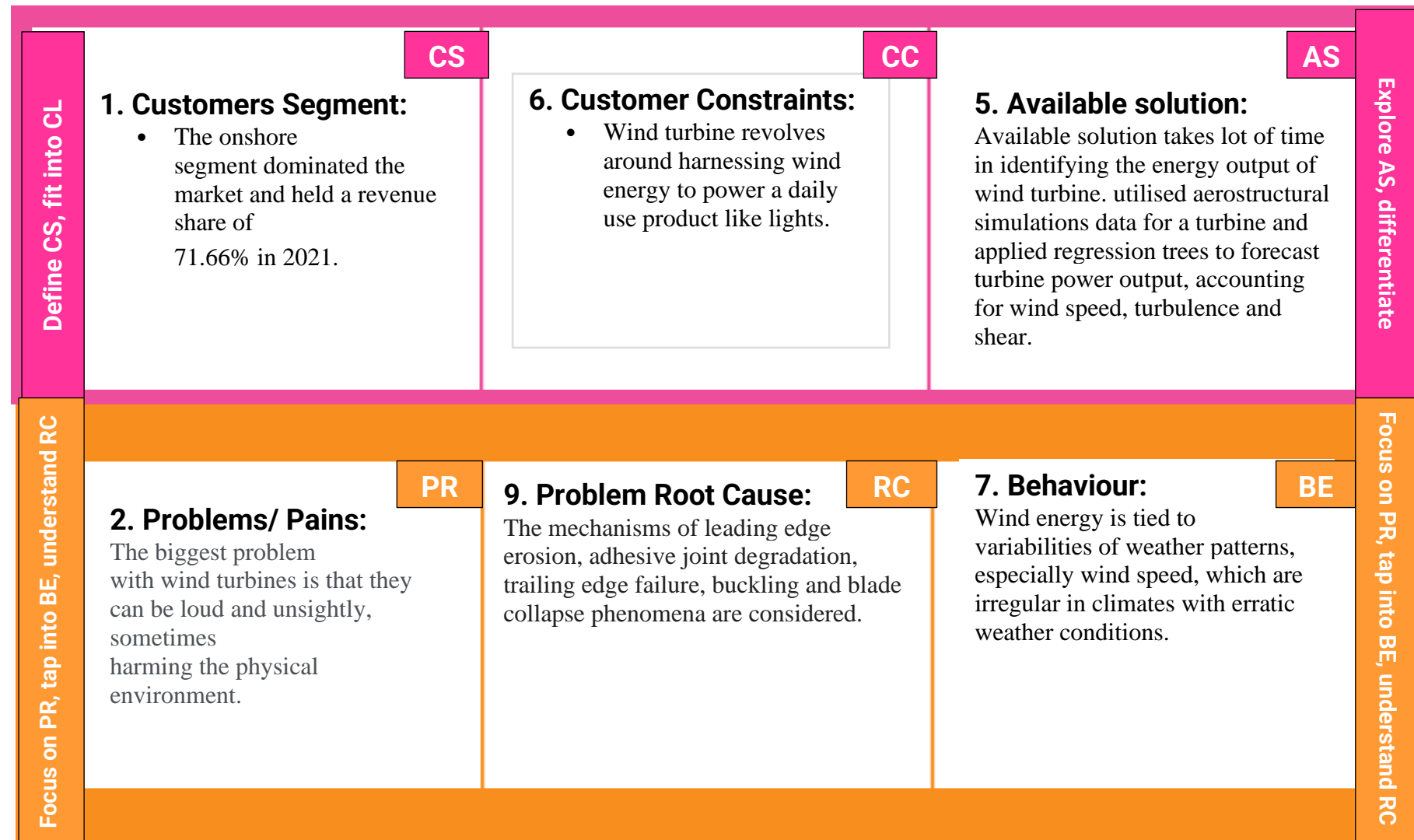


## Project Design Phase-I - Solution Fit

**Project Title:** predicting the energy output of wind turbine based on weather conditions

**Team ID:** PNT2022TMID15599

**DATE:** 01 OCTOBER 2022



**3. Triggers:**

The energy output of a wind farm is highly dependent on the weather conditions present at its site. If the output can be predicted more accurately, energy suppliers can coordinate the collaborative production.

TR

**4. Emotions:**

- Most significant is the hub height wind speed, followed by hub height turbulence intensity and then wind speed shear across the rotor disk.

EM

**10. Your Solutions:**

Our studies are carried out on publicly available weather and energy data for a wind farm. We report on the correlation of the different variables for the energy output.

SL

**8. Channels of behaviour:**

Behaviour include the functions of wind turbine weather it works properly with all the mechanisms included.

CH