

## Ideation Phase

### Define the Problem Statements

Date	03 OCT 2023
Team ID	449
Project Name	Project Environmental monitoring

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	Public Health Professionals	Surveillance Data	the environmental of monitoring	do not Surveillance Data	Surveillance Data
PS-2	Policy Makers	Policy Development	the environmental of monitoring	do not Policy Development	Environmental Policies
PS-3	IT Managers	Business Continuity	the environmental of monitoring	do not Business Continuity	essential for improving workplace collaboration, creativity, and productivity
PS-4	General Public	Improved Quality of Life	the environmental of monitoring	do not Improved Quality of Lif	Improved Quality of Life



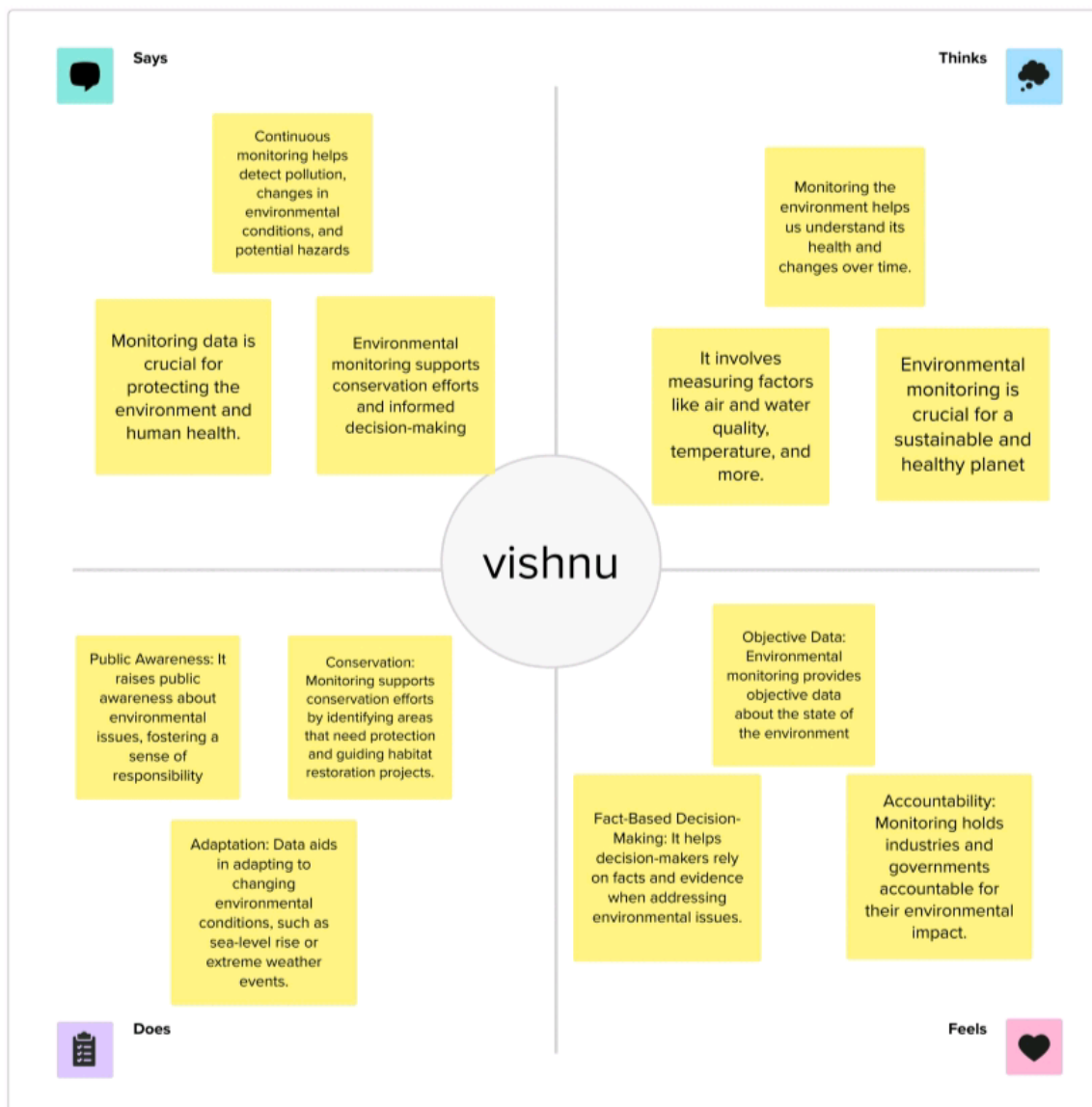
## Ideation Phase

### Empathize & Discover

Date	03 OCT 2023
Team ID	449
Project Name	Environmental monitoring

IoT-enabled environmental monitoring systems are increasingly popular as they provide businesses with the ability to collect and analyze large amounts of data quickly and accurately, which can help inform decisions around reducing their environmental footprint and achieving sustainability goals.

Some of the benefits of IoT-based environmental monitoring include reducing the need for human labor, allowing frequent sampling, increasing the range of sampling and monitoring, allowing sophisticated testing on-site, and binding response efforts to detection systems.



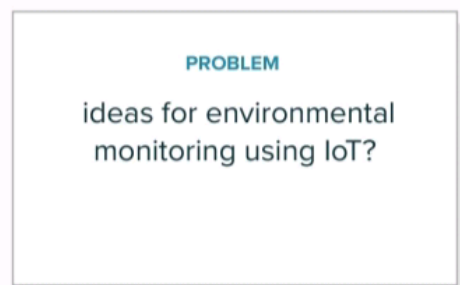
## Ideation Phase

### Brainstorm & Idea Prioritization Template

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. The challenges of IoT in environmental monitoring include data management, security and privacy, and power supply, but many IoT devices come equipped with lengthy battery lives, even in the most hostile conditions

#### vishnu

forest fire detection, air pollution monitoring.

earthquake early detection

landslide and avalanche prevention

#### prathap

used to detect noxious substances

enabling governments and industries to clean and protect our air, soil, and water

low-cost device that measures air quality and weather conditions.

#### arulmozhi

can be used to monitor water quality in lakes, rivers, and oceans.

detecting changes in temperature, pH levels, and dissolved oxygen levels

used to monitor noise pollution levels in urban areas.

#### uvanshankar

help to manage environmental challenges.

data can be analysed to identify the presence of pollutants

ability to collect and analyse large amounts of data quickly

#### parvesh

provides real-time data on air pollution levels

avalanche prevention, and earthquake early

provides real-time data on air pollution levels

