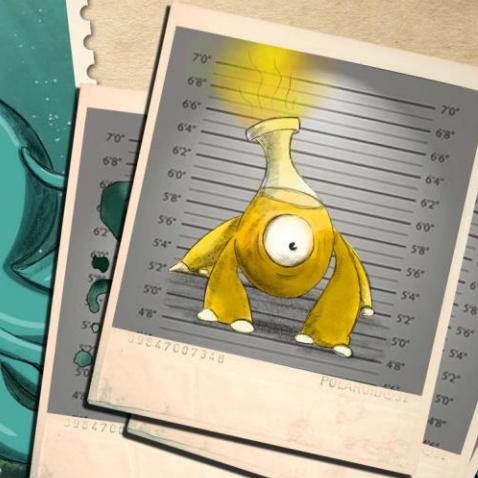




Mission #1

Complete the profiling kit to obtain a cadet badge and access to archive files.



Mission 1 consists of 3 steps

Mission #1

CHALLENGE 1

**Who are the pollu-criminals and
what are their usual behaviour?**





I didn't see him sinking. His relative density must be lower than that of water.



My tests showed that he was not present in water. His solubility is certainly low.



No doubt he was present in the air. He therefore has a high saturation vapour pressure.



Mission #1

CHALLENGE 2: Team 1

What are their complex behaviours?



Mission #1

CHALLENGE 2: Team 2

What are their complex behaviours?



MAIN BEHAVIOUR F



- ✓ Lower relative density than water
- ✓ **Very low to medium** solubility
- ✓ **Low to high** vapour pressure



MAIN BEHAVIOUR F



- ✓ Lower relative density than water
- ✓ **Very low** solubility
- ✓ **Low** vapour pressure



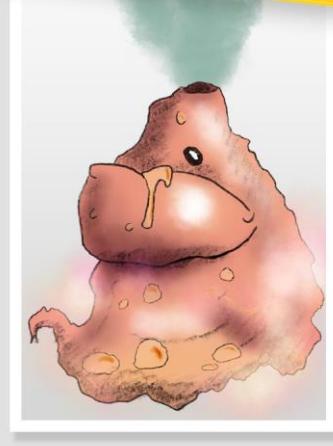
MAIN BEHAVIOUR E



- ✓ Lower relative density than water
- ✓ **Medium** solubility
- ✓ **High** vapour pressure



MAIN BEHAVIOUR D



- ✓ Lower relative density than water
- ✓ **High** solubility
- ✓ **Very high** vapour pressure

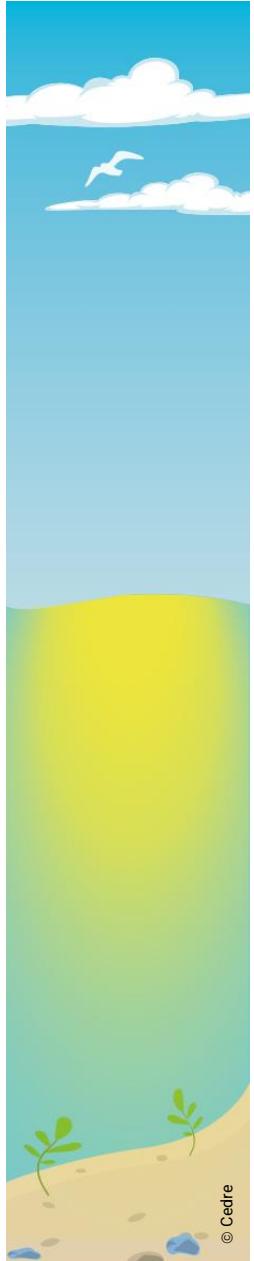
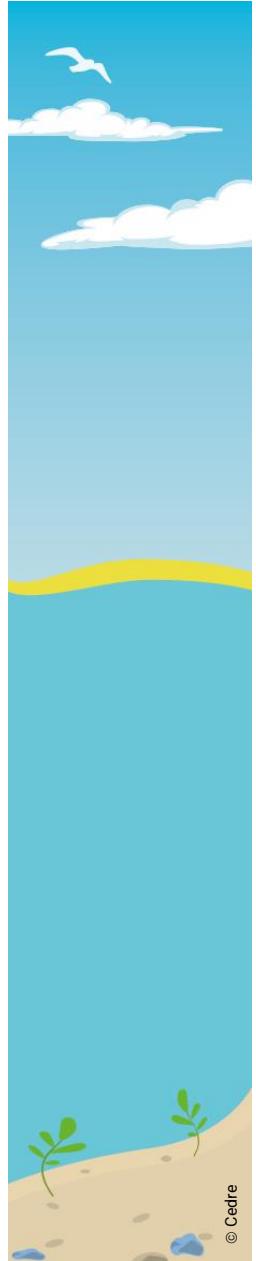




MAIN BEHAVIOUR D

- ✓ Lower relative density than water
- ✓ **High** solubility
- ✓ **Very low to high** vapour pressure





