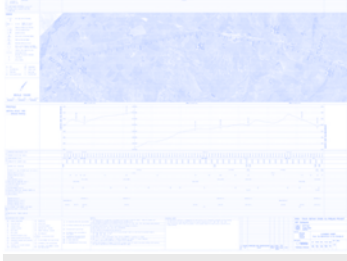


: Pipeline - Overcoming of time and space



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Pipelines (oil, gas, water, products) build up the backbone of world-wide energy systems. As assets, they represent **large values** which are **widely spread** (often hundreds of km) and which undergo different phases in their life – cycles: **conception, design** and detail design, procurement, **construction** and **operation**.

During all these phases, detail information over space and time – are necessary and have to be accessed by all parties involved (investors, engineers, building companies, service providers) for fulfilling their tasks.

Documentation of

- Regular data: topography, geology, environment, conservation, protection of historical monuments, colonization, ...
- Environmental data: recording of objects in exact coordinates
- Aerial photos, photogrammetric analysis
- Pipelines, fittings, buildings and fittings (pumps, tank stations, ...)
- Material, project schemes, schedules, orders and deliveries
- Rights of usage for paths (estates, owners, contracts)
- Data of preservation (pig runs, cathodic protection, ...)
- Events and activities

Business processes, for instance

- **Design and detail design**
 - ⇒ Finding of routes, taking into consideration all available resources
 - ⇒ Studies of variants, analysis of rentability
 - ⇒ Analysis of environmental wholesomeness and procedure
 - ⇒ Orders of rights for usage of paths
 - ⇒ Submission planning and procedure for approval
 - ⇒ Making out of submission operates
- **Construction and construction site handling**
 - ⇒ Orders
 - ⇒ Co-ordination and building control
 - ⇒ Logistics (transportation and flow of material)
 - ⇒ Documentation of existing buildings
- **Operation**
 - ⇒ Emergency schemes
 - ⇒ Management of assets
 - ⇒ QM - Quality Management
 - ⇒ Integration with SCADA systems