



PROTECTION OF CRITICAL INFRASTRUCTURE



During the planning of a major modernization in the railway infrastructure, it was discovered that the positioning of two large gas pipelines interfered with the planned modernization project. This challenge had to be solved before proceeding with the project. The national gas company was contacted and asked to redirect the existing gas pipelines to solve the hurdles in the project plan.

The location of highlighted area i.e. the positioning of the pipeline were in close proximity to an urban public area which in itself entailed endangerment to the public. In addition to this challenge, there were no natural boundaries towards the area, which meant that the public could access the area and by that put themselves in immediate danger. Also, in addition to the obvious risks to human life, the equipment used on the construction site by the gas company such as machines, power tools, and advanced sensors were vulnerable to both sabotage and theft.

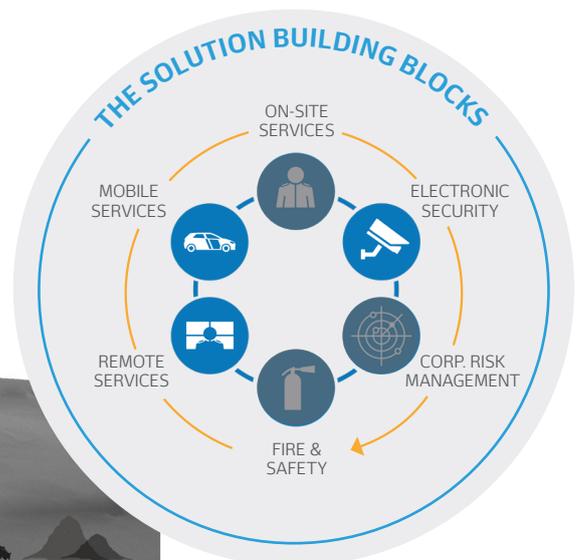
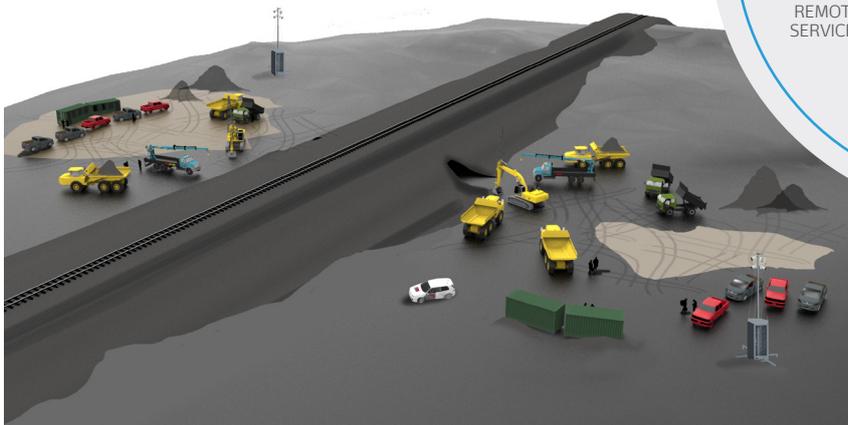
CLIENT SOLUTION

A comprehensive risk and vulnerability assessment conducted by Securitas identified that due to the environmental variation and complexity of the area, just one safeguard would never serve as a satisfying and trustworthy risk mitigator.

The obvious parts in the solution design consisted of access management, perimeter and area protection, but also challenges like heat accumulation, gas leakage, and public warning system needed to be taken into consideration. At the same time the solution design had to take the financial aspects into consideration since the solution would only be in use for 2-6 months.

A mobile video solution with embedded video analytics and remote connection to the SOC was deployed, serving as the heat accumulation, area and perimeter detector. If any abnormalities were detected, the SOC operator would instantaneously handle the alarm and deploy the necessary response forces, ranging from police, fire and guard dispatches to on-site public announcements using the SOC connected horn speakers on site.

The same solution served as the foundation to the access management, where the onsite construction workers simply contacted the SOC before entering the site, stating their credentials; in this specific case, name and a personal code before they were granted access to the site. Gas leakage detectors was integrated to the solution, however, since it was an large outdoor area the leakage detectors wouldn't be enough and Securitas needed to add capabilities to detect both the wistling and smell produced in a gas-pipe leakage, and what would be a better resource than the human being to detect sound and smell? - with this in mind, the complete solution incorporated a beat patrol visiting the site four times per day.



MOVING FROM RISK TO RESILIENCE

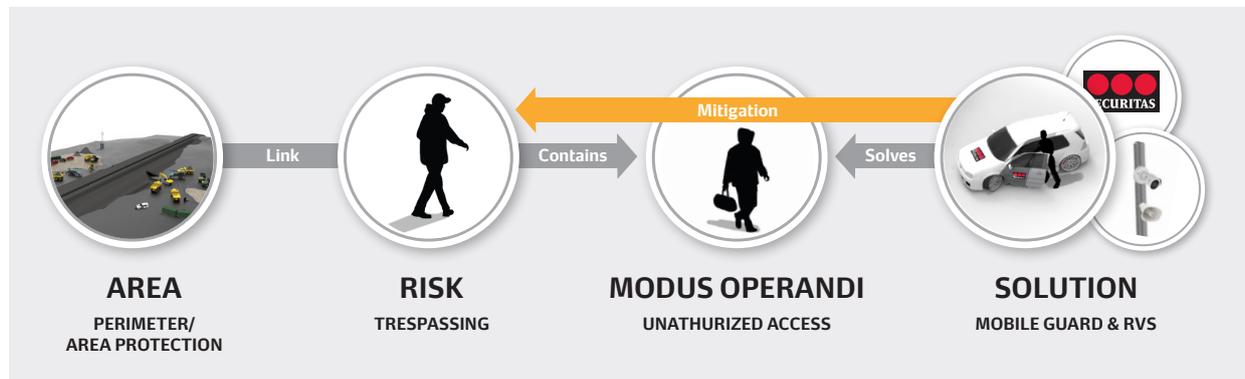
SECURITAS RISK ASSESSMENT TOOL

By using the Securitas risk assessment tool, Securitas will receive detailed information about your potential areas of risks and level of risk exposure. Your standard operating procedures are analyzed for each individual risk exposure so that the necessary and appropriate remedy can be taken into consideration.



DESIGNING AN EFFECTIVE PHYSICAL PROTECTION SOLUTION

Deterrence, detection, delay, and response are all required functions in an effective physical protection solution. These functions must be performed in the listed order to be effective. A well-designed physical protection solution provides protection-in-depth, minimizes the consequence of component failure and exhibit a balanced level of protection. By adopting suggested procedures it ensures that you, as a client, will always have a well-defined solution to any level of risk subsequently identified. Based on your specific risk profile you will receive the appropriate security solution that is tailored in a "fit for purpose" use. This way of managing the risk will both have a positive impact on your security operating costs and your overall level of security.



DETERENCE

- Signage
- Mobile guard
- *SOC connected speaker call-outs

DELAY

- Equipment containers

DETECTION

- *SOC connected video analytics solution
- Gas leakage detector
- Generator alarm

RESPOND

- Securitas mobile guard



* Securitas Operation Center

