PICARRO

2023 SPRING PICARRO COMMUNITY CONFERENCE



FEB 27 - MAR 1 2023 // SAN DIEGO CALIFORNIA

Welcome!

Tuesday, February 28, 2023	Tuesda	, Februa	ry 28, 202	3
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	Tuesday, February 28, 2023	
08:45	Keynote Speaker Alexandre Balkanski, CEO, Picarro	Ballroom Salon A
09:30	Product update: Product Roadmap, Pcubed and more	Ballroom Salon A
10:30	Break	Ballroom Foyer
10:45	Panel 1: Expert Talks - Emissions Measurement and Reduction	Ballroom Salon A
11:45	Lunch	Tidelands Ballroom, 1st Floor
01:00	Group Photo	In front of hotel by car
01:15	Panel 2: NextGen: A Holistic Approach to Network Assessment	Ballroom Salon A
02:15	Panel 3: Emissions Management: From Measurement to Reduction	Ballroom Salon A
03:15	Break	Ballroom Foyer
03:30	Q&A and User Feedback Open Forum	Ballroom Salon A
06:30	Bus to Ultimate Skybox at Diamond View Tower	Meet in hotel lobby
07:00	Dinner Reception	Ultimate Skybox, Diamond View Tower
	Wednesday, March 1, 2023	
07:00	Breakfast	Tidelands Ballroom, 1st Floor
08:00	Guest Speaker Peter Harcus, General Manager Gas & Water Networks, Jemena	Ballroom Salon A
08:45	Panel 4: Operational and Technological Challenges of Gas Utilities Latin America	Ballroom Salon A
09:45	Break	Ballroom Foyer
10:00	Breakouts	Ballroom Salon A
11:00	Panel 5: Adopting and Scaling AMLD	Ballroom Salon A
12:30	Lunch and networking	Tidelands Ballroom, 1st Floor

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Keynote Speaker



Alexandre Balkanski
Chief Executive Officer
Picarro

Product Update Product Roadmap, P-Cubed and More!



Julien Klein Senior Director, Product Management Picarro

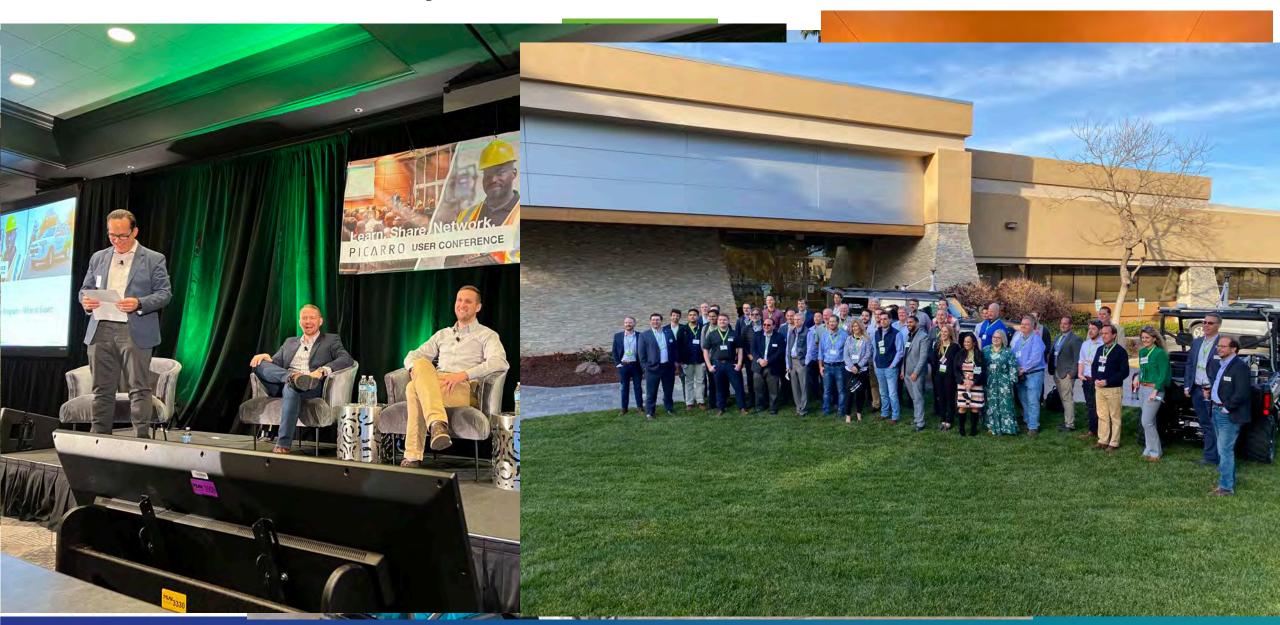


Andrew Kidd Product Manager Picarro



Jacob Cansler
Product Manager
Picarro

1st Picarro Community Conference, March 2022, Santa Clara, California



1st Picarro Community Conference, March 2022, Santa Clara, California



2nd Picarro Community Conference, October 2022, Turin, Italy







2nd Picarro Community Conference, October 2022, Turin, Italy



Welcome to the Community



Community Intro

Welcome to the community! We are so happy you decided to join the conversation. Grab a cup and let's get started.

Learn more



Member Forum

Find out what natural gas leaders are discussing today. Subscribe and comment on conversations that interest you.

Join the Conversation

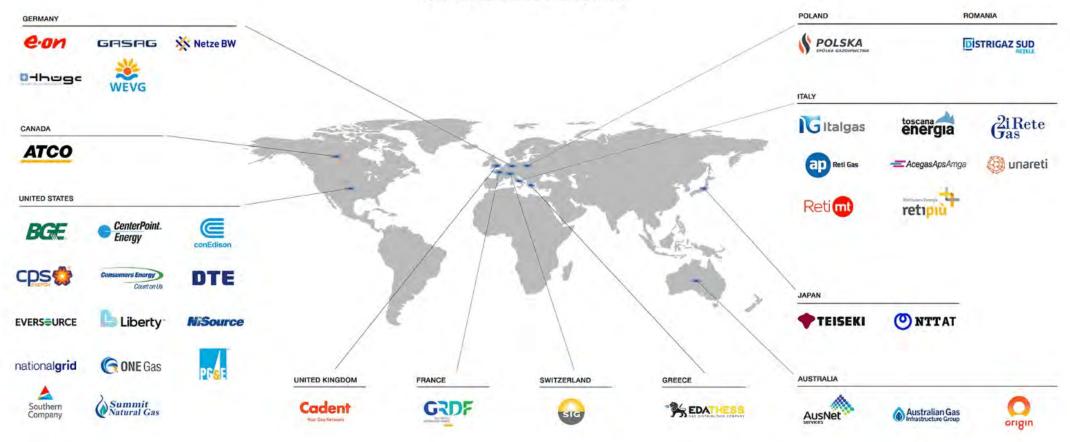


Knowledge Base

Get behind-the-scenes access to critical documentation, implementation guides, videos of our most recent conference, and more.

View Content

Our Customers Worldwide



Proud Members Of

























Product update: Pcubed[®], emissions360[™]and more

Product Management Team

Julien Klein, Andrew Kidd, Jacob Cansler

Our Customers Worldwide



Proud Members Of

























Current Practices and Challenges



Challenges



Emissions Reporting

- Emission factors are outdated, generic, and inaccurate
- EPA EFs tend to overstate actual emissions
- Do not support abatement programs required to reach Net Zero goals

Emissions Reduction

- Limited to pipeline replacement
- Lack of tools to assess effectiveness
- Slow, not actionable in real time

Leak Survey

- Frequency
- Scale
- Cost

Pipeline Replacement

- Sparse historical data for risk models
- How to optimize CapEx
- Dealing with multiple constraints

Asset	Emission Factor (scf/hour/components)			
Population Emission Factors - Distribution Mains, Gas Service				
(Emission Factor is in units of "scf/hour/mile.")				
Unprotected Steel	12.58			
Protected Steel	0.35			
Plastic	1.13			
Cast Iron	27.25			
Population Emission Factors - Distribution Services, Gas Service				
(Emission Factor is in units of "scf/hour/number of services.")				
Unprotected Steel	0.19			
Protected Steel	0.02			
Plastic	0.001			
Copper	0.03			

A Better Way: Direct Methane Measurements





Emissions Reporting

- Accurate and specific to your network.
- Traceable and auditable methodology.
- Compliant with current and upcoming standards and regulations.
- · Unlocks emissions abatement. You can't reduce what you don't measure

Emissions Reduction

- Super Emitter program. Quickly find and repair the largest leaks.
- Technology and methodology enables path to Net Zero.

Leak Survey

- Optimize leak survey programs
- maximize safety, control costs
- maintain compliance.

Pipeline Replacement

- Augment existing risk models with emissions data.
- Optimize multi-year work programs
- Reduce risk and maximize value of asset ownership.



