



PREMIUM PROTECTOR
RELIABLE, RIG-READY.

 **PREMIUM** PROTECTOR
RELIABLE, RIG-READY.



The protectors that make operations easier

Our mission:

Make work easier for personal involved
in pipe logistic and rig operations.
Guarantee reliability of logistic data.

- Easy inventory without handling
- Geo localization & tracking

=> SMART PROTECTOR



187 Pipes
5" BUTTRESS

Total length

1761,63 m



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Make work easier for personal involved
in pipe logistic and rig operations.
Guarantee reliability of logistic data.



- Transparent protector for dope free connections
- RIG READY

=> PREMIUM PROTECTOR



PREMIUM PROTECTOR

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PREMIUM PROTECTOR	
PREMIUM PROTECTOR technical data sheet	
PART NO. - 153353	
Version History and location of user and release and revision release date (see page 1)	
Mechanical properties	
	Value Details
Axial Charpy impact resistance	100% 100% 100% 100%
Angular impact resistance	100% 100% 100% 100%
Strapping test (see page 1)	100% 100% 100% 100%
Secure and release test	100% 100% 100% 100%
Material properties	
	Value Details
Dimensional stability	100% 100% 100% 100%
Dimension test	100% 100% 100% 100%
Specific properties	
	Value Details
Sealing	100% 100%
Sealing inspection	100% 100%
Weld	100% 100%
Equipment properties	
By location	100% 100%
Manufacturer	100% 100%
Customer requirements	
These values are subject to change without notice.	

- API 5CT certified:
 - Impact (axial & angular)
 - Wrenching
 - Vibrations
 - Dimensional steadiness
 - Unscrewable with a simple bar



PREMIUM PROTECTOR

RELIABLE, RIG-READY.

.... For all casing / tubing
connection types

Classic

Smart Protector



Dope free

Premium Protector



1. Strong unity between strap & pipe



STRAP SEALED FIRMLY on the pipe



Metal seal



ROBUSTNESS & RESISTANCE
of strap constituent material



*Highly resistant strap
traction & shearing stress*

1. Strong unity between strap & pipe



1. Strong unity between strap & pipe

... in a harsh environment :

