**Module 1: 21st Century life expectancy trends, and the dynamics of the determinants of health associated with air pollution**

*Handout 1*

Group activity – Instructions

The purpose of this group activity is to explore the interconnection between certain global challenges and health effects attributed to air pollution, including a discussion on health inequalities. Include specific national and sub-national challenges within the United States that may contribute to health effects attributed to air pollution.

* Select a single challenge from Handout 2.
* Select two contexts where the selected challenge takes place.
* Answer the following questions for each context in Handout 3:
1. What is the situation of the challenge in the selected contexts?
2. How may the challenge affect air pollution in the selected contexts?
3. What are the potential health impacts of the challenge attributed to air pollution in the selected contexts? Include potential health inequalities.
4. What are potential interventions to reduce the negative health effects or promote the positive health effects of the challenge attributed to air pollution in the selected contexts? Include potential interventions to reduce health inequalities.
* Select a single challenge from Handout 2.

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*Handout 2*

List of challenges

1. Governance
2. Urbanization
3. Agriculture/vegetation
4. Industrialization
5. Energy
6. Transportation
7. Economic growth
8. Housing
9. Consumption

Note: social inequality and specifically health inequality should be discussed explicitly in the context of the challenges listed above.

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*Handout 3*

Describe selected challenge

Describe context 1

1. What is the situation of the challenge in context 1?
2. How may the challenge affect air pollution in context 1?
3. What are the potential health impacts of the selected challenge attributed to air pollution?
4. What are potential interventions to reduce the negative health effects or promote the positive health effects of the challenge attributed to air pollution?

**Describe context 2**

1. What is the situation of the challenge in context 2?
2. How may the challenge affect air pollution in context 2?
3. What are the potential health impacts of the selected challenge attributed to air pollution?
4. What are potential interventions to reduce the negative health effects or promote the positive health effects of the challenge attributed to air pollution?