

STEP 1:

Actor analysis

Groningen gas drilling

Case: Groningen gas drilling

This case is about gas drilling in a northern province of the Netherlands, Groningen.

Due to the gas drillings some small earthquakes occurred in the region. The question is what should be done about the current situation.

The first step is to identify the actors and their problem statements, to get a broad overview of the problem.

Identify the actors involved

- Ministry of Economic affairs
- House owners in involved area
- Gas drilling company (NAM)
- Province of Groningen
- Dutch citizens
- Ministry of Security and Justice
- Etc.

What other actors can you think of?

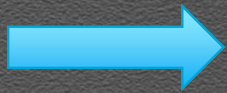
Problem statement of ministry of Economic affairs

Think about the goals and dilemma's of your actor

Goal: generate money from gas fields



Dilemma: no harm to the inhabitants



Problem statement:

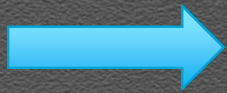
How can we generate money from the gas fields,
while not harming the inhabitants?

Problem statement of house owners in the area

Goal: no damage to house



Dilemma: affordable gas supply



Problem statement:

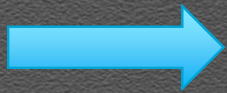
How can we keep our house undamaged,
while having an affordable gas supply?

Problem statement of Gas drilling company (NAM)

Goal: earn back investments



Dilemma: no harm to the inhabitants



Problem statement:

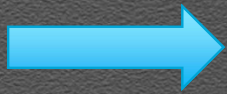
How can we earn back our investments,
while causing no harm to the inhabitants?

Problem statement of province of Groningen

Goal: ensure employment in Groningen



Dilemma: no damage due to gas drilling



Problem statement:

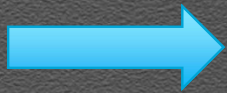
How can we ensure the employment in Groningen,
while preventing damage due to gas drilling?

Problem statement of Dutch citizens

Goal: cheap gas supply



Dilemma: limiting risk of earthquakes in the Netherlands



Problem statement:

How can we have a cheap gas supply,
while limiting risk of earthquakes in the Netherlands?

Problem statement of ministry of Security and Justice

Goal: ensure safety of inhabitants



Dilemma: high state revenue from gas



Problem statement:

How can we ensure the safety of the inhabitants, while having high state revenue from gas?