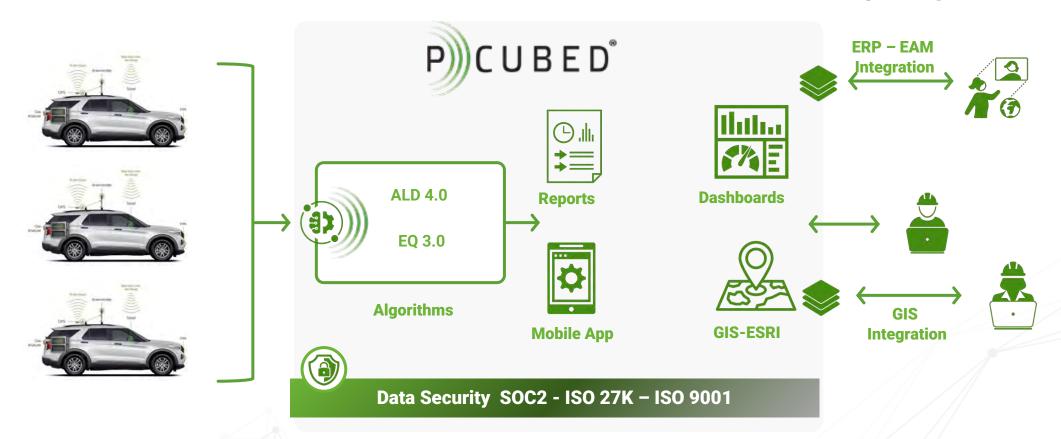
P-Cubed Software and Analytics



Data Collection

Cloud-Hosted Software

Fully Integrated



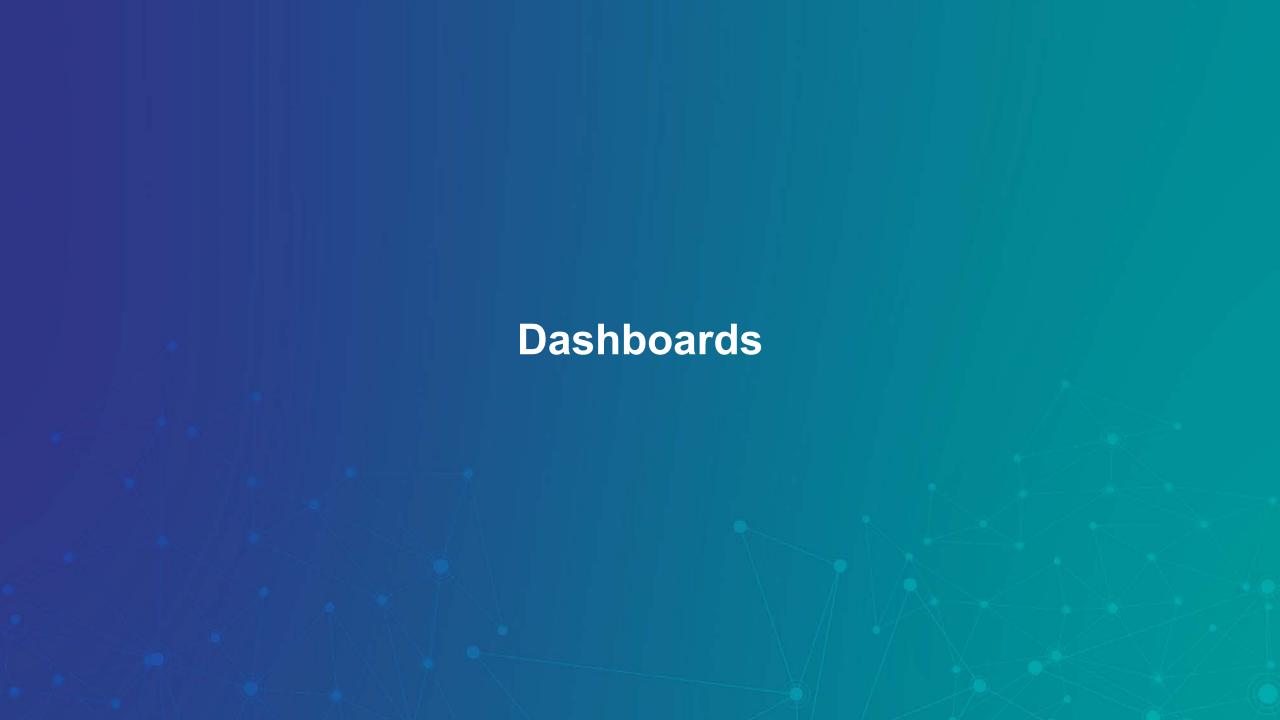
One data set multiple solutions













Challenges

- New Customers <2yrs, 1-3 cars
 - Quantify and track your operations
- Scaling Customers 2-5yrs, 2-10+ cars
 - Optimize your fleet change management
- Established Customers 3-10yrs+, 10-30+ cars
 - Capture new value from your dataset

Solution

- One platform, multiple dashboards to satisfy the needs of all customers (1 car to 30+ cars)
- Ability to draw data from multiple locations
- Robust enough to provide dynamic and reliable dashboards to all customers
- Flexible enough to provide customized dashboards to solve unique problems
- Embeddable to P-Cubed
- Accessible by all P-Cubed users

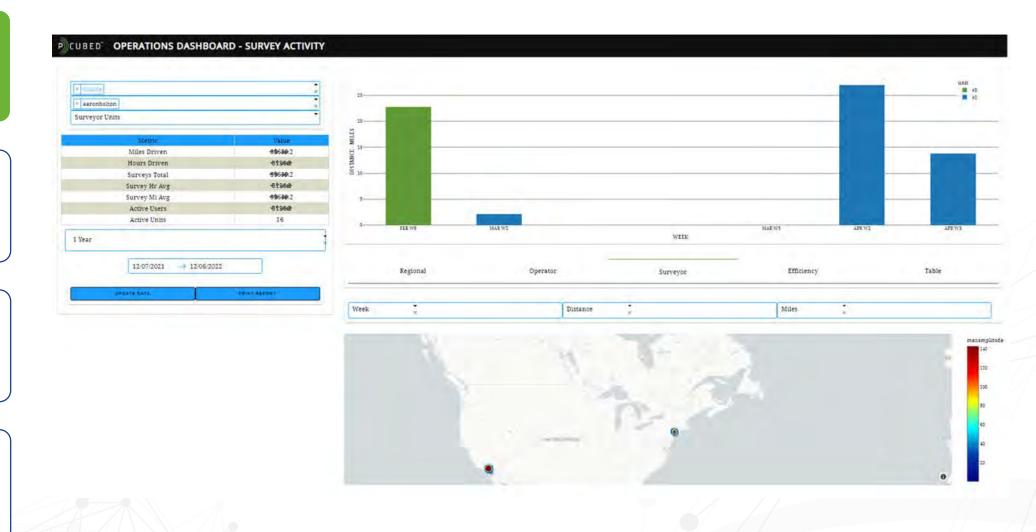


Platform: P-Cubed Dashboards

Satisfies requirements for multiple data locations, robustness, and customizability

Embedded directly in P-Cubed

Accessible by all P-Cubed users

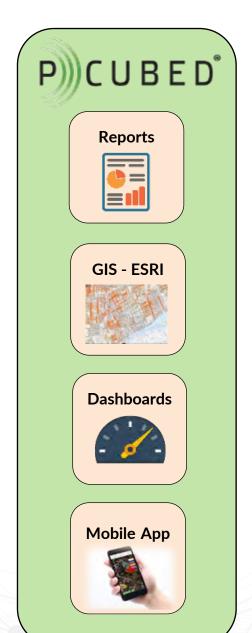


Roadmap

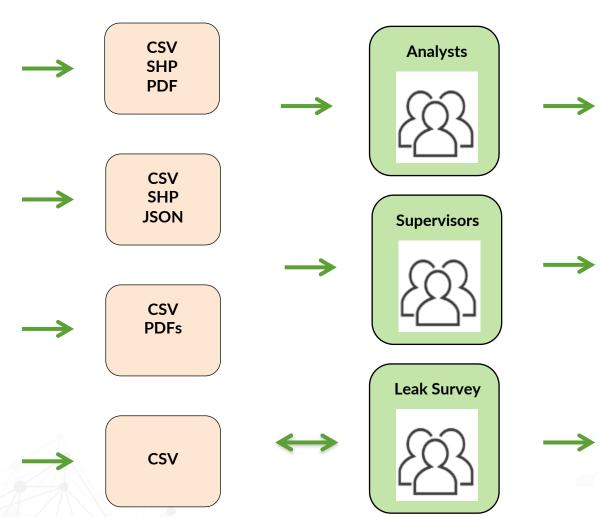
Development Roadmap

- Operations Dashboards (Q4/22)
 - Time and mileage-based survey-level metrics to support new customer goal tracking
 - Limited report-level features (FOV and pipeline mileage coverages)
- Emissions Dashboards (Q1/23)
 - Super Emitter program monitoring (including comparison to Super Emitter plans of record)
 - Total system emissions dashboards (closely tied to emissions360)
- Reporting Dashboards (1H/23)
 - Services coverage, LISA density/count, comparison to plan of record (mileage/service/grid/plat-based)
- Investigations Dashboards (2H/23)
 - Realtime overview of metrics related to investigations pending investigations, in-progress, completed
 - Investigation results filtered by time, region, investigator, more
 - Leak backlog visualization
- Custom Dashboards
 - Custom-built dashboards to support customer-specific projects and initiatives

