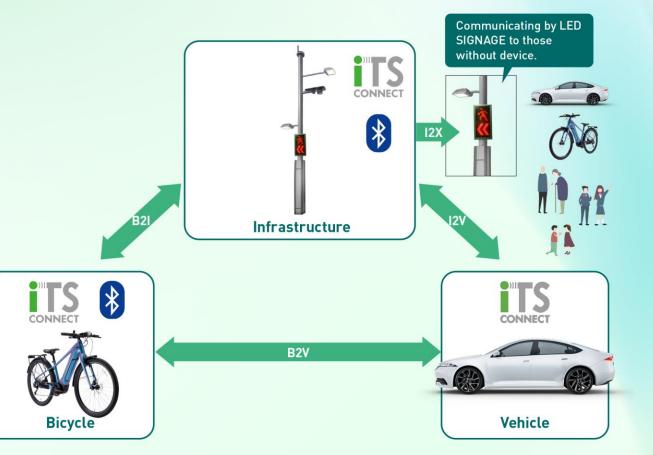
#### **Benefits**

# Whole System Concept aimed using ITS techs.

- Investigation of the feasibility of E-bike equipped with ITS and other devices.
- Reduction of accidents on both sides through B2X communication.





#### **Technical Advantages**

#### Idea For ITS E-bike System

- E-bike with built-in 760MHz ITS communication device
- GNSS calculates vehicle position, speed and direction.
- ITS device transmits those information.
- Receives information from vehicles/infrastructures and alerts riders
- Power supply from the battery of e-bike, no additional power source required.
- •As further improvement in next step, utilization of bicycle control by linking with driving unit.





### **Applications**

#### **B2V Direct Communication** for Crash Avoidance

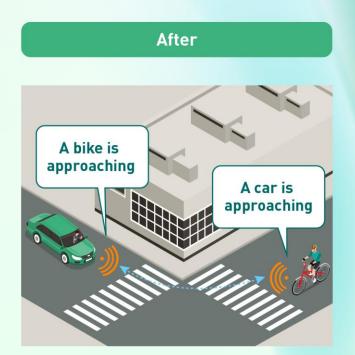
#### Your Experiences:

- •Advance notification of approaching vehicle/Bicycle
- Kind communication using "THANK YOU" message

#### Technologies

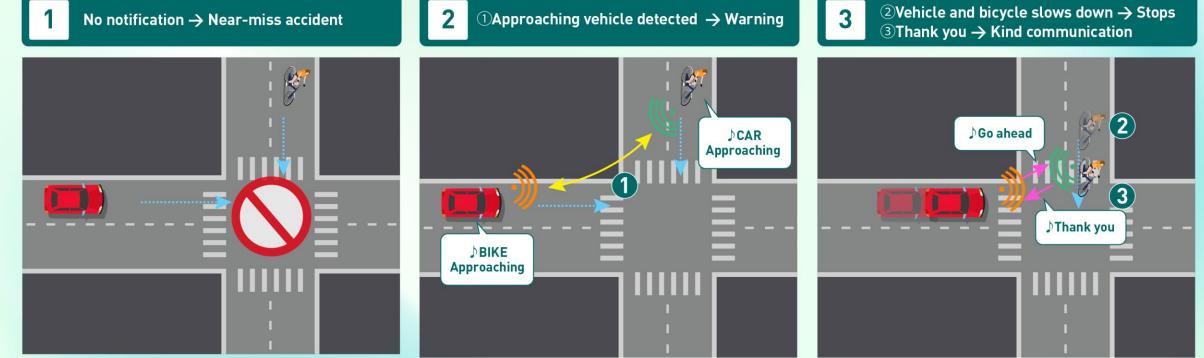
- •760MHz dedicated communication band.
- Optimized human machine interface for B2V.







# Panasonic Applications 1 No notification → Near-miss accident 2 Opproaching vehicle detected → Warning 3 Other Stops





The society we aim for

# Our Mission

To create a clean future where everyone in the world can openly ride under the blue sky.

Deliver sustainable, safe and comfort transportation and excitement to people in the world.Promote environmentally-friendly manufacturing. And, create clean future with full of smiles.

We will reduce bicycle accidents in order to realize the future we aim for.



# ITS Bicycle Demonstration ~ "With Notification/Thank-you" (Car POV) ~

