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Midwest

DAMAGE PREVENTION TRAINING CONFERENCE

2023 • FRENCH LICK, IN



**Rising to the Challenge – “50 in 5”
Industry Challenge to Cut Damages in
Half by 2028**

Presented by: Khrysanne Kerr



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Today's Discussion Topics

About CGA

The 50-in-5 Challenge

CGA's Next Practices

Public Awareness

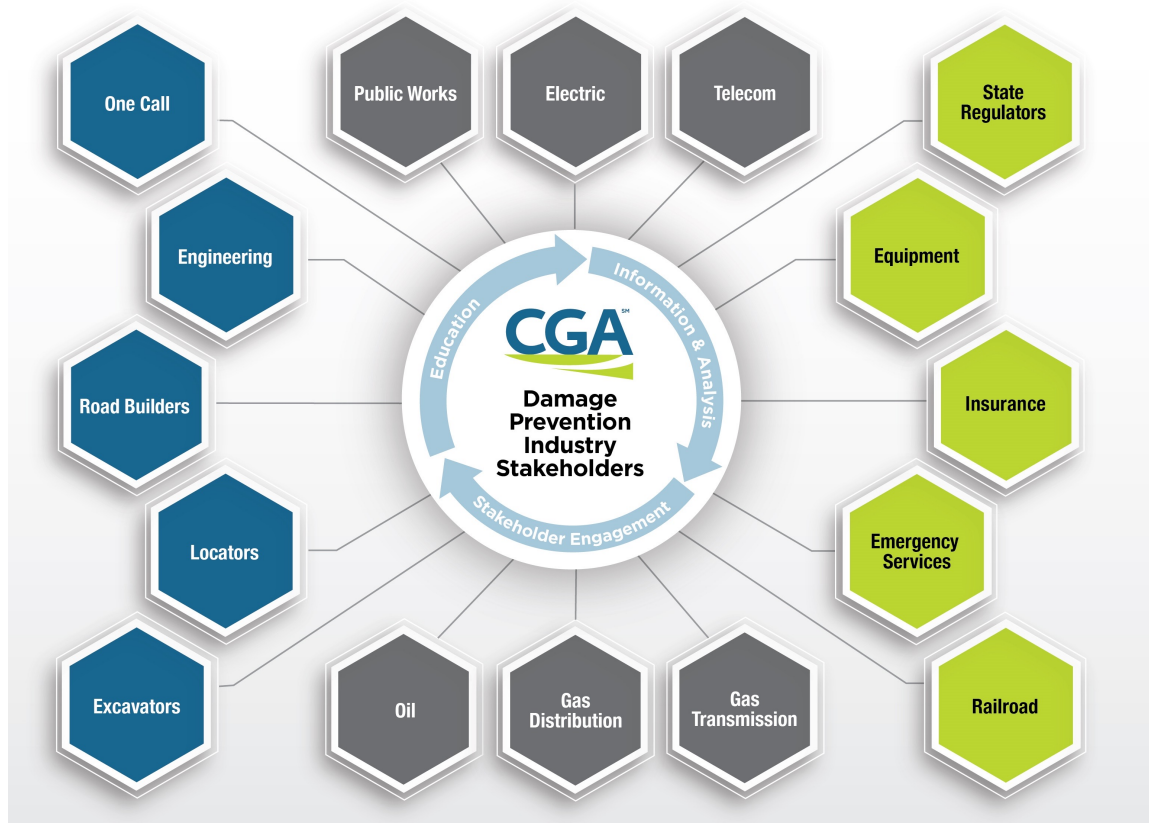


The logo for the Common Ground Alliance (CGA) features the letters "CGA" in a bold, blue, sans-serif font. A yellow swoosh underline is positioned beneath the letters.

Mission

The Common Ground Alliance is dedicated to preventing damage to underground utility infrastructure and protecting those who live and work near these important assets through the shared responsibility of our stakeholders.





CGA Member Benefits

- Increase your understanding of damage prevention issues
- Influence the work being done by CGA committees (Including Damage Reporting, 811, Best Practices, and Technology)
- Participate in the Damage Prevention Institute at no additional cost
- Ensure your stakeholder group is well represented
- Network with various industry experts
- Demonstrate your commitment to damage prevention
- Gain exposure to new technologies in research & development
- Access CGA materials, reports and program information that is restricted to CGA membership
- Benefit from member pricing on CGA publications and events







Common Ground Alliance



DIRT

Damage Information Reporting Tool

2022 ANALYSIS AND RECOMMENDATIONS





Our ability to advance as an industry depends on our willingness to **adapt legacy processes to the demands of modern-day damage prevention.**



Sarah K. Magruder Lyle
CGA President & CEO



2022 Report Highlights

- **Excavation/construction was the top reporting source for first time.**
- Telecom and natural gas remain the **most damaged facilities.**
- **Telecom work caused most damages.**
- **Top 6 damage root causes are persistent year-over-year** (no locate request, not marked/marked inaccurately, failure to maintain clearance, failure to pothole, improper excavation).
- **Damages are flat or increasing** based on statistical analysis.
- Reversing the upward damage trend is critical to **reach 50% reduction in 5 years.**



Excavation/
Construction was
the top reporting
source for the first
time in 2022



76%
of all damages
are due to just
SIX root causes

Achieving Our Industry Goal

THE PATH TO 50-IN-5

Damage prevention progress requires reversing an established upward trend. Visit this Report's **Recommendations** and commit to bold action today.

THE PATH TO 50-IN-5 Moving Beyond Catch-All Root Causes

Review internal data and identify opportunities to pinpoint deeper root causes versus defaults.

