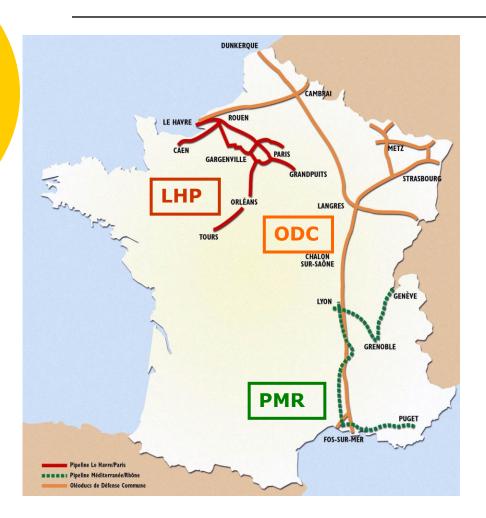
# **Pipeline Inspector Training**

### TRAPIL: three networks of pipeline



**LHP**: Le Havre / Paris network

1 370 km

owned and operated by Trapil

**ODC** : Oléoducs de Défense Commune – military network

2 600 km

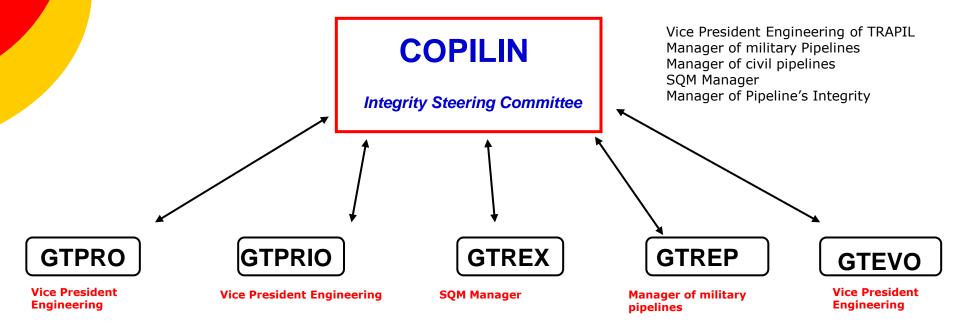
operated by Trapil by order and on behalf of the state

