

## Pipelines and plants in Venice and the lagoon

Investor Day Site Visit

November 6, 2018







**PAOLO BACCHETTA** 













Chiesa di San Giobbe 💬 😭

SR11

Pia, IT - Corfu, GR

Venezia Tronchetto (Piazzale People Mover)

- Rabac, HR

### Isola delle Tresse VIEW FROM THE SEA

Isola delle Tresse Stazione di Venezia Santa Lucia

SANTA CROCE

SR11

Chiesa di

Ponte d

🛛 Chiesa di San Sebastiano 🚇



Pola, HR - Venezia, IT

Chiesa di San Giobbe 🖤 👩

Venezia Tronchetto (Piazzale People Mover) TRONCHETTO

Stazione di Venezia Santa Lucia 🖽

Isola delle Tresse

Rabac, HR

SANTA CROCE

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Ponte d

Chiesa di

Chiesa di San Sebastiano 🗣

FILTERS AND EXCHANGERS SECTION



Pola, HR - Venezia, IT



VALVES SECTION

SAFETY



Chiesa d

esa di San Sebastiano 🖤







GAS METERING AND ODORISING SECTION

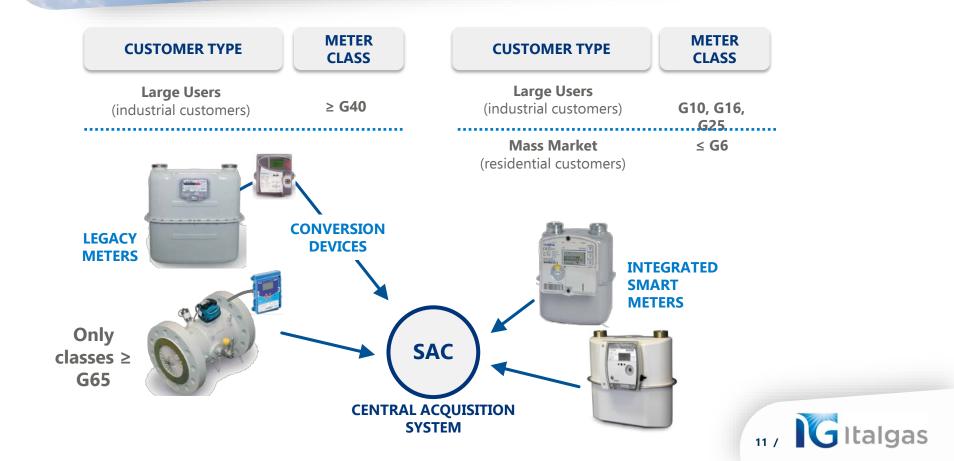


zia Tronchetto





### Smart meters



### Smart meters









### Innovative Laser Technology

Main advantages:

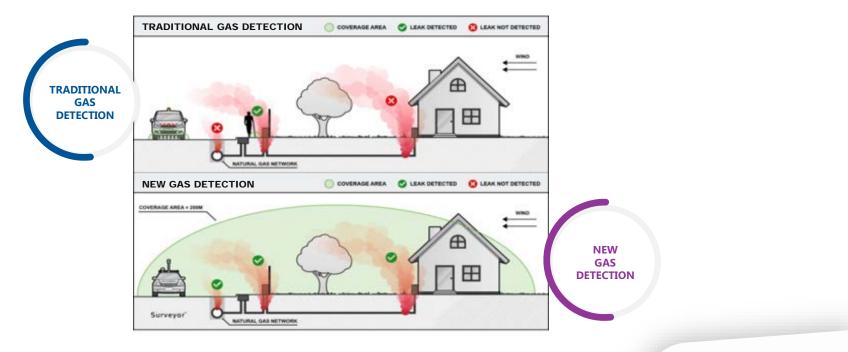
- Laser absorption spectroscopy technology
- Sensitive not only to methane (CH4) but also to ethane (C4H6) (can identify biogenic natural gas for example coming from sewers or pools)
- Much higher sensitivity (parts per billion = µg/kg) 1,000 times higher than current laser systems (ppm: parts per million = mg/kg)
- Dispersion can be detected even at about 150-200 m depending on wind speed
- The vehicle can travel at the same speed as other vehicles without obstructing traffic





### New leak detection technology

#### Comparison of traditional and innovative technology (volume investigated in green)





### Innovative Laser Technology – Vehicle-based and pedestrian search



### Innovative Laser Technology – Vehicle-based search Vehicle equipment

Italgas

**ANEMOMETER** 





**INERTIAL GPS** 

GPS ANTENNA

### — Innovative Laser Technology– Layout

Gaps-TORINO ID23705 BEINASCO ...

