

Regulatory and legislative developments in the Netherlands



Pipelines for the transportation of dangerous liquids and gases

- n 18.000 km Pipelines
 - Natural gas grid 12.000 km
 - Gas prod. lines 1.600 km
 - Oil (products) 2.500 km
 - Other products 2.000 km

n Function

- Liquids: links between ports and industry clusters incl. B and D
- Gas transportation national and international





Main issues

- Further improvement of public safety
- Prevention of 3rd party damage
- Firm introduction of pipeline integrity management
- Registration of pipelines
- Reservation of land acreage for future pipelines
- Introduction and/or update of common norms, standards and data
- Responsibility of pipelines by authorities



Main objectives

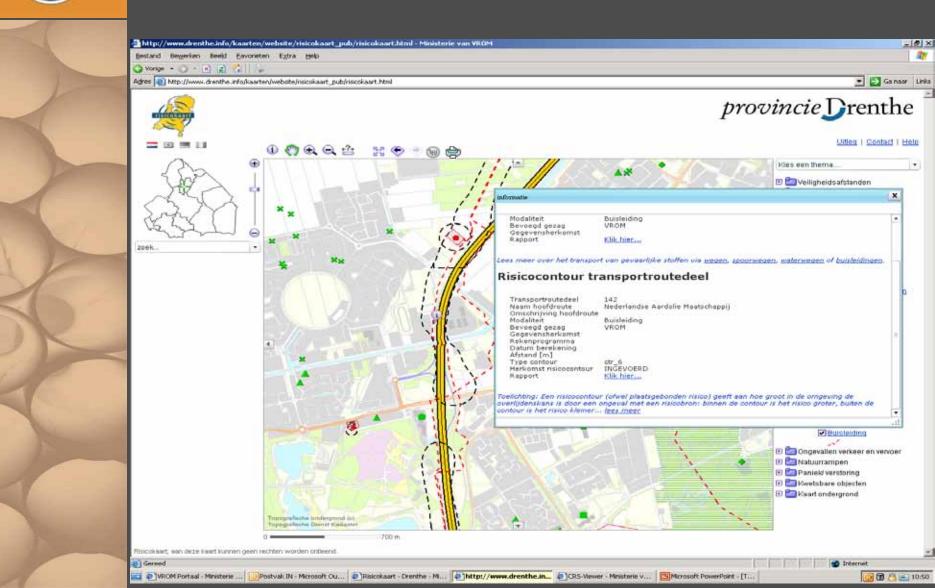
- Introduction of specific pipeline legislation and safety rules
- n Introduction of legislation re. third party activities
- Development of guide for pipeline integrity management
- Development of registry for all pipelines
- Development of overall plan for the routing of future pipelines
- Further development of specific rules for design, construction, operations, maintenance of pipelines
- Introduction of inspection/auditing by authorities



Main issues pipeline legislation

- Safety distances for various products
 - Location oriented
 - Group oriented
- Objective: 10E-6 LO-contour on the pipeline!
- How to achieve measures
- Cooperation operator/ministry/ municipality
- Responsibility for bottlenecks

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Main topics pipeline integrity management guideline (NTA 8000)

Policy Management commitment Organization Inventory/evaluation/management - PDCA Management of change Incident reporting Training and exercises Calamity Plan Work permit system Documentation Relevant legislation Work plan



Plan for routing and reservation of acreage for future pipelines

- Inventory of requirements
 - Gas
 - **-** CO2
 - Chemicals/products
- Plan harbors and industrial sites (N/B/G)
- Space requirement
- Determination of corridors
- Organizational issues for parallel pipelines.



Vision map pipelines

- Draft map based on
 - Required space
 - Available space
- Further validation with provinces and communities
- Bottlenecks!





Status

- Pipeline legislation to be introduced 1/2011?
- Legislation 3rd party activities introduced 2009
- Integrity management guide introduced 2009
- n Registration pipelines completed 2009
- Plan routing future pipelines available 1/2011?
- Pipeline design rules etc. completed 1/2011?
- Inspection by authorities gradual introduction in 2009, formal in 2011?