

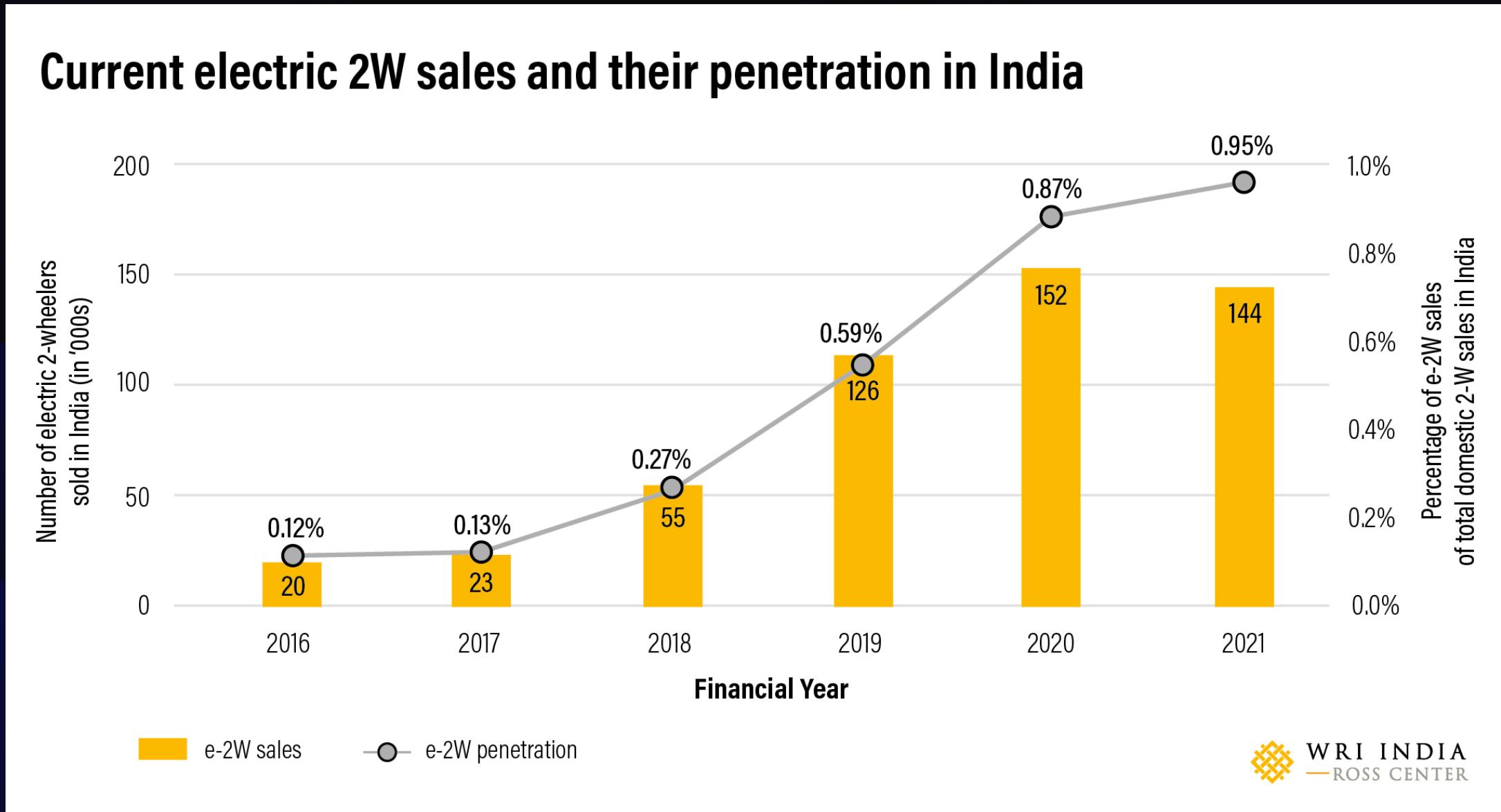
Bolt the Salvation

An IoT solution

Team - Bolt

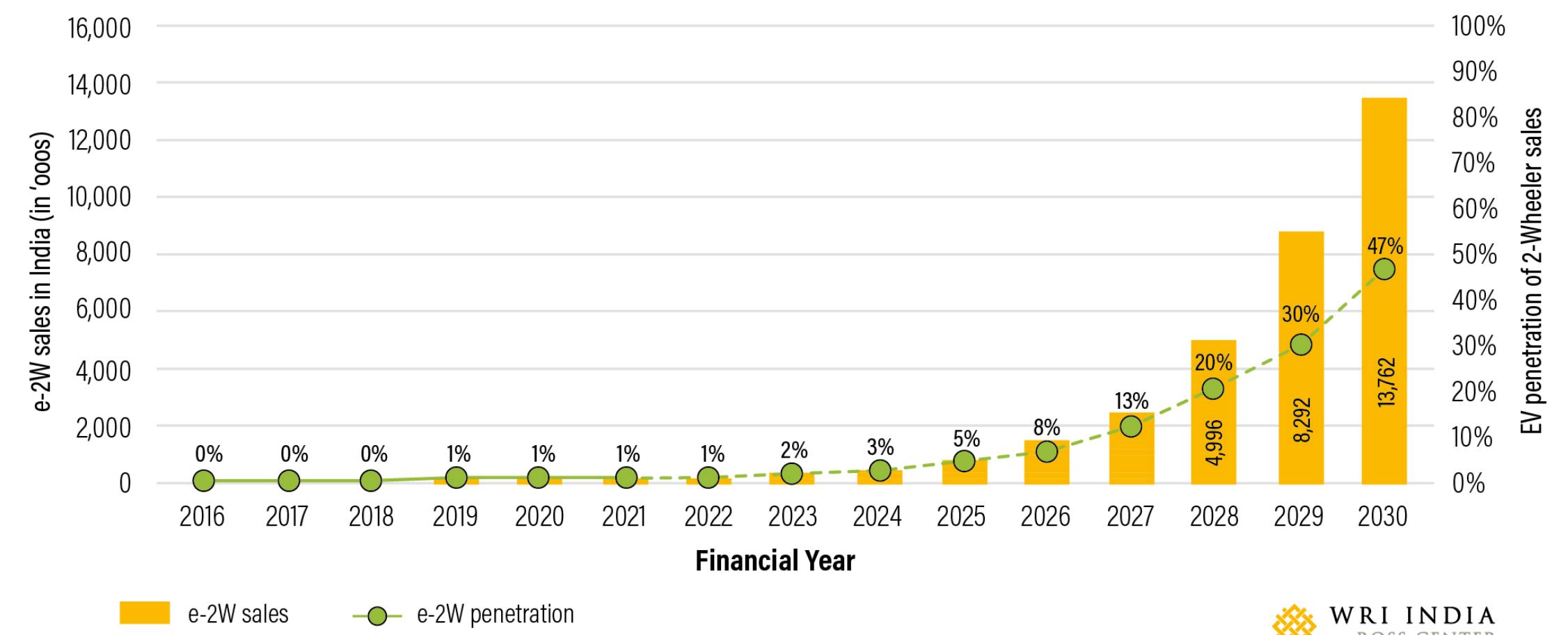


Rise in sales of electric vehicles



↑ Current scenario

Projected annual e-2W sales under realistic sales scenario by 2030



Estimations →

The main concern in EVs – SAFETY ?

! BATTERY EXPLOSIONS !



Causes for battery explosions :

- *Thermal runaway*
- *Overcharging*
- *External shorting*
- *Manufacturing defect*

All these factors can lead to catastrophic explosions

Consequences of these explosions :

- *Property Damage*
- *Fatal injuries*
- *Deaths (rarely)*
- *Negative impacts on EVs*