THE PATH TO 50-IN-5 Invest in Potholing to Save on Damages

Project owners should review and enhance contract structure to include specific compensation for potholing.

THE PATH TO 50-IN-5 Timely and Accurate Positive Response

Late and inaccurate positive responses undermine the damage prevention process.



Damage Trends

↑ **9.34%**

Increase in
damages/811 center
transmissions

↑ **12.35%**

Increase in
damages/construction
spending

U.S. damage counts from consistently reporting organizations have increased over the past 3 years

146,038

2020

153,886

2021

163,726

2022



3-year trending using a comparable dataset showed increases in key metrics between 2021-2022.







Half a trillion+ dollars are being allocated to new infrastructure in the U.S. over 5 years



Root Cause Analysis

The top 6 root causes are the same as 2021.

“Catch-all”
root causes
may mask
more
complex root
causes.

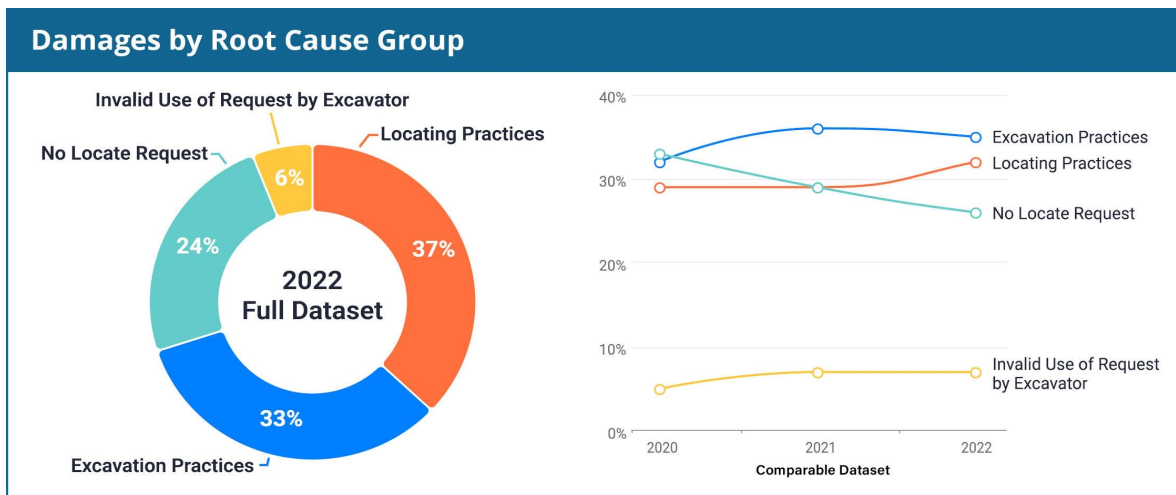
ROOT CAUSE	Reports	2022 % of Total
 No notification made to 811 Center	35,860	24.81%
 Facility not marked due to locator error	21,951	15.19%
 Excavator failed to maintain clearance after verifying marks	19,448	13.46%
 Marked inaccurately due to locator error	12,048	8.34%
 Improper excavation practice not listed elsewhere	11,835	8.19%
 Excavator dug prior to verifying marks by potholing	7,965	5.51%

 *Unknowns Excluded



Root Cause Analysis

The consistency in damage drivers provides an opportunity to ***focus our efforts*** and ***measure progress***.

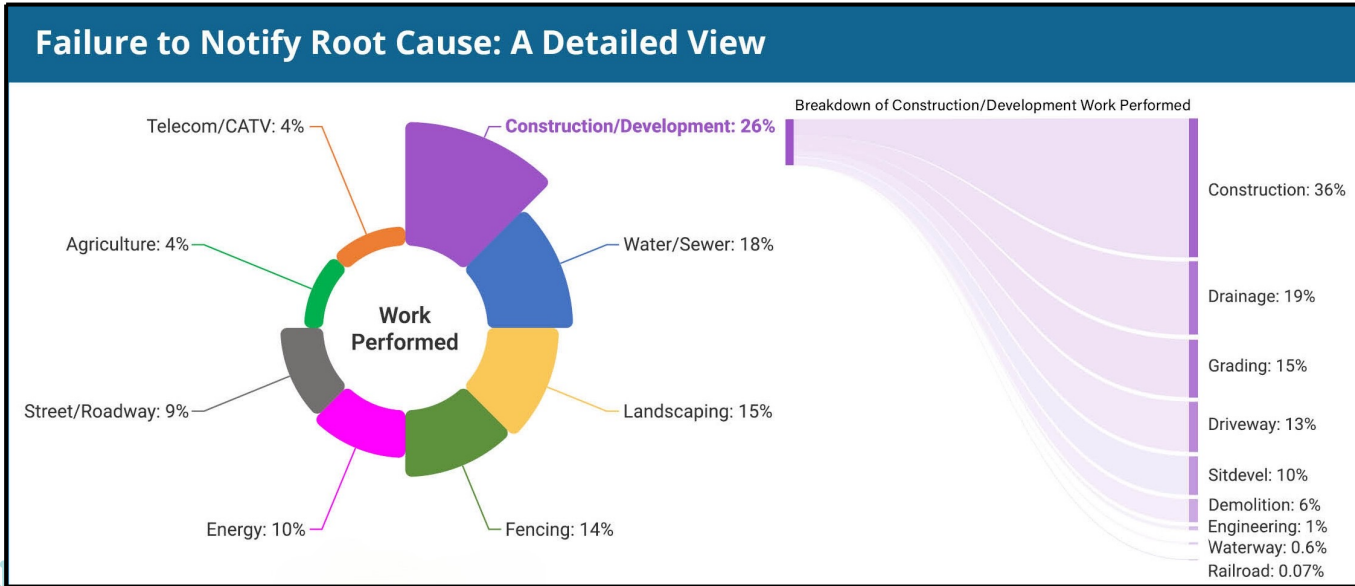


*Unknowns excluded.



