

# The Road to Success





# The **Road** to **Success**



## **IPLOCA's Novel Construction Initiative Sessions**

### An “open forum” to stimulate innovation

- Members & non-members present their new technologies
- Work groups continue to develop “**The Road to Success**”
- Research projects to be co-funded are selected



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## **IPLOCA's Novel Construction Initiative initial objectives (2004)**

- Get better, safer and environmentally sound installation.
- Improve laying efficiency and standards of large diameter pipelines.

### **The initiative's Group was focused in:**

- Technology innovation
  - Land Train method
  - Mechanized Tie-Ins
  - Other Logistic's Innovative Ideas
- Target → **35%** Cost Reduction



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After a lot of research... it was found too difficult.....!!!!

So, the groups asked themselves two basic questions:

➤ Is Technology the “key driver” for a reduction in the total investment?

or,

➤ Is investment reduction “primarily governed” by Sound Processes?



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## **Revised objectives (2007) and New Mission Statement:**

- Considering the number of pipeline projects which incurred in schedule and cost overruns → a broader perspective was given to the Initiative.
- All phases of the Pipeline Projects were reviewed from Early Developments through Design, Construction and Pre-Commissioning...
- A New Mission was defined...

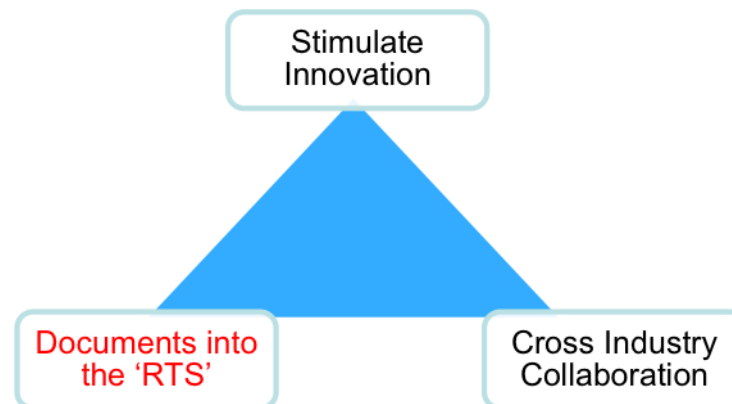


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## Novel Construction Initiative Mission Statement:

“The mission of the Novel Construction Initiative is to stimulate innovation in the technology and processes required for execution of onshore pipeline projects by engaging all contributors to the pipeline construction supply chain. This will be achieved through the provision of leadership and direction to the pipeline industry by IPLOCA to enable development and delivery of improved technology, equipment and supporting processes.”





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## Drivers:

- Integrated Team (\*)
- **Best Front End Loading**
- **VIP's Practices**
- Discipline & Continuity (\*)
- **Best Practices and Control**

(\*) Out of our control

## Our work focused in:

- Solid basic data
- Front end loading steps
- Site factors
- Constructability
- Technology selection
- Clear scope of work
- Contract conditions
- New Technologies
- Project execution plan
- Management of risks & changes
- Process & equipment simplification
- Sound project control
- Logistics, Camps, etc.





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## Multidisciplinary Groups are now integrated by

1. Clients and / or operators
2. Engineering & design companies
3. Contractors
4. Suppliers and service providers
5. Manufacturers





