

Alberta Tomorrow – Stakeholder Debate

The multi-stakeholder land-use debate involves balancing many different viewpoints. Each stakeholder group has a slightly different priority. For example, for some groups preserving natural landscapes is most important. Others want to use the land for recreation. Certain stakeholder groups have an economic interest in using the natural resources.

In this activity, the class will be divided into different groups. Each group will research their stakeholder's interests' and develop a land-use plan that fulfills their own objectives. Once they are done, have the class come together and simulate a town hall debate where the different groups present their land use plan. After hearing from all stakeholder groups and seeing their land-use plan proposal, try to come to a consensus as a class on which land-use plan, or what combination of plans will be better for ALL Albertans.

Go to www.albertatomorrow.ca. Teachers **Register** as a teacher, create a class, students under students. **Log-in** and **click** on **Simulator**. Additional information can be found in the **Videos** section on the left side of the page.

Stakeholder Groups:

1. Forestry Company
2. Oil and Gas Executive
3. Agricultural Producers Association
4. Economic Development Officer
5. Conservation Organization
6. Watershed Stewardship Group
7. Co2 Reduction Committee
8. Fishing/Hunting Organization
9. Indigenous Group

Other possible groups:

10. Mountain Biker Group
11. Rancher/Leasee
12. Off Highway Vehicle User Group
13. Golf Course Owner





Group 1: Forestry Company

Mission: As a forestry company, your goal is to harvest as much timber as possible during the next 30 years. It is your job to make sure that Alberta's land-use plan achieves your goal.

To do this, you will:

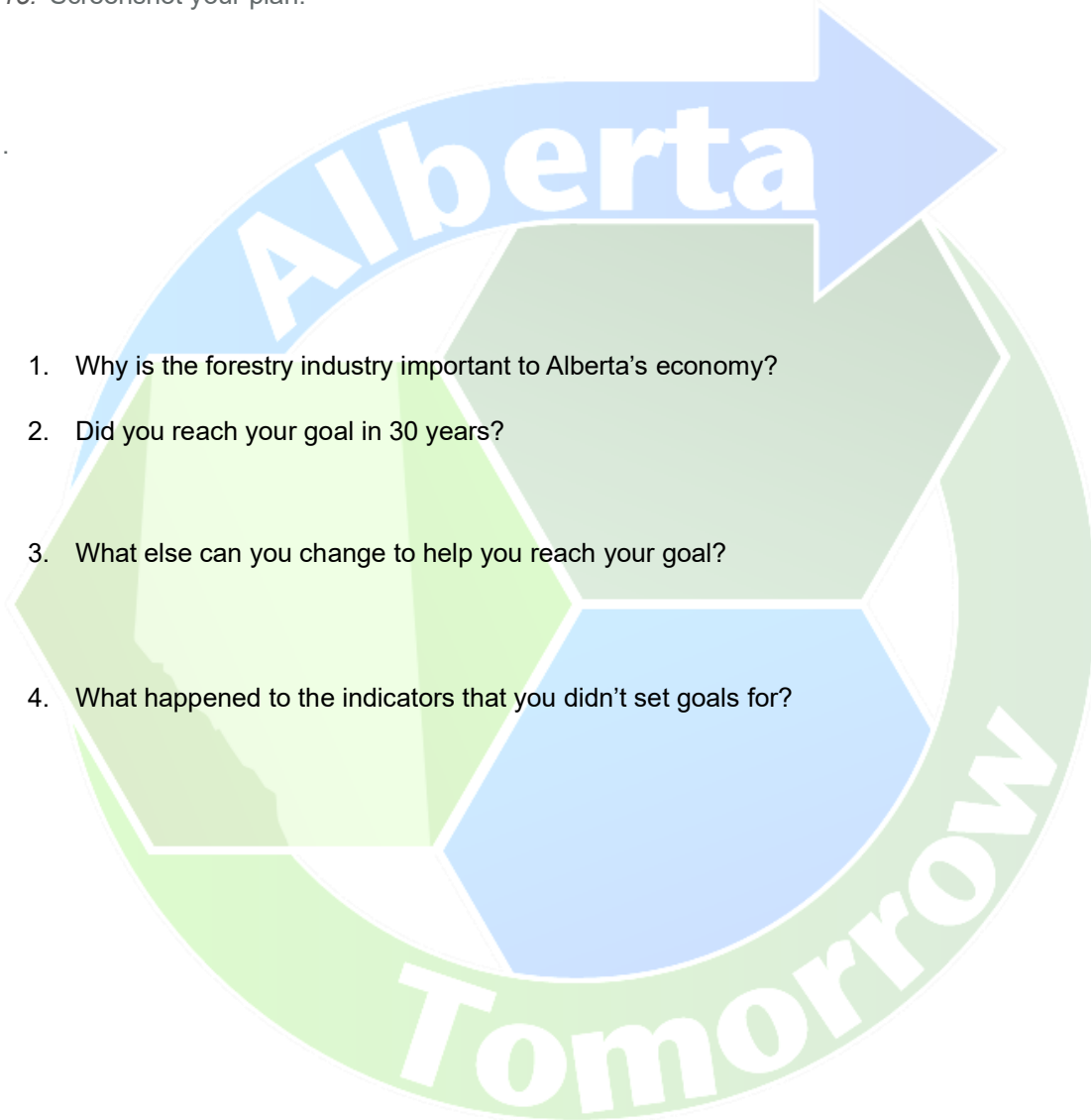
1. Research the importance of the Forestry Industry in Alberta.
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