FED

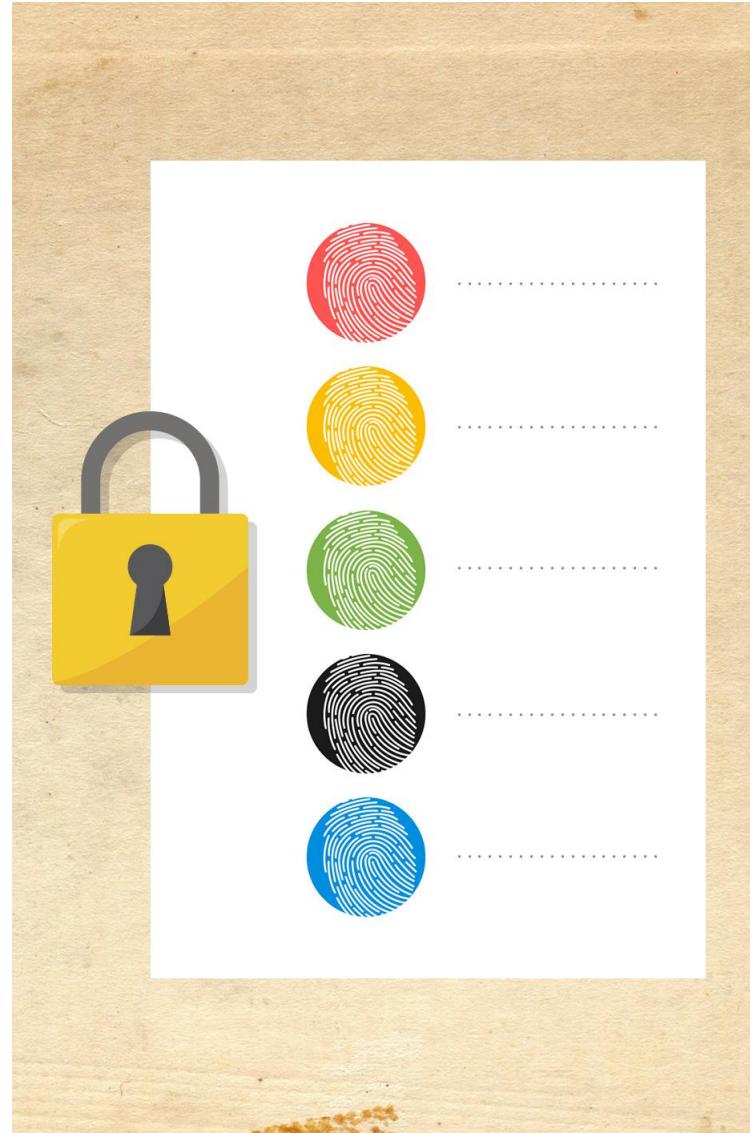
DE

ED

D

F

The code is composed of letters and numbers



MAIN BEHAVIOUR S



- ✓ Higher relative density than water
- ✓ **Low** solubility



MAIN BEHAVIOUR S



- ✓ Higher relative density than water
- ✓ **Very low** solubility



MAIN BEHAVIOUR F



- ✓ Lower relative density than water
- ✓ **Very low** solubility
- ✓ **Low to high vapour** pressure



MAIN BEHAVIOUR F



- ✓ Lower relative density than water
- ✓ **Very low to medium** solubility
- ✓ Low vapour pressure

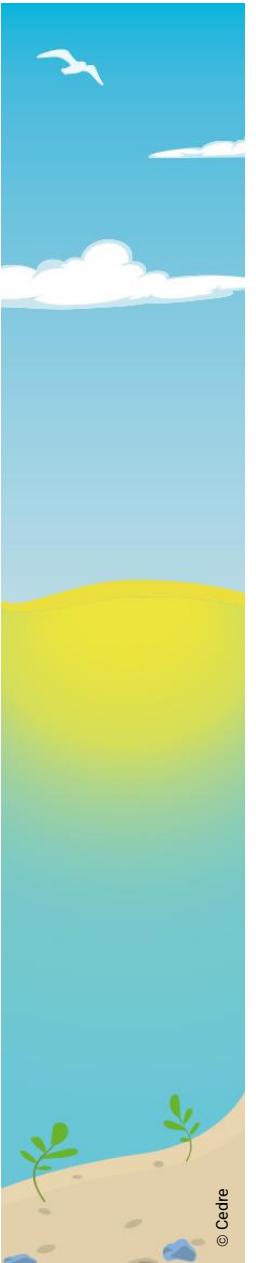
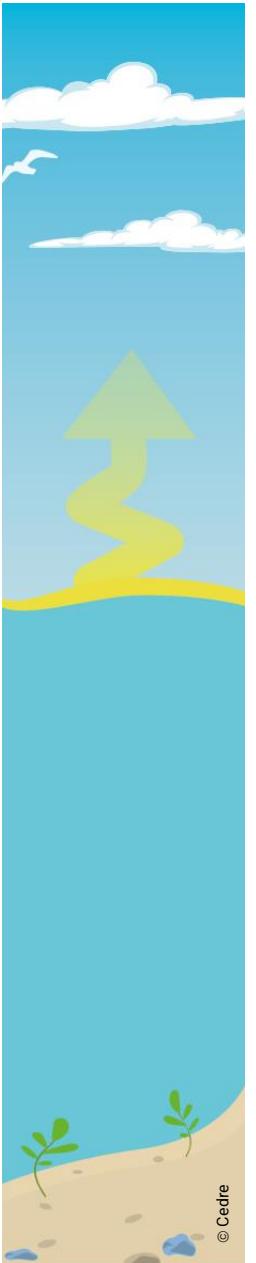
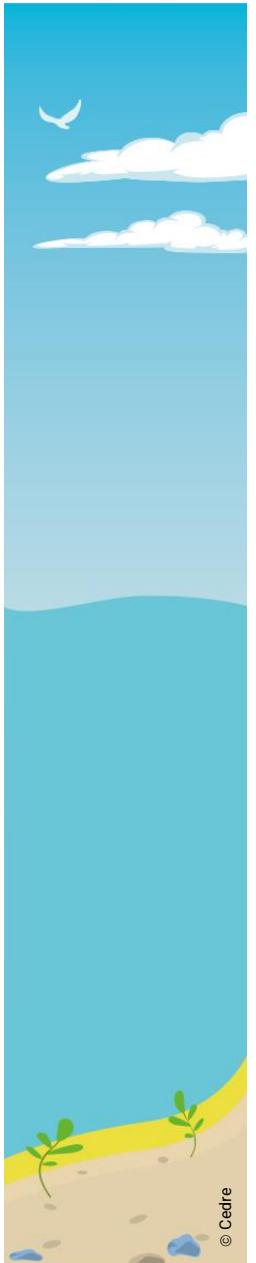




