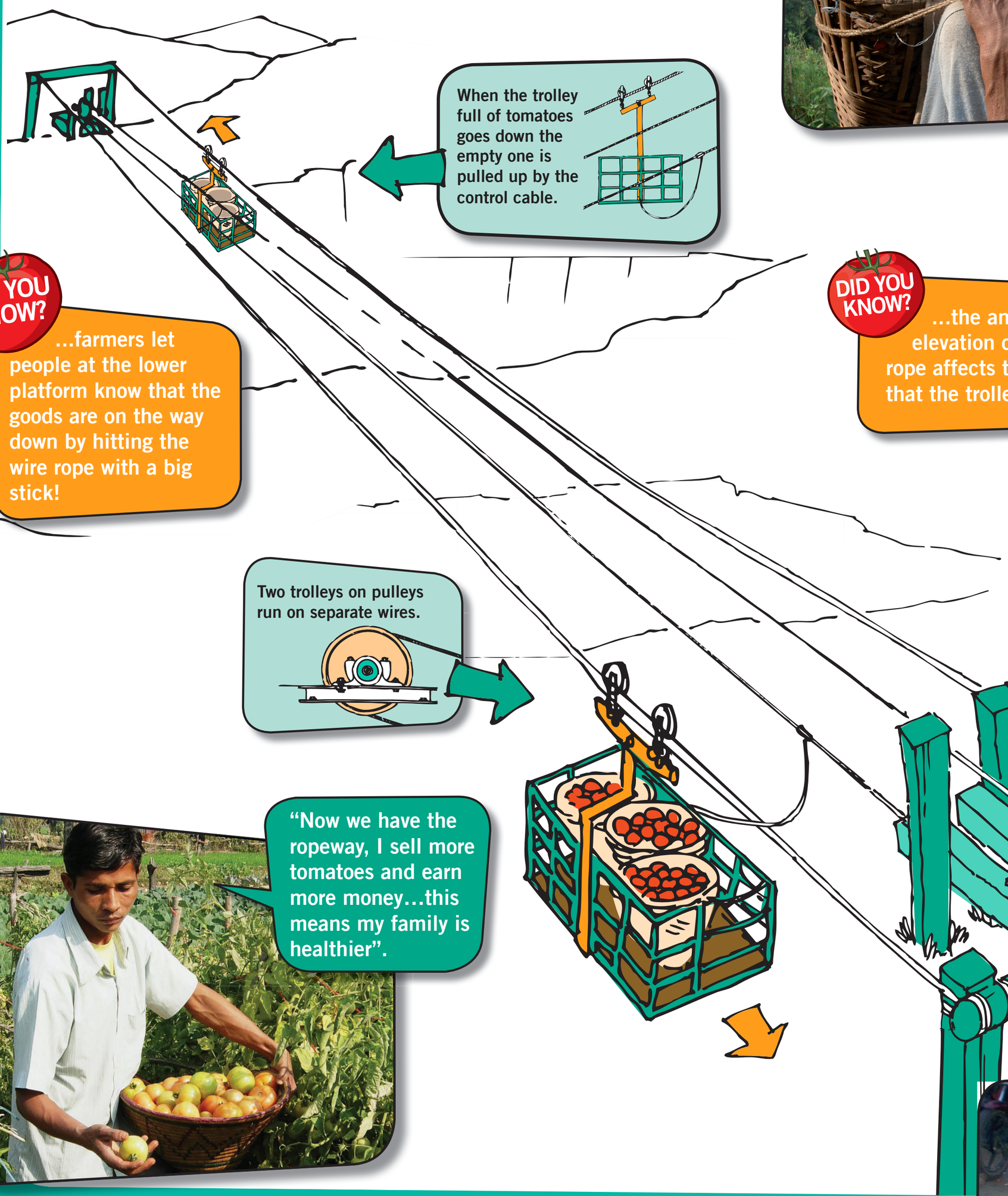
The Squashed Tomato Challenge

In Nepal, farmers growing crops in the mountainous regions used to spend up to a day carrying their produce to markets at the base of mountain.

Now Newton's law of gravity and some ingenious engineering is transforming the lives of farmers and their families…with a gravity ropeway.



When the trolley full of tomatoes goes down the empty one is pulled up by the control cable.

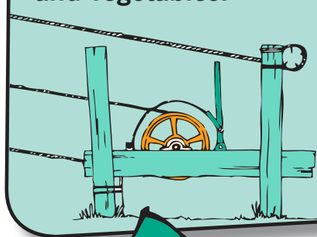
DID YOU KNOW?

…farmers let people at the lower platform know that the goods are on the way down by hitting the wire rope with a big stick!

DID YOU KNOW?

…the angle of elevation of the wire rope affects the speed that the trolley travels.

A flywheel braking system at the lower station controls the speed of the trolleys containing fruit and vegetables.



Two trolleys on pulleys run on separate wires.

"Now we have the ropeway, I sell more tomatoes and earn more money…this means my family is healthier".

- Why do you think the trolley load travelling down the mountain needs to be three times heavier than load going up?
- Why is it important that the wire ropes are kept lubricated with oil?

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