

## **Lesson Seven – Background Contextual Knowledge**

Students will be split into three teams and each team will be assigned a TCC team member. Students are encouraged to ask their assigned TCC team member questions and work through the factsheets provided with them to get the best possible solution designed during the short period.

JCU are currently working on the development and prototypes for V2 of the weather stations. This lesson is going to ask the students to provide ideas and solutions to the JCU research team before the development and finalisation of V2.

The design students will develop in this lesson can include improvements to the weather stations themselves, or the improvements might be connected to the deployment and maintenance of the weather stations. The weather stations are currently \$150 per unit. Students will also be asked to calculate how much additional cost their improvements will add to the cost per unit.

Students will be provided with a TCC team member, a design brief, brainstorming/prompt questions, questions aimed to assist in the finalisation process of their designs, butchers paper and markers, weather station fact sheets (which will provide all necessary research – the students will not be required to conduct their own research), and a blank design proposal worksheet to be filled in.

Students will have a total of 35 minutes to prepare and finalise their designs. At the end of the lesson students will present their ideas to the rest of the class.