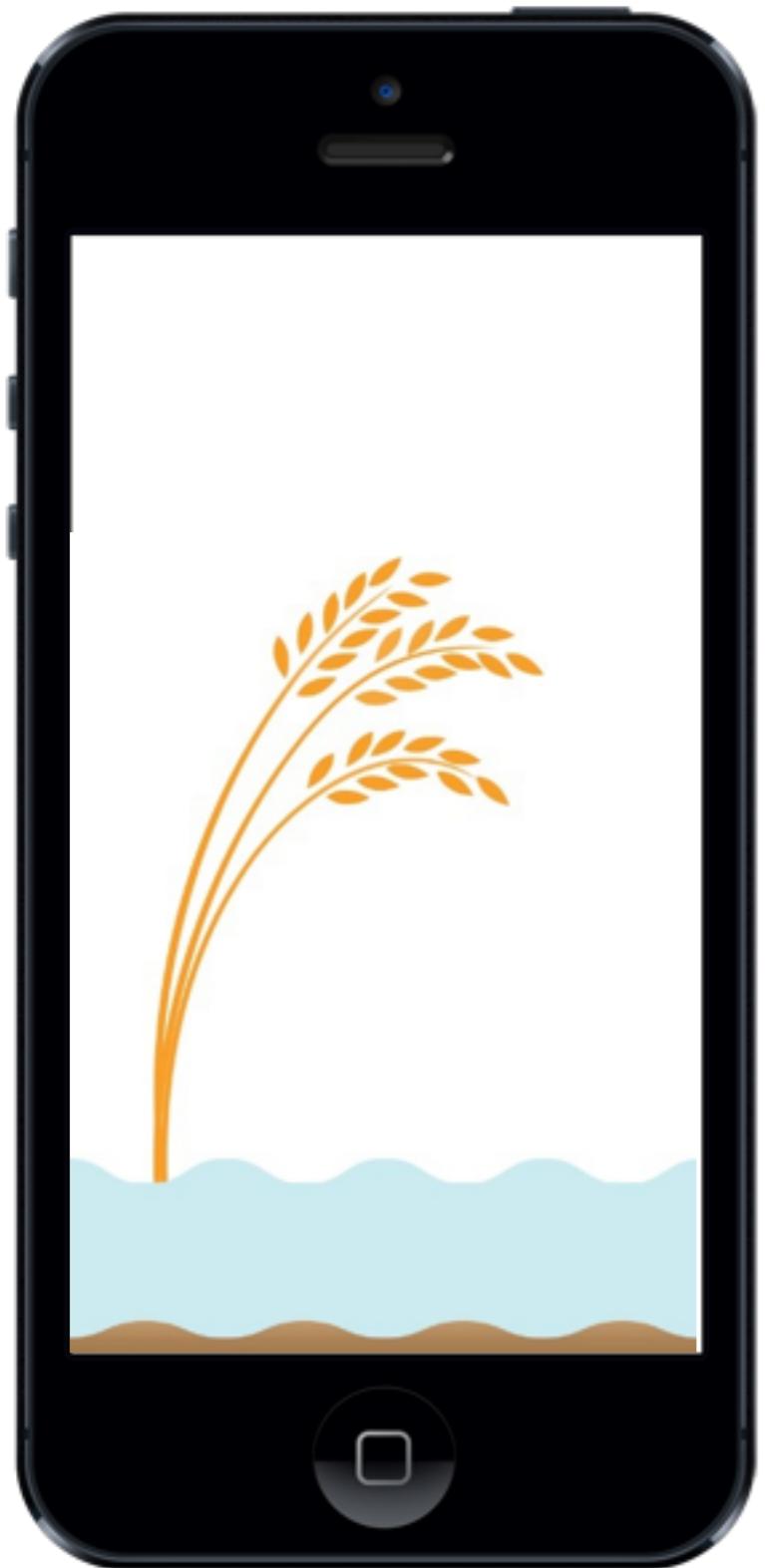




A photograph of a grassy embankment where a woman in a green dress and hat walks a black and white dog, while a young boy stands nearby. In the background, another person walks a dog, and a third person stands further up the hill. The foreground is filled with lush green rice plants.

