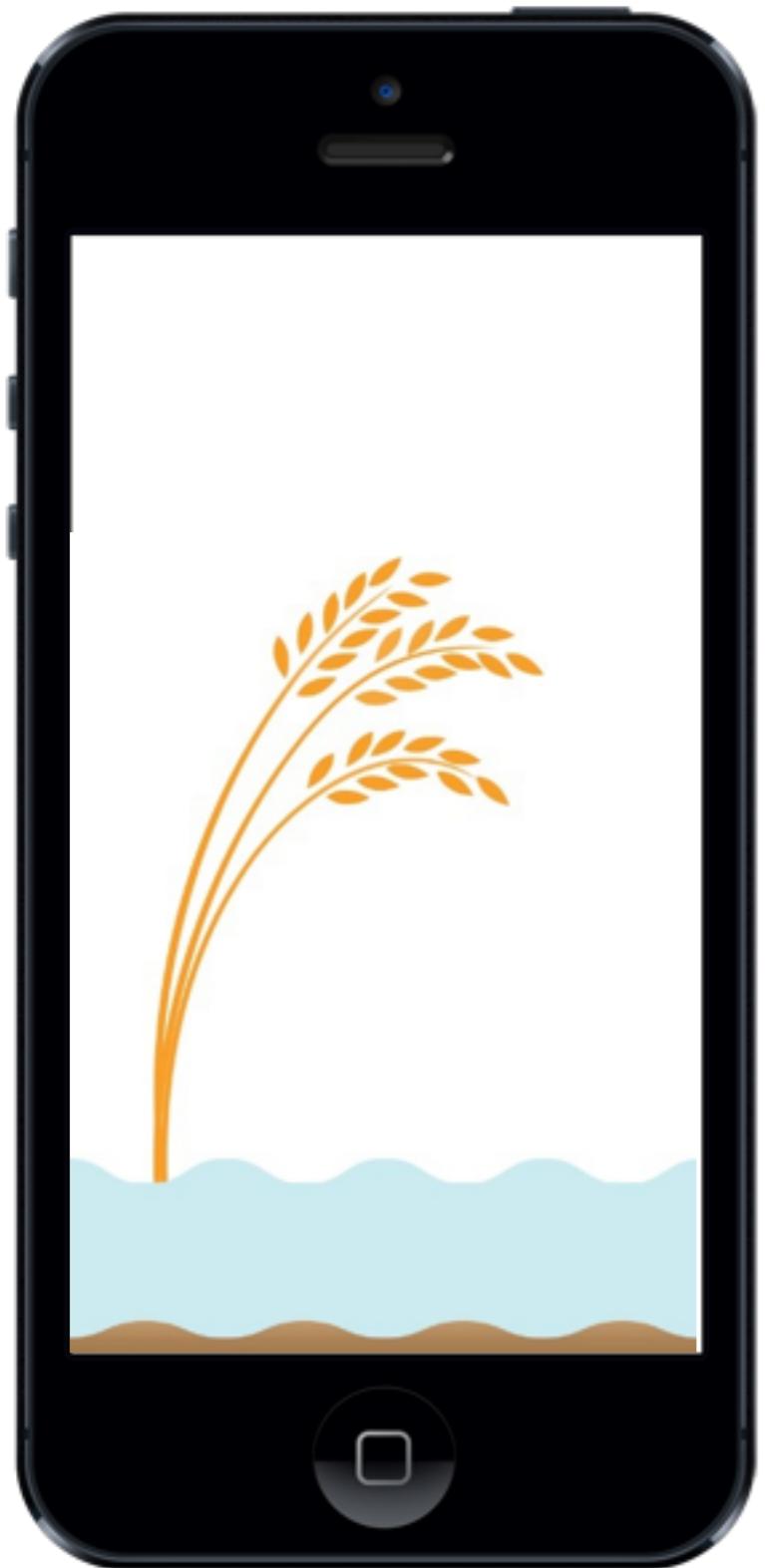


A photograph of a grassy embankment where several people are walking. A woman in a green dress and hat walks a black and white dog. A young boy in a yellow shirt walks alongside her. Further down the embankment, another young boy in a black and yellow shirt walks away from the camera. On the right side, a person wearing a white hat and a dark shirt walks towards the camera, carrying a striped bag. The background shows more green grass and a path.

techrice

What is techrice ?