Rain

Difficult access

Dirt

High frictions

Corroded surfaces



1. Strong unity between strap & pipe



2. Allows all usual operations performed on the pipe and its protectors



2. Allows all usual operations performed on the pipe and its protectors



2. Allows all usual operations performed on the pipe and its protectors



1) Unscrew protector



2) Remove connection grease



3) Remove protector grease



4) Clean pipe



5) Control connection



6) Measure pipe



7) Calibrate



8) Re-lubricate



9) Screw protector



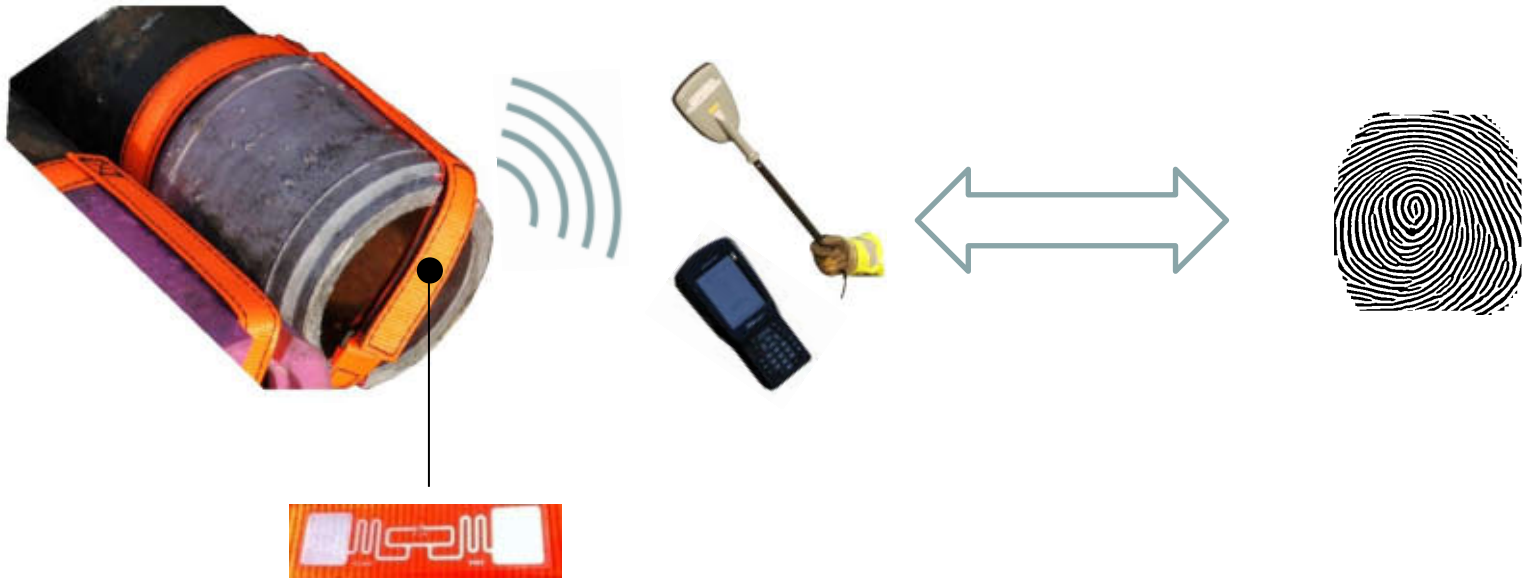
3. Unique identifier



Puce RFID

3. Unique identifier

- Each pipe is identified in a unique way with a RFID chip



3. Unique identifier

- Witness seal guarantees that Smart Protector & its chip never left the pipe body



