The Next Generation of Reducing Damages Through Shared Responsibility

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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.



Standard





Systemic Damage Reduction



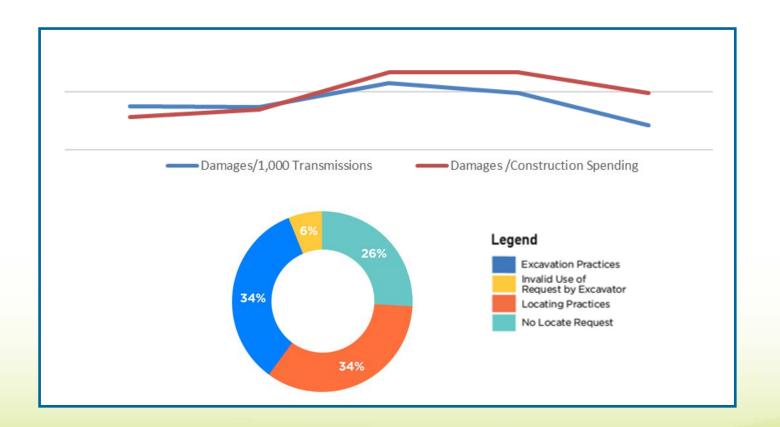




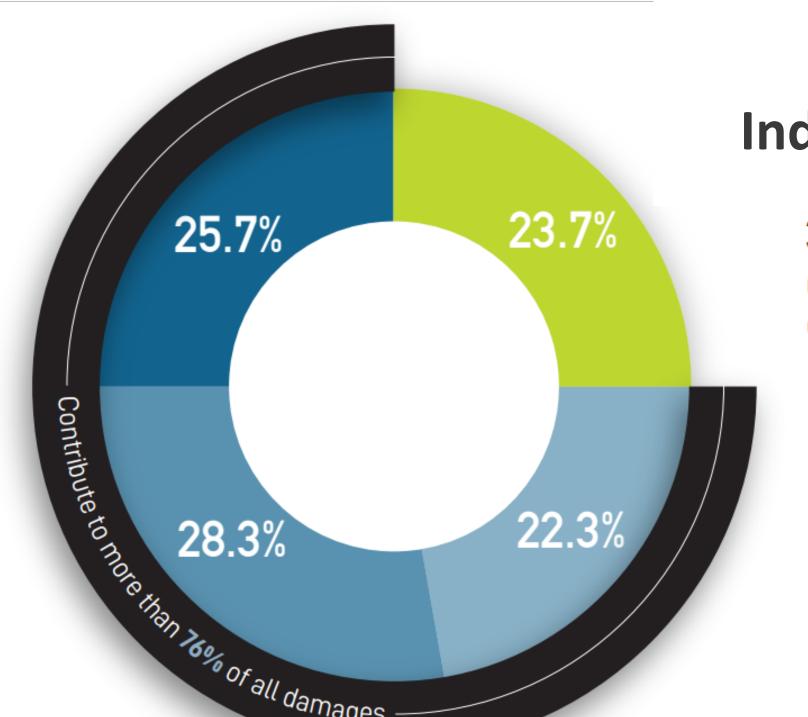


Damage Prevention Today

- Current practices are not significantly reducing damage trends
- No single answer, root cause or stakeholder group







"50 in 5" Industry Challenge

3 Areas Contribute to More Than 76% of all Damages

Legend

- Failure to notify 811
- Failure to pothole, maintain clearance, etc.
 - Failure by locator to mark accurately or on-time
- Other 19 damage root causes
- Contribute to more than 76% of all damages





DIR

- Data on excavation damages and near-misses from <u>all</u> affected parties.
- Analysis of data submitted for a given year published in annual report and online interactive dashboard.



