

## Ecosystem Services Market

### Instructions!

1. Identify the ecosystem service
2. Say if it is provisioning or regulating
3. Describe and explain how the ecosystem service works (this could be done using a diagram!)
4. Add specific detail e.g. Numbers

Extension- Explain how the ecosystem service is useful for humans.

### "Rain Machine"

Produces 20 billion tonnes of rain.

Important for Brazil and Argentina as rain contributes to the economy → crop growth.

Water evaporates from plant leaves by solar evaporation, this is called transpiration.

This service is regulating.

### "A Giant Sponge"

The soil soaks up all the water.

The complex root system holds the soil together and prevents soil erosion. Water is absorbed by the plant roots.

Leaves intercept rain fall.

Water cycle is slowed.

This is regulating.

### Medicine

Home to half of all species of plants and animals.

1430 plants → treat diseases such as cancer.

We have studied only 1% of the species.

This is provisioning.

### Non-Timber Forest Products

NTFP Anything not wood. Nuts, seeds, fruit, honey, spices, fragrance, oils, rubber.

Used by locals → sold (economy)

63000 families rely on rubber tapping.

This is provisioning.

### Carbon Storage

Rainforest – super photosynthesis.

Removes CO<sub>2</sub> from the atmosphere and stored as starch in the leaves.