3. Unique identifier



VAM TOP 4" 1/2

Rang de descente

1

Longueur

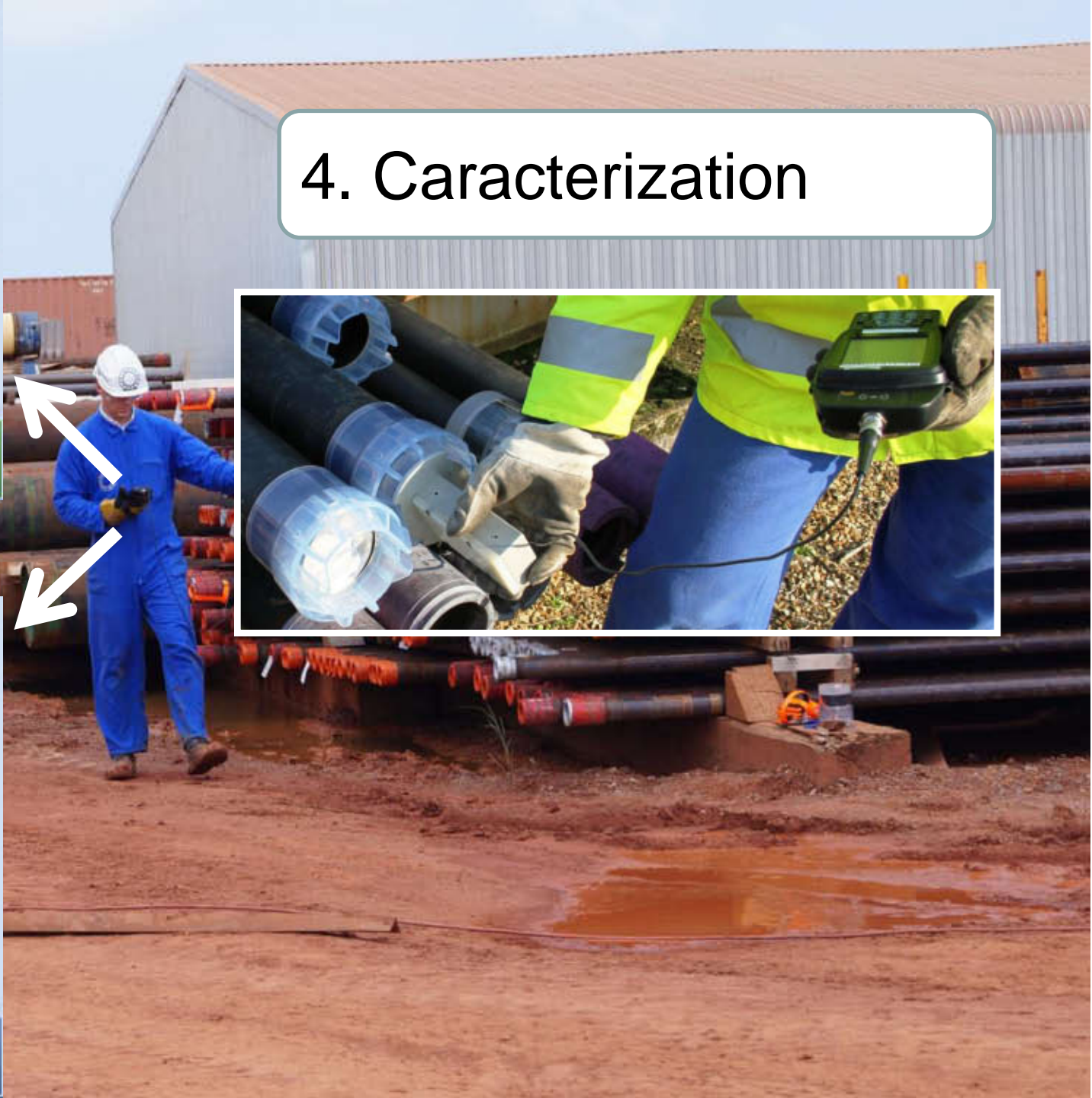
9.11 m

Fermer Détails

Référence : 1
Type : Tubing pipe
Rang desc. : 1
Lenght (m) : 9.11 m
Size (OD) : 4.5 "
Threading : Vam Top
Supplier : Vallourec
Mill : VMOGF
Lot : 492481
Weight : 10.5 lb/ft
Control : Ultrasonic
Rolling : 734 Tuboscope
Heat : Trempe + revenu

Retour

4. Characterization

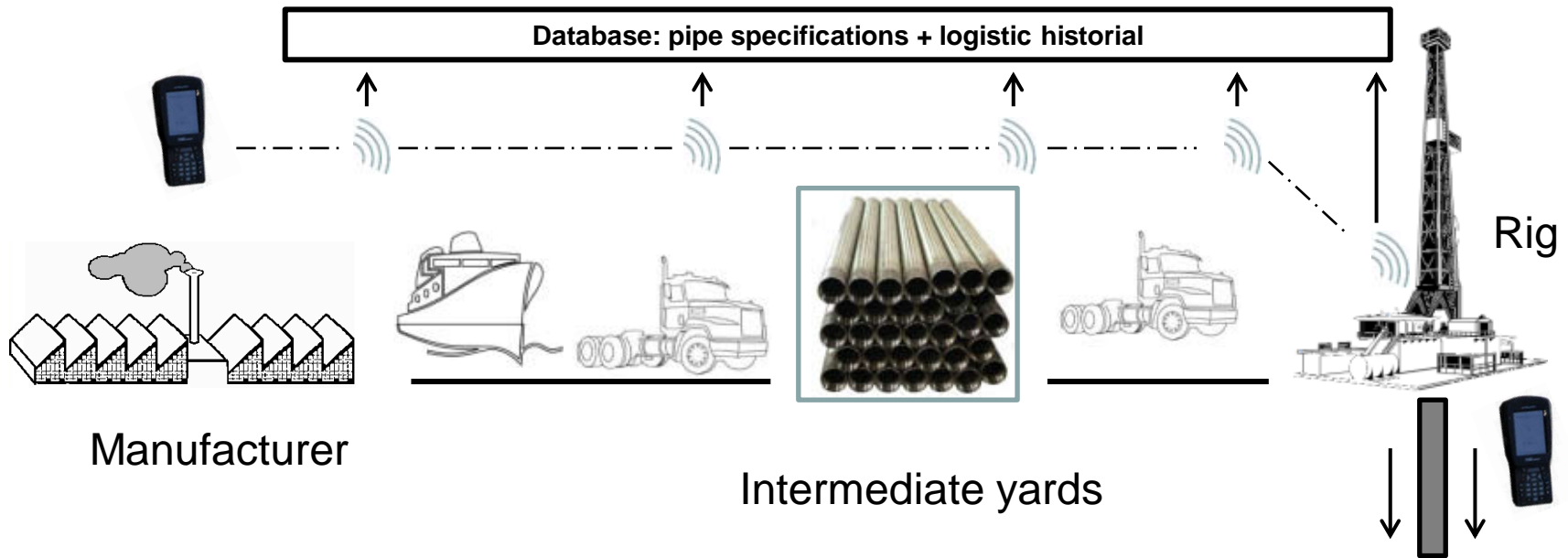


5. Traceability



5. Traceability

- From pipe manufacturer to the well: places, dates and quality track.