No-Notification Root Cause

Construction work dominates when no-notification damages occur.

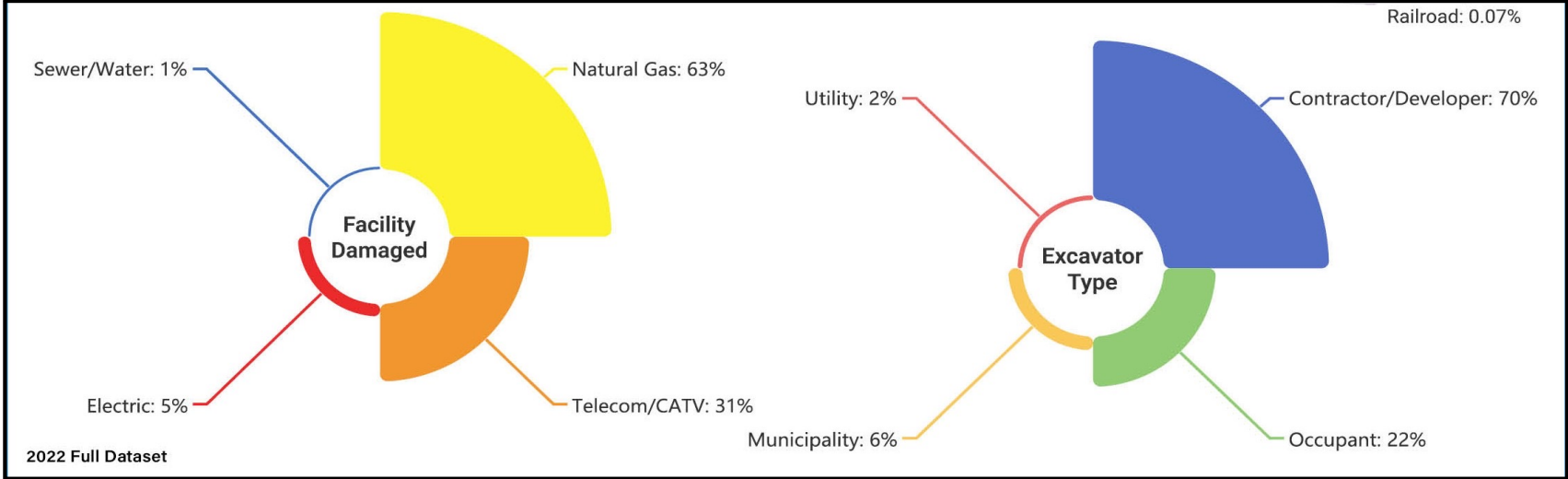


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No-Notification Root Cause

Failure to Notify Root Cause: A Detailed View

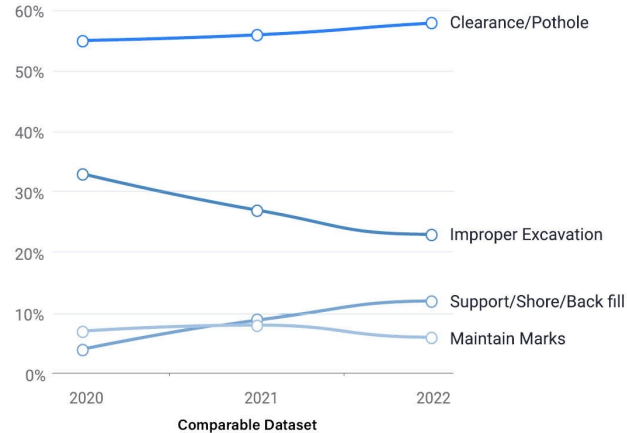
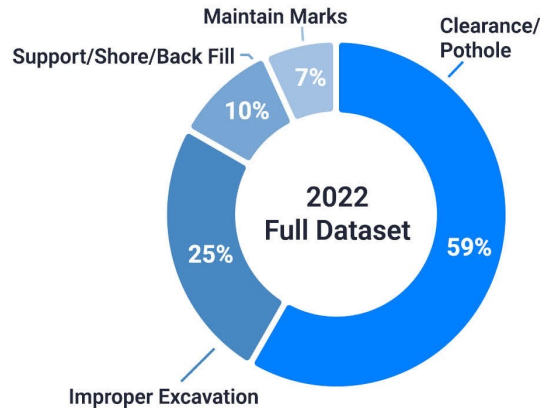


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Excavation Practices Root Causes