Complete the following steps:

1. Click on "Create New Scenario" Choose "Landuse"
2. Choose your study area, and then click "Next"
3. You are seeing the current land use.
4. What you see on the indicator dials are the levels as of 2020. Your first job is to set goals for 30 years from now. Move the goal slider to where you want the indicator to be in the year 2050. (if you are unsure of what the indicator is measuring, click on it and watch the video) Remember to set realistic goals.
5. Click "Next" You will now decide how you will reach your goals by changing the landscape.
6. Click on "changes"
7. Choose the landscape type or landuse you wish to add in the future and click the location where you want it to grow.
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9. Click "Run Scenario" and then click "Play"
10. Record whether you reached your goals or not (the goal dot will be green if you reached your goal, yellow if you got close, and red if you didn't reach your goal.)
11. Click on Management Practices. Watch the management practice video. You must decide on how much industrial activity you want in the study area and what management practices you wish to use from this year on.
12. Move the Industrial Activity slider to the level you wish to see moving into the future. Record your level. _____



13. Choose which Management Practices you wish to use.
14. If you still have not reached your goals, you can go back and change your goals by clicking on individual goals, or go back and make more changes to the landscape by clicking on landscape changes.
15. Screenshot your plan.



Group 2: Oil and Gas Executive

Mission: As an oil and gas executive, your goal is to produce as much oil and gas as possible in the next 30 years. It is your job to make sure that Alberta's land-use plan achieves your goal. To do this, you will:

1. Research the importance of the oil and gas industry in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

Complete the following steps:

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1. Why is oil and gas production important for Alberta?
2. Did you reach your goal in 30 years?
3. What else can you change to help you reach your goal?
4. What happened to the indicators that you didn't set goals for?

Group 3: Agricultural Producers Association

Mission: As a farming association, your goal is to produce as much food on farms as possible during the next 30 years. It is your job to make sure that Alberta's land-use plan achieves your goal. To do this, you will:

1. Research why agriculture production is important in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

Complete the following steps:

1. Click on "Create New Scenario" Choose "Landuse"
2. Choose your study area, and then click "Next"
3. You are seeing the current land use.
4. What you see on the indicator dials are the levels as of 2020. Your first job is to set goals for 30 years from now. Move the goal slider to where you want the indicator to be in the year 2050. (if you are unsure of what the indicator is measuring, click on it and watch the video) Remember to set realistic goals.
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13. Choose which Management Practices you wish to use.

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Analyze your results:

1. Why is Agricultural production important for Alberta?
2. Did you reach your goal in 30 years?
3. What else can you change to help you reach your goal?
4. What happened to the indicators that you didn't set goals for?