Enterprise Software Integration P-Cubed OTA

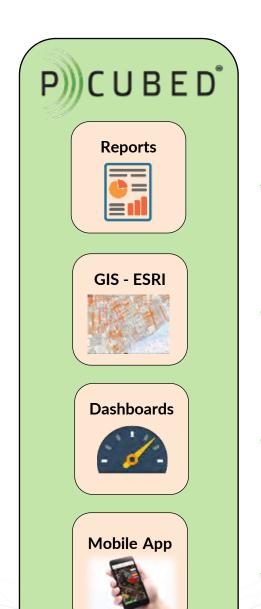


P-Cubed Customer Data Flow

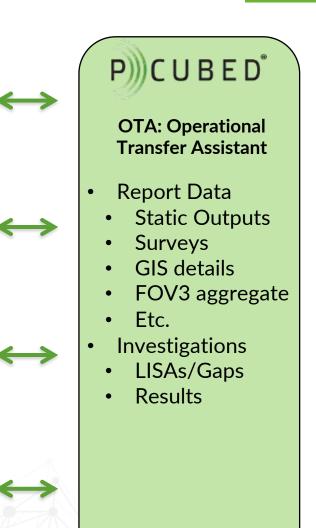


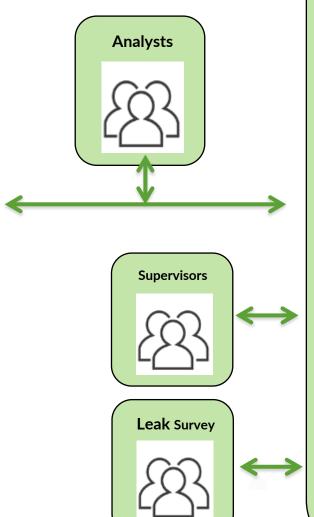
Customer Enterprise Software

- SAP
- Maximo
- Fulcrum
- PowerBI
- ESRI
- Report Details
 - Date/User
 - FOV Coverage
 - Breadcrumb
- Indications
- Investigations
 - Location/LISA
 - Status
 - Results



P-Cubed OTA Customer Data Flow





Customer Enterprise Software

- SAP
- Maximo
- Fulcrum
- PowerBI
- ESRI
 - Report Details
 - Date/User
 - FOV Coverage
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 - Investigations
 - Location/LISA
 - Status
 - Results

Enterprise Software Integrations

Q4/22 - Q2/23

Q1/23 -Q3/23

2H/23 - 2024+

Phase 1

- Creation of P-Cubed OTA Platform
- Enables API access to P-Cubed outputs
- The precursor to all Phase 2 engagement

Phase 2

- Customer-specific integrations
- Targeting (but not limited to)
 SAP/Maximo
- Engagement/Requirements can overlap with Phase 1 timeline

Phase 3

- Future development of software integrations
- Repair/construction data integration

Emissions360TM



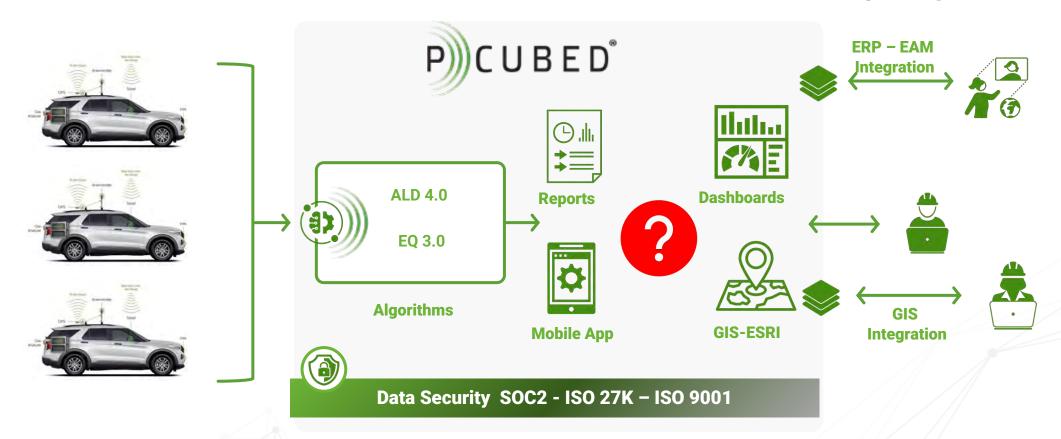
The Missing Link



Data Collection

Cloud-Hosted Software

Fully Integrated



One data set multiple solutions









What is emissions 360TM?

A new central hub for operators to manage Emissions measurements, quantification, reporting and abatement

Reporting

- Streamline Reporting and emissions management for customers.
- Cover various reporting schemas as they stand traditionally and with Picarro data.

Quantification

- The gold standard for implementing AMLD data into emissions inventories.
- Engineering calculations for baseline measurements.
- Advanced statical algorithms quantify and recognize uncertainties.

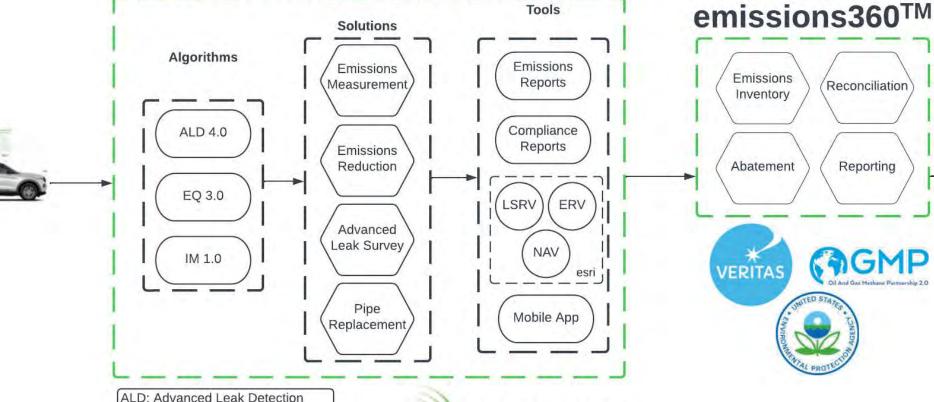
Abatement

- Provide tools for industry to properly plan and recognize abatement / Super Emitter strategies.
- Set goals and track progress on your reduction pathway.

Education

- Inform and educate on measurement-based Emissions inventory and AMLD.
 - Abatement
 - · Reporting
 - Quantification
 - Sampling Strategy

PICARRO



EQ: Emissions Quantification

IM: Integrity Management

LSRV: Leask Survey Report Viewer

ERV: Emissions Report Viewer

NAV: Network Assesment Viewer



- **Extension of PCubed**
- Absorb GIS and drive report data

Reconciliation

Reporting

- Collect reporting Specific information
- Output actionable/usable inventories
- Granular insights into data quality
- Abatement planning and tracking

emissions360 User Interface Overview







Dashboard



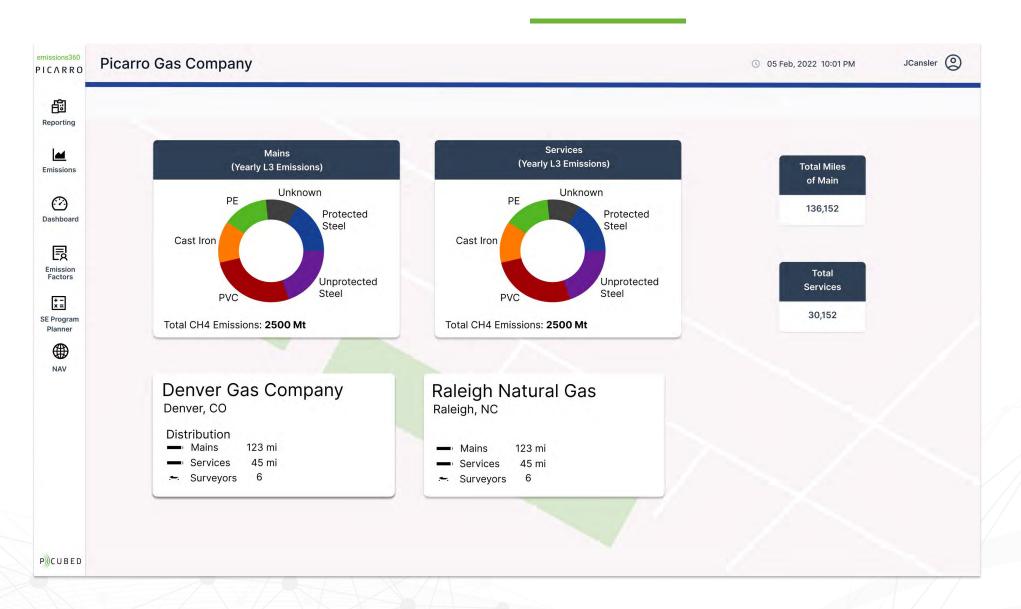
Emission Factors



SE Program
Planner



NAV



Emissions Reporting







Accurate

- Emissions specific to your network.
- Rigorous validation and accounting of uncertainties.

Simple

- Just drive. No investigations are required.
- Intuitive reporting experience.