5. Traceability



5. Traceability



6. Hardware

- RFID readers

Reader RFID

Short range
(unique pipe identifier)



Medium range
Reader «Racket»
Couple of meters range



Large range
Premium Box
(Yard, barrier, rig floor)



6. Hardware



6. Hardware



6. Hardware



7. Software

- Remote access from mobile terminal or PC

Rack 1		9 (82,710 m)
Rank of descent	Lenght	
1	9.11	
9	9.27	
8	9.25	
7	9.23	
6	9.21	

Close CLEAR

Welcome Jean Cazaux

1 - Single pipe

2 - Inventory

3 - Tally

Welcome Jean Cazaux

1 - Reading of pipe data

2 - Control

Return

Reference : 1
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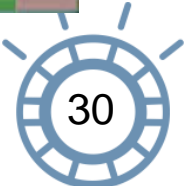
Return

VAM TOP 4" 1/2

Laser measurement
9,10 m

Scan of the protector
9,11 m

Close Lenght control Revise



8. Applications



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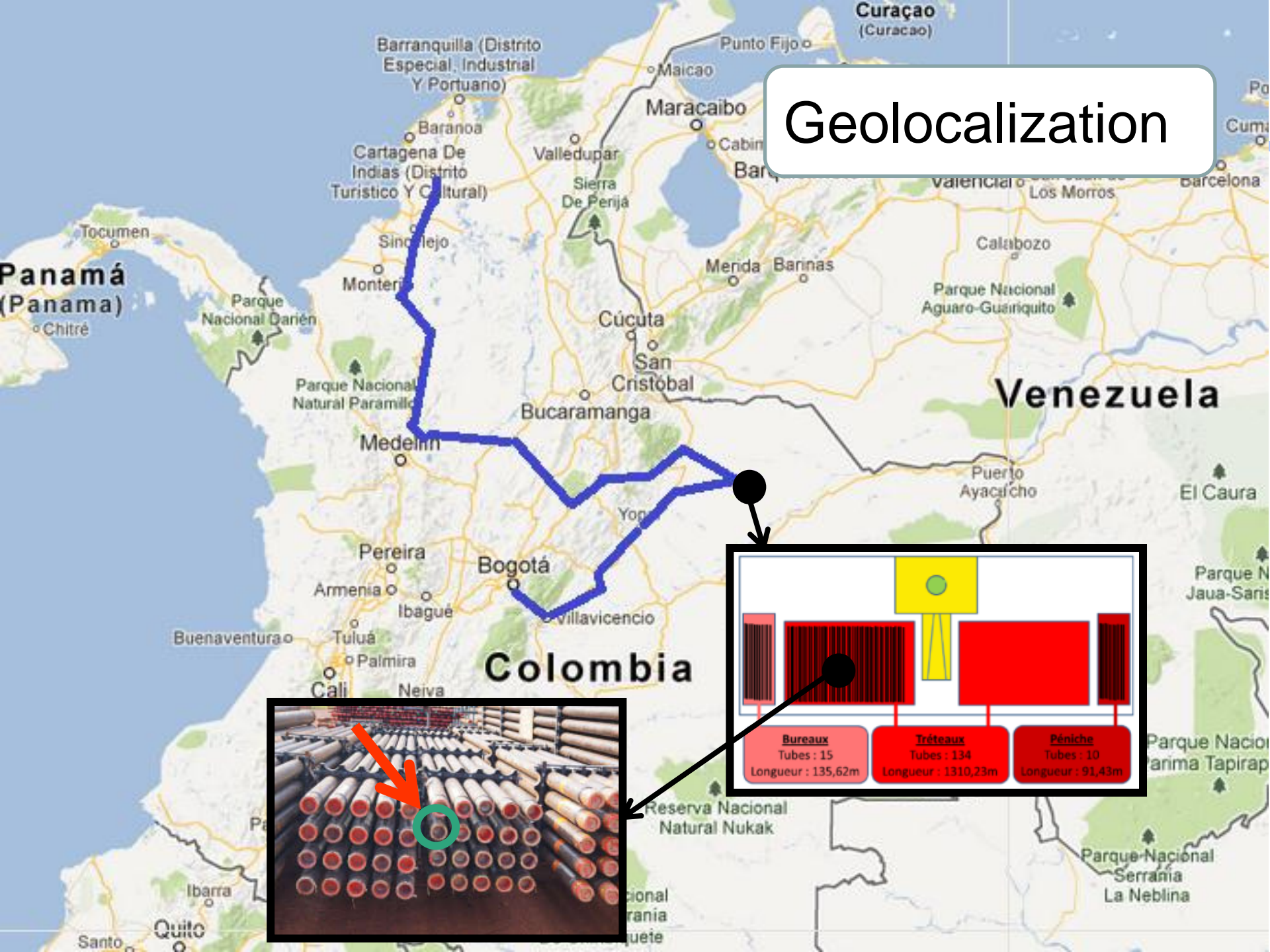
Inventory

