# Mission 4

Your team’s micro:sat will be one amongst many other micro:sats being developed by the other teams. You need to develop a **collision detection system** that all the teams can use. To do this you will need to work collaboratively with the other teams to design and use a system that meets the success criteria.

A representative from each team will need to meet to agree a common method for the micro:sats to communicate with each other and know whether they are too close together (<1m). If the micro:sats sense they are too near to another micro:sat they need to play a warning sound from the speaker.

Radio channel **10** has been reserved for this system.

## Success criteria

* Collaborate with the other teams to agree a common way to send/receive collision warnings
* The micro:sat must sense whether other micro:sats are within 1m
* The micro:sat must play a warning sound when another satellite is within 1m
* The micro:sat should have some way to know which other satellite is too close
* The system must use as little power as possible and not interfere with other systems
* The code for this solution must be hosted on [GitHub](https://github.com/) under an [open-source](https://opensource.org/licenses) licence