Bicycle Recovery Network

Project Motivation:
Lost and stolen bikes are difficult to recover without significant effort. Is there an easier way to get your bike back?

Proposed Solution:
• Bike racks keep track of check-in and check-out activities of bikes. After an owner reports their bike as stolen, law enforcement authorities and the owner will be notified of its next location within our system.
• Helps motivate owners to register their bikes and reduce city bike storage costs

How Does It Work:
• Bikes are embedded with a Bluetooth Low Energy Beacon (BLE) that can be identified and tracked within a certain range by a reader near bike racks
• The readers send bike location data to a server. In the event of a theft, the owner reports the bike as stolen on the website
• The next check-in at a rack notifies police and owner via a text from the server. Get your bike back!

Future Plans:
Understanding the scalability and economics of the solution.