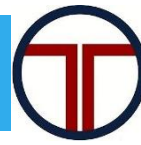




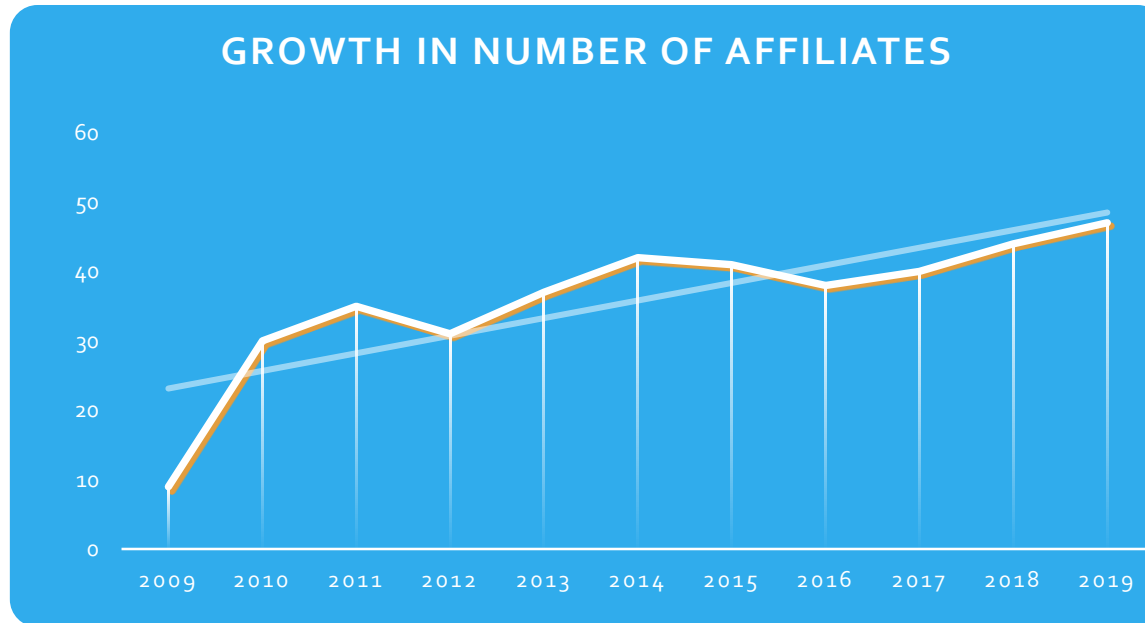
COLOMBIAN TRENCHLESS MARKET OUTLOOK

ARLEX TORO
CISTT EXECUTIVE DIRECTOR

WHO ARE CISTT



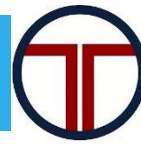
CISTT is the COLOMBIAN SOCIETY FOR TRENCHLESS TECHNOLOGY since 2009



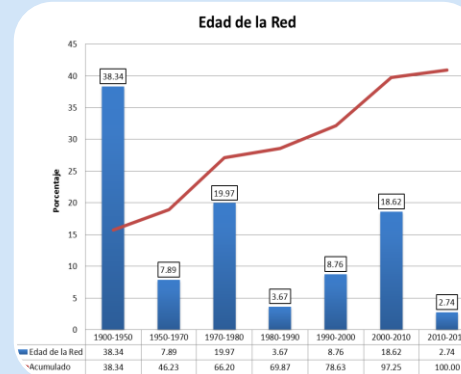
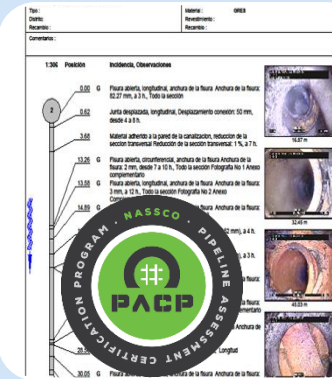
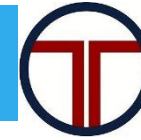
ALLIES



