NALAYATHIRAN

TEAM NAME : ACHIEVERS

TEAM ID : PNT2022TMID49459

PROBLEM STATEMENT

Efficient Water Quality Analysis and Prediction Using Machine Learning

(i)Water makes up about 70% of the surface and is one of the most important soures vital to sustaining life.
(ii)Water quality has been conventionally estimated through expensive and time consuming lab and statical analysis.
(iii)With this motivation,we explore a series of supervised machine learing algorithm to estimate the water quality.

Big Idea

Temperature suited with 52-70 degree is healthy.

Biosensor method to detect the bacteria and virus.

Hardness is measured caused by calcium and magnesium

1

ph level of 7 is consider as pure water.

1

Dissolved oxygen meter can measure the concentraton.

Memberance Filtration to remove the impurities

Using ppm amount of minerals and gasses dissolved is purifies

Turbitity measurement using nephelometer

2

Color of water decayed from organic matter.

Total dissolved solids of 75 to 90 is ideal for drinking

3

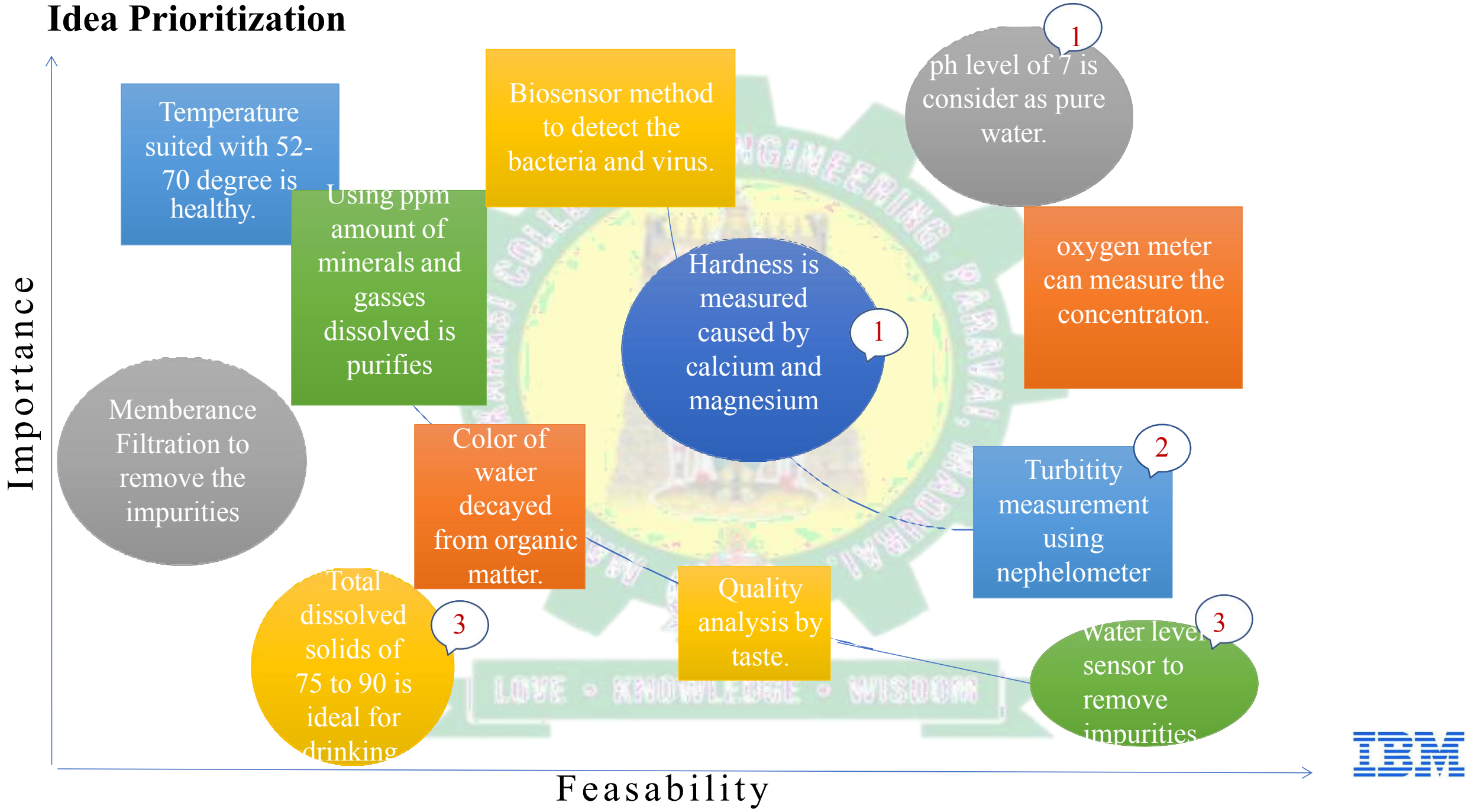
Quality analysis by taste.

Water level sensor to remove impurities

3

IBM

Idea Prioritization



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