

## Climate film >

### Climate adaptation in South Africa

Changes in the climate will have an impact on people, society and the eco-system across the globe. Most exposed are low-lying regions, island communities, the Arctic and drought-ridden regions in Africa. In these areas it is often the poorest people that are most vulnerable. eThekweni Municipality in South Africa has accomplished a comprehensive climate adaptation project that at the same time is raising the standard of living for the population. This is one of many examples of climate adaptation established in the world that we can learn more from.

#### Assignments to complete before you watch the film

1. How do you think climate changes can affect drought-ridden regions such as in Africa?
2. Why do you think poor people are more vulnerable to climate changes than rich people?

#### Assignments relating to the film

1. Describe why the eThekweni Municipality in South Africa is an area that is particularly exposed to the climate?
2. Prepare an overview of initiatives that the eThekweni Municipality has implemented to ensure the community is better adapted to climate changes.
3. Both knowledge and economics are crucial for raising the living standard of a population. What physical measures have led to the improvement of the living standard for the population in Buffelsdraai?
4. Why is it important to plant new forests in Buffelsdraai?
5. Why is it important to remove foreign plant species in Durban?
6. Why is production of biocoal an initiative that results in both climate adaptation and soil enhancement?
7. What is the advantage with green roofs?

#### Intensified assignments

1. Do you think the initiatives that are implemented in Buffelsdraai, can be transferred to other parts of the world? Validate your answer.

2. The risk for climate changes in a country or region occurs where three factors overlap each other. Danger: How much will the climate change, and what extreme incidents will we be faced with? Exposure: What is the extent of exposure for these dangers in the region/area? Vulnerability: How vulnerable are the people who live there to climate changes?

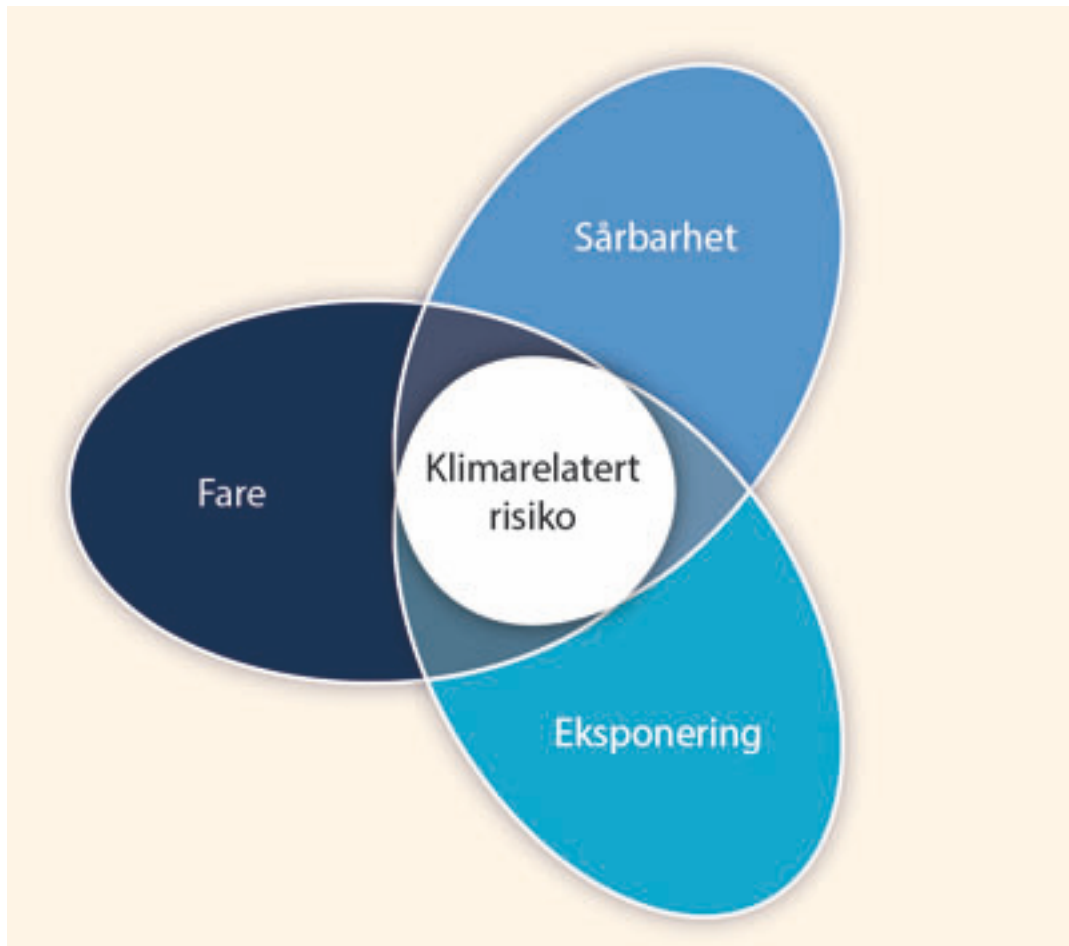


Illustration:: UN climate panel and the Norwegian Environment Agency  
Danger/Climate-related risk/Vulnerability/Exposure

- a) Briefly describe how you think the factors of danger, vulnerability and exposure apply to Buffelsdraai in South Africa, and Kvam and Oslo in Norway. Feel free to use a table like the one shown below in your answer. If you need more information on how exposed Kvam and Oslo are to the climate, then watch the film "Klimatilpassing i Noreg" (*Climate Adaptation in Norway*).

|                           | Danger | Exposure | Vulnerability |
|---------------------------|--------|----------|---------------|
| Buffelsdraai              |        |          |               |
| Kvam in<br>Gudbrandsdalen |        |          |               |
| Oslo                      |        |          |               |

- b) What do you think the biggest difference is between Oslo and Kvam with regard to the risk for climate changes?
- c) What do you think is the biggest difference between Buffelsdraai and Kvam with regard to the risk for climate changes?