

High Country hi-tech Video Answers

Thursday 14 May

1. Using GIS and sharing data

Meet Jana Kaepler from the Mackenzie District Council and find out about the GIS she has created.

1. What is the name of the GIS used by this council and what can it show?
 - Online map viewer which shows layers of information on a map such as roads, water pipes, heritage sites, camping grounds, tracks etc.
2. Why is a GIS useful for councils?
 - It allows information about a whole lot of different things to be shared easily all in one place and helps with planning for the future
3. What is the future of GIS?
 - Able to be accessed, used and modified on mobile devices and also used for analysis and modelling

Next step learning: Take a look at your own local council website and see what you can find out about from the maps they have online.

2. Location technology for recreation

Enjoy the views across Lake Pukaki near Twizel and find out about the technology that can be used for recreation in the high country.

1. How can GPS be used in the high country?
 - To find out where you are and to set way points to help you to know where to return to when you are not following a track
2. What is an avalanche transceiver and how does it work?
 - It is a device used by two or more people in the snow that can transmit a signal but also receive one so if a person wearing a transceiver is buried by an avalanche the other person can find them
3. How does an emergency locator beacon work?
 - When activated during an emergency it sends out a signal to search and rescue organisations who then know you are in trouble and where to come and look for you

Next step learning: How do you think technology has changed recreation in the high country?

3. What is Agrimap

Drive down to Kurow to a sheep and beef farm to find out more about how technology is being used.

1. What is Agrimap?
 - A cloud based programme that allows farmers to record anything that is done on farm
2. What does a farmer do to set up Agrimap for their farm?



- They can register for a free trial and create a map using Google Earth then create tags to organize any farm tasks
3. How can Agrimap be used?
 - It can be used instead of a diary or log book, it can be used to assign tasks or give directions to contractors, it can be used as a long term record of what has been done on different parts of the farm.

Next step learning: What other forms of technology do you think would be useful to farmers? Think of some examples and how they might be created.

4. Using Agrimap

Go out and help Paul to complete a task assigned through Agrimap.

1. What task was Paul asked to do?
 - To take a soil sample for a soil test
2. How did GPS help with this task?
 - It allowed an exact location of the soil test to be recorded
3. Why was Agrimap developed?
 - To help farmers to more easily keep a record of all their work

Next step learning: Find out about other technologies used by farmers in the high country.

5. Field trip summary

Take some time at the end of the High Country hi-tech field trip to think about all you have learned.

1. What was your favourite part of the field trip and why?
 - Answers will vary
2. What would you like to find out more about and how will you go about this?
 - Answers will vary
3. Help your teacher to complete the [online evaluation](#) for this field trip.