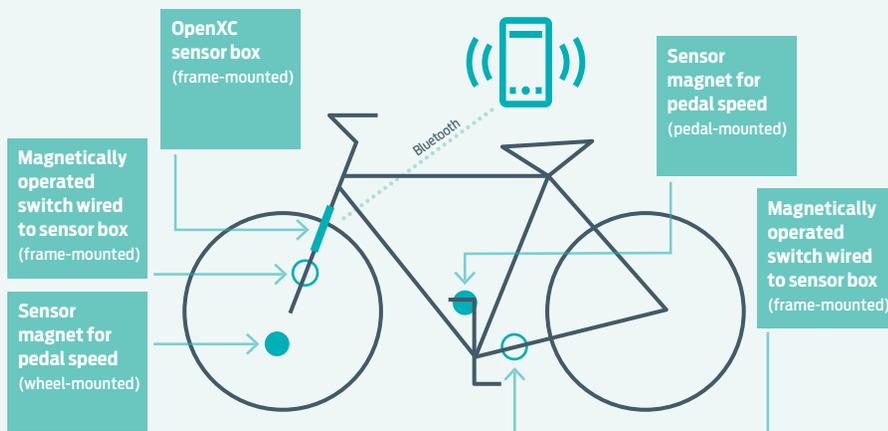# INFO CYCLE

Engineers are working to develop sensor kits based on Ford OpenXC that gather information from bicycles and other common forms of transportation in urban areas. The devices gather data such as wheel speed, acceleration and altitude, among other information. The data could provide insight into how alternate modes of transportation might be best positioned to serve future urban mobility needs.

OpenXC sensor box (frame-mounted)

Magnetically operated switch wired to sensor box (frame-mounted)

Sensor magnet for pedal speed (wheel-mounted)

Bluetooth

Sensor magnet for pedal speed (pedal-mounted)

Magnetically operated switch wired to sensor box (frame-mounted)

First, the electronic sensor box gathers sensor data, then the accompanying software libraries and application programming interface provide a way for developers to create custom applications and sensors.

The Experiment
Develop sensor kits for bicycles to gather information about how bikes are used today to meet existing urban transportation needs.

Palo Alto

Dearborn

GOALS

Big Data

FORD **SMART MOBILITY**