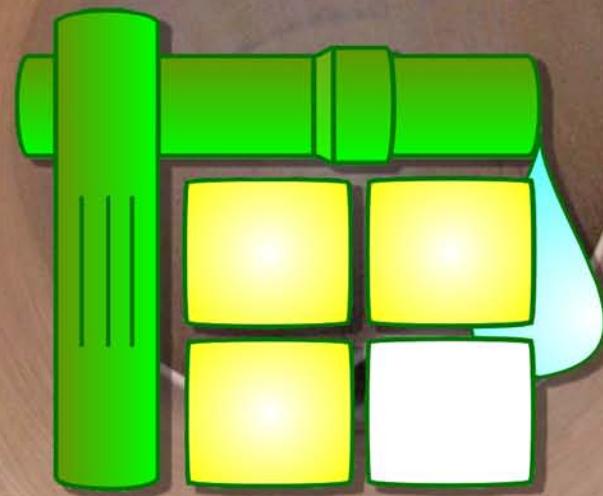


Inspection and no-dig renovation of wells & pipes
for water, gas, sewer



IDROAMBIENTE



Relining is the technology that gives back, working inside, a new cycle of life to a damaged pipe through the aid of a composite attached and hardened with the technology without digging.

The aid of the composite helps, in a way proportionally to the structure, to give back and guarantee in the time the restoration of the hydraulic and structural conditions of the receiving pipe.



RENOVATION AND REHABILITATION OF WELLS & PIPES FOR WATER, GAS, SEWER

The electronic and robotic technologies have made great strides and now they permit to realize machines and semi-automatic servo-controlled systems for the realization of new pipes for water, gas and sewer, imprinted directly inside those old and damaged.

*your trenchless
partner
since 1991*



The use of these kind of systems permit to work in a nearly similar way to "laparoscopy" that nowadays it is used for softening the surgical intervention in many diseases of our own body.



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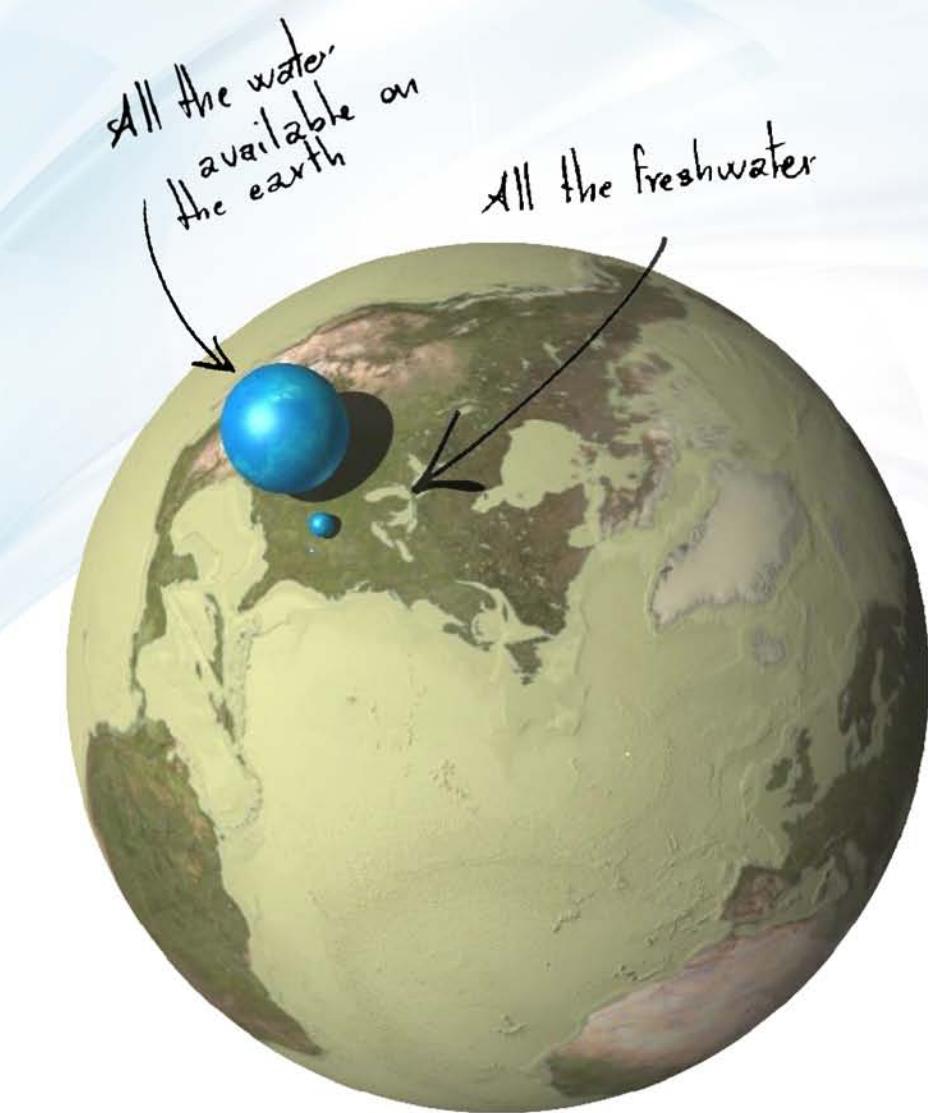