MAIN BEHAVIOUR E

- ✓ Lower relative density than water
- ✓ **Very low** solubility
- ✓ **High vapour** pressure





E

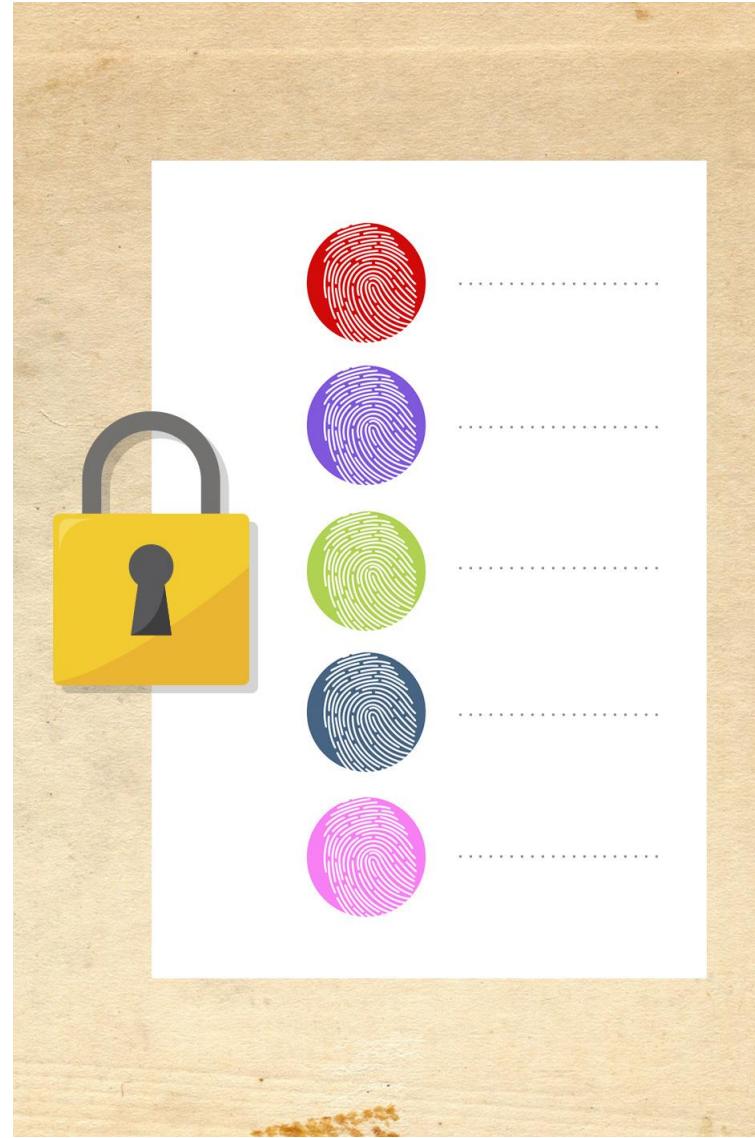
S

FE

FD

SD

The code is composed of letters and numbers



Mission #1

CHALLENGE 3

What are the pollu-criminals modus operandi and what threats do they pose?



Crime scene from POLLU-CRIME 2

During a transfer of 8,000 pollu-criminals of the acids gang, the chemical tanker BLUA sank in the Bay of Biscay, on a seabed of 4,600 to 4,800 metres, about 120 nautical miles north of La Coruña. The pollu-criminals managed to escape.