DIRT Report for 2021 – Roadmap for Future

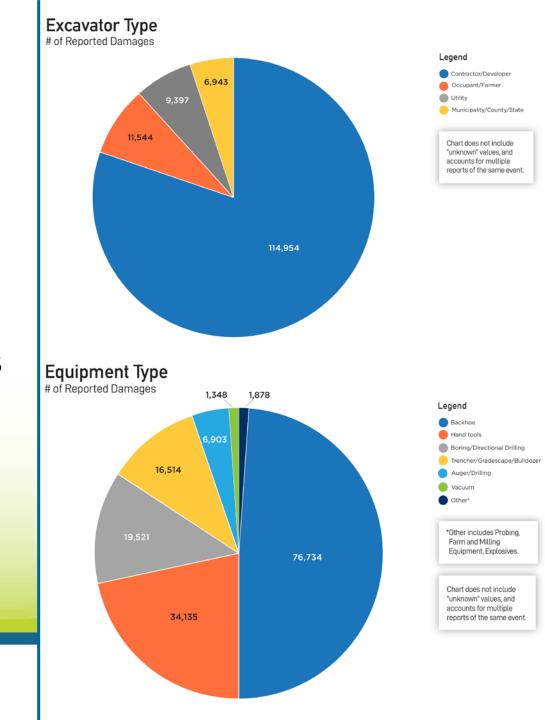


- Documents most pressing *and* consistent issues in damage prevention.
- Outlines recommendations and priorities based on key findings.
- Opportunity for self-evaluation.
- Approximately 11% of reports submitted are multiple reports/perspectives on the same event.
- Top submitting industries are **natural gas** (29%), **excavators** (29%), and **telecommunications** (23%).



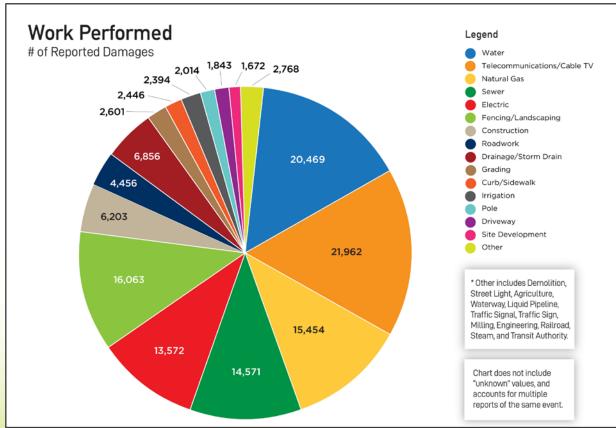
Excavation Information

- Contractor/developer is the primary excavator type involved in the greatest number of damages.
- Backhoes are involved almost 50% of all reported damages followed by hand tools at 21%.



Utility Work is the Most Prevalent Type of Work Performed

- Water is the most prevalent work type followed closely by sewer and telecom.
- Many damages involving
 Horizontal Directional Drilling
 (HDD) can be attributed to
 facility operators, or their
 subcontractors, hitting each other
 and/or themselves.





76% of Reported Damages - Attributed to Top 6 Root Causes

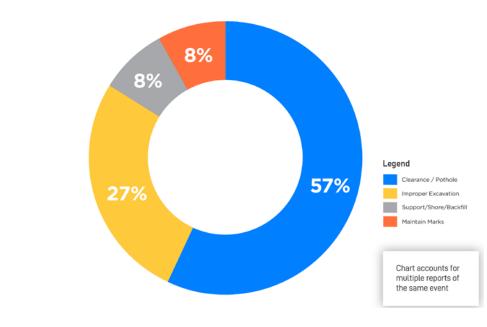




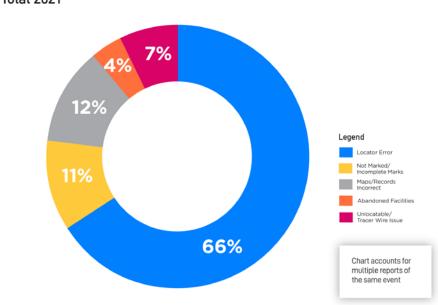
Clear Root Cause Trends

- Digging without notification to 811
- 2. Excavators failing to pothole and failing to maintain sufficient clearance
- Facilities not being marked or being marked inaccurately due to locator error and/or incorrect facility records/maps.

Excavation Practices Root Causes % of Total 2021



Locating Practices Root Causes % of Total 2021



No Notification to 811 Remains a Priority

• No notification made to 811 center remains the top root cause with over a quarter of all damages still attributed to no notification.



