Two android devices are required to demonstrate the solution.   
1. One device acts as the device that will be attached or in-built to the traffic signals.   
2. Second device will act as the pedestrian’s phone.

Device pre-requisites

1. Devices should be Bluetooth discoverable to all devices with visibility timeout set to ‘never timeout’.
2. Device with consumer app needs to have Bluetooth device name as ‘Xperia’.

Installation and activation Steps

Tug! Consumer app

1. Download & Install tug.apk after unzipping tug folder or download it at <https://www.dropbox.com/s/jxa5pr4tuak0sw9/tug.apk?dl=0>
2. Click on the app icon
3. Click on ‘Tug me’ button.
4. After this press the home button and you can continue your normal work.

Tug! Traffic Signal Model

1. Install the trafficSignal.apk after unzipping tug folder or download it at <https://www.dropbox.com/s/m79qp7zs8zsbcln/trafficSignal.apk?dl=0>
2. Click on the app icon.
3. Click on ‘Don’t Walk’ button to activate. As soon as it is activated, you’ll see a translucent screen on consumer app installed in first step.
4. If it doesn’t show up in 20 seconds.
   1. Click on ‘Walk’ to deactivate.
   2. Click on ‘Don’t’ walk again

After the above steps, click on ‘Send Alert’ button in the traffic signal app. Hitting the send alert button will send immediate alerts to device with consumer app installed on it. Alert is a translucent screen with the message ‘Look up!’ over any activity pedestrian is currently doing on their phone.

In the final solution instead of traffic model app the signal will be transmitted from a device attached/built-in to traffic signal.