- Each pipe is identified in a unique way through its RFID chip
 - Inventory always right, unique and multi-locations
 - No handling required, instantaneous
 - RFID barriers keep operator informed of all pipes currently present on site, in order to make easy the inventory update

Inventory



Geolocalization



Tally automatic generation



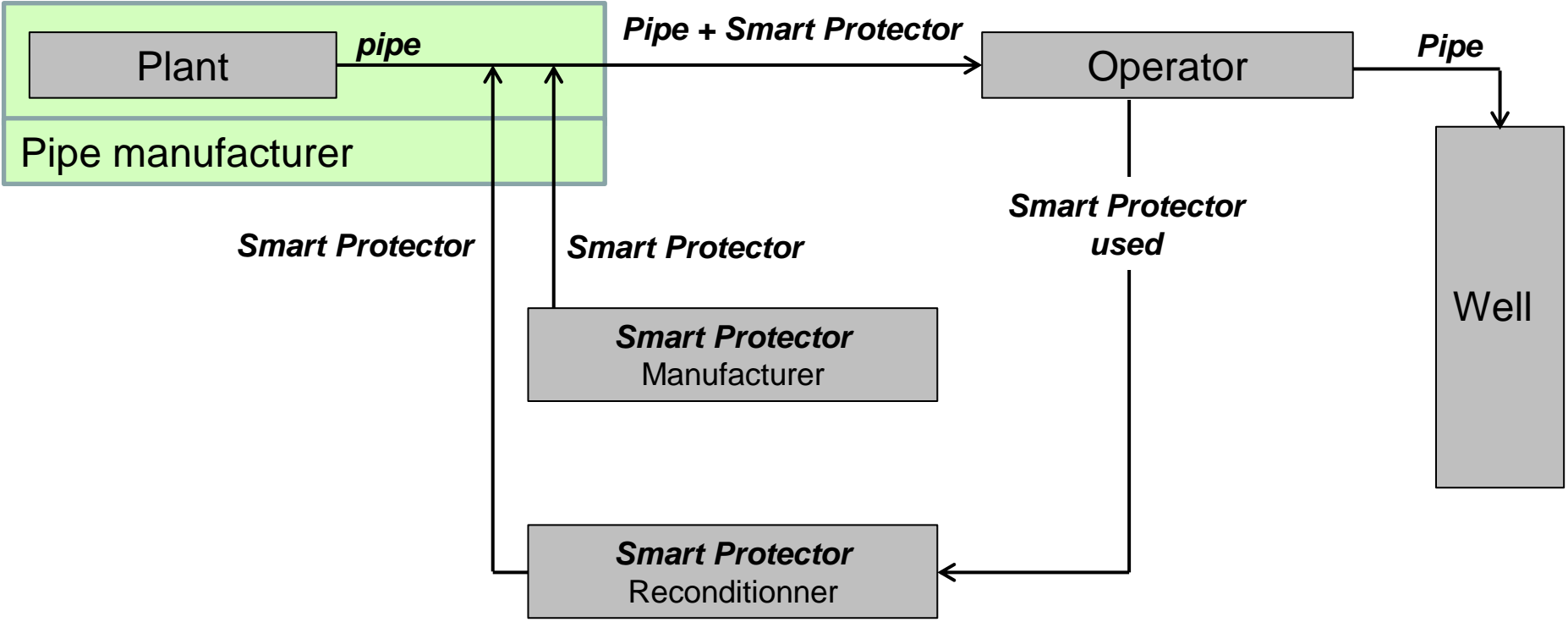
Rang		Cumul	Longueur	Profondeur
10	VAM TOP 4"1/2	94,84	9,73	5,16
9	VAM TOP 4"1/2	85,11	9,41	14,89
8	VAM TOP 4"1/2	75,70	9,53	24,30
7	VAM TOP 4"1/2	66,17	9,57	33,83
6	VAM TOP 4"1/2	56,60	9,55	43,40
5	VAM TOP 4"1/2	47,05	9,62	52,95
4	VAM TOP 4"1/2	37,43	8,79	62,57
3	VAM TOP 4"1/2	28,64	9,30	71,36
2	VAM TOP 4"1/2	19,34	9,71	80,66
1	VAM TOP 4"1/2	9,63	9,63	90,37
Fermer		Info. puit		Profondeur : 100,00 m
				Nombre de tubes : 10