- CGA excavator research tells us that professional excavator awareness of 811 is very high, yet 60% of all damages due to no notification can be attributed to professional excavators.
- It is important to note that 36% of those professional excavators failing to contact 811 were likely working on projects associated with utilities (natural gas, electric, telecommunications) and/or municipalities (water, sewer, road, sidewalks, etc.).



Sense of Urgency

- Increased construction spending has consistently proven to correlate with an increase in damages. <u>Infrastructure funding</u> <u>will stress system.</u>
- Locate requests to 811 centers (one call centers) increased by 8% over the previous year, with 811 centers seeing a significant shift in locate request methodology toward electronic rather than voice.

Construction
spending and 811 center
outgoing transmissions are
increasing over time.

This suggests increased excavation activity that could stress an already overburdened 811 system.

Between 2016 and 2021:

30%

increase in 811 center outgoing transmissions

13%

increase in construction spending (in 2021 USD)





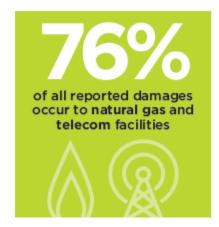
DIRT Report Recommendations

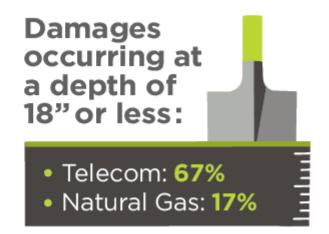
Prioritize Damage Prevention Efforts Based on Immediate Needs and Greatest Impact

- <u>Tailor damage prevention efforts</u> and investments to address the **leading individual root causes**.
- Strengthen engagement with public works stakeholders.
- Educate professional excavators on areas with the greatest potential impact on damage prevention consistent and efficient use of 811 for all projects, and safe excavation within the tolerance zone.



Sharing Key Takeaways & Findings







of damages are caused by just SIX root causes

These root causes are also some of the most persistent causes of damages year after year.

Most Persistent Damage Causes*

- Ligging without notification to the 811 center
- 2. Failure to pothole and/or maintain clearance
- Locating issues caused by incorrect and/or outdated maps



^{*} List does not include "unknown" values

Data and Research What DIRT data doesn't tell us?

White Paper 2022

Natural Gas: Leading the Damage Prevention Industry

REPORT

White Paper - Natural Gas: Leading the Damage Prevention Industry



RESEARCH

■ Interview Report: Gas Distribution Industry Exploratory Study



RESEARCH

■ Survey: Natural Gas Industry

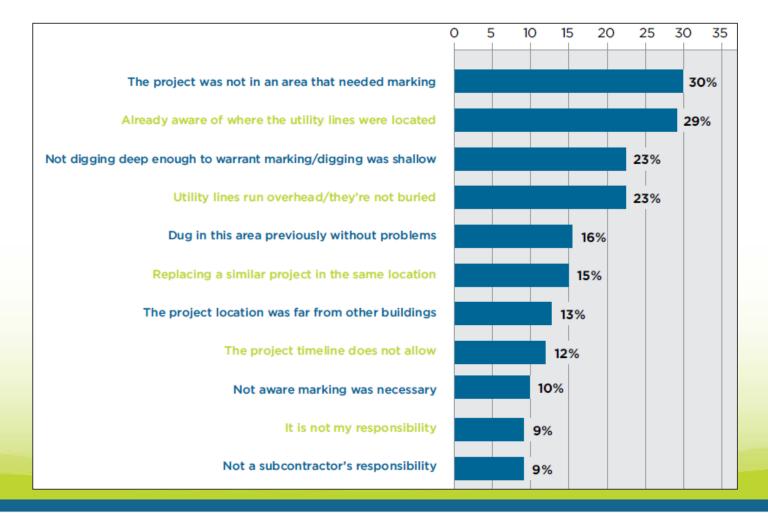


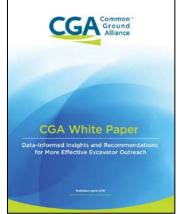
RESEARCH

Active Digger Research 2021 Data Sheet



Professional Excavators Reasons for Not Contacting 811

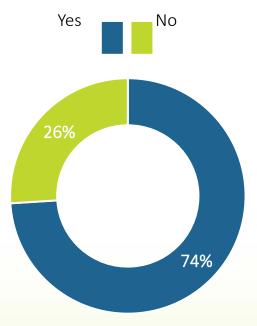






Active Digger Research

Are you aware of service?