WHERE IS CISTT



THE CHALLENGES FACING COLOMBIA

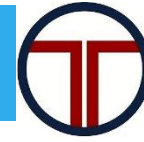


1. Data Collection & Information Management of Buried Infrastructure for correct decision-making models and asset management activities

2. Rehabilitation of existing networks that have more than 50 -70 years already installed and starting to fail

3. Construction of new utility networks and services to attend densification of cities

THE CHALLENGES FACING COLOMBIA



4. Relocation of existing networks for building underground infrastructure such as subway transportation

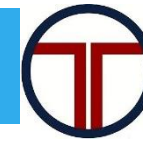


5. Burying electrical networks and communications (now they are on the surface)



6. Maintenance of gas networks and installation of new networks between cities.

ALIGN THE MARKET TOWARDS TRENCHLESS

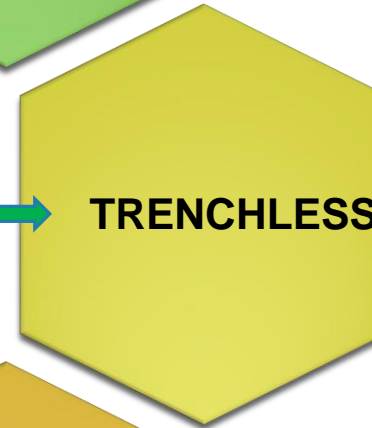
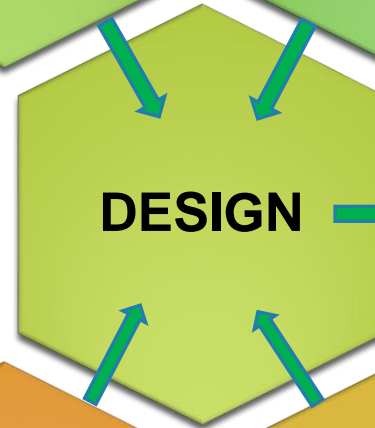


1. Leaks.
2. Territorial Arrangement Planning.
3. Community.



Specific Trenchless courses of economical benefits

Courses, Seminars, Conferences, Exhibition, Books.