Is a system to
remotely monitor
**rice fields water
level**

**Why do we
need techrice ?**

Tanaka-san, 74歳



He loves
growing rice



Going by
car to check
the water
level takes
10 minutes
every day

3,2km away



田んぼのメンテをちゃんとや
らないと生産性が下がります



Tanaka-sanの田んぼ一年間の生産

ちゃんと運用する場合	適当に運用する場合
コシヒカリ 100Kg	コシヒカリ 60Kg

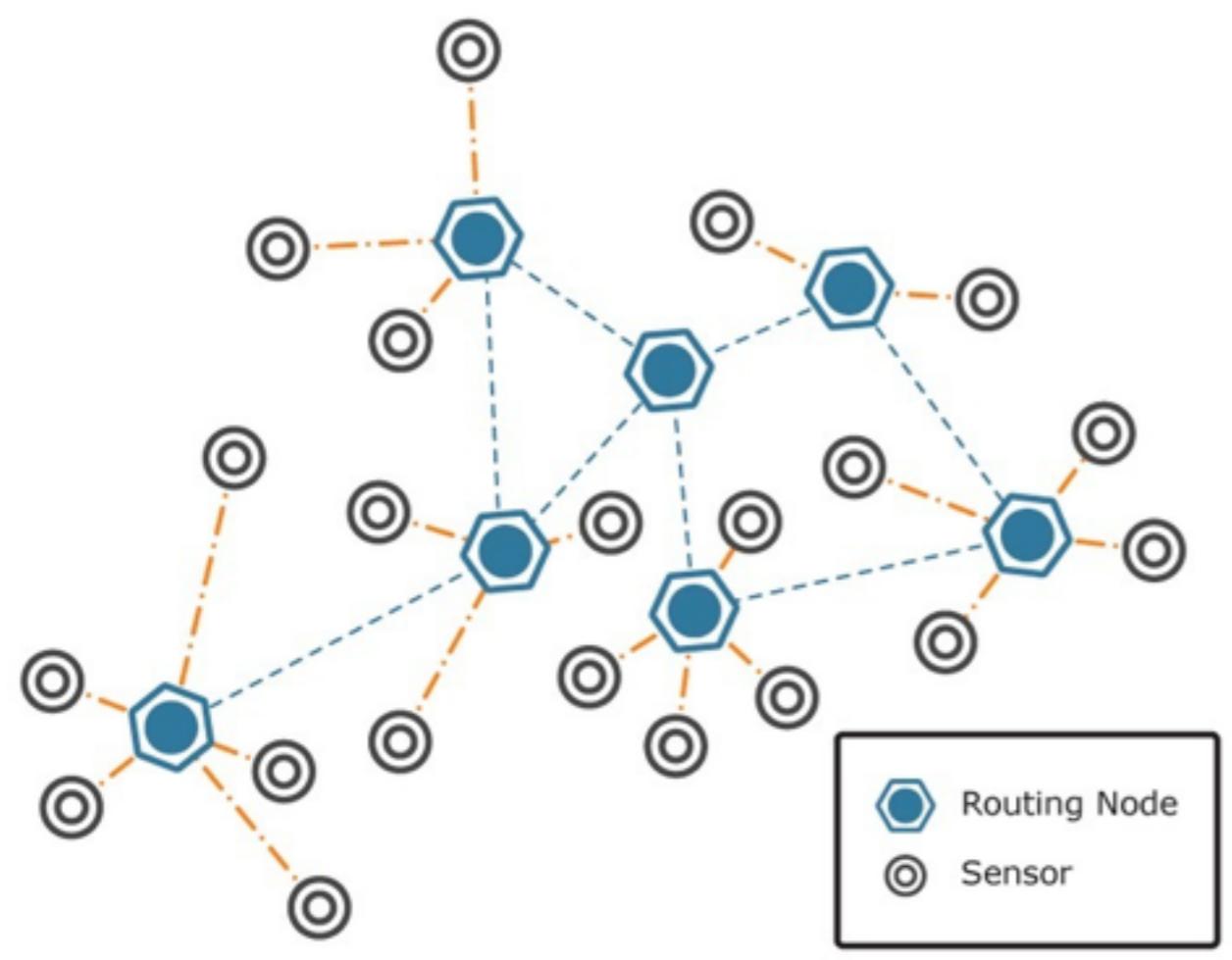
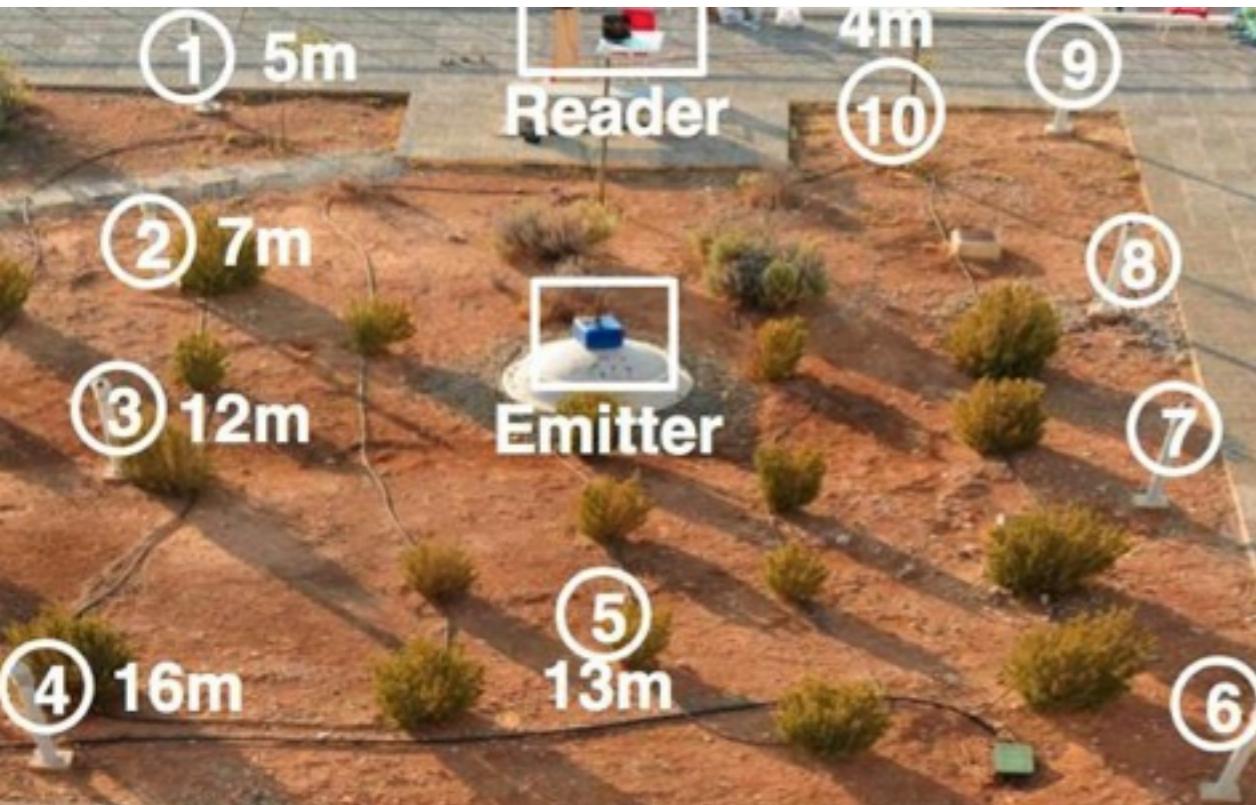
Tanaka-san is getting old
and sometimes he doesn't
go to check the rice field
for days