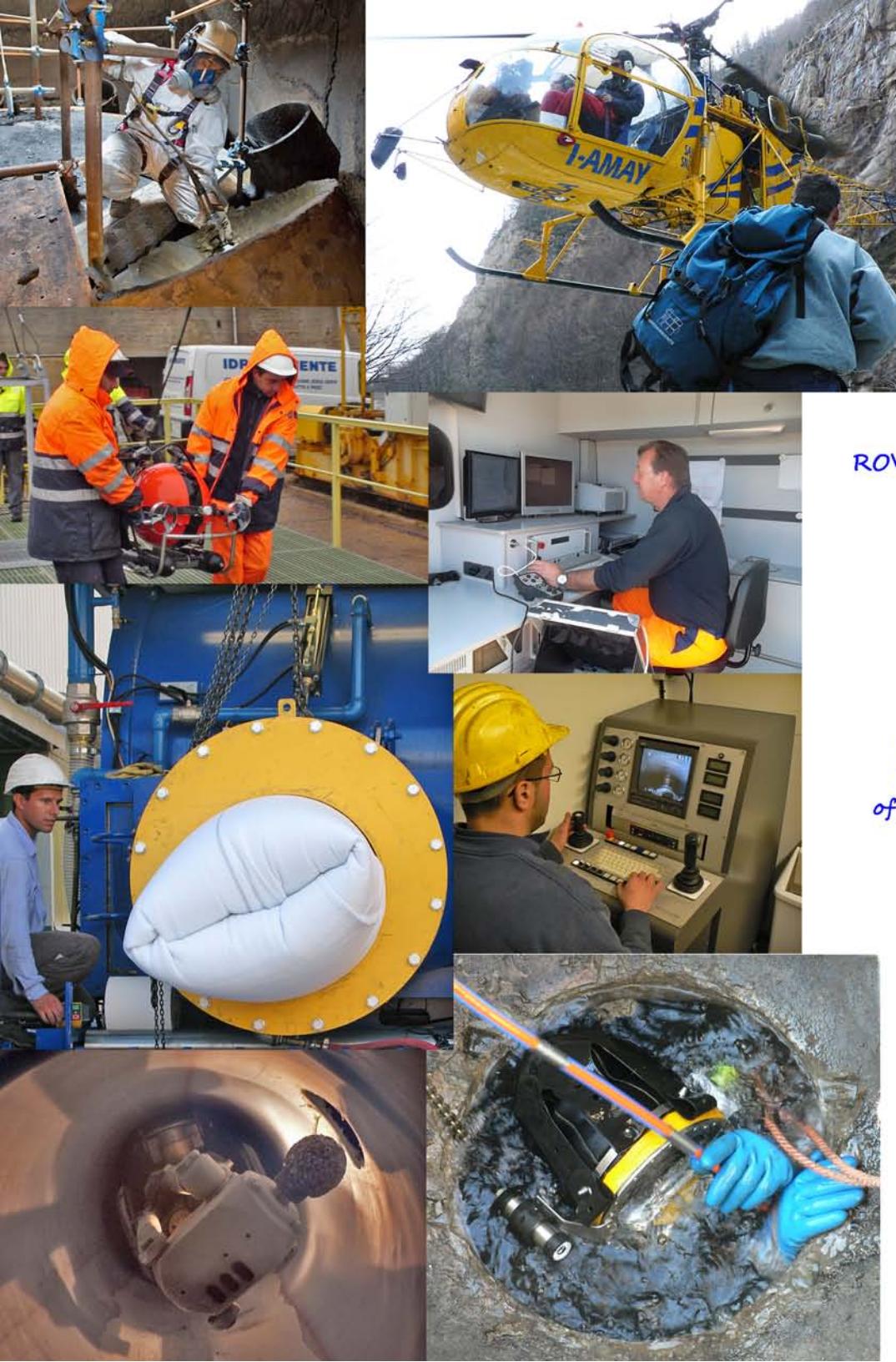
OUR TRENCHLESS SOLUTIONS TO PRESERVE THE MOST PRECIOUS RESOURCE OF THE EARTH

From the deep wells for water, to the water supply pipes till the drainage sea pipes we are present with our technologies in all the anthropic water cycle. Idroambiente offers trenchless solutions of renovation and rehabilitation for all the pipes:

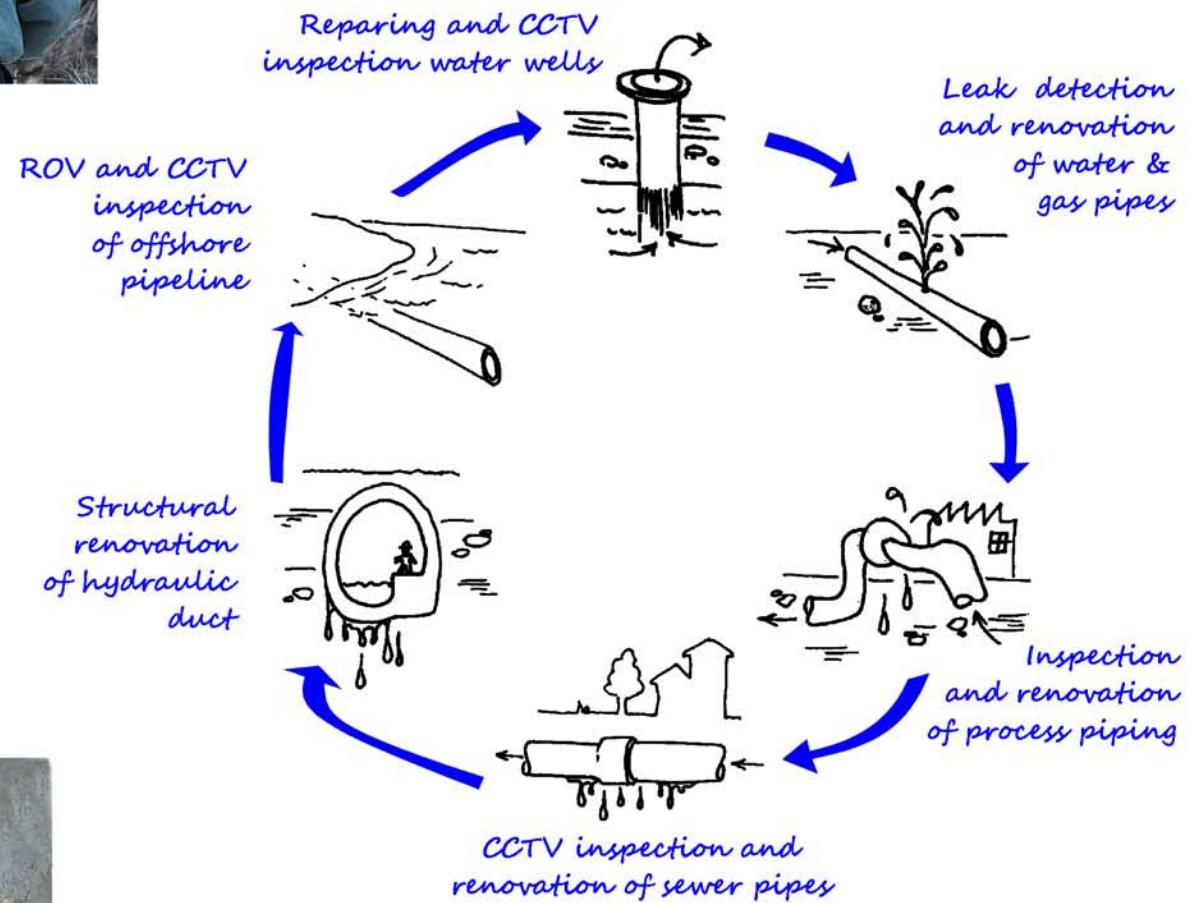
- Inspection and renovation of water wells.
- Instrumental research of leakage and pipe renovation through relining in water and gas pipe in pressure.
- Research of leakage, test, CCTV inspection in industrial and process pipes.
- CCTV inspection, leak tests and test for gravity pipes or pressure for sewer and industrial drain.
- CCTV inspection and structural covering of big hydraulic sewer
- CCTV inspection and renovation or tubing of underground or underwater pipes.
- Descaling and cleaning of all the kind of pipes.
- CAD mapping of sewer and hydraulic systems.
- Underwater and mining robotized inspections.

*We have less water than we normally perceive...
Our task is to eliminate the leaks of pipes and basins of the anthropic water cycle for avoiding the waste of this precious resource*





The anthropic water cycle uses for the 92% of its way pipes with a technical life from 20 to 100 years if perfectly kept. Today in Italy the 50% of the existing pipes exceeds the limit of expected technical life.



We renovate entirely the pipes without digging, sometimes better than the new and bring back at 50 years and over the life expectation of the pipe.

THE TRENCHLESS TECHNOLOGY FOR RENOVATE AND REPLACE WITHOUT DIGGING THE UNDERGROUND HYDRAULIC PIPES

Since 20 years we are the true expert of the C.I.P.P. (Cured-in-place-pipe).