Transparent

- Traceable, auditable, and peer-reviewed methodology.
- Compliant with GTI Project Veritas protocols.

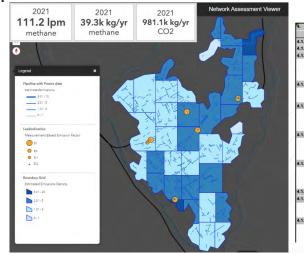
Actionable

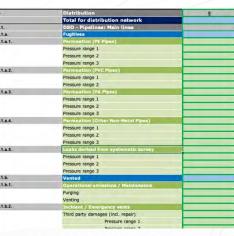
- Reporting to OGMP2.0 Level 3/4/5.
- Provides a baseline to track abatement efforts.
- Enables a Super Emitter program.

<u>Venture</u>	Asset Type	Total Emissions (MMcf/yr) - Picarro	Total Emissions (MMcf/yr) - GHGRP (EPA Subpart W)	Total Emissions (MMcf/yr) - GHGI
Northern Region	Main	85 ± 13	138.5	67.0
Northern Region	Service	30 ± 5	19.8	11.5

Southern Region	Main	50 ± 10	179.5	68.0
Southern Region	Service	21 + 5	95.6	49.9

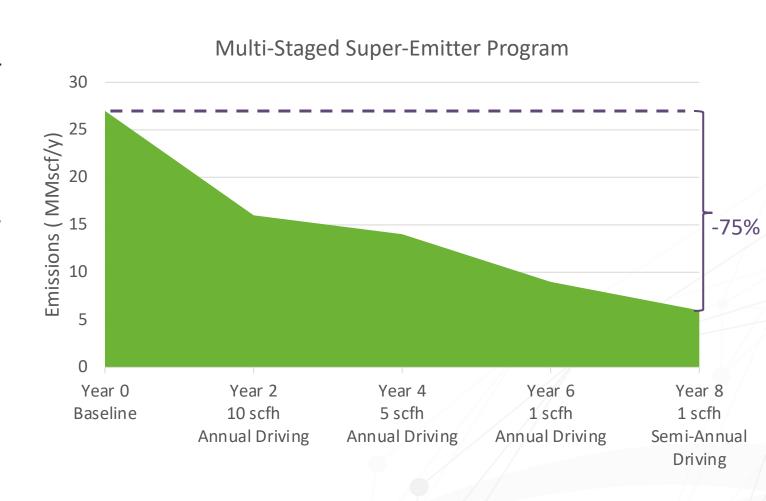
Total Annual		Total Annual
<u>Emissions</u>	Total Annual Emissions	Emissions GHGI
(MMcf/yr)	EPA (MMcf/yr)	(MMcf/yr)
186 + 15	433.4	196.4



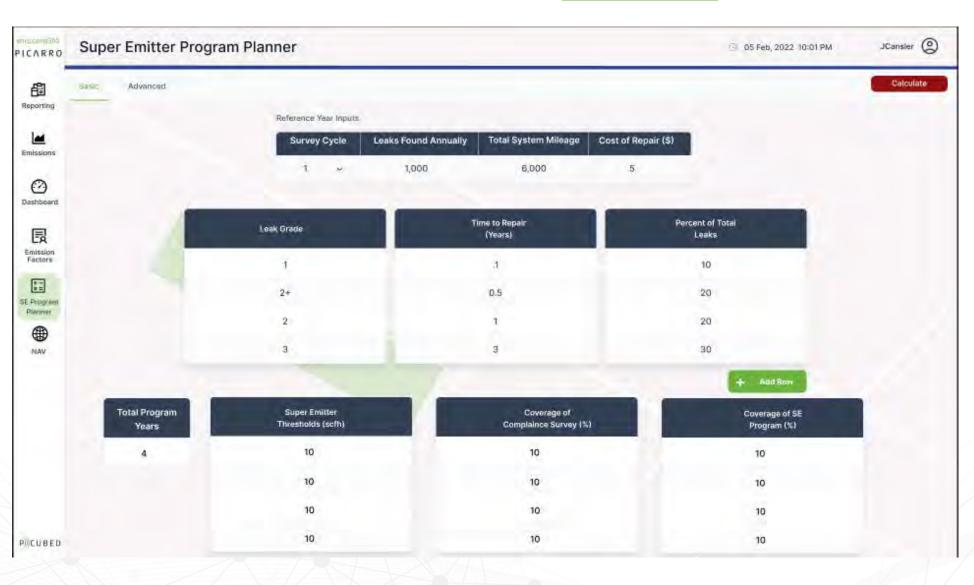


Emissions Reduction – Path to Net Zero

- Accelerate the detection and repair of Super Emitters.
- Progressively reduce the SE threshold to avoid overwhelming operations.
- No additional leak repairs. Just prioritization.
- Cost limited to data collection offset by additional uses within integrity assessment and leak management.
- Real-time reporting of progress and emissions abatement.
- Reach deep emission abatement: 75% from baseline



SE Program Planner



- First of its kind planning engine.
- Allows user to adjust settings based on their network and costs.
- Outputs multi-year benchmarks that operators can use to project net-zero goals

Emissions360 Roadmap

2023 Q2

2023 Q3

2023 Q4

v.2023.0.5

- L3 inventory tool
- GHGI, OGMP
- SE Program Planner
- Feature linked through P-Cubed

v.2023.1.0

- UI/UX enhancements
- GIS/Emissions Integration
- Area-based quantification
- Picarro update

v.2023.1.5

- L4/L5 emissions inventories
- E360 dashboards
- Abatement tracking

emission360TM

Questions?

(Happy to chat during networking)

15 Minute Break // Foyer

Panel 1

Expert Talks, Emissions Measurement and Reduction



Renato Winkler, PhD
Senior Director,
Business Development
Picarro



Thomas Fox, PhD
President
Highwood Emissions



Francois Rongere
Sr. Director, Solution Architect,
Climate and Safety
Picarro



Sean MacMullin, PhD
Senior Director,
Software and Data Analytics
Picarro

Panelist Introduction



Thomas Fox, PhD
President,
Highwood Emissions Management



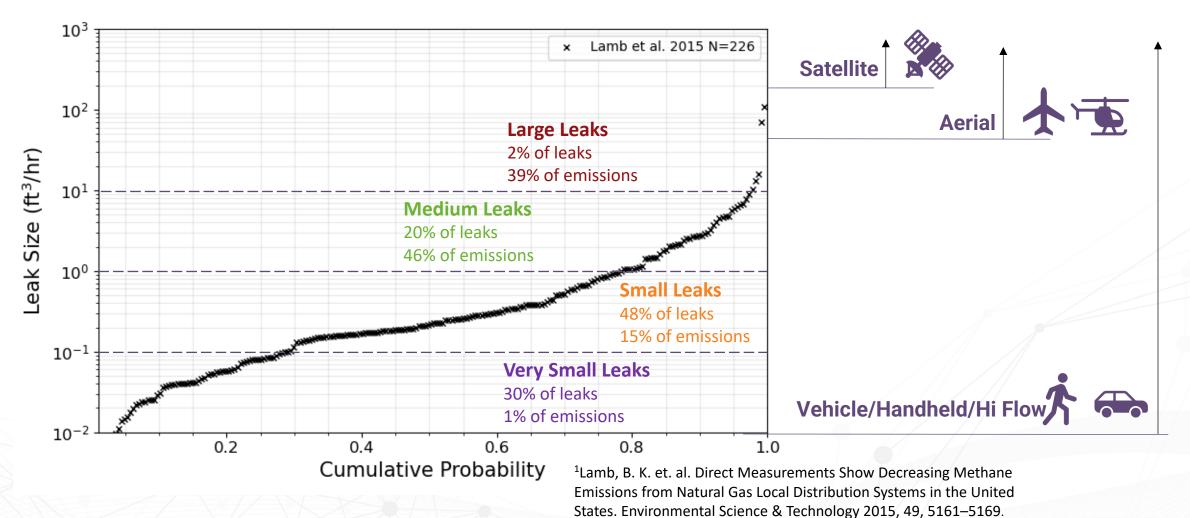
Francois Rongere
Sr. Director, Solution Architect,
Climate and Safety
Picarro



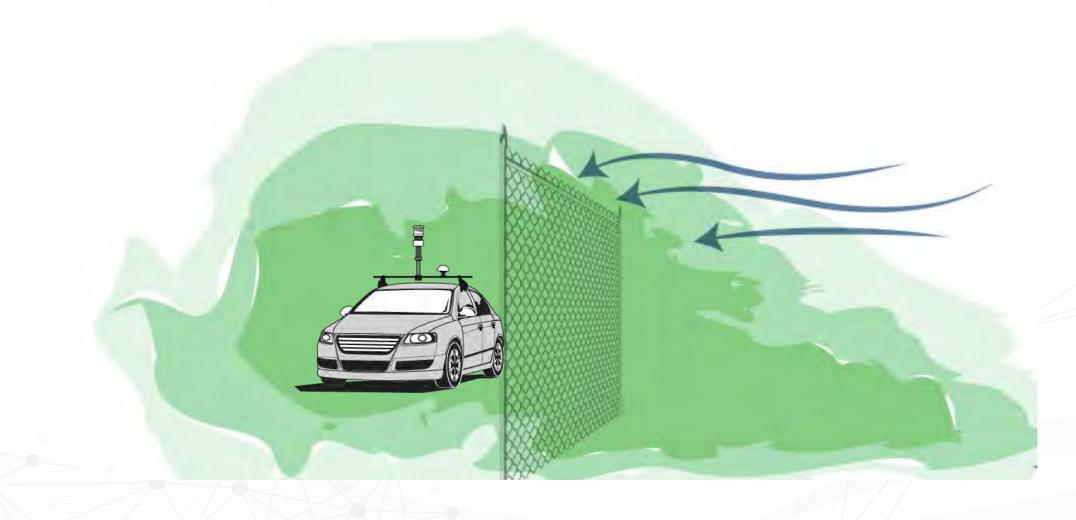
Sean MacMullin, PhD
Senior Director,
Software and Data Analytics
Picarro

