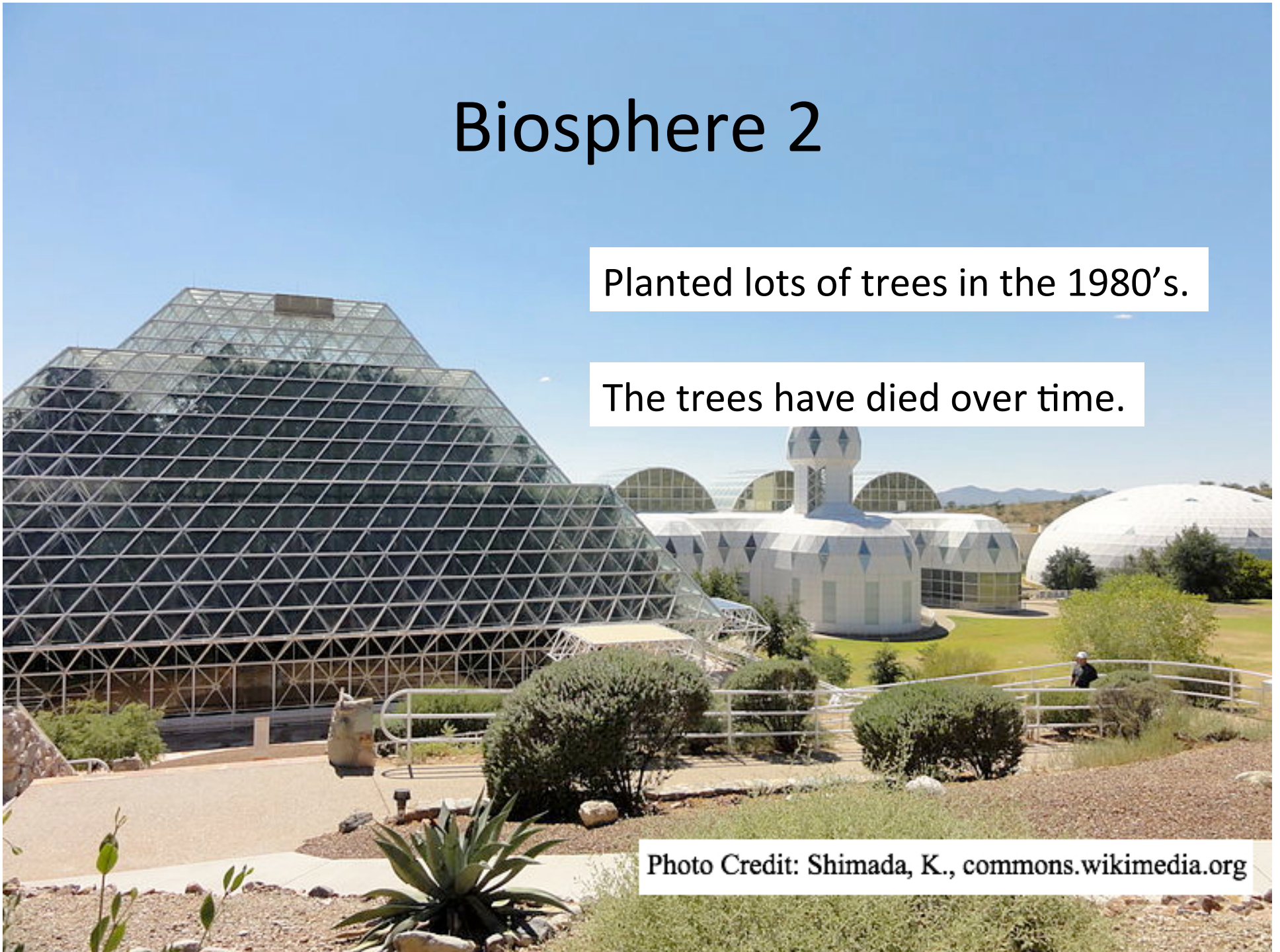


Biosphere 2

Planted lots of trees in the 1980's.

The trees have died over time.

Photo Credit: Shimada, K., [commons.wikimedia.org](https://commons.wikimedia.org/wiki/File:Biosphere_2.jpg)



Sea Hibiscus (*Hibiscus tiliaceus*)

Planted 7 in 1988.

By 1992, there were only 3 left.

What fraction survived?



How to calculate with equations

- What fraction survived?

$$7 \times x = 3$$

$$\frac{7 \times x}{7} = \frac{3}{7}$$

$$x = \frac{3}{7} \approx 0.57$$

Papaya (*Carica papaya*)

Planted 20 in 1988.

By 1992, there were only 9 left.

What fraction survived?



Photos by Avenish and
Scott Bauer
www.wikipedia.com

How to calculate with equations

- What fraction survived?

$$20 \times x = 9$$

$$\frac{20 \times x}{20} = \frac{9}{20}$$

$$x = \frac{9}{20} = 0.45$$

New question

- If they wanted 27 papaya to survive, how many should they have planted?



Photos by Avenish and Scott Bauer
www.wikipedia.com

How to calculate with equations

- How many should they plant?

$$x \times 0.45 = 27$$

$$\frac{x \times 0.45}{0.45} = \frac{27}{0.45}$$

$$x = 60$$