**PMR**: Pipeline Méditerranée / Rhône

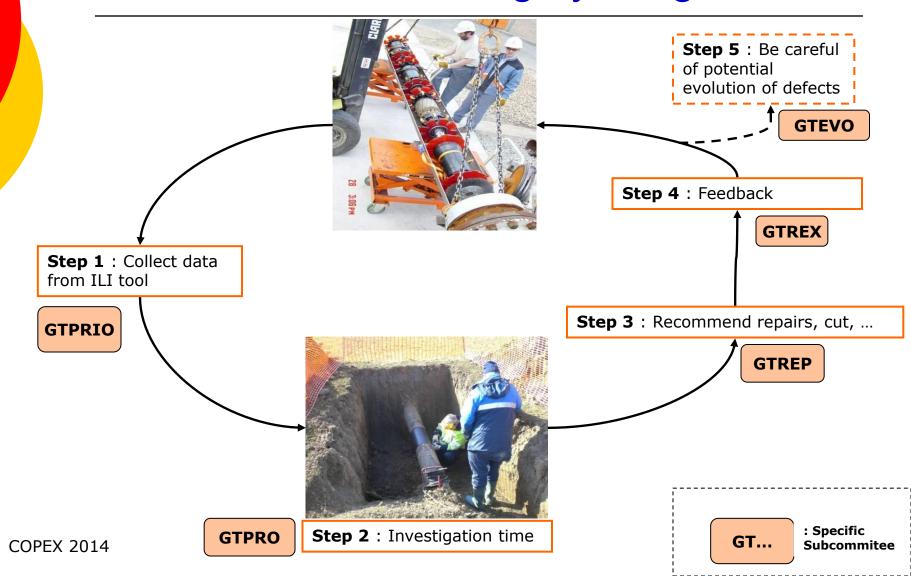
760 km

owned by SPMR and operated by Trapil under an industrial management contract

## Management of Integrity in TRAPIL

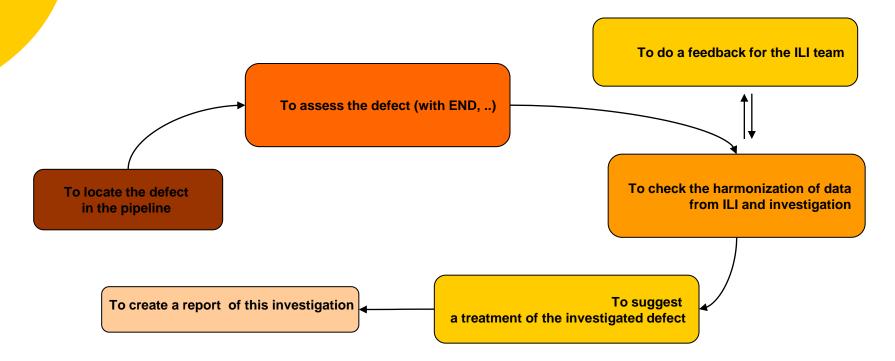


### Introduction of our Integrity's organization



# Mission of the pipeline inspector

- Mission: To assess defects on pipelines during investigations:
  - Defects from datas of ILI
  - Defects from third-part (for example, from works near to the pipeline)



# Pipeline inspector training



Investigation time:
How to become a pipeline inspector in TRAPIL?

# Profile of the pipeline inspector

- ✓ To be perseverant
- ✓ To be logical, methodical, rigorous
- To have a critical mind
- ✓ Not to be easily influenced

For each network, we have one Senior pipeline inspector: he's **the Reference** for every pipeline inspector



# Pipeline inspector training

### Theoretical training

#### **NDT**

(Time : ~ 3,5 days)

- visual control
- liquid penetrant examination
- Magnetic particle testing
- ultrasonic examination (with TOFD et Phased-Array technology)
- radiographic examination (X and Gamma)
- metallurgy and fracture mechanics
  - + practices in laboratory

#### Internal training

#### **Problematics of TRAPIL**

(Time : ~ 3 days)

- Metallurgy and welding used by TRAPIL
- -Definitions of defects on pipeline
- -Definitions of pressure
- Equipment of the pipeline inspector
- internal software
- internal procedures
- regulations
  - + practices on real pipeline

(with manufacturing defects)

### Practical training

On site

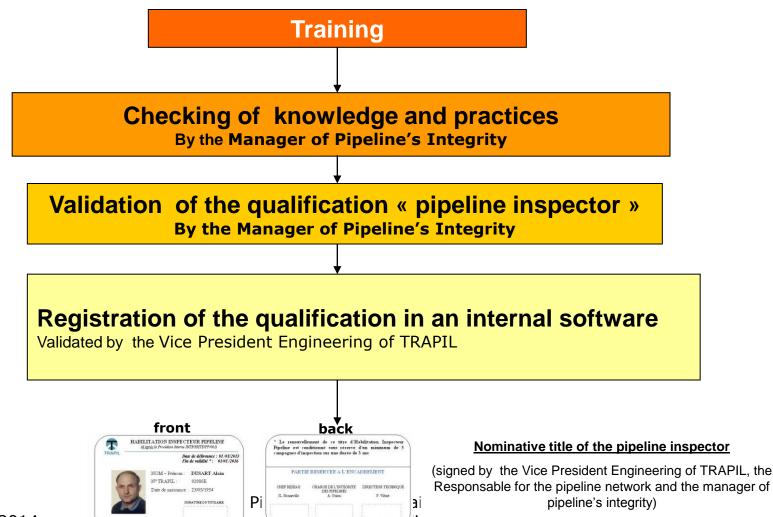
(Time : ~ 1 week)

With a senior pipeline inspector, carry out about 5 investigations





# Registration of the training



### The follow-up of the qualification

- The title is nominative and valid for 3 years
- The maintenance of the title (beyond 3 years): the pipeline inspector has to realize more than 3 big investigations campaign with distinct periods during this 3 years
- The follow-up of the title :
  - Each pipeline inspector is followed up (investigations realized, other training, ...)
  - If a pipeline inspector lost his qualification, he has to follow another specific training



**Today in TRAPIL, 10 pipeline inspectors** 

+ 4 References

+1 technical Reference

...+7 futur pipeline inspectors in training

## Thanks for listening