Excavating Practices Root Causes



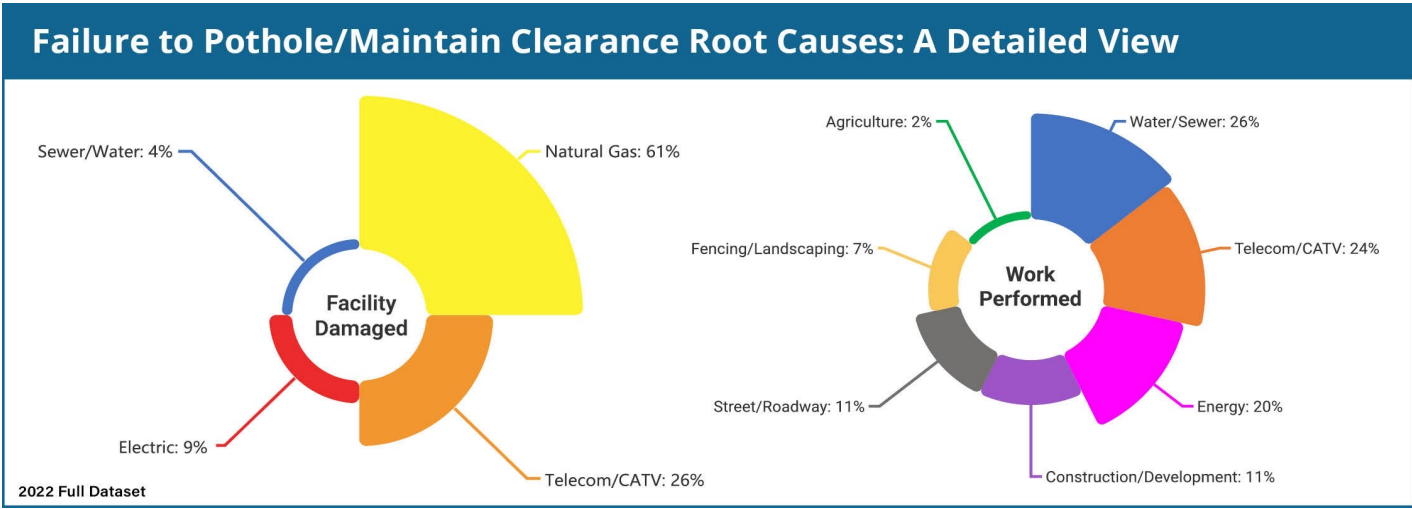
Trending data reveals that *failure to maintain clearance and pothole* have consistently been top excavation root causes.

*Unknowns excluded.



Excavation Practices Root Causes > Maintain Clearance/Pothole

Utility work makes up 70% of work performed when damages occur due to failure to maintain clearance/pothole.

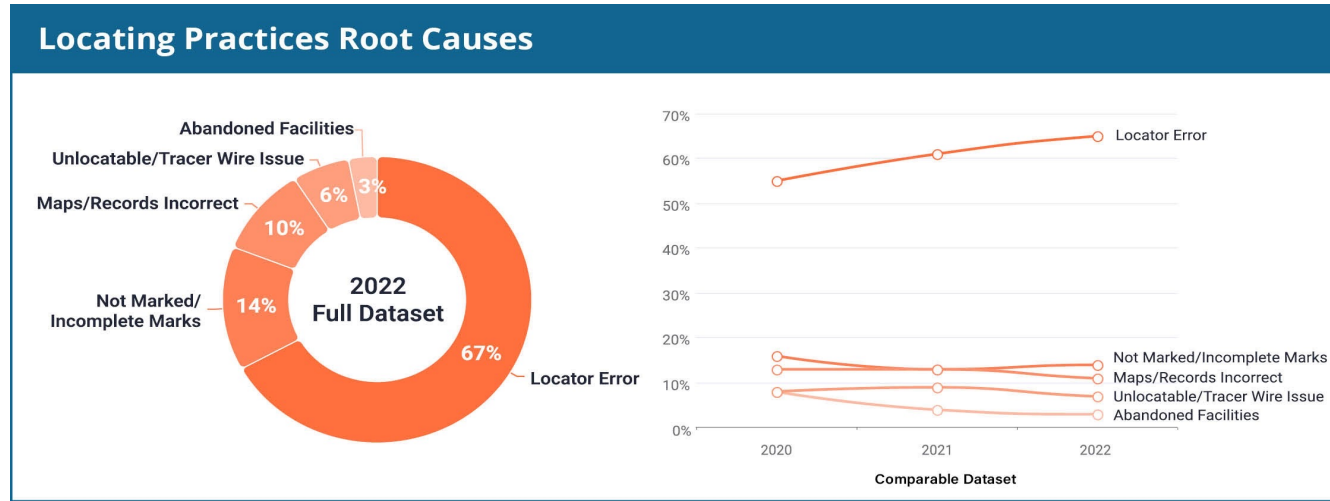


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Locating Practices Root Causes

Locator error is often selected when a more specific root cause is not collected. For example, **some mapping-related damages are likely masked by locator error.**



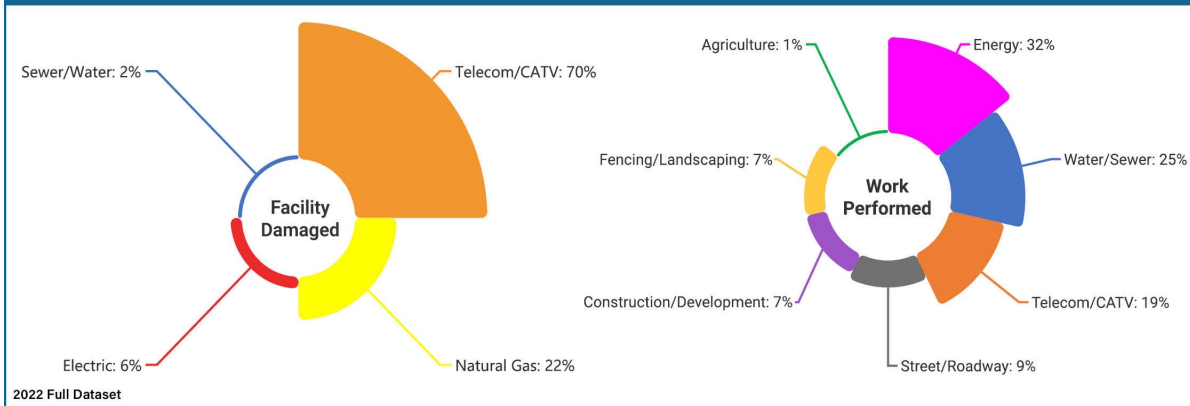
*Unknowns excluded.