Aha! Moment: Leak Sizes Follow Extreme Distributions

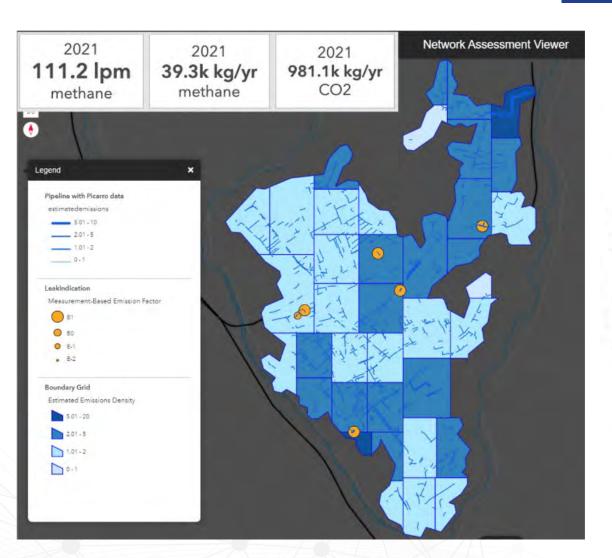
Opportunity: A small number of leaks (5%) represent most of the emissions (50%) **Challenge:** Need an effective way to find the needles in the haystack

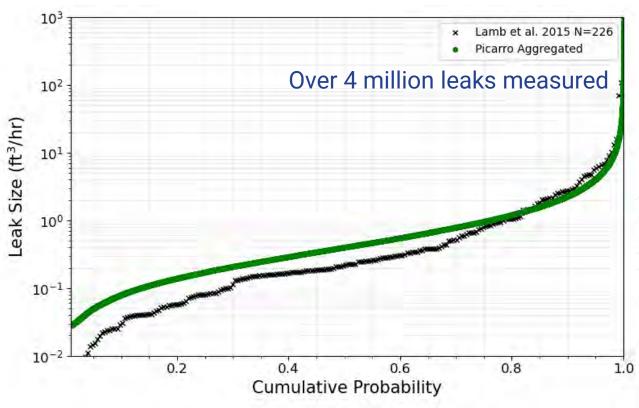


Where We Started



From Emissions Measurements...





... To Emissions Quantification

ATMOSPHERIC ENVIRONMENT: X 17 (2023) 100201



Contents lists available at ScienceDirect

Atmospheric Environment: X

journal homepage: www.journals.elsevier.com/atmospheric-environment-x

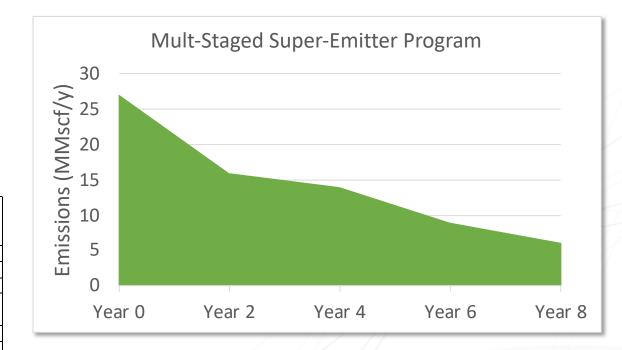


Measurement-based emissions assessment and reduction through accelerated detection and repair of large leaks in a gas distribution network

Sean MacMullin ^{a,*}, François-Xavier Rongère ^{b,1}

<u>Region</u>	Asset Type	Emissions (MMcf/yr) - Picarro	Emissions (MMcf/yr) - EPA	Emissions (MMcf/yr) - GHGI
Northern Region	Main	84 ± 15	138.5	67.0
Northern Region	Service	15 ± 5	19.8	11.5
		Emissions (MMcf/yr) -		
<u>Region</u>	Asset Type	<u>Picarro</u>	Emissions (MMcf/yr) - EPA	Emissions (MMcf/yr) - GHGI
Southern Region	Main	50 ± 20	179.5	68.0
Southern Region	Service	21 ± 5	95.6	49.9

Total Emissions (MMcf/yr) -		Total Emissions (MMcf/yr) -	Total Emissions (MMcf/yr) -	
	<u>Picarro</u>	<u>EPA</u>	<u>GHGI</u>	
	170 ± 25	433.4	196.4	



a Picarro, Inc, Santa Clara, CA, USA

b Pacific Gas and Electric Company (PG&E), San Francisco, CA, USA

Panel Q&A

Lunch // Tidelands Ballroom, 1st Floor

Nextgen, A Holistic Approach to Network Assessment



Sean MacMullin, PhD
Senior Director,
Software and Data Analytics
Picarro



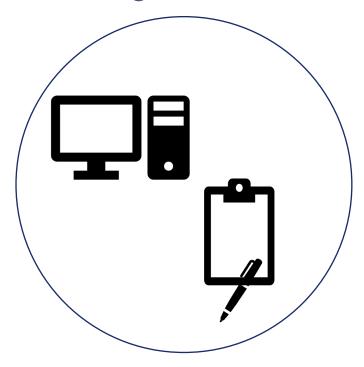
Asif Aziz
Senior Investment
Programme Manager
Cadent Gas Limited



Jamie Herdocia
Director of
Technical Field Operations
CenterPoint Energy

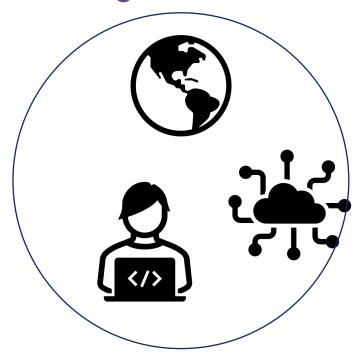
The Digital Transformation Journey

Digitization



Digitize and organize information.

Digitalization



Automate and streamline processes (APIs, data, cloud, AI, IoT, ...)

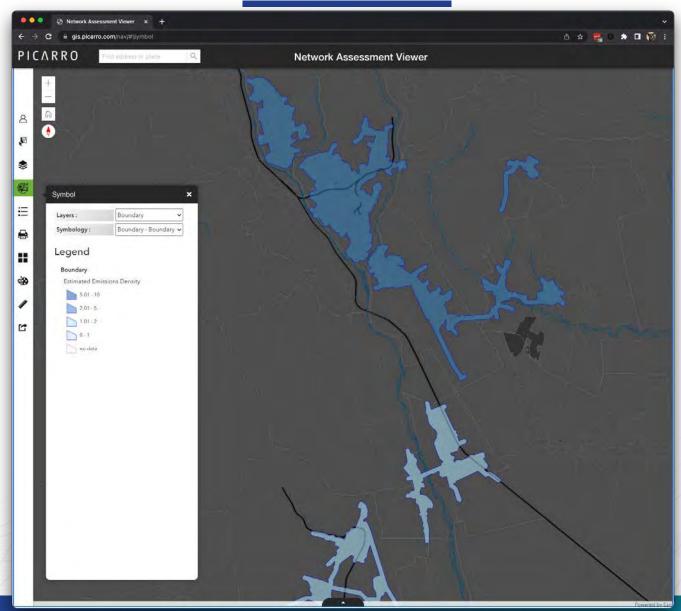
Digital Transformation



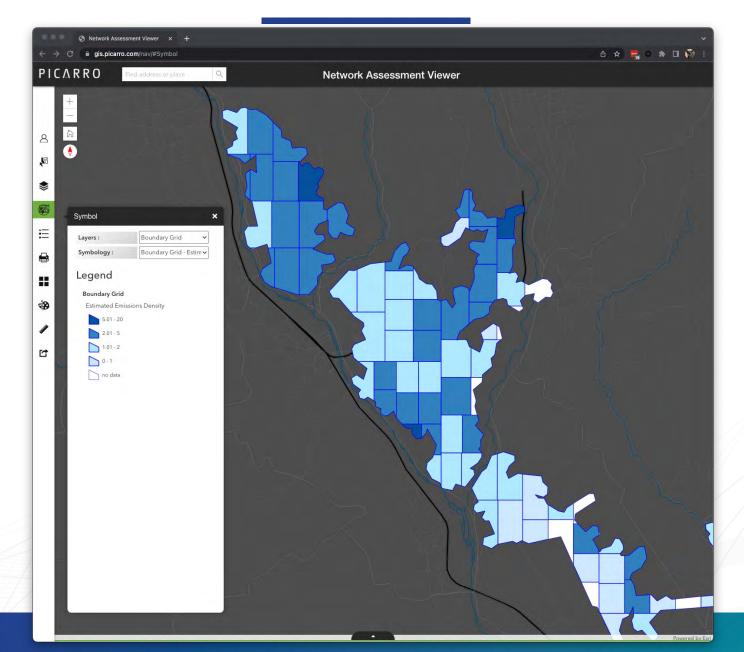
Organizational culture that embraces technology and data-driven decisions.