WIT WIND LTE

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Seguire

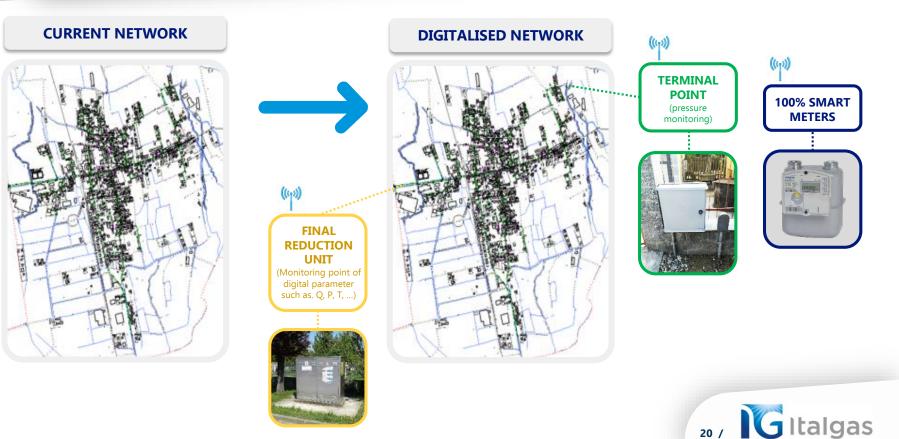
munitalgasit







### Network digitization



### Via Vian – Mestre System

Via Circonv



Bosco dell'Osellino

Lia Amerias

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()))

ALE INFLAMABLE



SR14

### Via Vian – Mestre System

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Via Vian - MESTRE

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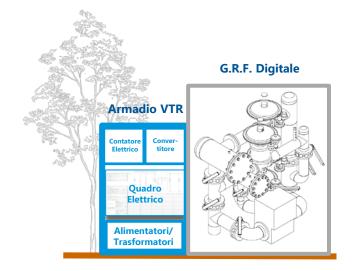


**SR14** 

ALTINICO ADIENALE

And States

# 2019 Digital Final Reduction Unit: outline of new single cabinet systems









### Gas pipelines in Venice



Chiesa di San Simeone Piccolo



### Gas pipelines in Venice





### Gas pipelines in Venice

Camp Leon



### • Gas pipelines in Venice

Riva degli Schiavoni ANCHOR BLOCKS (TO AVOID FLOATING)

ezzo delle Prigioni

onte della Paglia

S. Zaccaria (Danieli) "F"

Riva de

S. Zaccaria (Jolanda) "D" 🖪

2 (stagionale)

104 CHANT WHENT

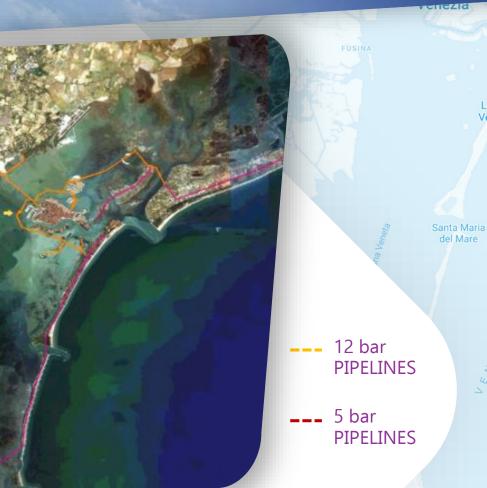






## - The lagoon pipeline

A4





Lido Lido di Venezia

VE

## — The lagoon pipeline

Mira

Concho

guns ..

LAYING SPECIFIC EQUIPMENT

go

SS516



### The lagoon pipeline

Mira

Piove di Sacco

jo

SS516

Arzergrande

Pontelongo

una Venet,

Lido

Lido

Vene

Santa Maria del Mare

V.F.

LAYING

SPECIFIC

EQUIPMENT

### The lagoon pipeline

Arzer

Pontelongo

Candiana

Mira

Valli

Civé

A4

Ponte Sa Nicolò

salserugo

ssa 'ana Bovolenta

Arre

Santa Maria del Mare

VEN

Chioggia

Lido ( Venez

### LAYING SPECIFIC EQUIPMENT



### Signalling valves and couplings

A4



EIIEZId

34 / Gitalgas

## - Works in the lagoon



### - Works in the lagoon



### Tomorrow visit path