Locating Practices Root Causes

Utility work also dominates as work performed when damages occur due to locator error, presenting an opportunity for facility owner/operators to reduce these incidents.

Not Marked/Marked Inaccurately Due to Locator Error Root Causes: A Detailed Focus

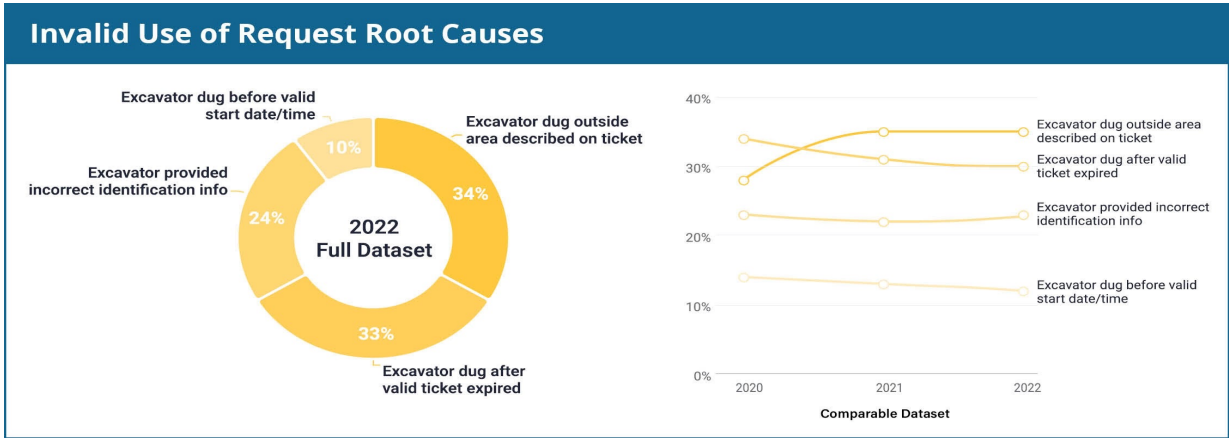


***Unknowns excluded.**



Invalid Use of Request Root Causes

Invalid use of request incidents stem not from a lack of 811 awareness, but from **excavators' mistaken or incomplete understanding of regulations governing the process.**



*Unknowns excluded.



Late Locates: A Current and Emerging Crisis

- **Data from 7 states** with mandatory positive response was analyzed.
- As many as 56% of tickets receive late or no positive response, **meaning work cannot legally start.**
- **Telecommunications and water/sewer operators have higher late response rates.**
- Telecommunications work is most impacted by late responses.
- Some operators/locators mark sites on time but **delay updating positive response systems.**
- Excavators report inaccurate status codes, including those **indicating sites are marked when they are not.**



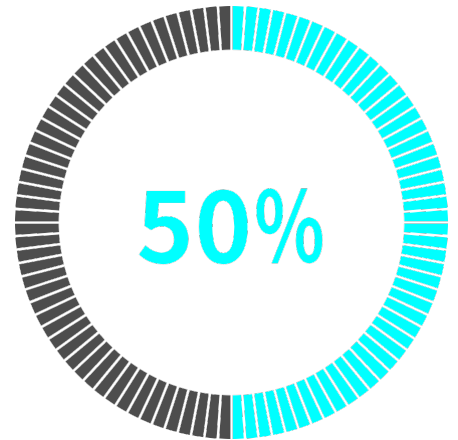
AS OFTEN AS
56%
OF THE
TIME,
excavators cannot
legally begin work
on their planned
start date



811 Chicago Reduces Damages by 50%

Chicago has cut underground utility damages in half since 2017 through its robust prevention program run by 811 Chicago through:

- Project design reviews ensuring new utilities avoid existing infrastructure. Facility maps aid planning.
- Permitting requiring approved designs. Permit documents provide excavators with utility details.
- Enforcement of damage prevention laws via investigations and sanctions.
- Mapping tools like dotMaps showing project and ticket data. This enables coordination.



**Damage
reduction
in 5 years**



811 Chicago Reduces Damages by 50%

Chicago's success highlights several adoptable practices:

- Sharing facility maps for planning purposes provides the data necessary to **prevent damages without revealing sensitive details.**
- **Open communication on designs** gives owners a voice and excavators foresight on potential conflicts.
- **Collaboration from the start** fosters stakeholder relationships and buy-in.
- **Empowered excavators** have the resources they need to identify buried infrastructure.



Achieving Our Industry Goal

TARGETING TOP DAMAGE ROOT CAUSES

2022 DIRT Report Recommendations:

- Commit to unprecedented collaboration across stakeholder groups
- Restore confidence in the 811 system
- Prioritize tolerance zone safety
- Enhance facility maps to GIS grade
- Allocate sufficient locating and marking resources
- Utilize contract structures for better locating and excavating outcomes
- Ensure effective enforcement of damage prevention



Explore DIRT Data

There's more to uncover.

DIRT



Visit the **DIRT Interactive Dashboard** to explore 2020-2022 damage data in-depth. Use the DIRT Explorer to filter data by geography, stakeholder group, facility damaged, equipment type and more. State- and province- level data is available as well.