Transform operations, strategic directions, and value proposition.

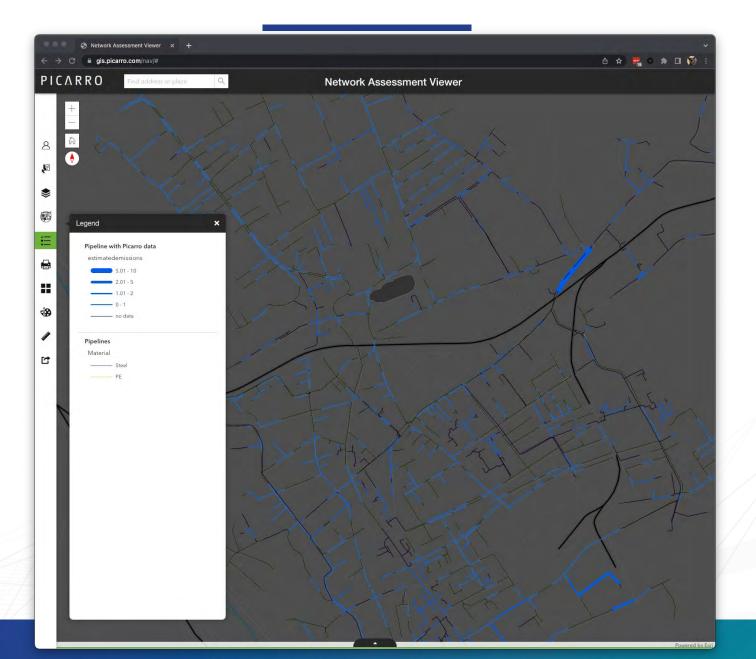
Data at the Scale of Your Network



Data at the Scale of Your Operations



Data at the Scale of Your Assets



Cadent Overview

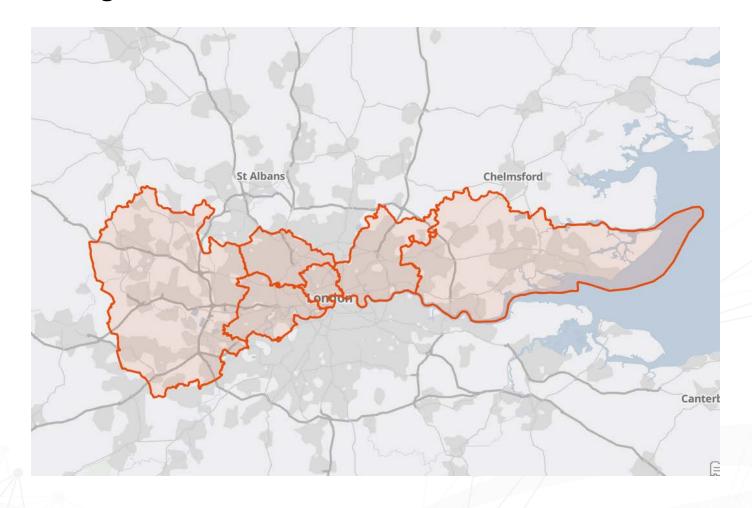
- The UK's largest Gas Distributor
- Receives its gas through the National Transmission System (run by National Grid), which operates at pressures up to 75 barg
- Owns ~130,000km of pipeline, operating between 21 mbarg and 42 barg
- Supplies gas to 11 million customers



Cadent's Gas Assets in London

<2 barg assets in London

Material	Length (km)	
Polyethylene	15,000	
Cast Iron	2,000	
Ductile Iron	1,000	
Spun Iron	2,000	
Steel	1,000	
Sum	21,000	



Shrinkage Model

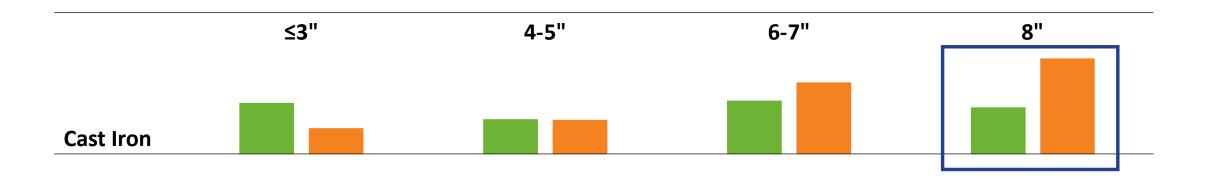
 $Methane\ Shrinkage = Network\ Length \times Coefficient$



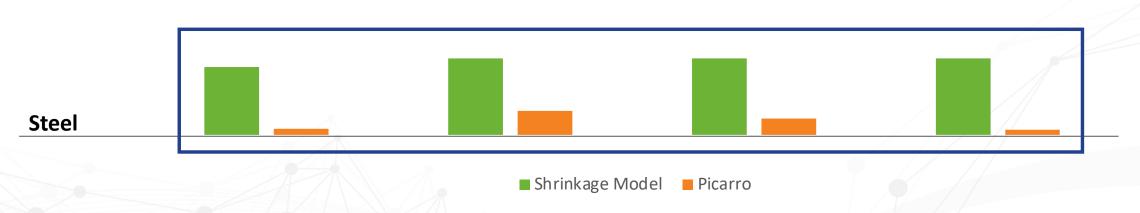
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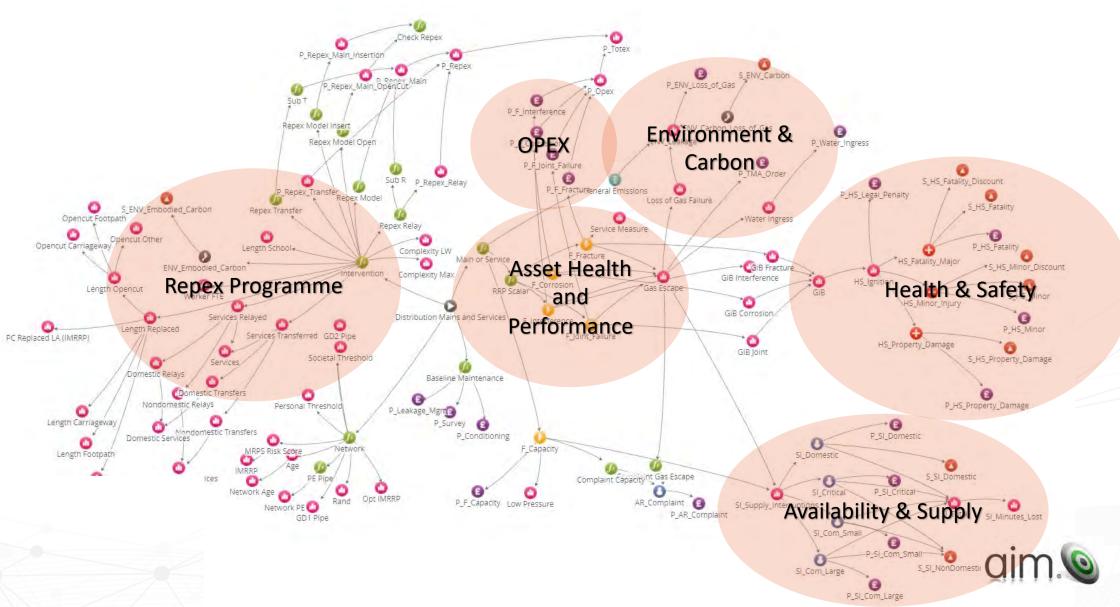
Trial Outputs - Shrinkage







Cadent Risk Map



Panel Q&A

Panel 3

Emissions Management – From Measurement to Reduction



Stephen Ramos
Expert Gas Engineer
PG&E



Francois Rongere
Sr. Director, Solution Architect
Climate and Safety
Picarro



Dave Moon
Director
Asset Investment
Cadent Gas



Stephen Holcomb
Team Leader
Environmental Permitting
NiSource



Rachel Seabase

Manager

Leak Survey

Southern Company Gas

Panel Q&A

15 Minute Break // Foyer

Q&A // User Feedback Open Forum



Julien Klein
Senior Director,
Product Management
Picarro



Francois Rongere
Sr. Director, Solution Architect,
Climate and Safety
Picarro



Sean MacMullin, PhD
Senior Director,
Software and Data Analytics
Picarro



Tony Gambony
Senior Director,
Sales and Client Engagement
Picarro

Panel Q&A

Day 2 // That's a Wrap!