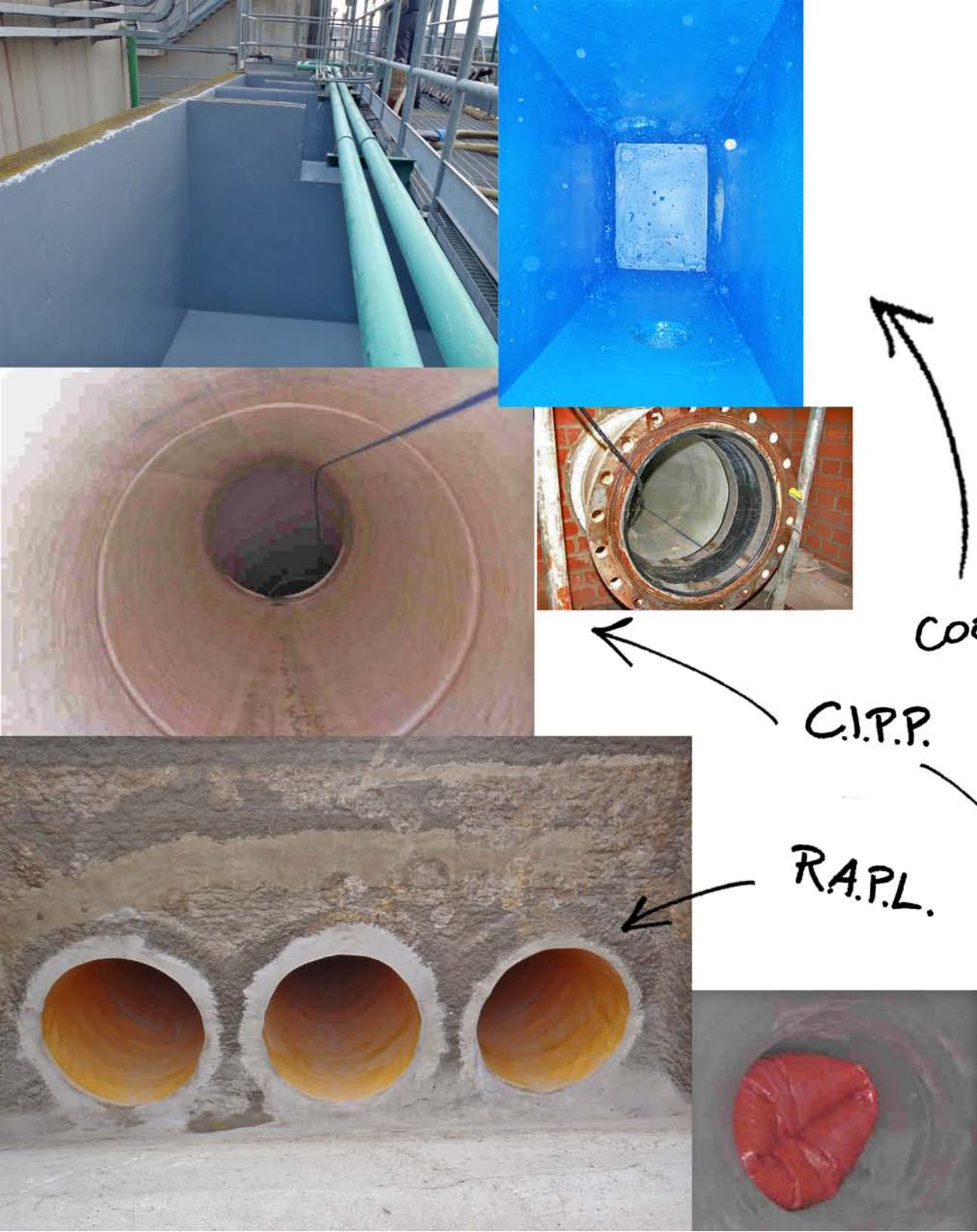
We replace the whole underground pipes operating with machines and personnel exclusively from outside through videocameras, robotic controller and automatic systems that act inside the same pipe.

Once having all the data of the pipe and of the manufactured product, Idroambiente projects the renovation of the pipe or the localised reparation; always considering the use of equipments and servo- controlled and/or automatic systems.

The renovation or the replacement of the pipe happens with the inversion of a tubular in a composite flexible material and malleable impregnated with resins thermo or photo setting about 1 meter long (reparation) or as the entire part of pipe long (till 200-400 m). The inserting, the inversion and the hardening of the new pipe take place through the use of surface specific equipment, through small sections or through access manholes normally existing.

