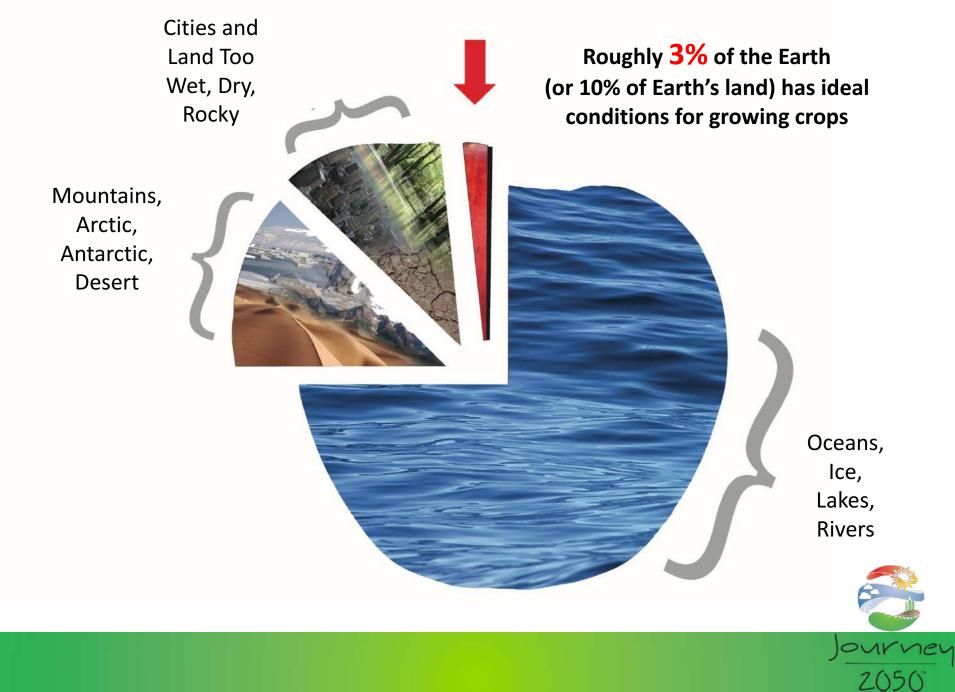


LESSON 5

How much of the Earth's surface is ideal for GROWING CROPS?





Watch the Journey 2050 Land Use Video



As you watch, discover:

- Why is land a precious resource?
- How are best management practices applied to land use choices?







What is our land used for?



Busincereservices



2050

Population Statistics by Country:

Worldometers



Population Statistics by Country:

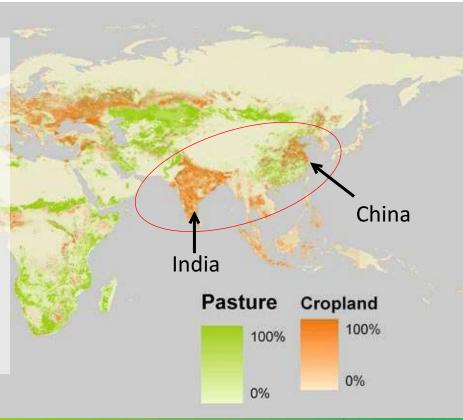


2050°

Agricultural Land:

3% of Earth (10% of the Earth's land) has ideal crop growing conditions (arable land = cropland).

With best management practices, innovation and technology we can use nearly **40%** of the total land to grow food or provide grazing for livestock.



HOW ARE BEST MANAGEMENT PRACTICES APPLIED TO LAND USE?





How do we **improve** our land-use choices so we can **feed** a growing world and still have a high **quality life** and **environment**?



LAND USE GAME LEVEL 5A





FOLLOW-UP DISCUSSION





RE-CAP: HOW ARE BEST MANAGEMENT PRACTICES APPLIED TO LAND USE?

Improve natural habitats



Replace what you use and clean up the environment.

Plant native species and remove invasive species.

Don't just talk about stewardship, take action.

What other ideas do you have?



RE-CAP: HOW ARE BEST MANAGEMENT PRACTICES APPLIED TO LAND USE?

Agricultural Best Management Practices



Improve soil health to grow more on the same land.

Use technology to make more efficient use of inputs (e.g., fertilizer, water). Sustainably use land already in production.

What other ideas do you have?



RE-CAP: HOW ARE BEST MANAGEMENT PRACTICES APPLIED TO LAND USE?

Manage Urban Growth



Retain urban wetlands and riparian areas.

Reduce food waste. Only buy what you need to eat.

Build businesses and homes up. Not out.

What other ideas do you have?



WRAP-UP

- Three percent of the Earth (ten percent of the Earth's land) is ideal for growing crops.
- Most of our urban areas were built on ideal crop land. Our ancestors settled where they could grow food and cities grew from there.
- The quality of the soil under our homes and businesses is the real challenge in the journey. The challenge also spreads to our natural areas. Protecting the Earth's biodiversity and natural resources is vital to our survival.
- Every land use decision we make has a consequence. Best management practices are essential in our journey to sustainably feed the world while balancing social, economic and environmental needs.



Questions?

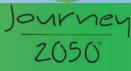
PROGRAMS@NAITCO.ORG

ENRICHING ACTIVITIES



ENRICHING ACTIVITIES

- Distribute the <u>Country Comparison Map</u> Find similarities and differences in climate, topography, culture, and food production across the globe.
- Watch TedTalk by Allan Savory on desertification and cattle: <u>https://youtu.be/vpTHi7O66pl</u>
- Students will understand the importance of taking action through service-learning using the WE Service Learning in Action: <u>Land Use</u> lesson plan



BROUGHT TO YOU IN COLLABORATION

Nutrien

