Keynote Address



Peter Harcus
General Manager Gas Assets and Operations
Jemena

An Australian Perspective

Picarro Community Conference San Diego 2023



Jemena Gas Networks General Manager Gas Distribution, Asset & Operations



The SGSPAA Group



•\$11.5 billion

•in assets



Top Quartile

•Safety performance.



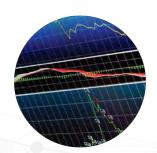
•2,600+

•employees

across Australia.



•\$3.6 billion capital expenditure (2015-2020)



•\$1.3 billion

•contribution to the economy, through employees, suppliers and taxes.



•15+ CBD and regional offices across Australia including Brisbane,

•Darwin, Melbourne, Perth and Sydney.



Our Vison and Future



Our Strategic Objectives

Our Values

Our Future

Creating sustainable energy solutions with communities



Competitive

We optimise operations and customer outcomes



Adaptable

We actively play our part in the Energy Transition



Sustainable

We care for our people, communities, and the environment



We care



Think like a customer



Better together



Be accountable



Find a better way

We will keep adapting to the evolving future as we head towards



by 2050, delivering a mix of fuels and services safely, reliably and affordably





•Over 1.5 million residents of NSW use gas in their homes and businesses – more than any other state or territory.



•In NSW, natural gas contributes to 9% of the State's emissions and stationery energy (excluding electricity) is 11%. This needs to be balanced with the need for reliable, safe and affordable energy.

Jemena

Our Gas Network



•25,000 Kilometers in pipeline length



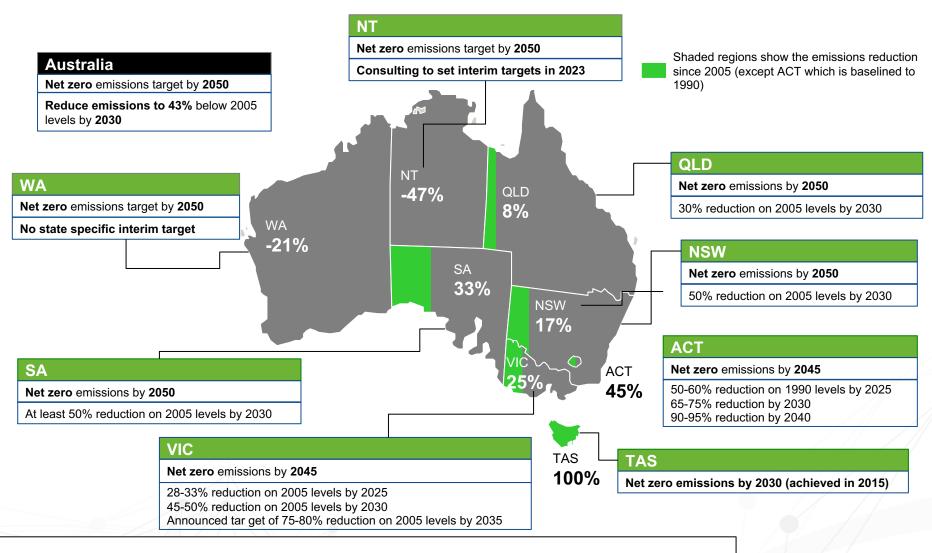
Over 1.45 million customersResidential, Business, and Industrial



- Supply to sites in Sydney, Newcastle, the Central Coast and Wollongong
 - + Covers 20 Regional centers

68

Australian Emissions Targets

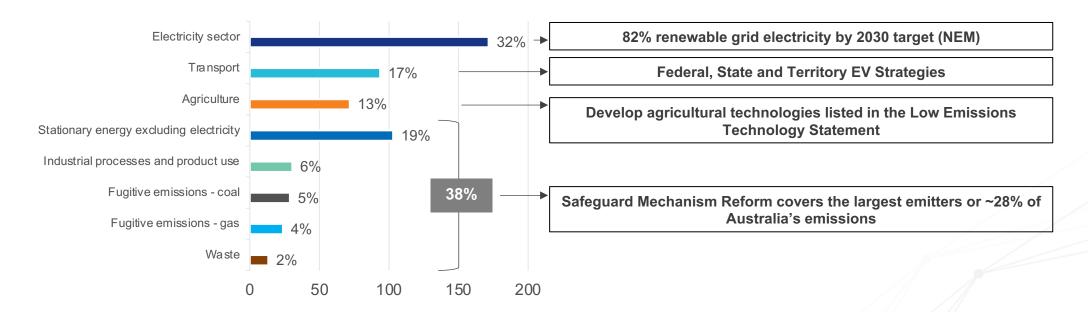


All Australian States and Territories have set targets for Net Zero 2050 (or sooner); interim targets in place along the east coast

Australian Emissions sources and targets



Government strategy or policy to drive emissions reduction



Electricity sector targets (power generation) and Safeguard Mechanism reforms are the key levers to get to the 30% reduction national target by 2030 (from current levels)

Emissions Safeguard Mechanism

- Currently being introduced to Parliament
- Requires Australia's top 250 emitters to reduce emissions by 4.9% per year from 21/22 levels
- JGN is captured under this scheme as a result of its reported methane leakage
- Australia's proposed default cost of CO2 emissions above reduction targets set at \$75 per tonne



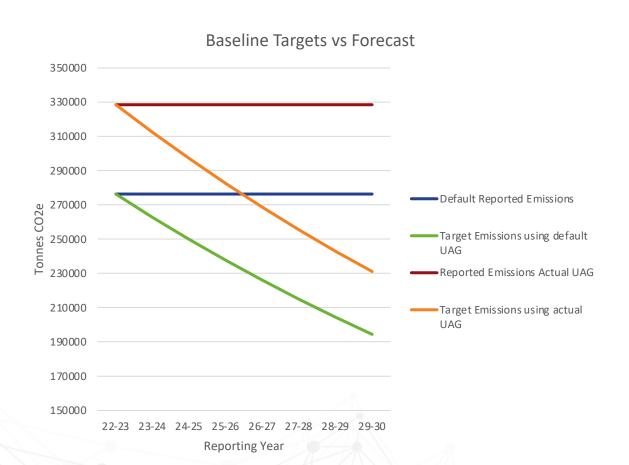
JGN Emissions – Current State

- 20/21 Reported GHG emissions 402.8 kT CO2 eq
- 99.6% of emissions relate to fugitive emissions (leakage)
- 0.2% of emissions from system use gas
- 0.2% of emissions from operational power and transport
- JGN currently uses the default National Greenhouse Emissions Reporting Scheme (NGERS) methodology to estimate fugitive emissions
- The default NGERS methodology does not provide JGN the opportunity to reduce estimated emissions

Default NGERS Emissions Methodology

- The default methodology derives fugitive emissions using a proportion (37.3%) of Un-Accounted for Gas (UAG)
- The default methodology also uses a default state based UAG figure of 2.2%
- Total fugitive emissions are reported as 0.82% of the volume of gas transported through the network
- The reported fugitive emissions only varies with the volume of gas transported, and not the actual UAG or leakage reduction
- Will need to change to a reporting methodology that reflects reductions in gas leakage rates to meet safeguard baseline reduction targets

JGN Forecast Emissions vs Target



- Forecast based on current gas throughput and UAG levels
- Default emissions methodology produces a lower target and reported level
- Under the default methodology JGN has no ability to meet the target
- Under the use of actual UAG, JGN would have to reduce UAG by 35% by 2030 to meet the target

JGN Emissions Reduction Strategy



Develop direct leakage measurement technologies and methodologies to better understand actual leakage rates



Target least cost leakage reduction programs

System pressure reductions

Seasonal pressure reductions

Optimised repair and replacement program



Reduce system use gas through the mothballing and replacement of water bath heaters with seasonal catalytic heating systems



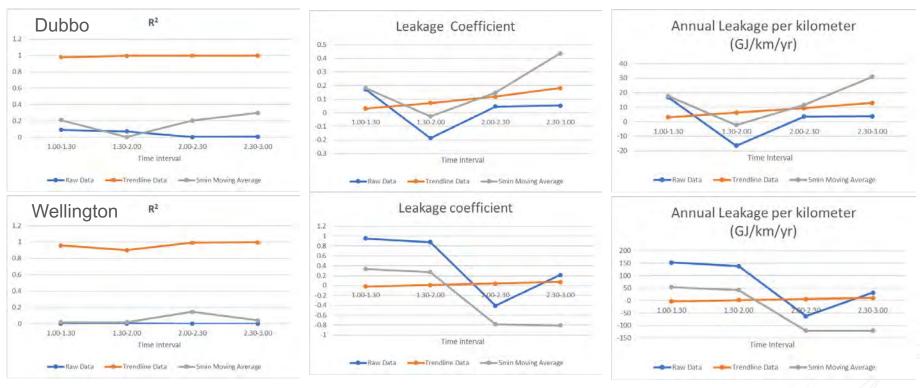
Adopt direct measurement of fugitive emissions as a basis for CO2 emissions reporting

Direct Emissions Measurement Approaches

- Historically JGN has attempted to directly measure the leakage rates of specific distribution systems using the pressure decrement method.
- Method involves isolating a system, installing pressure data loggers, shutting off supply at 1am mid summer and measuring the pressure decay.
- The big assumption is that at 1am mid summer there should be very little demand and it is steady.