Indiana Specific Data

Reported unique damages:
10,332

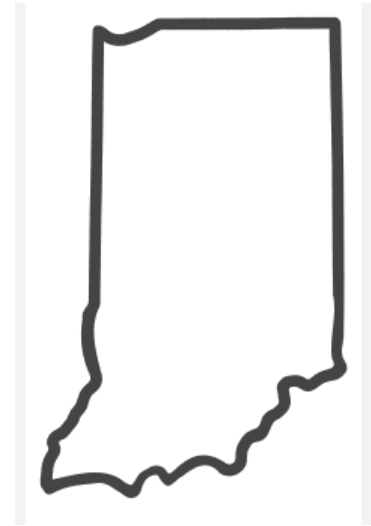
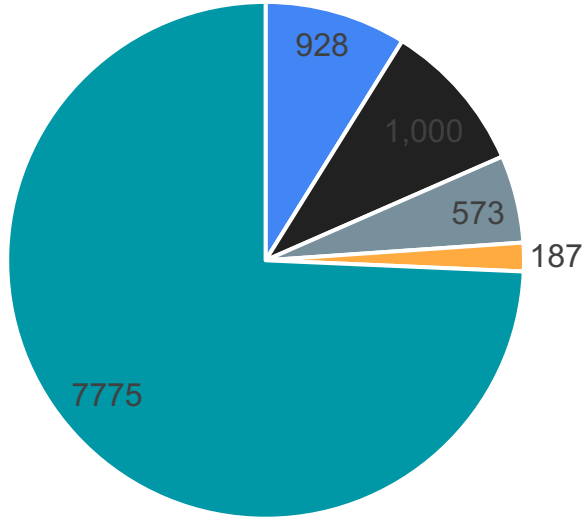
Transmissions: 11,764,438

