# IoT for Water Management in Paddy Fields

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## Background

• 31.8% engages in agricultural activities.

Rice cultivated area is 34% of total cultivated area

• 1.8 million farm families are engaged in paddy cultivation.

The per capita consumption of rice is around 100 Kg per year.





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### Problem

Water management

Disputes between the authority and farmers

Disputes among farmers

Water quality

Pesticide

Fertilizer

### Solution

Providing data to the stakeholders to make informed decisions

Individual farmers- Water level in the paddy field

 Farmers and authorities - Amount of water consumed by each farmer and as a whole

 Public- The purity of the water coming from paddy fields (passing to rivers)

#### Solution

- Sensors to measure water
  - inflows and outflows from each paddy land
  - Purity of water passing to rivers
- Internet
  - Publish data online

#### **GRAZIE**