



# SYABAS

Kuala Lumpur, Malaysia

## Drinking-water supply for Kuala Lumpur and Selangor

SYABAS is a private company holding the concession for the water supply for the state of Selangor in Malaysia, where the capitol Kuala Lumpur is situated. The area is also called Klang Valley. Klang Valley has approximately 3.5 million inhabitants. All of Selangor has approximately 6.5 – 7.0 millions inhabitants.



In SYABAS, as in many other large cities, loss from the network is a vast problem. Knowledge of lay-out and operation of the network is insufficient and the state of the system is poor. Approximately 35 % of the produced water disappears before reaching the consumers. This means that every single day 1.2 million m<sup>3</sup> of drinking water – enough to supply a small town for 1 year - is lost. Water is retrieved, processed and pumped out into the system, and then disappears into the ground. The amount of lost water in SYABAS represents all of Denmark's water usage.



## CUSTOMER CASE

So, there is room for improvement. The goal is to halve this loss over a seven year period. This will be done by dividing the distribution network into 1,000 sections, of which 380 will be planned and designed this year (2007). Malaysia experiences a significant shortage of water and has a need for mayor extensions of the water supply system. It therefore makes good sense and a very speedy payback time to invest in a better drinking water distribution, utilizing the water already available.

Detailed AQUIS models of the network (reticulation system) to support and verify the establishment of approximately 600 DMZ's (Demand Meter Zone = Pressure zone) will be set up within the next two years, with the clear goal of reducing Non Revenue Water significantly.



*The Kuala Lumpur Skyline with Petronas Towers*

### Network Description

Water consumption	3.8 mill. m <sup>3</sup> /day
Km of main pipes	22,000 km
Number of reservoirs	6,000
Number of consumers	6,000,000
Number of employees	3,000

### System integrator

ALECTIA is system integrator.