Incoming Tickets: 1,703,705

In to Out Ratio: 6.91



Indiana Damages

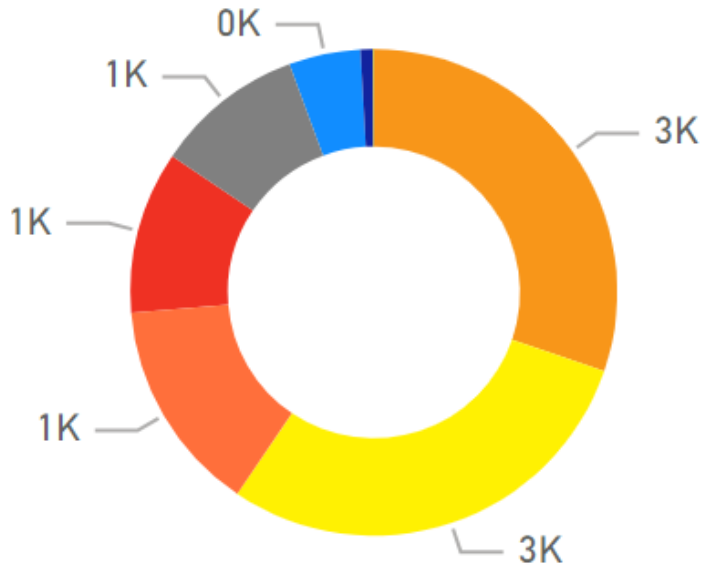


- Locating
- No Locate Request
- Excavation
- Invalid Use of Request
- Unknown

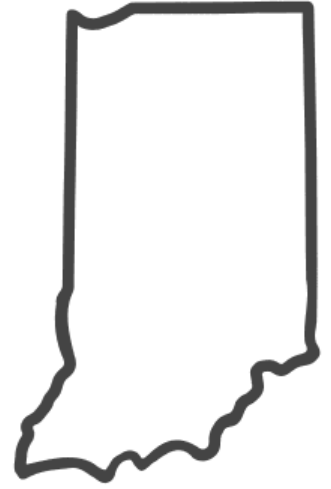


Facility Damaged

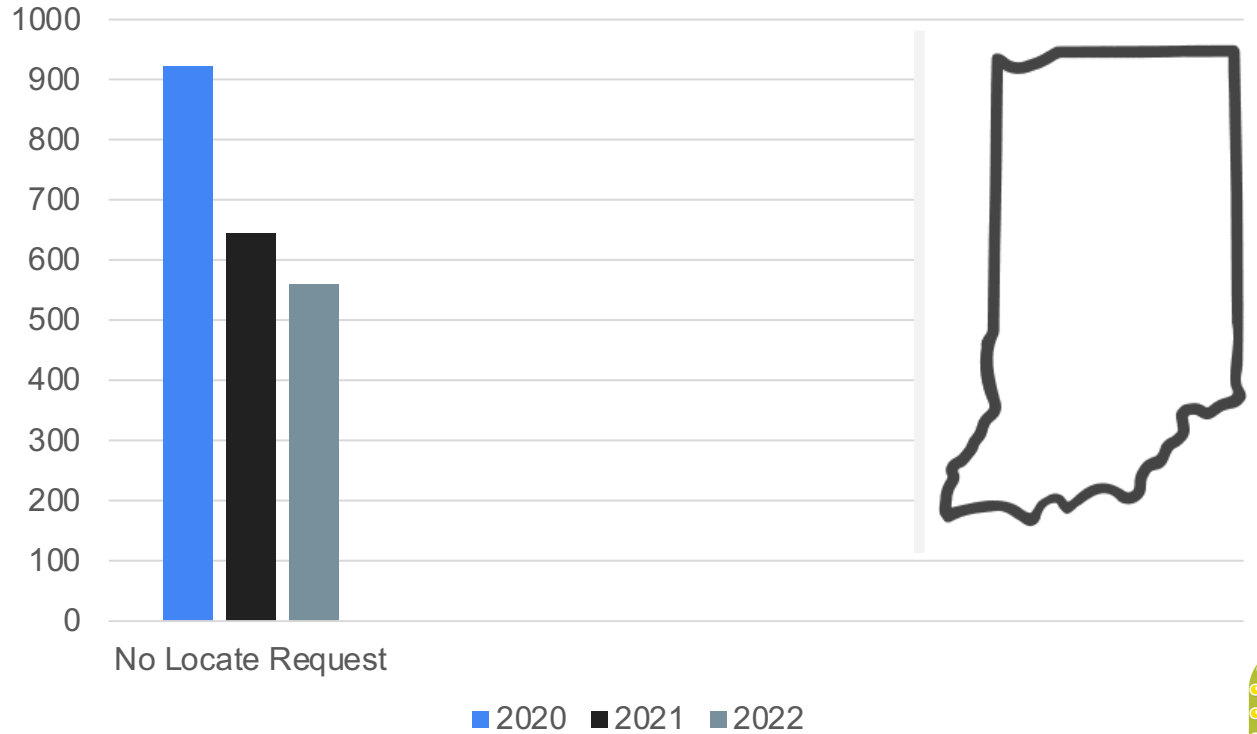
Focus Mode



- Telecommuni...
- Natural Gas
- Cable TV
- Electric
- Unknown
- Water
- Sewer
- Liquid Pipeline



No Locate Request Trend by Year



Submit Data and Learn More

DIRT

dirt.commongroundalliance.com



Best Practices

- Version 18.0 published June 2021
- More than 160 practices developed through **consensus**
- Available online at bestpractices.commongroundalliance.com



Published in summer of 2021, Best Practices 18.0 includes all new practices and is now available to download and in hard copy.



To download or order booklets visit:

BestPractices.CommonGroundAlliance.com



To review the complete new practices, visit BestPractices.CommonGroundAlliance.com



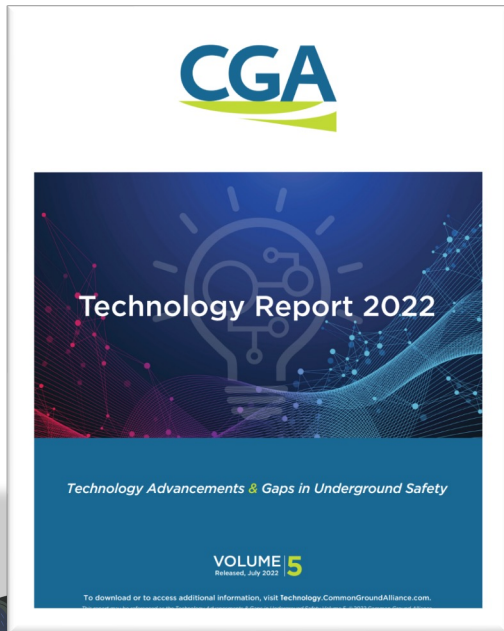
Filter by Industry Icons ⓘ

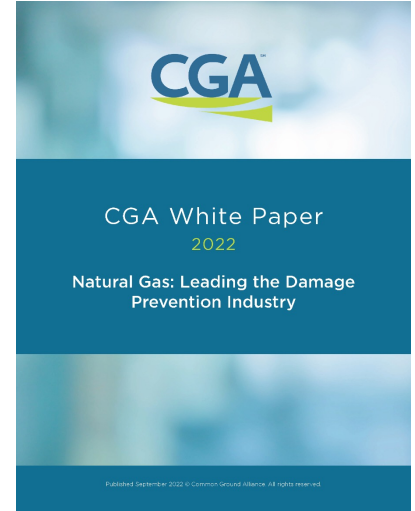
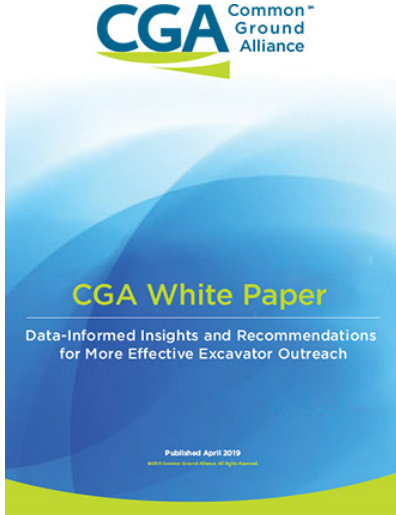
- One Call Center
- Facility Owner
- Excavator
- Locator
- Project Owner
- Designer



Technology: Advancements & Gaps in Underground Safety

- Technology Hub provides enhanced access to information describing damage prevention technologies
- Searchable microsite of CGA Technology Reports, case studies and other information
- Identifies stakeholder group(s) the technologies are intended for, using the same icons used in CGA's Best Practices Guide





White Paper Series





MISSION

To address **systemic inefficiencies** in the damage prevention process through the development of a system of **comprehensive participant accreditation** and **metrics**, creating the foundation for a consolidated benchmarking and true **peer review** process.



Core Principles of the DPI

- **ALL participants** demonstrate **accountability** for their damage prevention responsibilities through **accreditation**, **data submission**, and participating in **peer reviews**.
- The DPI is **participant-driven** and **operates transparently**.
- Participation is **voluntary**.
- The DPI is **not punitive**. Accreditation does not depend upon performance. Performance speaks for itself.