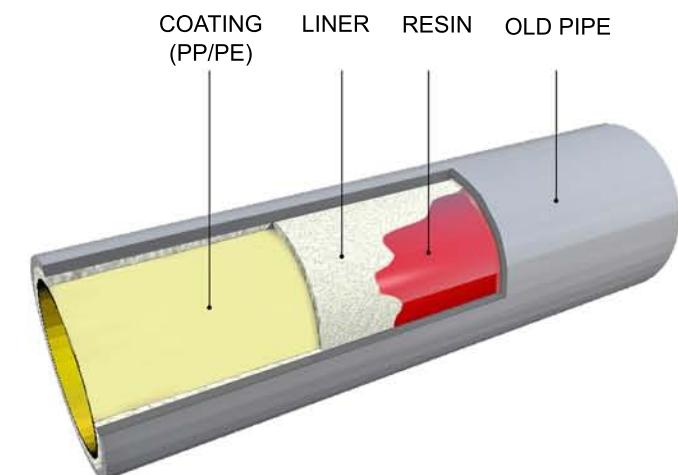
The process of photo-thermocuring of the resin with which the composite is impregnated with a specific process and machinery happens directly inside the old pipe: this after the new tubular still "soft" and workable will be perfectly inverted with force on the inner part of the old pipe conveniently cleaned and descaled.





Once finished the process of production of the new pipe (inverted in the old one) it proves to be completely connected and stuck to the old pipe, substituting it in the hydraulic function, improving it from the structural point of view, assuring a more durability as elastic (it proves to be little more rigid than the pipe in PEAD) and without intermediate joints.

After the cooling down, it is possible to re-open the two terminals (beginning and end of the hardened tubular) through specific cutting equipments and the possible connections (entries and derivations) using servo-controlled Rover, robotic and equipped with videocameras and anthropomorphic arm with specific cutting tools and milling of the hardened composite. The new pipe is in this way perfectly moulded and ready to be used for other 50 years (following the certification to the rules ISO in force).







AWARENESS OF THE TECHNIQUE AND COMPETENCE OF THE RELINING PROCESS

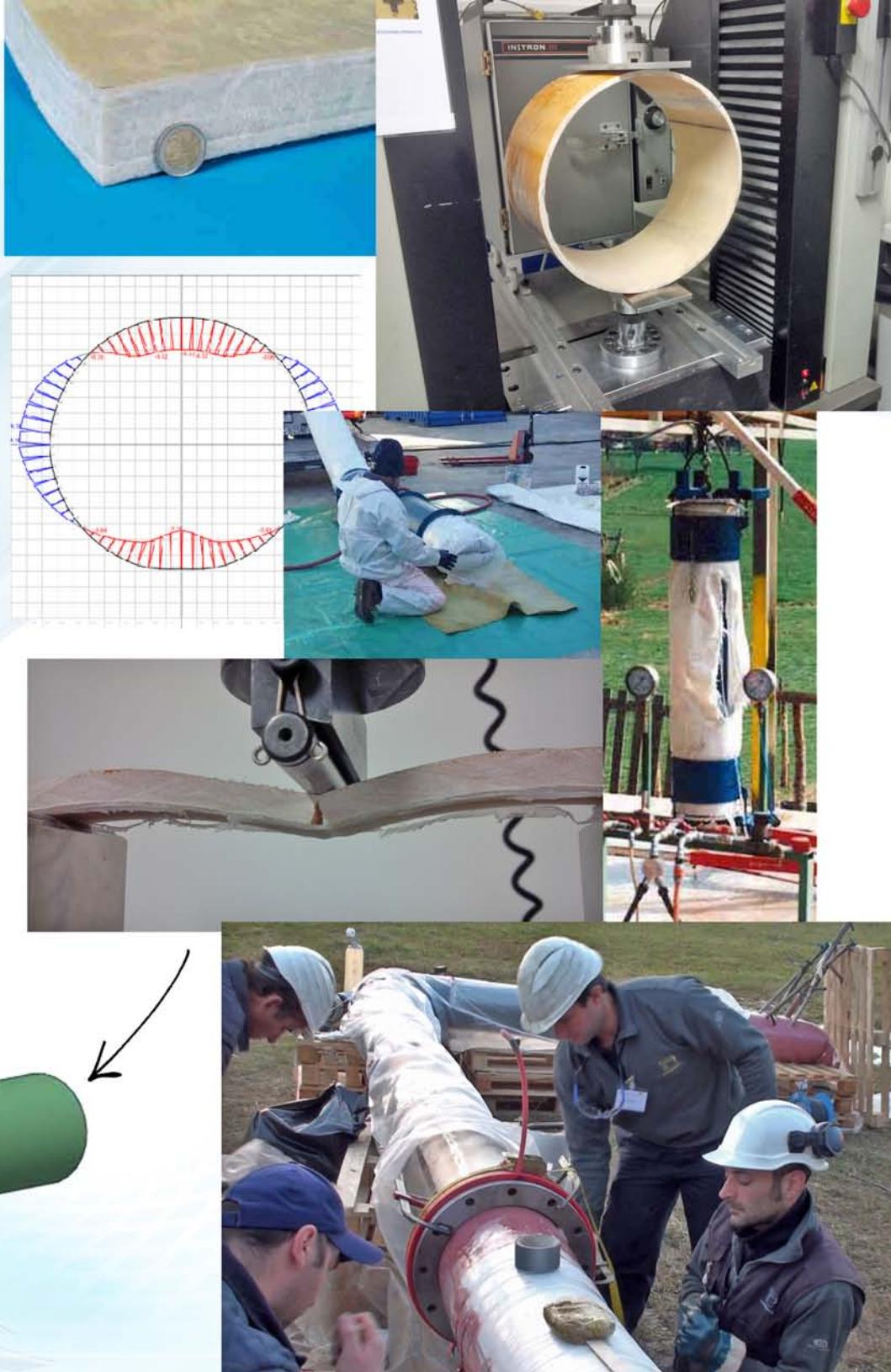
Renovating an hydraulic sewer is a very important investment, for this we are aware to project and realize works that are the result of technical awareness and total competence of the process.