The people tend to lose their interest in EV's

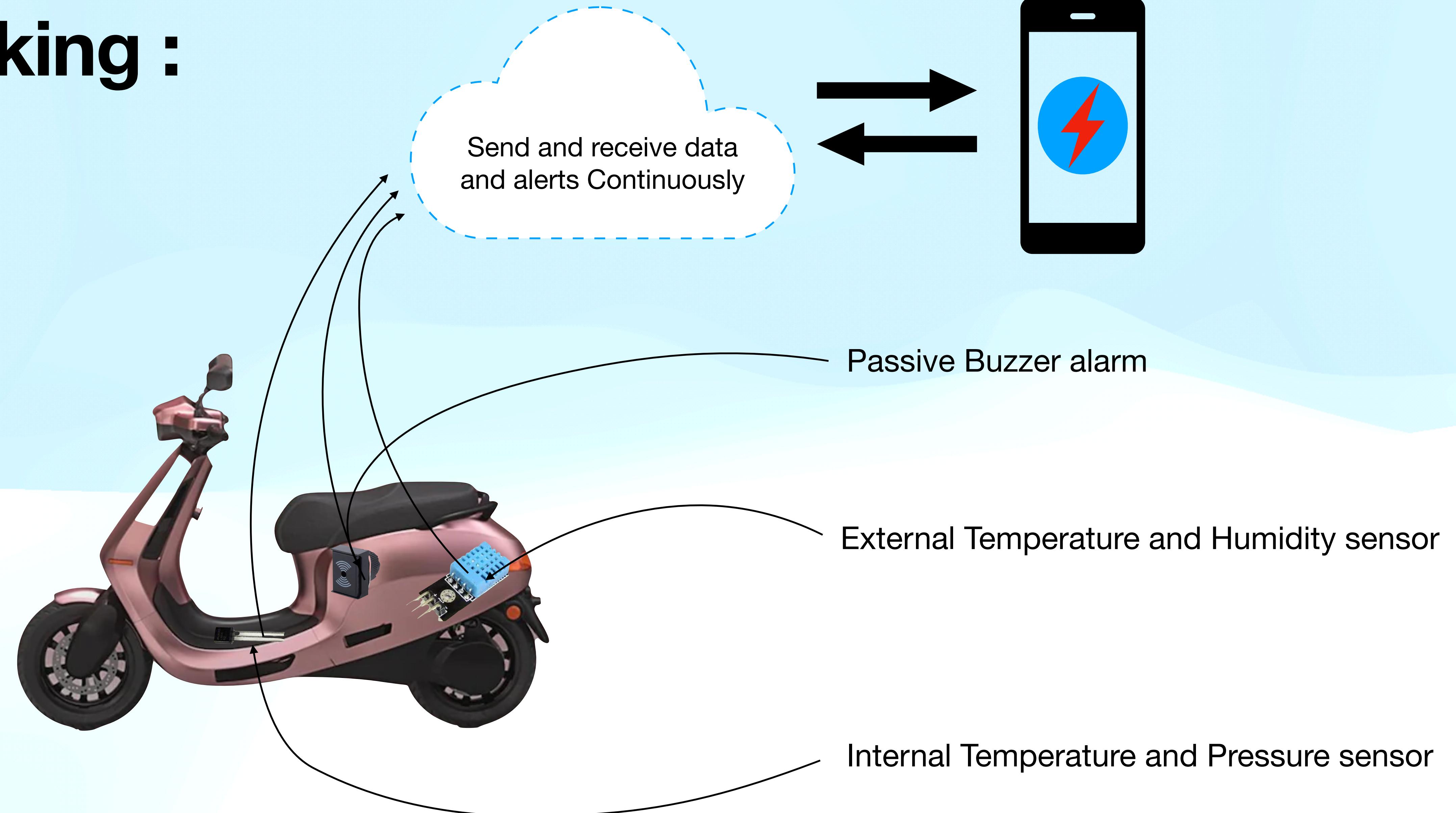
We felt that this issue must be addressed immediately

- *We realised that there is a pressing need for a solution*
- *To bolster the confidence on EV among people and help in the acceleration EV adoption*

Our primary objectives :

- *To build a connected IoT device which will be capable of predicting and preventing these tragedies.*
- *Make it an easy-to-use device which can easily be used in any EV's.*
- *Develop an mobile application.*
- *Make electric vehicles not only safer for the environment, but also for the drivers and passengers.*

Working :



- Our systems collects the data from these sensors and continuously compare it with the safe limits given by the manufacturer.
- These calculated data will be sent to our mobile application frequently in given time intervals.
- Alerts will be given through the application and if the limit is exceeded, the buzzers will go on, indicating that the vehicle is over heated and unusable.
- If the bike is on use, and if the alerts are ignored, the circuit of the system will be broken, the battery will be left idle and the buzzers will go on automatically.

Benefits and impact :

- Improved safety
- Enhanced consumer trust on EVs
- Regulatory compliance
- Cost - effectiveness

Conclusion :

We have an optimistic vision of a future where EVs are not only environmentally friendly but also renowned for their unparalleled safety standards.



Thank You
for the opportunity