Basic Accreditation Requirements

- Leadership commitment to the DPI
- Submit damage and metrics data
- Whistleblower and stop-work authority for employees
- Investigation and corrective action policy/procedures
- Adherence to CGA Best Practices
- Compliance with dig laws and regulations
- Training

A list of accredited organizations is available at
<https://dpi.commongroundalliance.com/Participate/Accredited-Organizations>



Public Awareness

- Updated tagline for 811
- Process improvement videos
- Digital pre-roll
- Online excavator training
- Awareness vs. Behavior Change

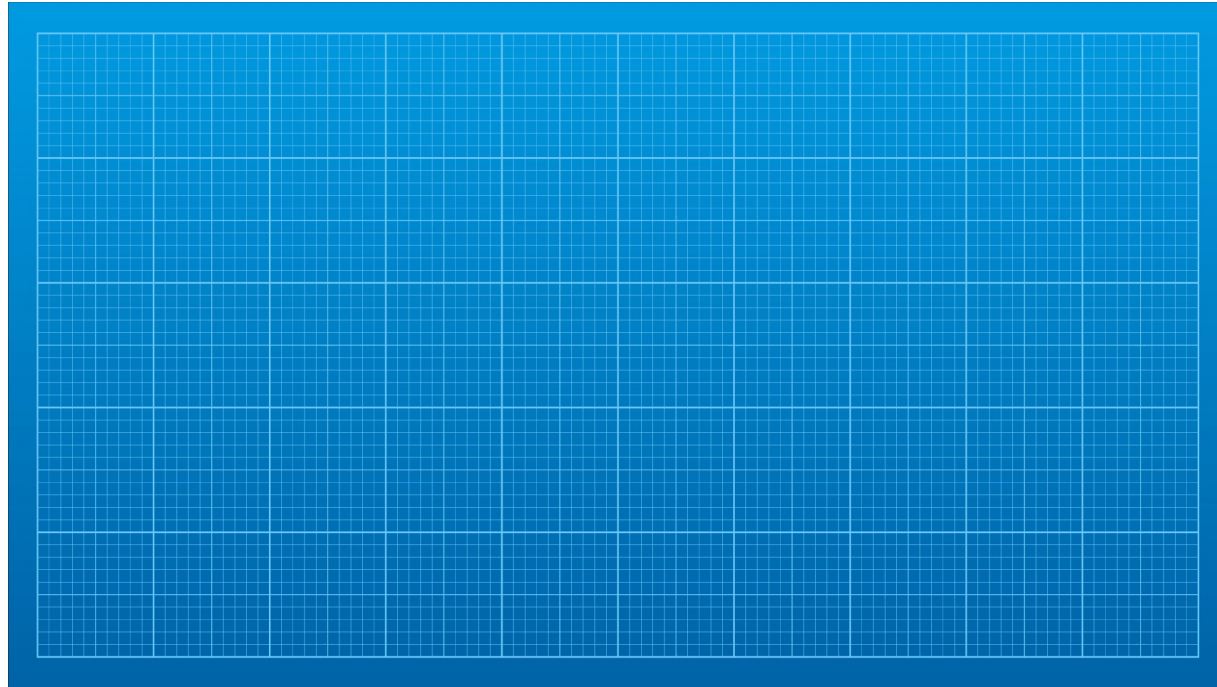




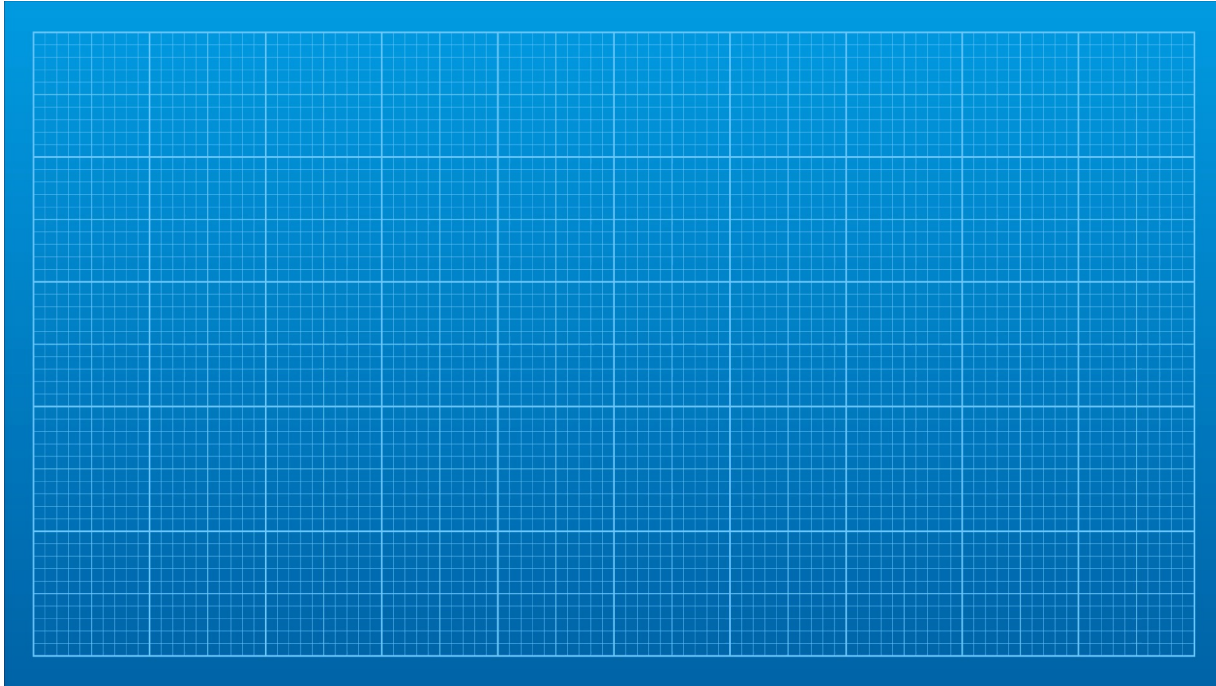
**SAFETY IS IN YOUR HANDS.
EVERY DIG. EVERY TIME.**



Excavator Video



Facility Operator Video



RISING TO THE CHALLENGE

of Damage Prevention



CONFERENCE & EXPO 2024



April 14-18, 2024 • The Broadmoor • Colorado Springs, CO





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