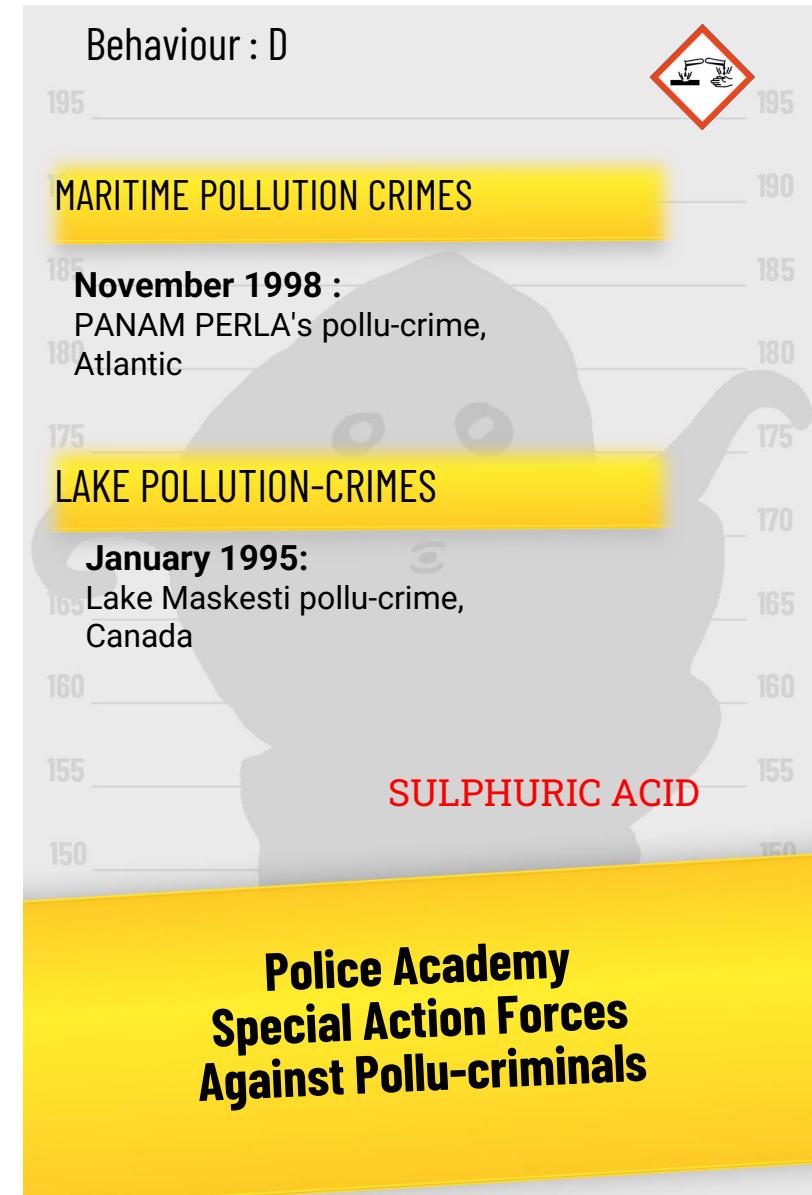
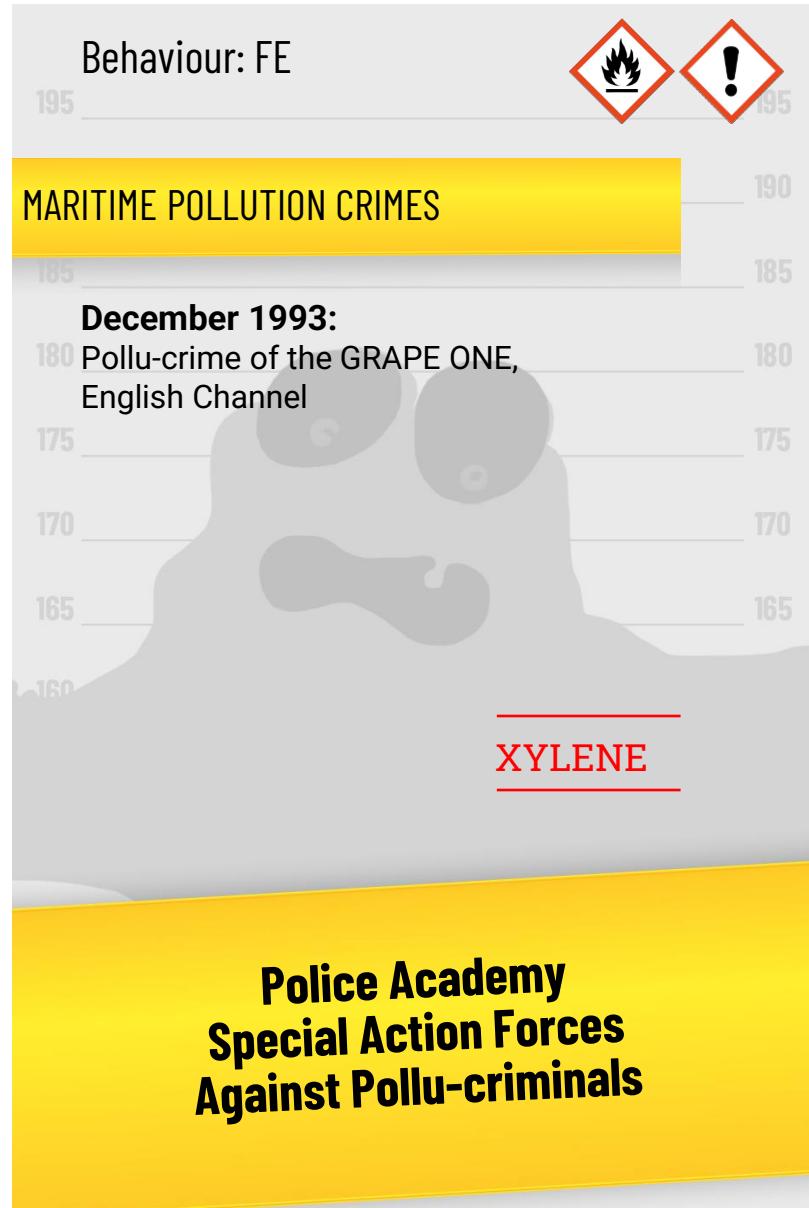


Crime scene from POLLU-CRIME 1

While carrying out a transfer of 118 pollu-criminals, the container ship DENARIA, which had just left the port, ran aground 100 metres from the shore.

Amongst these pollu-criminals, the aromatics gang took advantage of the disturbance and managed to escape dangerously towards the city.