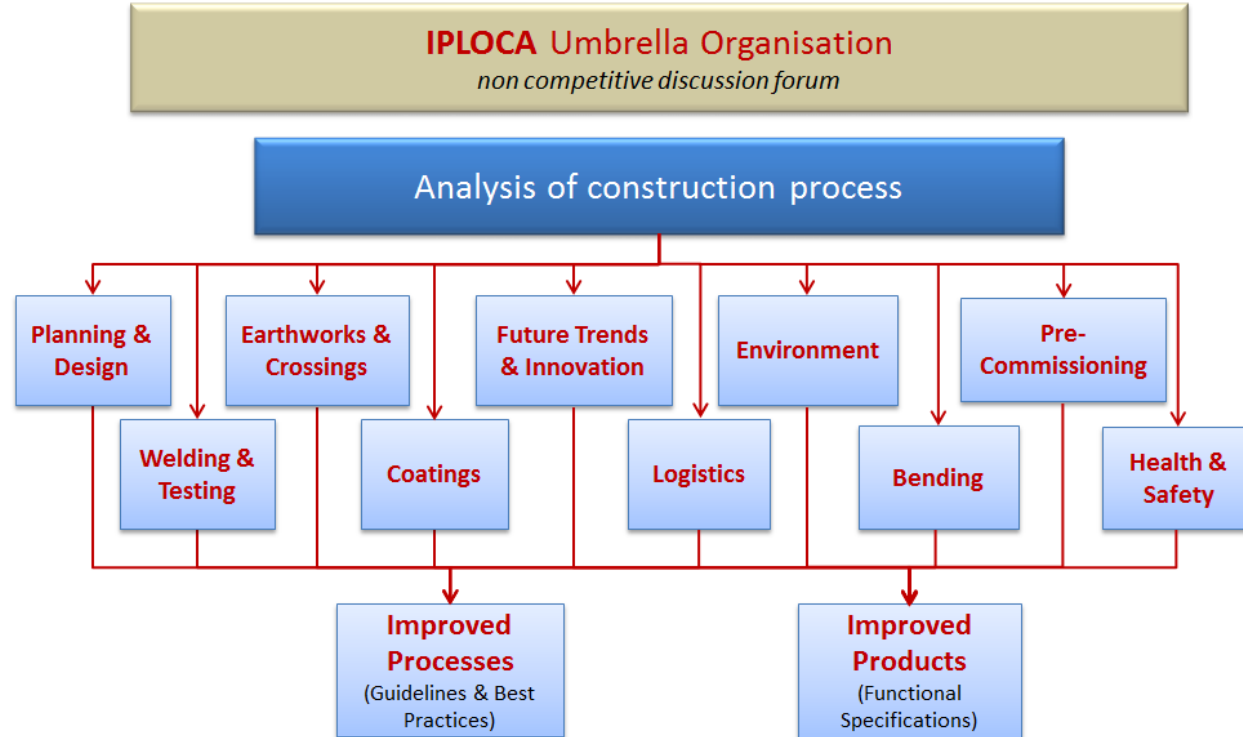
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## Phase V Structure & Working Groups

### IPLOCA Novel Construction Initiative

Improving the Pipeline Construction Process



Initiative supported by Engineers & Contractors / Clients / Manufacturers



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## The Resulting Document

Phase I	Initiate the collaboration and produce the 1st Edition of the “Road to Success” (RTS)	Completed
Phase II	Review the RTS, improve consistency, quality and presentation of the content. Collaborate on new chapters and release 2 <sup>nd</sup> Edition	Completed
Phase III	Further collaboration, develop new chapters and improve existing ones. Re-involve clients	Completed
Phase IV	Complete work being developed. Continue with research projects. Promote New Technology.	Completed
Phase V	Continue with new work and continue developing the new App	On-going



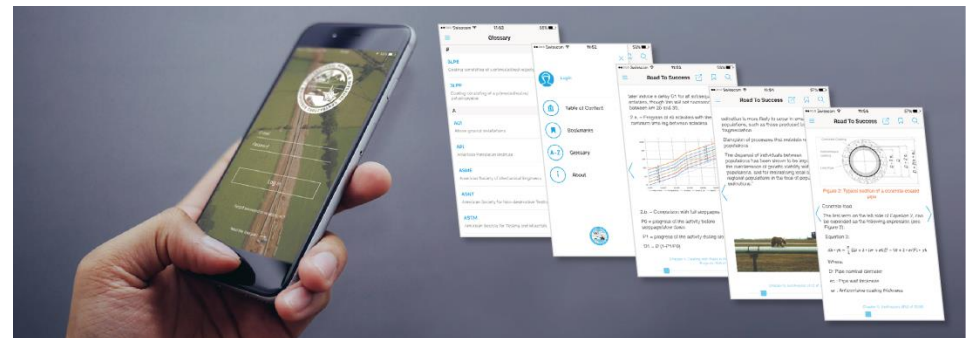
# The Road to Success



## The Road to Success:

### Contents

1. Health and Safety in Pipeline Projects
2. Development Phases of a Pipeline Project
3. The Baseline of a Construction Contract
4. Dealing with Risks in Pipeline Projects
5. Planning and Design
6. Earthworks
7. Crossings
8. Logistics
9. Welding
10. Non-Destructive Tests
11. Coatings
12. Pipelines and the Environment
13. New Trends and Innovation
14. Bending
15. Hydrostatic Testing & Precommissioning
16. Research Projects



4<sup>th</sup> Edition February 2017 as a mobile app



# The **Road** to **Success**



**The Road to Success is available only to  
IPLOCA members as a mobile app**



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**Comments and Suggestions  
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