We were the first in Italy, 20 years ago, to start the research of the inversion and polymerization processes, developed international patents of process and improvement of the systems, we built important synergies with some national suppliers for offering products and new reliable project following the rules ISO.

First and unique we represent our Country at ISO as UNI representative, we preside over the foundation of the Permanent Technical Relining Committee of the I.A.T.T. (Italian Association for Trenchless Technology) and the Sub-Committee C.I.P.P. always of I.A.T.T.

Actually we start important contracts with the more important Test Accredited Institutes and with some Universities for doing tests on materials and relining systems we use.

This effort permits to converse and compete without complex with the European market and above all to plan the relining completely customised.





GSK



CHEMICAL AND PETROCHEMICAL

FOOD INDUSTRY

PHARMACEUTICAL

CONSTRUCTION COMPANIES

GREAT SPECIAL WORKS

HYDROELECTRIC THERMOELECTRIC

AUTOMOTIVE METALLURGICAL

MINING AND GEOTECNICAL

WATER EXTRACTION

WATER AND FIRE NETWORKS

GAS NETWORKS

CIVIL AND INDUSTRIAL SEWERAGE

BUILDINGS

FLUES



During 25 years of activity IDROAMBIENTE has received numerous accreditations and qualifications from private industries and organizations of public networks. Please contact us to enter our world.



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WITH OUR TRENCHLESS SOLUTIONS WE POINT TO ALL THE MANAGER OF THE HYDRAULIC SEWERS FROM THE PRIVATE HOME TO THE BIG MANAGER OF WATER, GAS AND SEWER.

OUR NUMBERS TILL 2015:

- Over 300 km of inspected pipes with CCTV.
- Over 700 deep water wells inspected
- Over 200 km of C.I.P.P. renovation
- 52% of the sales volume in Italy with public sewer manager
- 42% of the sales volume in Italy with private sewer manager
- 6% of the sales volume in Italy with «building» chimney
- About 1500 clients called us again for new works.
- The ownership of 3 international patents
- Over 90% of the orders in Italy are direct.
- About the 50% of the orders abroad are direct
- Over the 27% of our clients use our relining project for over 10 years.
- Average age of the personnel: 34 years old, average experience of the personnel: 9 years.
- A young and skilled team
- Certification ISO 18001, 9001, 14001
- Certification SOA IV Bis for OS35 and OG6
- Permanent position in various institutions and industrial groups for relining and CCTV inspection activities

The inspection and renovation with no-dig technologies of the pipes coincide with about the totality of our sales volume since 25 years. Therefore we can surely define ourselves as the more important Italian and European specialist in this branch.

OTHER TRENCHLESS SOLUTIONS FOR THE UNDERGROUND OR UNDERWATER PIPES

Television inspections (CCTV) in dangerous environments through underwater R.O.V., videocameras with inner memory carried by a push of fluid, inspections with videocameras CCTV auto-built, inspections CCTV of deep wells for water, inspection CCTV of mining perforation.

Instrumental inspection with visual sonar of dangerous environments (basins, pipes, wells) underwater with big turbidity. Digital mapping of underground pipes.

Tests of pipes and hoses in gravity or in pressure for water, gas, sewer. Tests of hydric basins.

Supporting and/or structural covering in PEAD thermo-welded and concrete and reinforced concrete of hydraulic tunnels, drain pipes and pipes with minimum diameter of 1500 mm (Optimus Liner). Localised rehabilitation from inside of joints between pipe also underwater with diameters between 1 m and about 3 m.

Supply and laying of barriers anti-pollution and anti-flowing back systems for sewers with big diameters (from about 0,8 m) (Pipe Bag®).