HAZARD PICTOGRAMS

Physical hazards



**Explosive
Unstable substances**

Human health hazards



Acute Toxicity

Environmental hazards



**Hazardous to the
aquatic environment**

Health hazard



Serious health hazard

Flammable



Flammable

Oxidising



Oxidising

Gas under pressure

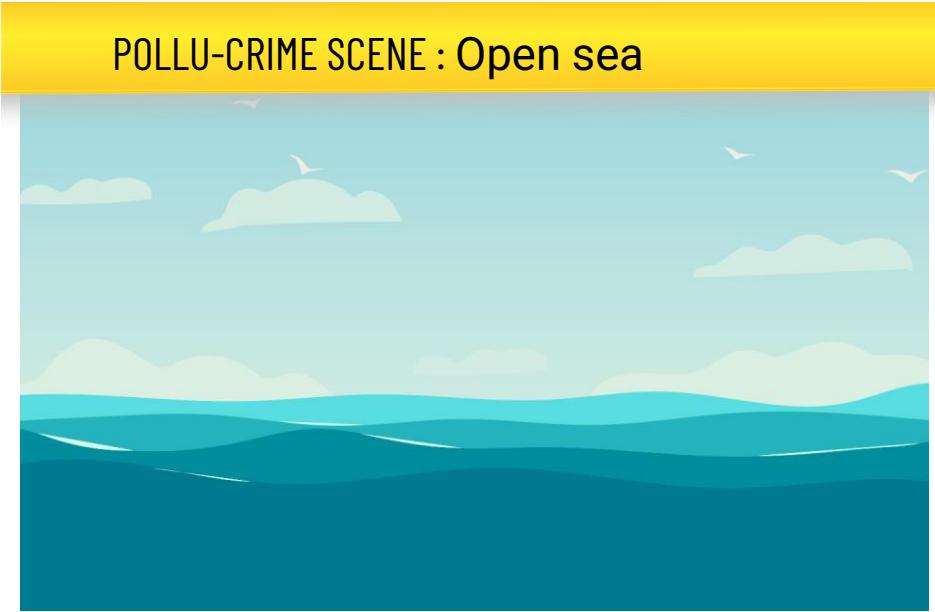


Gas under pressure

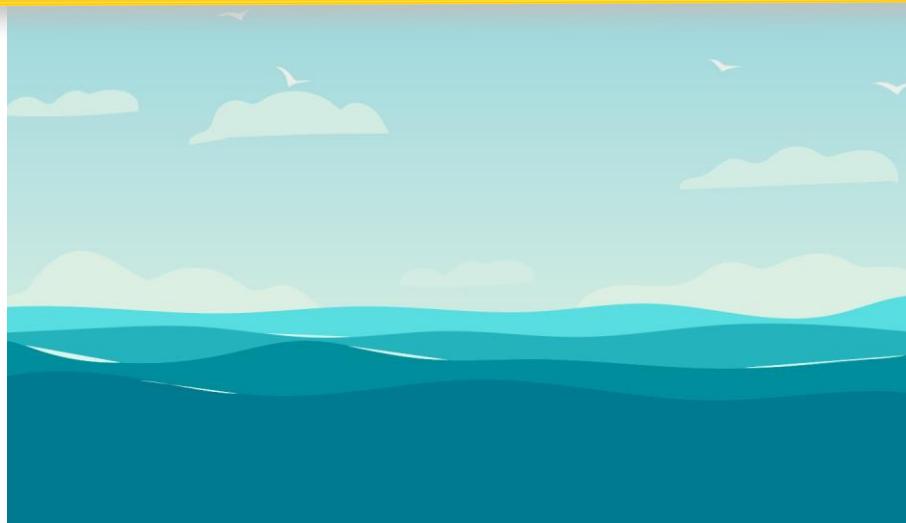
Corrosive



Corrosive



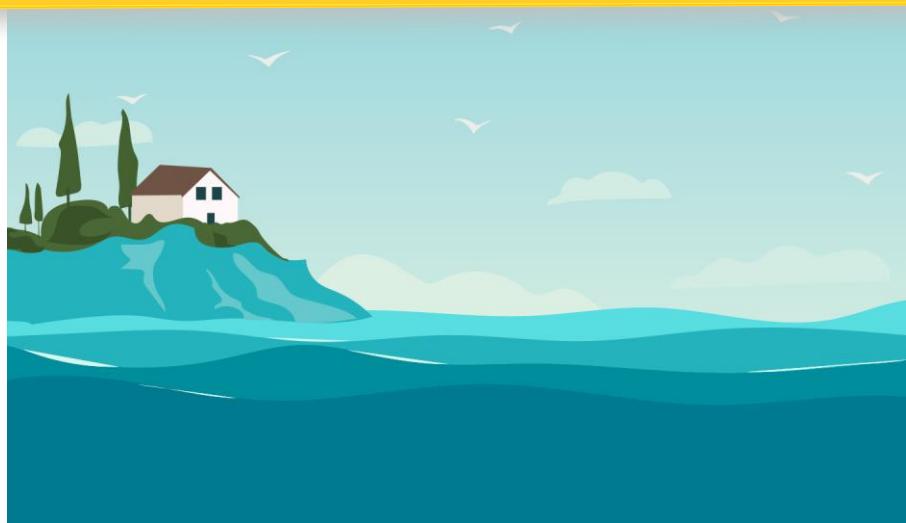
POLLU-CRIME SCENE : Open sea



POLLU-CRIME SCENE : Harbour



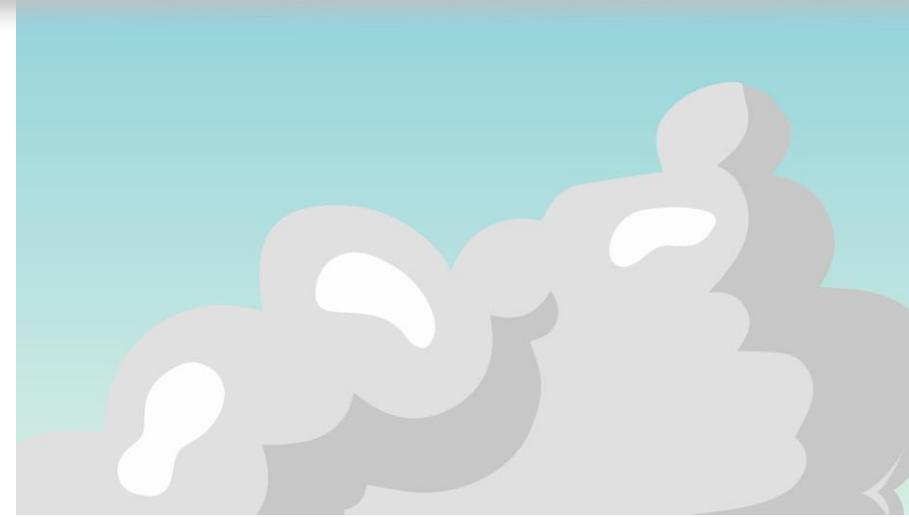
POLLU-CRIME SCENE : Coastline



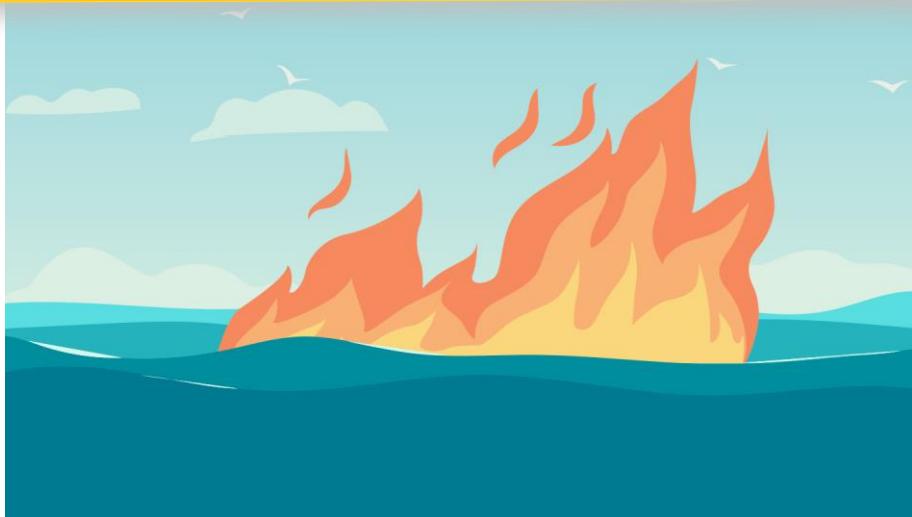
HAZARD : Flammable cloud or explosion