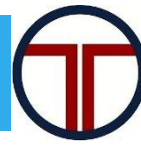


1. Pipeline inventory, status and location.
2. Level of service.
3. Program.



Machines, pipes, methods

DECISION MAKING



Open Cut

Trenchless

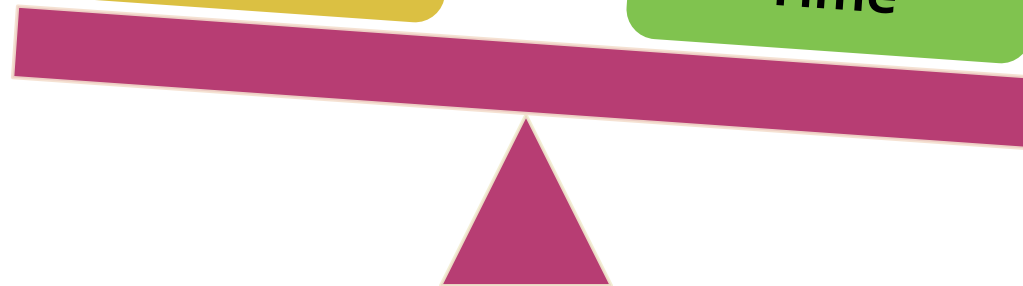
Place of
execution

Costs

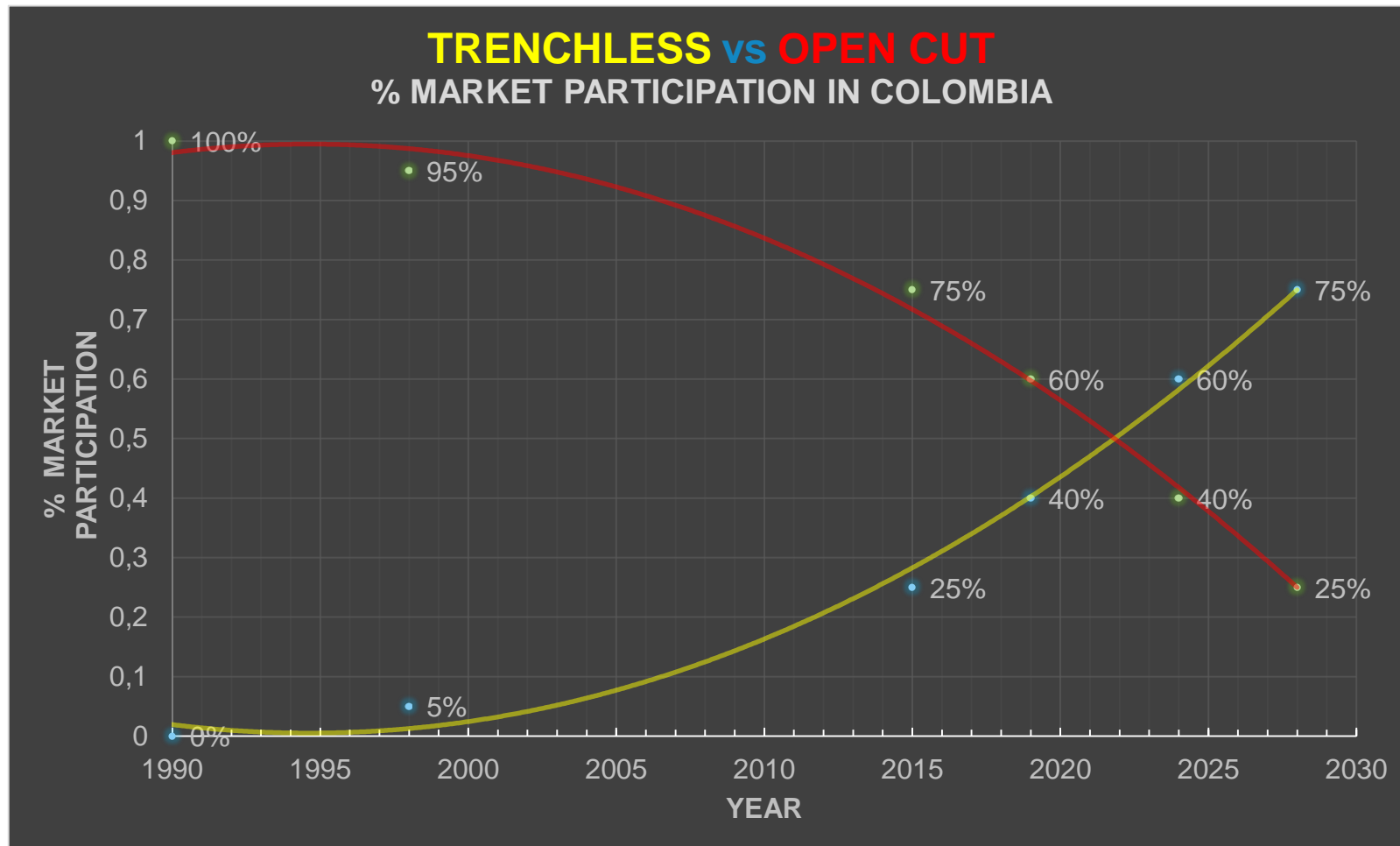
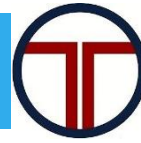
Community

Place of
execution

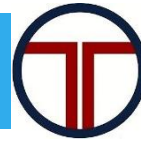
Execution
Time



TIMELINE FOR TRENCHLESS



NEXT STEP



DESIGN COURSE FOR TRENCHLESS TECHNOLOGIES

STABILITY

BURIED ASSET MANAGEMENT

OPPORTUNITY

PREVENTION OF UNDERGRADED SYSTEM ACCIDENTS

SAFETY

TRENCHLESS FOR TEACHERS AND OPERATORS

FUTURE

**VERIFY THAT TRENCHLESS BENEFITS PROMISES ARE
FULFILLED**

TRUST

**LATINAMERICAN Spanish SOCIETY FOR TRENCHLESS
TECHNOLOGY – LATAMsSTT**

GROWTH

NEXT STEP

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