Background and Motivation

Bridge RF-Powered Device with Internet

- Some primitive ideas:
 - Can we ask RF-Powered Device to <u>Directly use WiFi</u> just like my iPad? X can't ask a kid to fly a jet

Wifi Protocol consumes orders of magnitude more power than what is available in ambient RF

 Can we add a <u>Transfer Station</u> that support both Internet access and RF communication? X seems practical, but lose our advantage of low deployment cost

Need to deploy an extra special-purpose powered infrastructure devices

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- Idea proposed in this paper:
 - still let RF-powered device access Internet through WiFi

The cheapest way to access Internet
Wifi is everywhere nowadays

- But use WiFi in a non-WiFi manner: Wi-Fi Backscatter
- what does this mean?