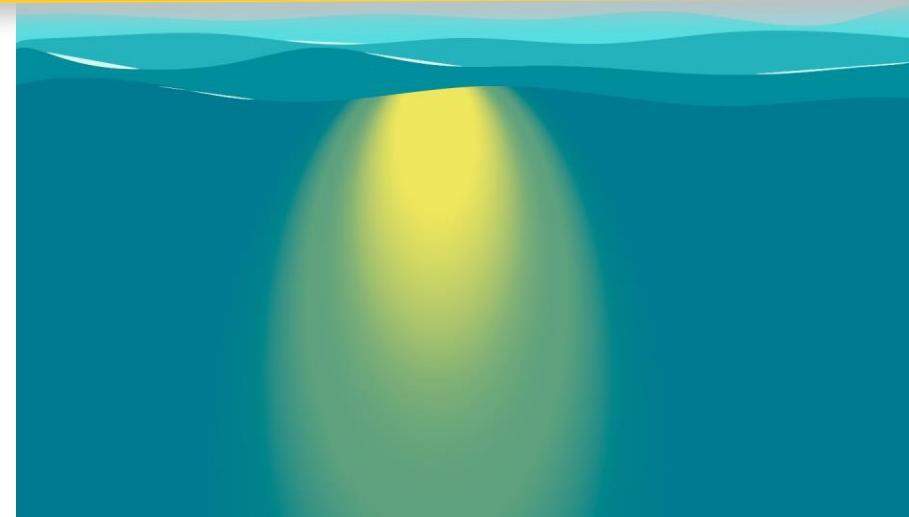
HAZARD : Toxic cloud



HAZARD : Flammable or explosive slick



HAZARD : Polluted water column



HAZARD : Flammable cloud or explosion



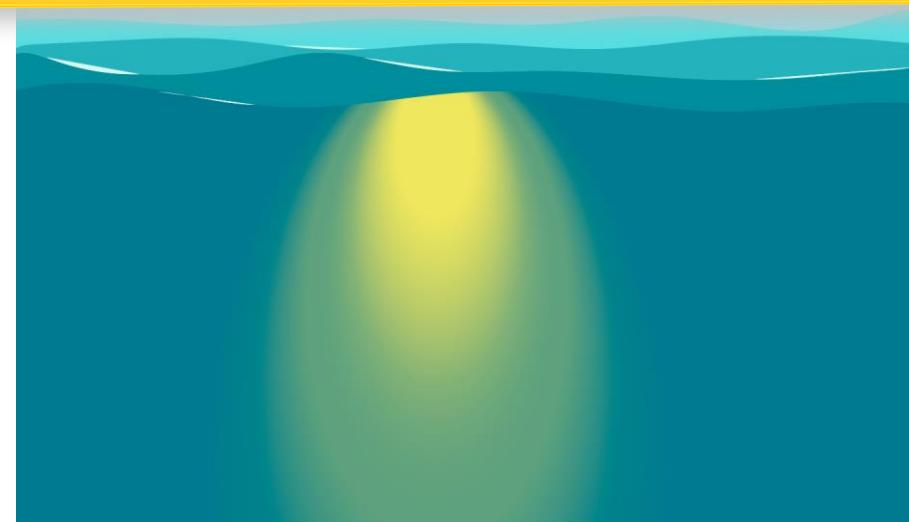
HAZARD : Toxic cloud



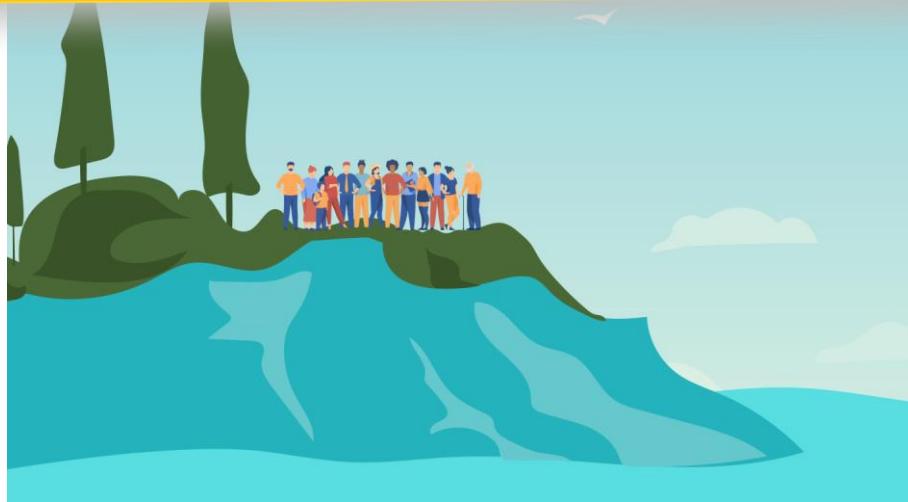
HAZARD : Flammable or explosive slick



HAZARD : Polluted water column



Impacts on human health :
Coastal population



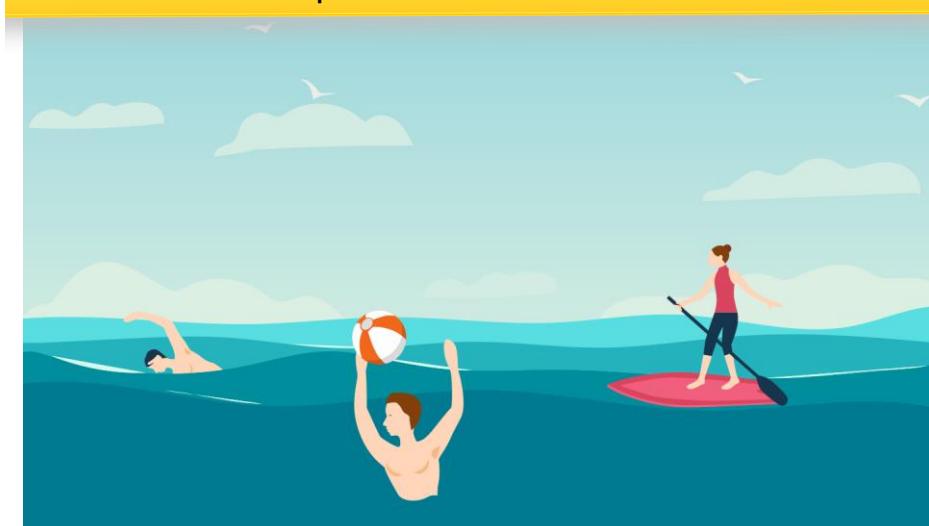
Environmental impact



Economic impact : Fishing activities



Economic impact : Tourism activities



Impacts on human health :
Coastal population



Environmental impact



Economic impact : Fishing activities



Economic impact : Tourism activities