Project, realization, supply and assistance in the use of specific equipments of relining, inspection and descaling of pipes.

Rehabilitation and regeneration C.I.P.P. of chimneys and smokestacks.





LIVING THE TECNIQUE IN THE IDEAS AND IN THE REALITY ALSO IN ITS OWN HOUSE

The innovative research of our projects is our brand of reliability and competence but for the most quality we have a look at other aspects: not last the «zero impact» of our offices.

Thanks to the innovative system of air-conditioning and heating through geothermic, the special passive insulation of the building and the offices and the system of 25 Kw of solar pannels of last generation, we planned the new building without the connection to gas. Also the electric consumption of all the activities are compensated for the zero energetic balance over the year.



LIVING THE CHALLENGE TOGETHER WITH THE SURROUNDING

From over 10 years we are the only sponsor of the athletics team of Novate Milanese, the town in which we live. This historic young reality gives us huge satisfactions with some athletes blossomed for play in our «Polisportiva Novate» and then arrive at other teams with excellent results. Till be able to support our athletes in the world class, in the national championship and waiting for the Olimpic Games. Very rarely a small young situation obtains so exciting and durable successes.



Idroambiente born from the union of three founder partners around the realization of a revolutionary prototype of videocamera for the CCTV inspection of deep wells for water

1991

Idroambiente patented the system Well-Loc for the localised rehabilitation of deep wells for drinkable water. It started the rehabilitation activity of breaks and holes in the jacket of wells for water

1994

Idroambiente became partner of Italcogim S.p.A. that was dealer for Italy of Kanal Mueller Gruppe GmbH: at that moment leader of the relining market in Germany

1997

Idroambiente bought the relining branch of Italcogim S.p.A. and closed the collaboration with K.M.G. in the meantime Idroambiente has for some years the 80% of the wells videoinspection market in Italy

1998

Idroambiente bought the patent for Italy and the equipment "phoenix" for the C.I.P.P. relining through air and steam. All the activities through water will be given always to a third party

2000



Realization of the first relining C.I.P.P. system air-steam entirely projected by Idroambiente. It has been accepted the international patent of three improvement on the C.I.P.P. rehabilitation system air-steam

2001

Inauguration of the offices in Bollate. It started the collaboration with key suppliers with which it is possible to start the development of update and technical independent improvements system as "Phoenix"

2003

Idroambiente started the collaboration of technical optimization of the relining C.I.P.P. system of chimneys. We started the relining works of chimneys.

2007



Inauguration of our new offices in Novate Milanese. It has been accepted the international patent of Idroambiente system for the ending of C.I.P.P. liner for water pipes in pressure. Realization advanced system of C.I.P.P.

2011



A technical member of Idroambiente has been accepted at the *International Technical Table ISO* for the rules of relining as unique (as well as first) Italian delegate. A member of Idroambiente has been elected as supervisor of the Relining permanent Technical Committee of the Italian Association Trenchless Technology

2014

Start up of RAPL relining with the system developed internally. We have been realised about 2300 mq of structural covering in hydraulic tunnels and barrel valut drain pipes