Group 4: Economic Development Authority

Mission: As a representative of various businesses and industries, your goal is development that will increase Alberta's GDP along with our growing population. It is your job to make sure that Alberta's land-use plan achieves your mission. To do this, you will:

1. Research how Oil and Gas Production, Forestry and Agriculture is important in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

Complete the following steps:

1. Click on "Create New Scenario" Choose "Landuse"
2. Choose your study area, and then click "Next"
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4. What you see on the indicator dials are the levels as of 2020. Your first job is to set goals for 30 years from now. Move the goal slider to where you want the indicator to be in the year 2050. (if you are unsure of what the indicator is measuring, click on it and watch the video) Remember to set realistic goals.
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13. Choose which Management Practices you wish to use.

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- 1 Why are Agriculture, Forestry and Oil and Gas production important for Alberta?
- 2 Did you reach your goal in 30 years?
- 3 What else can you change to help you reach your goal?
- 4 What other indicators might you consider?

Group 5: Conservation Organization

Mission: As an organization whose mission is protect natural areas, your goal is to increase the area of natural landscapes. Many wildlife species live in old forest and prairie habitat. It is your goal to make sure that Alberta's land use-plan achieves your mission. To do this, you will:

1. Research why natural landscapes are important in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

Complete the following steps:

1. Click on "Create New Scenario" Choose "Landuse"
2. Choose your study area, and then click "Next"
3. You are seeing the current land use.
4. What you see on the indicator dials are the levels as of 2020. Your first job is to set goals for 30 years from now. Move the goal slider to where you want the indicator to be in the year 2050. (if you are unsure of what the indicator is measuring, click on it and watch the video) Remember to set realistic goals.
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15. Screenshot your plan.

Analyze your results:

1. Why are natural landscapes important for Alberta?
2. Did you reach your goal in 30 years?
3. What else can you change to help you reach your goal?
4. What other indicators might you consider?

Group 6: Watershed Stewardship Group

Mission: As a citizens group, your goal is to minimize water consumption and maximize water quality in order to maintain a plentiful long-term quality supply of water to communities throughout Alberta. It is your job to make sure that Alberta's land-use plan achieves your goals. To do this, you will:

1. Research what affects water quality and water consumption in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

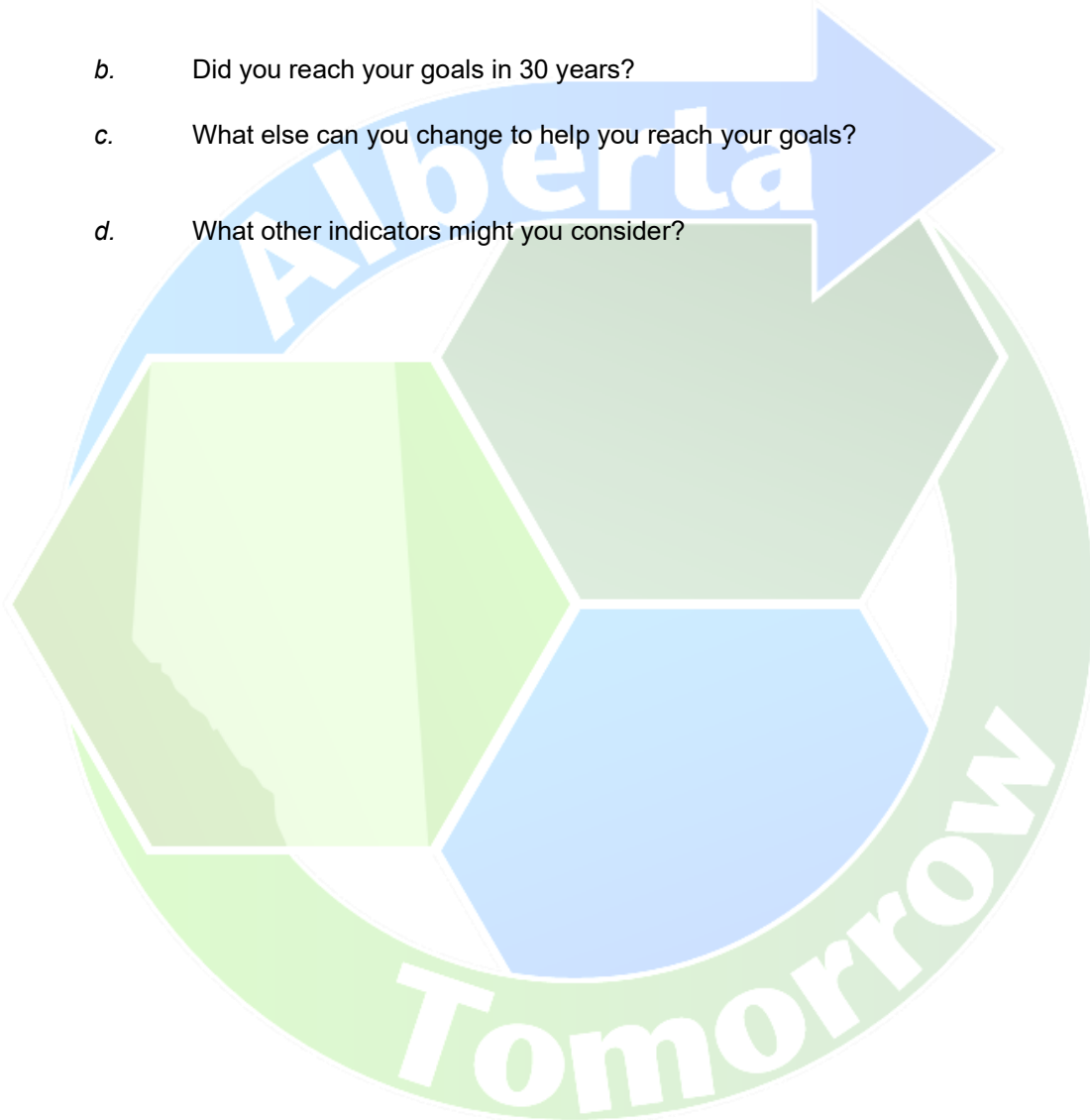
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17. Choose which Management Practices you wish to use.