Impacts on human health :
First responders



Impacts on human health :
First responders



NEWS FROM THE SEA

- DAILY COASTAL NEWS - ENVIRONMENT - RESEARCH - MARINE WEATHER

N° 20385 - MONDAY

THE POLLU-CRIMINAL GANG HAS STRUCK AGAIN !

During its docking procedure in the harbour of Hamburg (Germany), the German chemical tanker Naé 2 collided with a container ship.

The accident did not damage the internal structure of the ship, but a weakness in the ventilation system allowed some of the 960 acid gang pollu-criminals to escape.

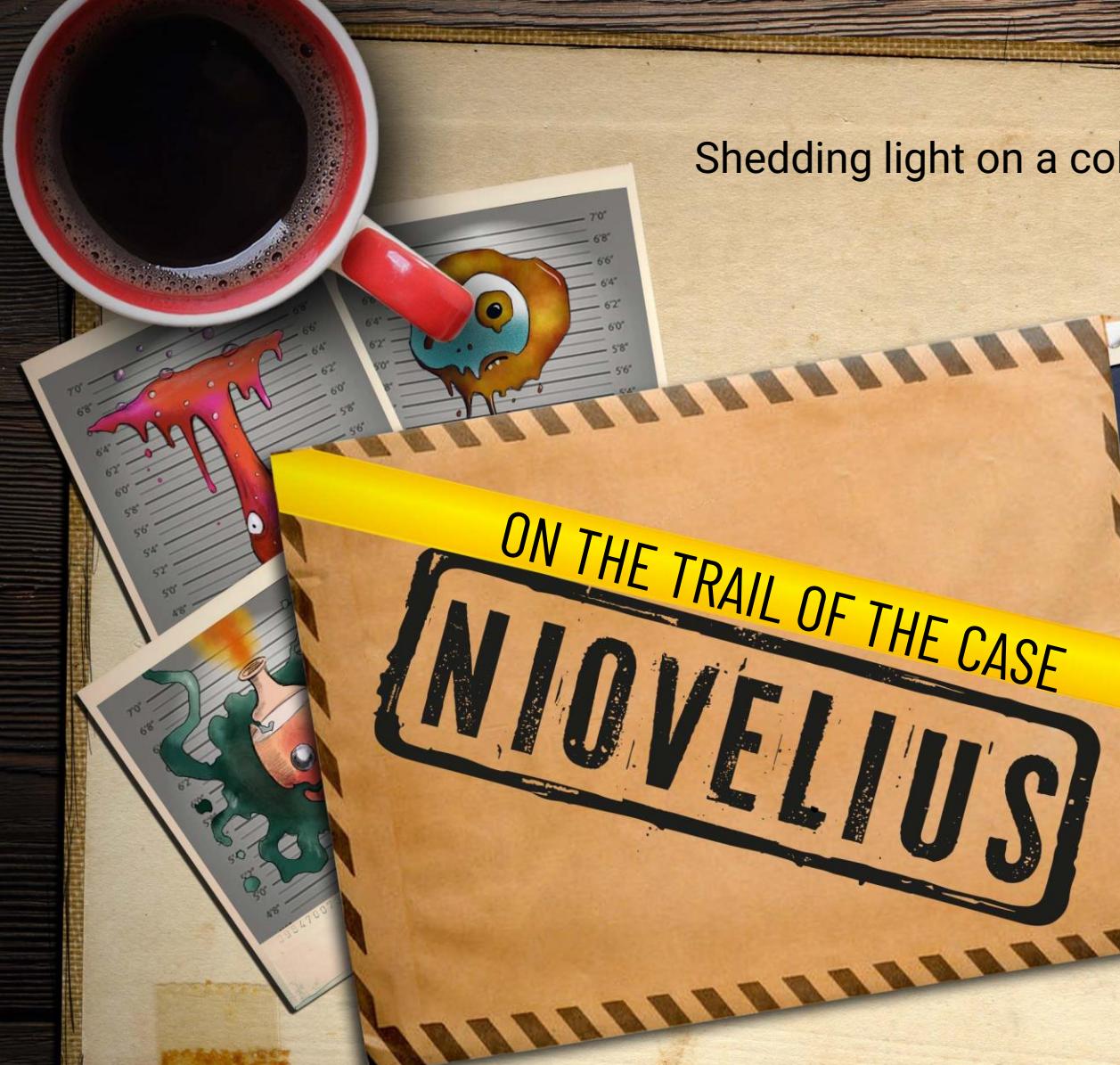
Eleven crew members were affected by the toxic and corrosive fumes and had to be hospitalised.