Q: Are you aware of a free national phone number and service that people can contact to have underground utility lines on their property marked prior to starting any digging project?



THE REASONS ACTIVE DIGGERS HAVE NOT HAD LINES MARKED VARY

Among active diggers who have not had their underground utility lines marked:

believe they are not digging deep enough to warrant having lines marked

36% say their project was not in an area that needs marking



Locator Research: Data, Findings and Insights

Locator research methodology

402

U.S.-based locate technicians completed an online survey.



locating industry decisionmakers participated in in-depth interviews.

TOP 3 CHALLENGES

facing locate technicians:

- Area to be marked is not clearly defined - 51%
- Incorrect information provided by excavator - 37%
- 3. Heavy workload 33%



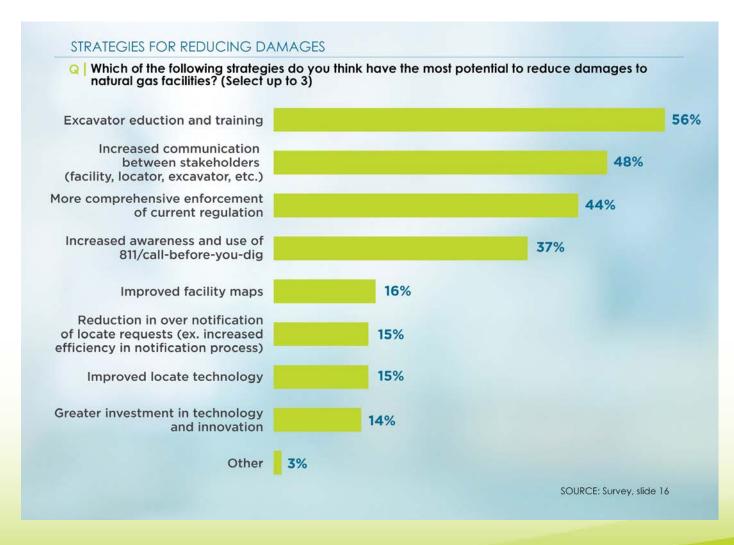




Key Takeaway Shifting the Focus

Improved Mapping and Contracts

- Focusing on internal processes and policies may be the most direct pathway to address external challenges in the short term.
- Natural gas distribution stakeholders can better reduce damages by focusing on improved facility mapping and contracts that prioritize damage prevention.

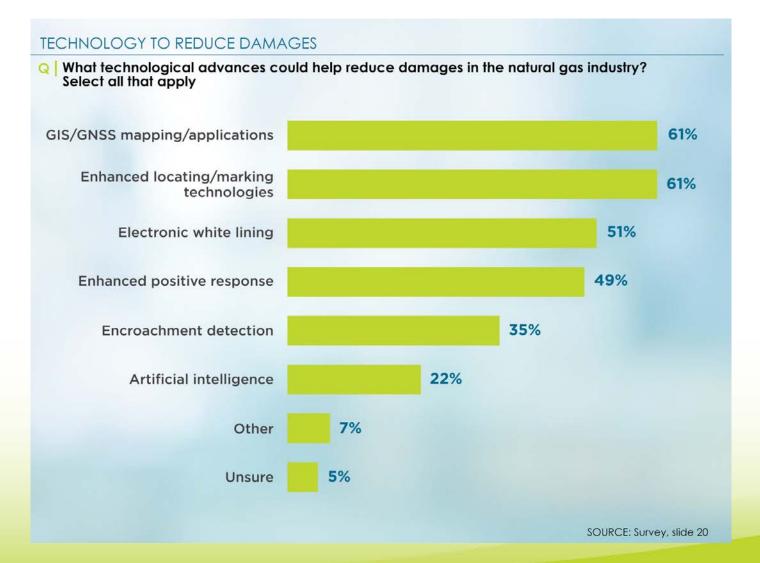




Key Takeaway

Innovation and technological advancements

Technology and innovation are critical to damage prevention and reducing future damages.