# 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

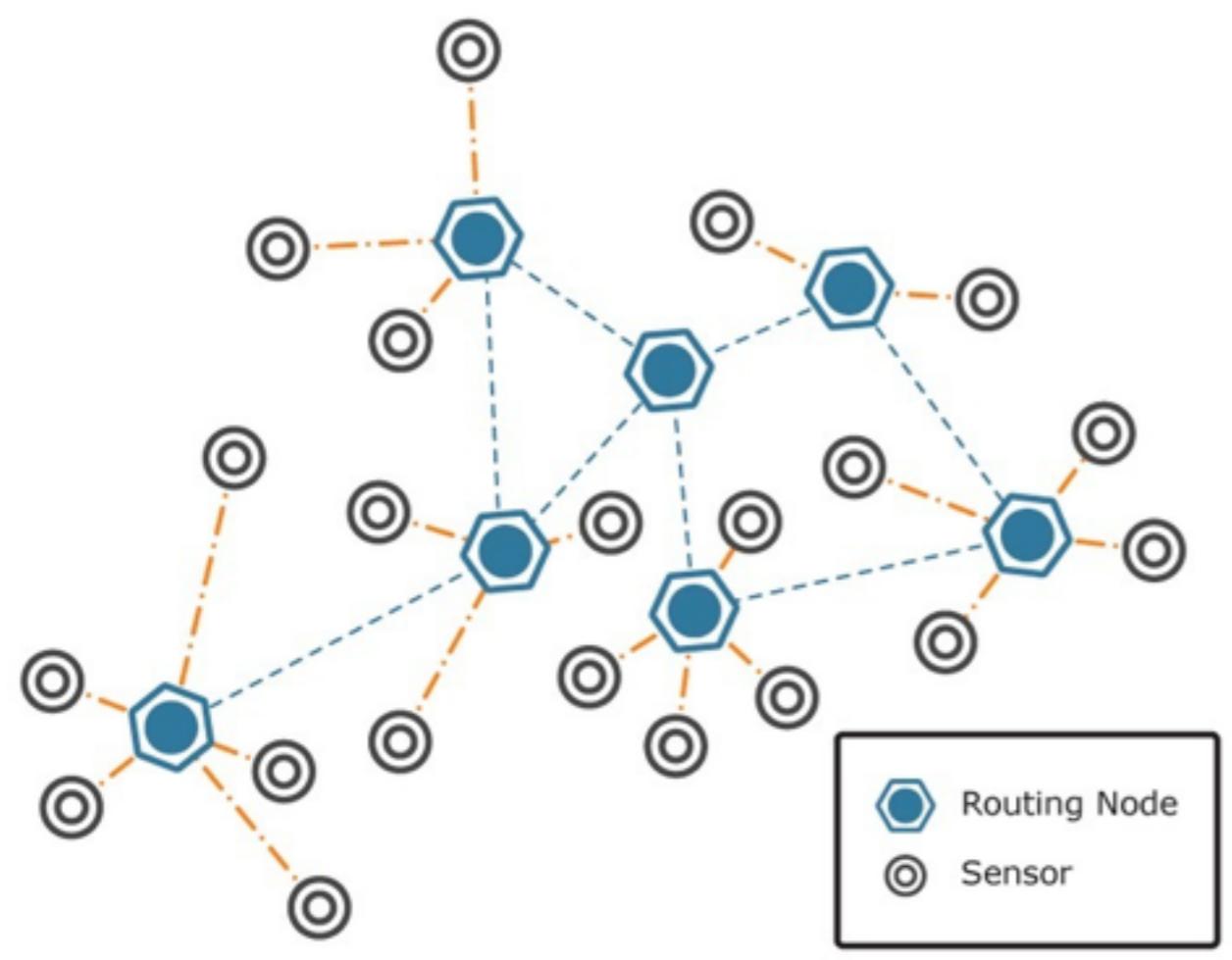
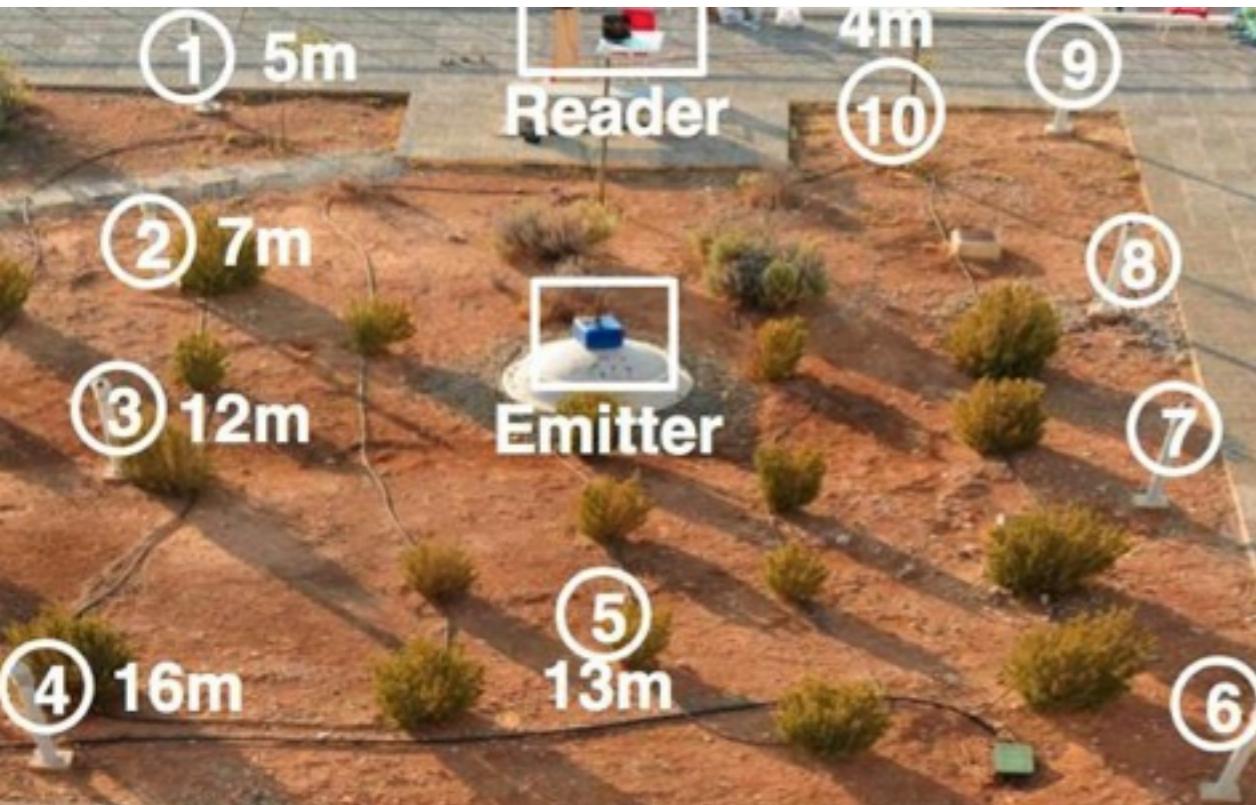
Tanaka-san is getting old  
and sometimes he doesn't  
go to check the rice field  
for days