Mission #2

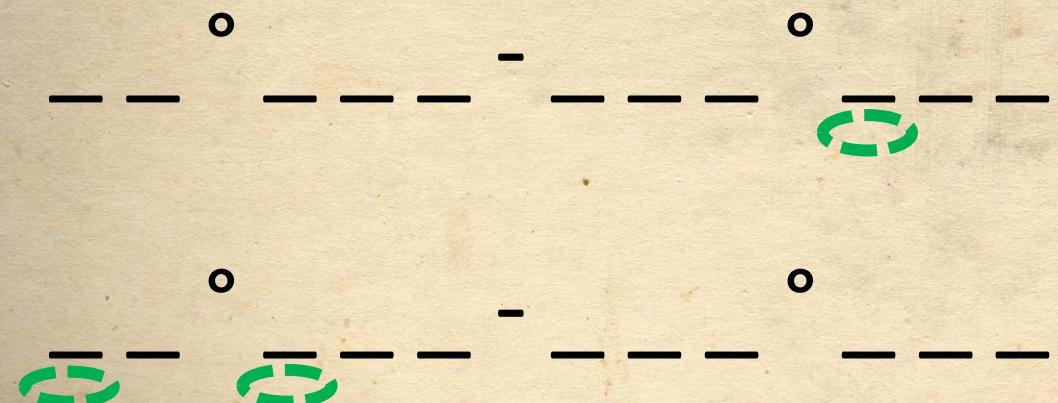
Shedding light on a cold pollu-crime case.

ON THE TRAIL OF THE CASE
NIOVELIUS

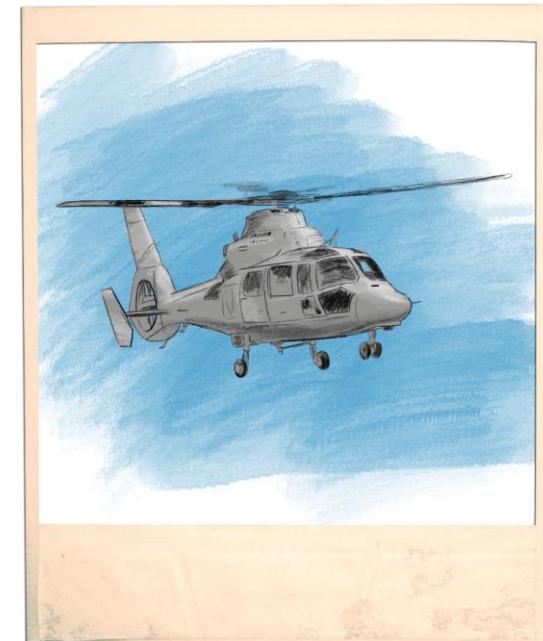
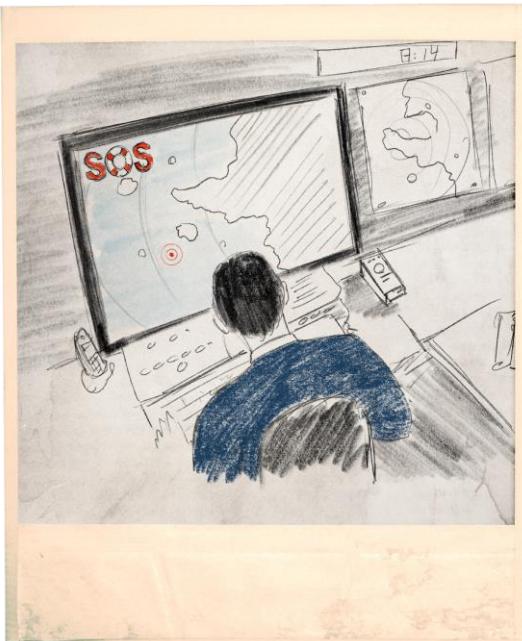
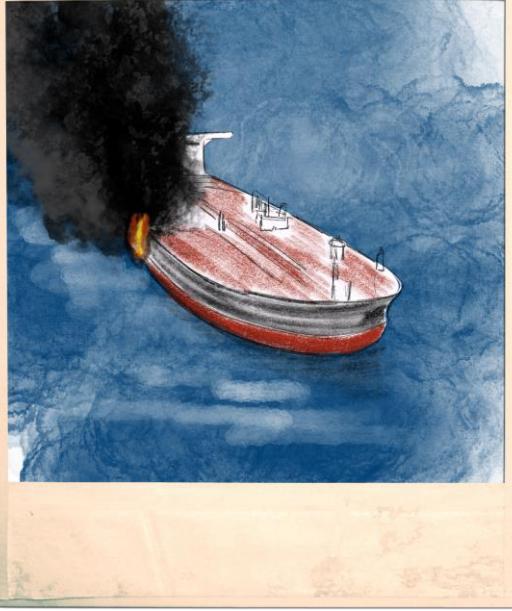




- The investigators at the time protected the archived file.
They left only a simple document...



ARMINES – IMT MINES ALES



ARMINES – IMT MINES ALES