Direct Leakage Measurement Results



Varying leakage coefficient is observed throughout the test, which suggests fluctuation in consumption.

Fluctuation in consumption and varying leakage coefficient suggests that hypothesis of extraordinarily small leakage stands true.

The methodology does provide results accurate enough to be used for

UAG Charts for Dubbo Pressure Reduction



- Dubbo represents one highest UAG systems 18%
- Pressure reduced Feb 2021 from 300kPa to 260kPa
- 12 month rolling UAG chart shows continuous down trend post pressure reduction in the network.
- Month on month UAG chart shows down trend post pressure reduction in the network.
- Slight increase in month of Sept 21 is the result of high consumption.

Direct Leakage Measurement Trials – Picarro/ABB

- Conducted a trial of vehicle mounted gas detection equipment from two suppliers.
- The two technologies successfully identified leaks and were able to assess emissions rates.
- The Picarro technology provided the most comprehensive data and analytics, being able to differentiate above from below ground leaks.
- Both technologies require 6 passes to be able to determine accurately emissions rates as opposed to simply identifying leaks.
- Vehicle technology does not reduce the labour cost of leakage surveying.

Direct Leakage Measurement Plan



Procured two Picarro leakage vehicles to conduct 5 yearly leakage surveying of the network



Conduct 6 pass emissions assessment process for all leakage surveys to develop better understanding of actual network emissions



Develop a proposal for the next JGN Pricing determination (2025-30) to move to annual emissions assessment for the complete network.



Move to direct assessment methodology for emissions reporting by 2027

Thank You

Panel 4

Operational and Technological Challenges of Gas Utilities Latin America



Malvin Delgado
Senior Director,
Sales & Client Engagement
Picarro



Hugo Prieto General Manager Incolsol



Nestor Consuegra
Head of Operations and
Maintenance
Gases de Occidente - GdO
(Promigas Group), Colombia



- Network: ~ 500'000km
- 50% Population access to service
- Evolution
 - From State-owned to Private.
- The Growth Challenges
 - Modernization, Reliability, and Safety.
- The ESG Commitments.
- The Future
 - AMLD | Emissions Management | Growth



cosan

15 Minute Break // Foyer

Breakout Sessions

NetZero Audience Roundtable



Renato Winkler, PhD
Senior Director,
Business Development
Picarro



Francois Rongere
Sr. Director, Solution Architect,
Climate and Safety
Picarro



Marta Guerrero Merino
Principal Engineer
GTI Energy



Jacob Cansler
Product Manager
Picarro



Thomas Fox, PhD
President
Highwood Emissions

Panel 5 Adopting and Scaling AMLD



Eban Grasti
Director of Operations Support
Southern Company Gas



Britney Strout
Senior Manager
Pipeline Integrity
Summit Utilities, Inc.



Paul Sheridan
Leader Mobile
Leak Detection
NiSource



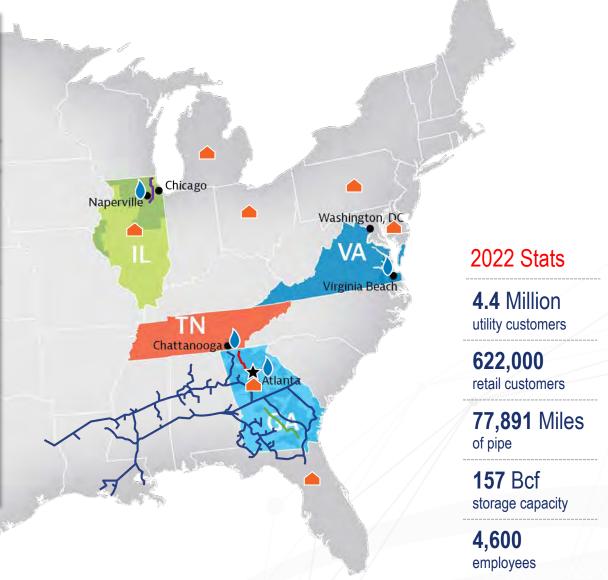
Jeffrey Goetzman

Manager, Texas
Technical Field Operations,
CenterPoint Energy



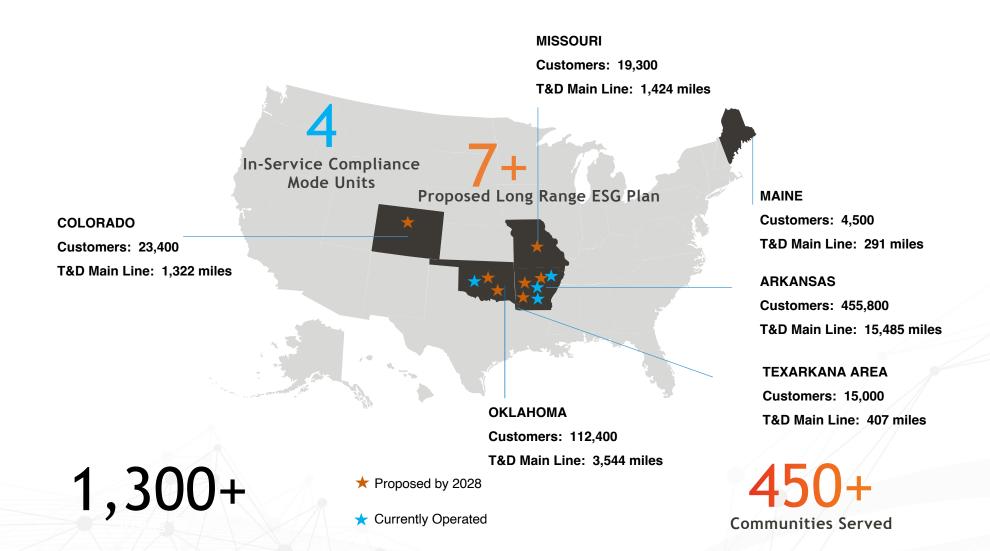
Jason Shehan
Director of Engineering
Gas Operations
Picarro





Service Territories





NiSource





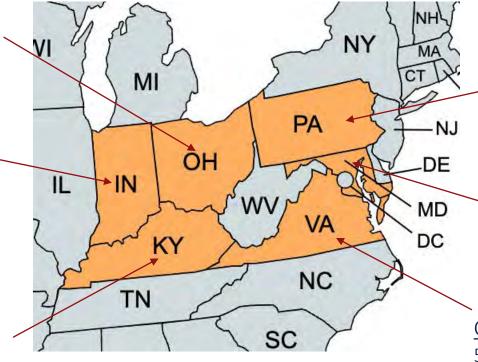
20,300 miles of main 1.4M Customers

NIPSCO

17,700 miles of main 821,000 Customers

Columbia Gas of Kentucky

2,600 miles of main 135,000 Customers



Columbia Gas of Pennsylvania

7,700 miles of main 440,000 Customers

Columbia Gas of Maryland

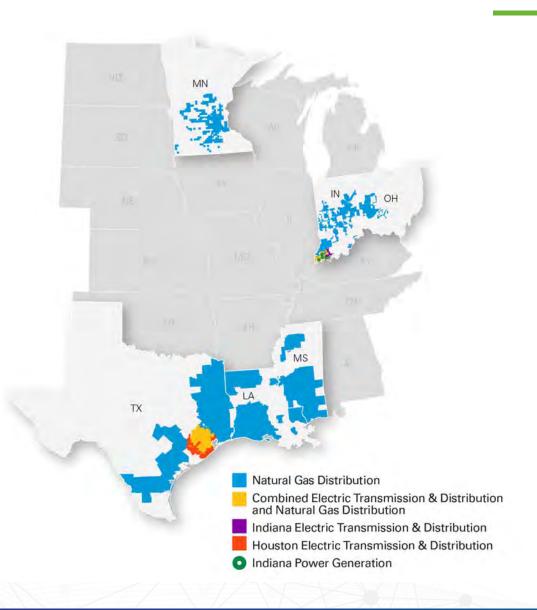
660 miles of main 33,000 Customers

Columbia Gas of Virginia

5,400 miles of main 280,000 Customers

Who We Are





Electric Transmission & Distribution and Power Generation



more than

2.8 million
METERED CUSTOMERS

2 states

Natural Gas Distribution



more than

4.2 million
METERED CUSTOMERS

6 states

Competitive Energy Businesses



Project activity in more than

20 states

Picarro Organizational Overview

Large Customer Base

- Annual user conference
- Regional user groups

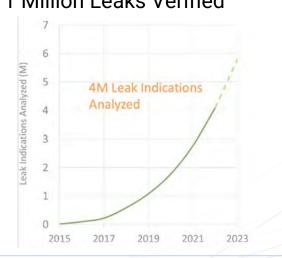


Industry Involvement



Large Data Set

- 4 Million Leaks Identified
- 1 Million Leaks Verified







WEVG

DTE



CDS



sumers Energy

Count on Us

























Summit Utilities















EVERS®URCE













PICARRO

Conference Close

Lunch and Network // Tidelands Ballroom, 1st Floor

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2023 SPRING PICARRO COMMUNITY CONFERENCE



FEB 27 - MAR 1 2023 // SAN DIEGO CALIFORNIA