

Overmind *Dynamic*

# Systemic Risk Management

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**Overmind-Dynamic is a consulting company specializing in management of systemic risks.**

Through the use of advanced system dynamics modeling and simulation

- Can help organizations test crisis management plans before they are needed
- Estimate and reduce the potential disastrous effects of cascading risks on
  - Human lives
  - Transport Infrastructure (roads, railroads, bridges, pipelines, canals, ports, airports )
  - Public Service Infrastructure (Telecommunications, water supply, sewage, electrical )
  - Public Buildings (hospitals, schools, municipal buildings)
  - Financial and Economic Infrastructure
- Provide support and assessment of overall crisis management robustness



**Our services help companies and government authorities, identify systematic risks, and better prepare for effective and efficient crisis management**



## Software treats all Infrastructure as one Interdependent System

The Core Software system is a simulation model that is:

- Uniquely tailored to your specific infrastructure with the support of our consultants
- Allows modeling of propagating interdependencies and cascading events
- Anticipation of significant risks and associated robustness of the response
- Modeling of various catastrophic scenarios & generation of associated data for training and preparation:
  - Earthquakes, tornadoes & Hurricanes
  - Fire & Floods
  - Chemical Spills
  - Terrorist Attacks

*This result was validated by the French Ministry of Higher Education and Research by obtaining the status of Young Innovative Company in 2009.*



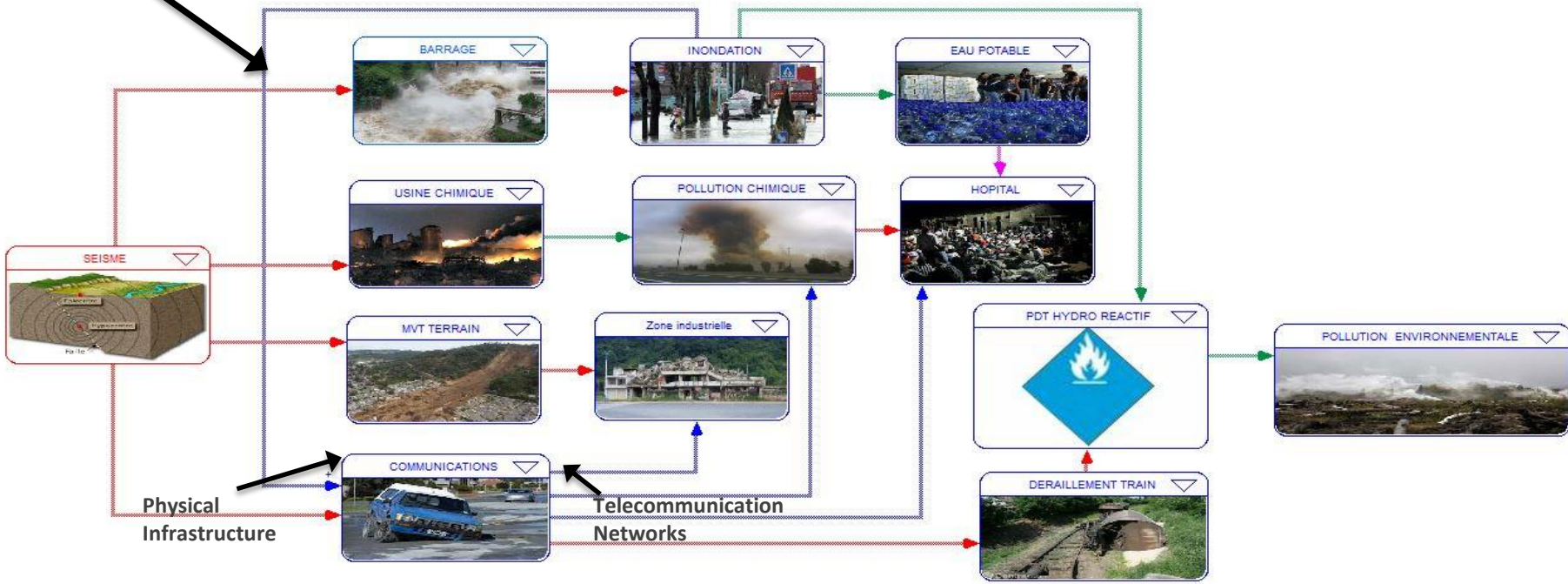
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# Overmind Can Help You Evaluate Domino Cause and Effects



## Example of Potential Effects of an Earthquake

Strengthening



Physical Infrastructure

Telecommunication Networks



The Overmind consultants have unique experience in assessing and improving overall crisis management robustness

### Dynamic Modeling Capabilities

- Identify relevant risks and their combinations
- Detect interdependencies, domino and cascading effects
- Analyze interactions between impacts and vulnerabilities
- Improve allocation of resources to meet dynamic needs
- Simulate scenarios of crisis management
- Prepare training and exercise
- Assess the dynamics of your overall robustness



### To Better Understand

- human issues**
- Impacts on infrastructure**
- Impact on communications**
- economic Issues**
- Impacts on urban areas**
- Impacts on rural areas**
- financial Issues**
- Levels losses**



# Architecture