水面のレベルを確認するの
は「面倒くさい！」



Using **techrice**
Tanaka-san
doesn't have
to go to the
rice field to
check the
water level
everyday

How does techrice work?



Building a low
cost, low
power **sensor**
network

Using

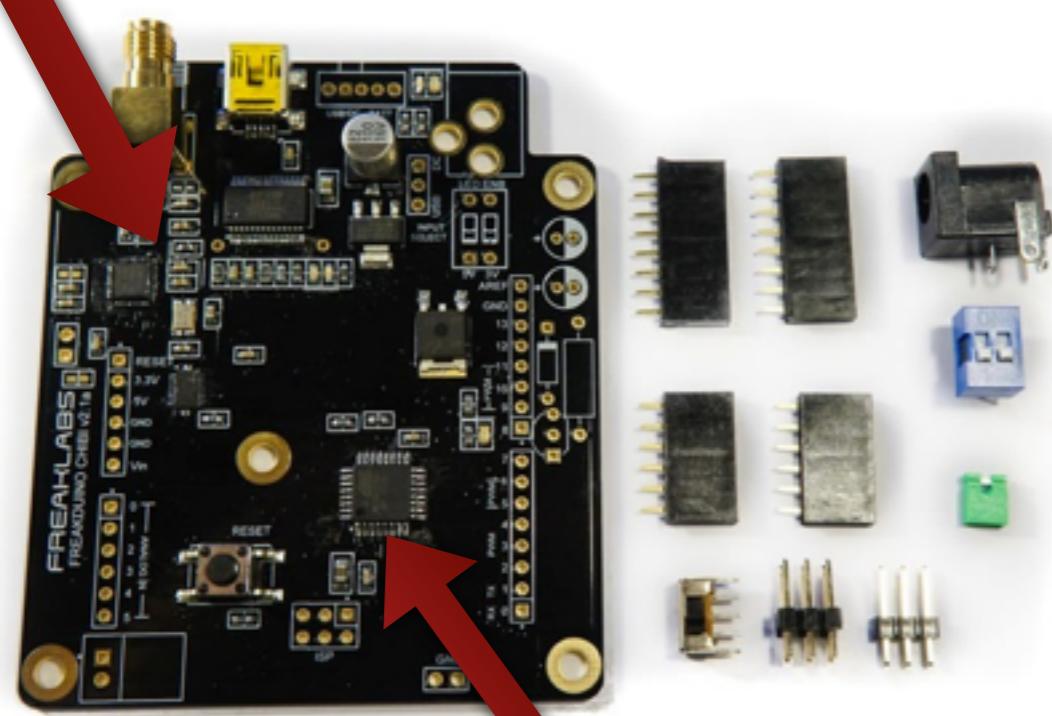
Freaklabs

802.15.4 open

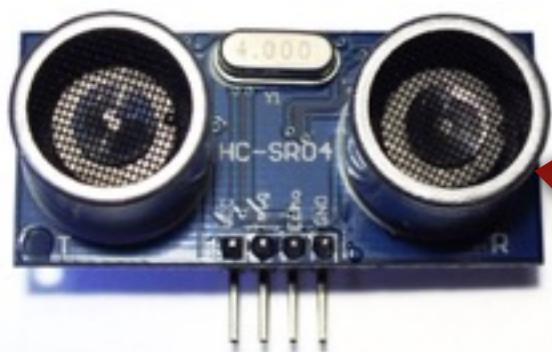
hardware.

Long range & low power

900Mhz
802.15.4



ATMega 328
processor, 8Mhz

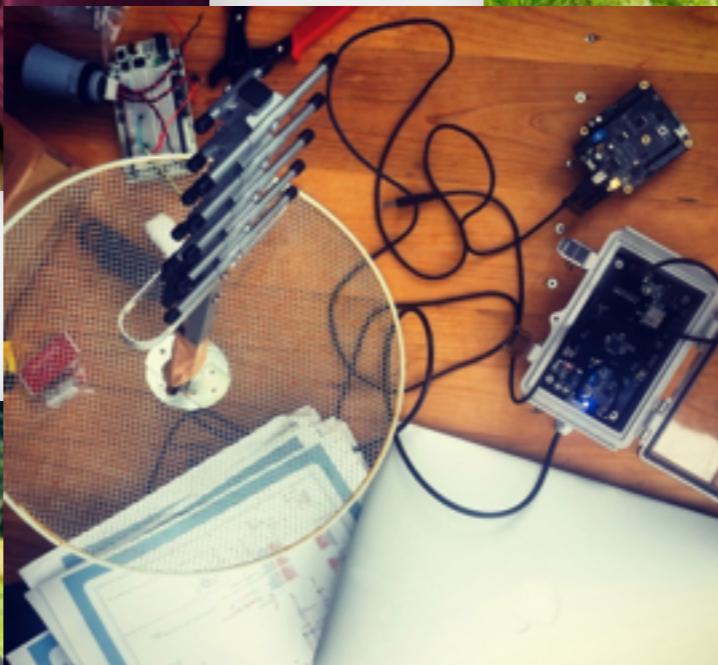


Sonar to
measure
water level

FutureLab Hardware Lab



Building our first prototype at **Hacker Farm**



Demo