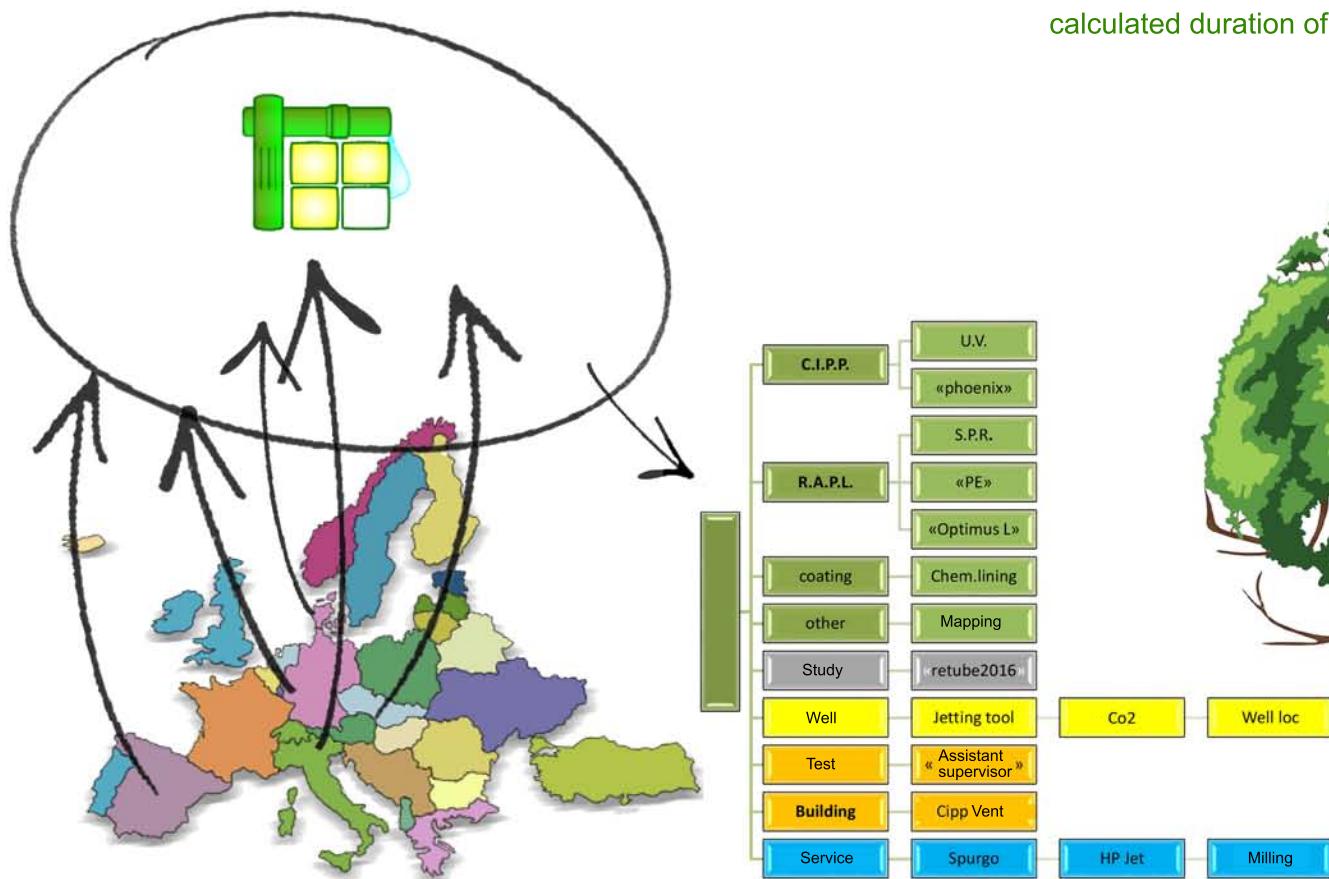
2015



IDROAMBIENTE IS ALSO A SYNERGY WITH MANY INTERNATIONAL PARTNERS

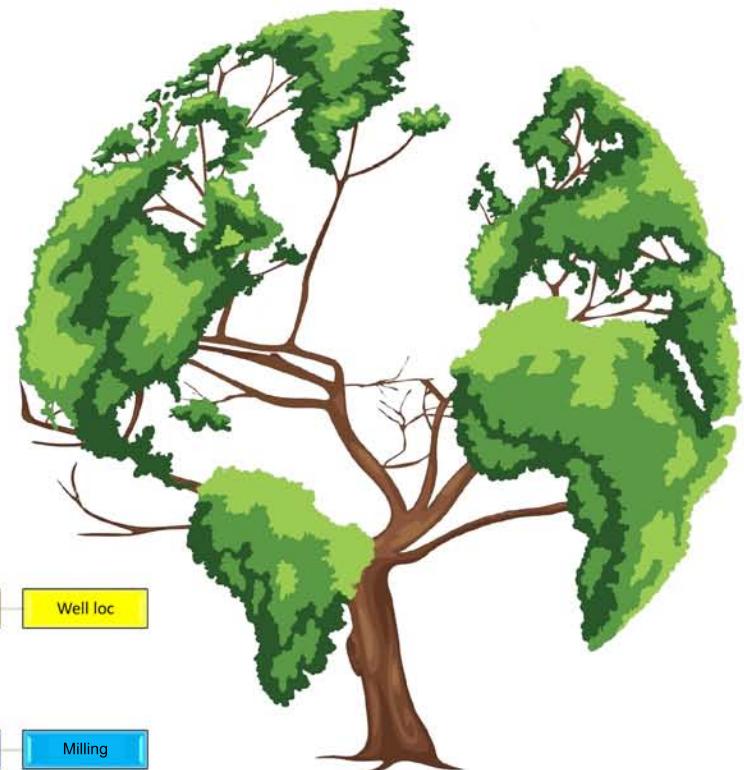
Based to the project and the technology to use we are able to realise big synergies with many relining European industrial groups.

In this way we are able to work abroad with projects and executions of every size with all the technologies available on the market.



TRENCHLESS IS A SYNONYM OF «ZERO» IMPACT

All the trenchless works and in particular the renovation of existing hydraulic sewers have a very low social impact (traffic, duration, time of disruption, reduction of 80% of injury on the site), environmental (low energetic consumption and so polluting emission), economical (low costs, low risks for the other subservices). The trenchless works of pipe renovation through the C.I.P.P. system following the international rules ISO have a calculated duration of minimum 50 years.





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