



HAROPA - Port of Le Havre :

- Joint-venture with ports of Rouen and Paris (200km upstream), to create « HAROPA », the 5th largest port complex of North Europe
- 1st French Port for foreign trade
- State-owned company, land-lord port, 10 000ha managed
- 2Mm³ dredged each year

MANAGEMENT OF THE FLOODING RISK CASE OF LE HAVRE

Water level is the result of : Tide + meteorological events + river Seine discharge



=> Main issues : nearly 350 000 inhabitants
One of the most Important industrial zone of France
(managed by the port authority)

MANAGEMENT OF THE FLOODING RISK CASE OF LE HAVRE

Two approaches



Protection dikes risk study
(National approach following the
Xynthia event between 26 february and
1st march 2010)

Pilot : Dike owner

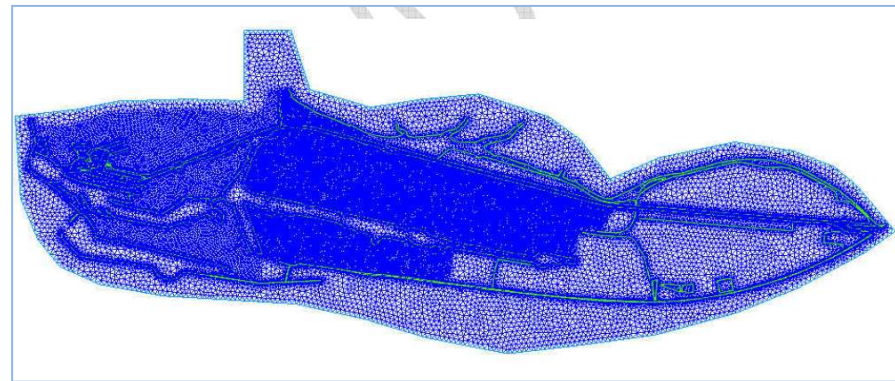
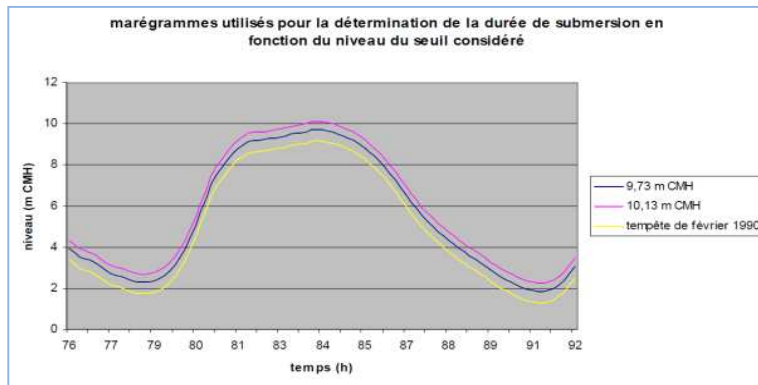
Application of the Directive [2007/60/EC](#) of
the European Parliament and of the Council
of 23 October 2007 on the assessment and
management of flood risks

Pilot : State Administration



MANAGEMENT OF THE FLOODING RISK CASE OF LE HAVRE

- The knowledge of meteorological (or else) events on water sea level has to be increased, especially in estuarine areas where complex phenomenons occur
→ have a long term good monitoring system
- A numerical model is particularly necessary in estuarine areas



- A partnership approach is necessary to :
 - share the characterization of natural hazard (occurrence, intensity, kinetic effects) in a context of (relative) uncertainty regarding water level
 - define realistic strategies consistent with the different occurrences of events