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***Using worst case scenarios***  
***Case Study 1***



## Background information

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- LPG storage and distribution
- 950 tonnes of LPG
  - 7 tanks x 100 tonnes
  - 1 tank x 250 tonnes
- LPG spheres – ground storage
- 15 ~ 25 meters distance between tanks
- 500 meters from the border



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Imagery Date: Mar 14, 2008

42°48'03.82" N 23°12'30.97" E elev 548 m

Eye alt 907 m



## Questions

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- What do you consider worst case scenario
  - (low probability-high consequences outcomes with the maximum negative consequences )
- What is the quantity of LPG involved
- Do you consider it definitely incapable of transboundary accident



# Modeling results

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- Standard distances table ~ 1200 m
- RMP\*Comp – ~1300 m
- ALOHA – ~ 900 m



# Developing worst case scenario

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- Select a scenario
  - release of the largest amount in a single largest vessel – 200 tonnes
  - Take into account possible domino effects
- Determine the distance to the endpoint
  - Using standard distances table
  - Using modelling software
    - Aloha
    - RMP Comp
    - Spreadsheet models
- Determine transboundary potential
  - 500 meters from the border
  - There will be consequences across the border

The establishment is a hazardous activity