

COLLAPSE ON METEOR SITE

PARIS - FRANCE

ADM System urgently set up to monitor buildings close to a tunnel collapse site

On Friday the 14th of February 2004, the vault of a tunnel under construction collapsed. This resulted in very significant subsidence in the schoolyard of the Auguste Perret Primary School (Paris – XIIIe) located nearby.

An A.D.M System ready within 24 hrs.

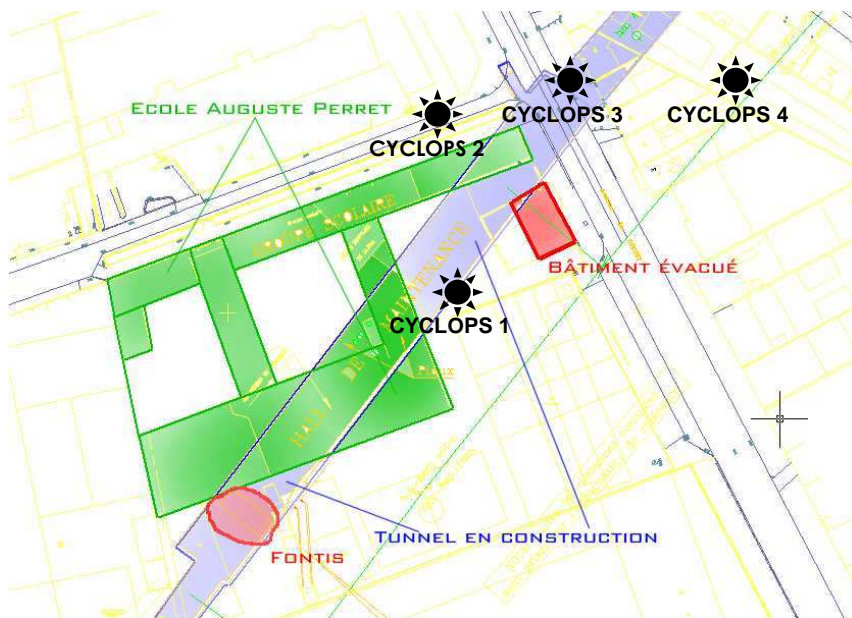
Buildings located in the vicinity started to settle a few days after the accident. As an emergency response, SolData and the French Geographical Institute IGN installed a first CYCLOPS (motorized theodolite controlled by computer) in less than 24 hours to monitor an evacuated building.

Alarm management through SMS and Internet access

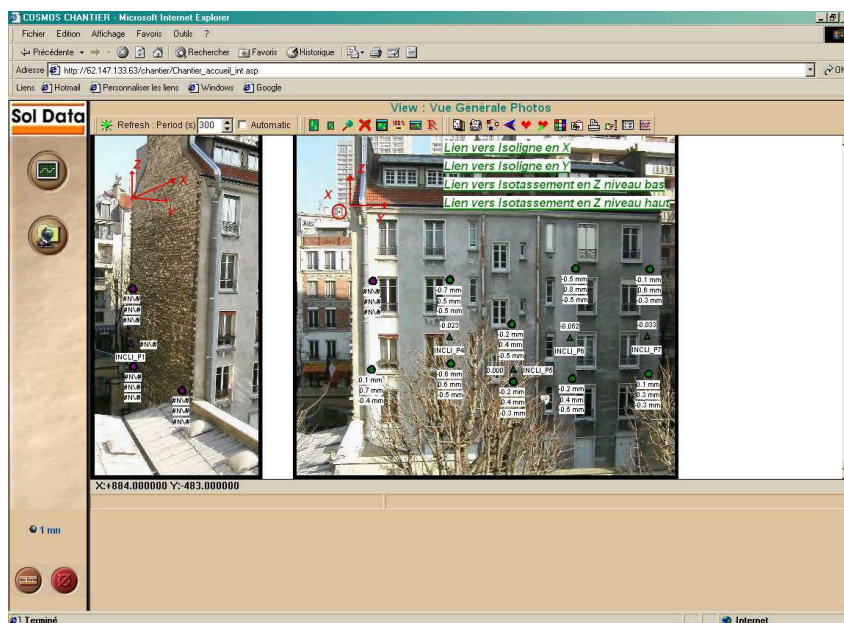
On the whole, 4 CYCLOPS functioned without interruption for the 5 months taken for mitigation action to ensure the complete safety of the site and surrounding buildings. Targets were installed on unsafe or sensitive structures to allow a remote monitoring.

SolData in-house instrumentation database and software GEOSCOPE Web was used to provide, via a secured internet access, relevant users with continuous reports and displays of measurements.

In addition, a powerful alarm system was used to automatically send alarms by SMS or email.



Site layout



Internet: real-time visualization of building deformations



The schoolyard collapse

DATE OF WORKS: FEBRUARY 2003 – JUNE 2003

WORKS UNDERTAKEN :

- Automatic Deformation Monitoring System using 4 CYCLOPS (motorized theodolite) with a system accuracy of 1 mm.
- Real time displays, reports and alarms, and Internet access using GEOSCOPE Web.