18. If you still have not reached your goals, you can go back and change your goals by clicking on individual goals, or go back and make more changes to the landscape by clicking on landscape changes.
19. Screenshot your plan.

Analyze your results:

- a. What affects water quality and water consumption in Alberta?
- b. Did you reach your goals in 30 years?
- c. What else can you change to help you reach your goals?
- d. What other indicators might you consider?



Group 7: CO₂ Reduction Committee Group Activity Sheet

Mission: As a citizens group, it is your goal to decrease overall carbon emissions. It is your job to make sure that Alberta's land-use plan achieves your mission. To do this, you will:

1. Research what human activities affect biotic carbon storage and greenhouse gas emissions in Alberta
2. Develop a land-use plan that achieves your goal
3. Present and defend your land-use plan

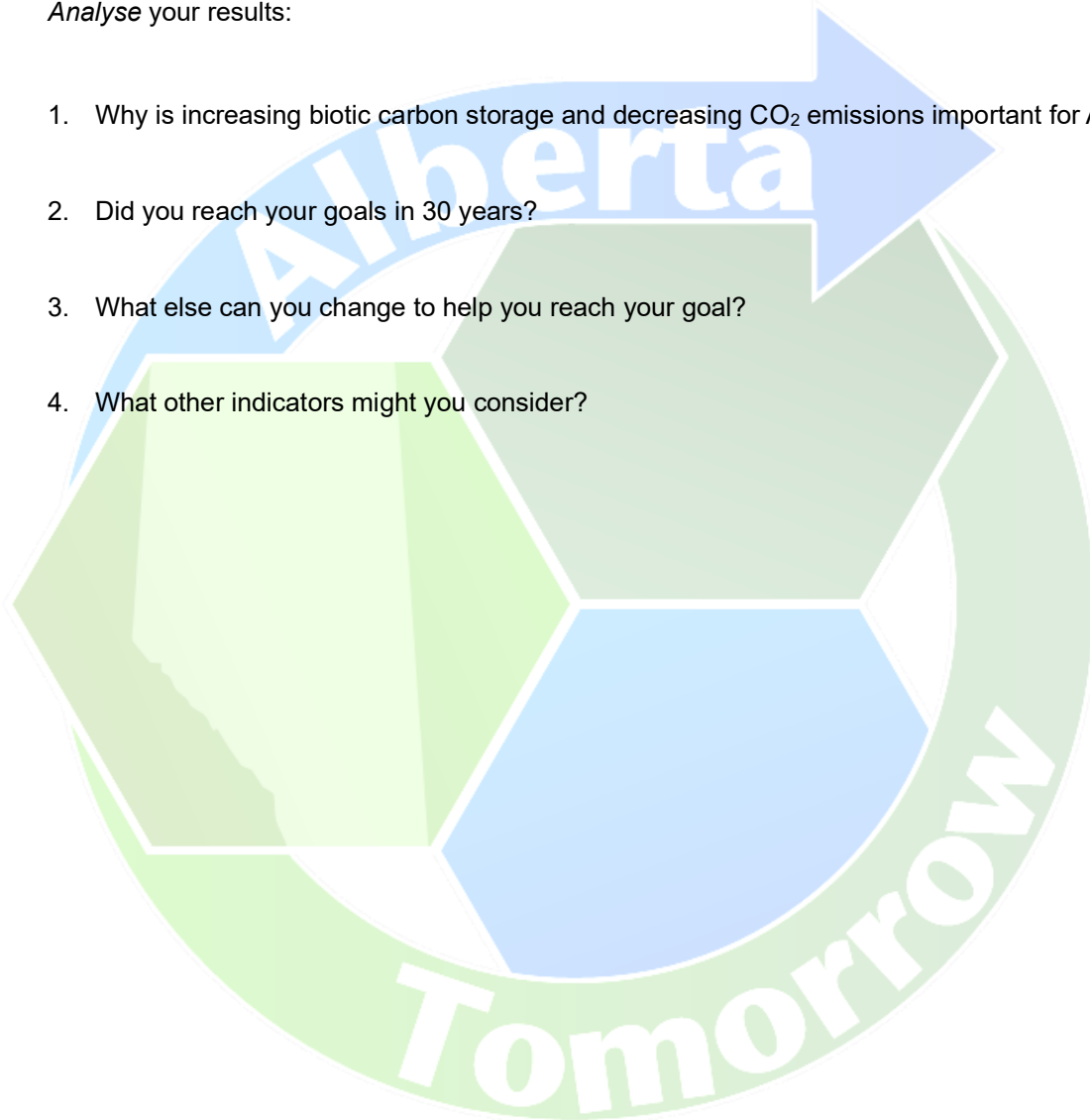
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Analyse your results:

1. Why is increasing biotic carbon storage and decreasing CO₂ emissions important for Alberta?
2. Did you reach your goals in 30 years?
3. What else can you change to help you reach your goal?
4. What other indicators might you consider?



Group 8: Fishing/Hunting Organization

Mission: As a fishing/hunting organization, your goal is to increase the quality of fish and wildlife habitat in the province to offer more recreational fishing and hunting opportunities to Albertans. It is your job to make sure that Alberta's land-use plan achieves your mission. To do this, you will:

1. Research what human activities affect biotic carbon storage and greenhouse gas emissions in Alberta
2. Develop a land-use plan that achieves your goals
3. Present and defend your land-use plan

Complete the following steps:

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15. Screenshot your plan.

Analyze your results:

1. How does human activity affect fish and wildlife habitat in Alberta?
2. Did you reach your goals in 30 years?
3. What else can you change to help you reach your goals?
4. What other indicators might you consider?



Group 9: Indigenous Group

Mission: As an Indigenous group, your goal is to increase accessibility to land for traditional uses including increasing fish and wildlife habitat, water quality and protected areas. It is your job to make sure that Alberta's land-use plan achieves your mission. To do this, you will:

1. Research what traditional land uses are and decide which dials in Alberta Tomorrow are applicable.
2. Research what human activities are affecting your ability to carry out traditional land uses.
3. Develop a land-use plan that achieves your goals
4. Present and defend your land-use plan

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2. Choose your study area, and then click "Next"
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14. If you still have not reached your goals, you can go back and change your goals by clicking on individual goals, or go back and make more changes to the landscape by clicking on landscape changes.
15. Screenshot your plan.

Analyze your results:

1. How does human activity affect your ability to carry out traditional activities?
2. Did you reach your goals in 30 years? Why not? What else needs to be done?