水面のレベルを確認するの  
は「面倒くさい！」



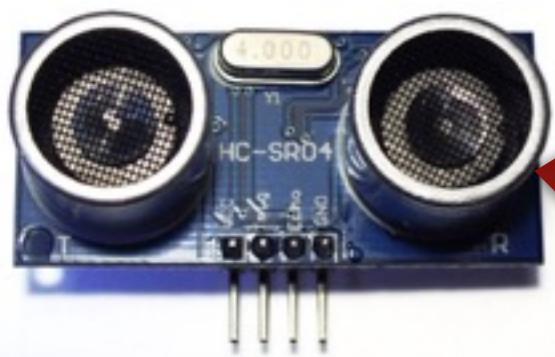
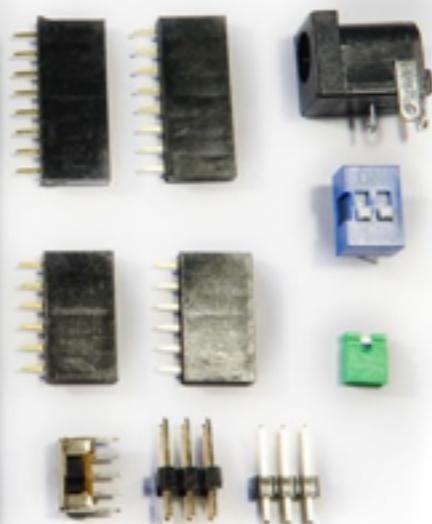
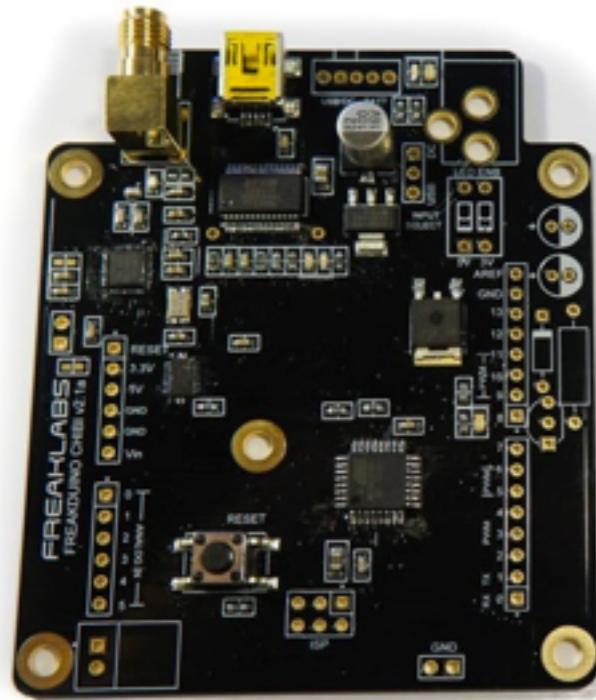
Using **techrice**  
Tanaka-san  
**doesn't have**  
**to go to the**  
**rice field** to  
check the  
water level  
everyday

**How does techrice work?**



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

# Using **Freaklabs** hardware. Long range & low power



Sonar to  
measure  
water level

# FutureLab Hardware Lab



# Building our first prototype at **Hacker Farm**