9. Compatibility

Premium Protector database is compatible with all logistic or inventory softwares (SAP, Excel, etc.) used by the customer.



10. Product logistic



11. In a medium term...



12. HSE



Premium Protector helps working in a safe environment.



Smart Protector is totally reusable and recyclable.



RIG READY !



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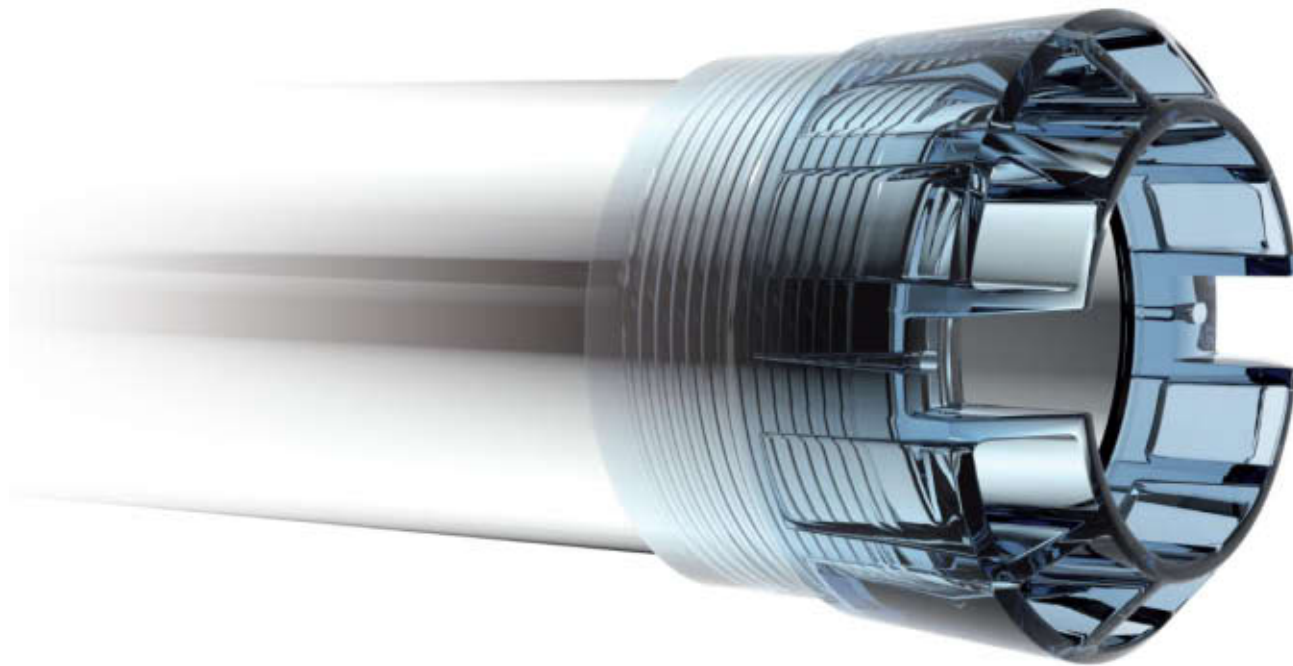


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Thanks for your attention !



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