CGA - Self Evaluation

- ✓ How are CGA programs, initiatives, messaging and tools supporting these key findings? ■■ Best Practices,
 Technology, 811, Case Studies
- ✓ Where should we focus to ensure the greatest return on investment (ROI)?

 Next Practices
- ✓ Are we making sufficient progress? → "50 in 5" Challenge



CGA Programs and Initiatives

DIRT Data Collection



Goal

Drive down damages nationwide by using information and data to consistently target critical challenges and top damage root causes.





Systemic Damage Reduction



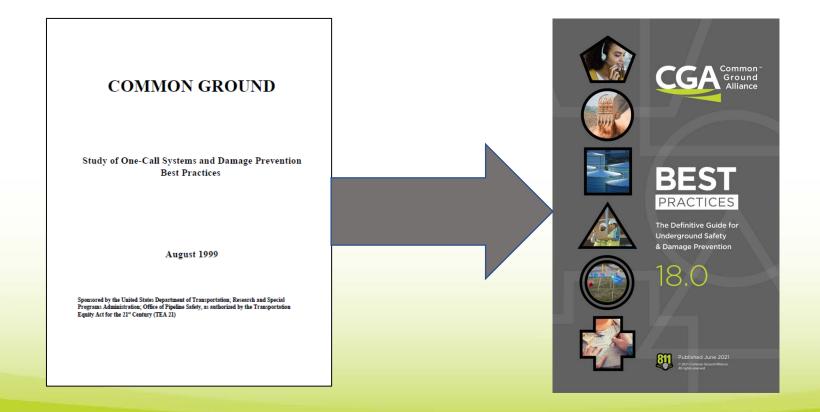






Document Existing Best Practices

What practices are in place today?





Best Practices

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





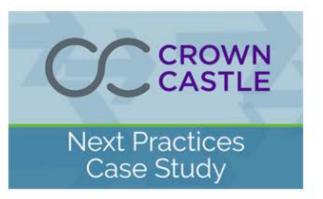








Documenting Case Studies



CASE STUDY

Next Practices Case Study - Crown Castle



CASE STUDY

CASE STUDY

TECHNOLOGY

Technology Case Study - People's



CASE STUDY

Technology Case Study - Exodigo

TECHNOLOGY



CASE STUDY

TECHNOLOGY

Technology Case Study - Alliance Water Resources & Public Water Supply District 6





TECHNOLOGY



CASE STUDY TECHNOLOGY



CASE STUDY

TECHNOLOGY





Awareness vs. Behavior Change









MAKING THE 811 SYSTEM MORE EFFICIENT

HOW EXCAVATORS CAN HELP











MAKING THE 811 SYSTEM MORE EFFICIENT

FACILITY OWNER/OPERATORS & LOCATE PARTNERS CAN HELP

DAMAGE PREVENTION STARTS EARLY

Accurately Record Where Cable/Wires are First Placed



LOCATING & MARKING

- Implement Software/Utilize Online Portals
- Look for New Ways to Improve Efficiency/Accuracy
- Provide On-Time Response & Accurate Locates
- Make Markings Highly Visible, Factor In Weather/Terrain
- Provide Good Contact Information
- ✓ Keep Mapping
 Data Up to Date

FOSTER RELATIONSHIPS & PARTNERSHIPS

 Keep Good Lines of Communication with Other Stakeholders





DOWNLOAD FULL VERSION







Toolkits and Resources





DIRT









CONTACT

Membership & Engagement ▼

Publications & Media ▼







♠ Excavator Toolkit



TOOLKIT

■ National Safe Digging Month Toolkit



TOOLKIT

811 Tips for Facility Owners/Operators



TOOLKIT

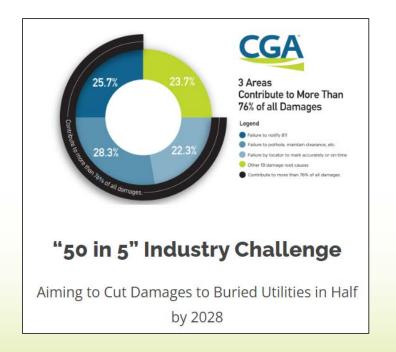
811 Tips for Excavators Toolkit



Damage Prevention – Looking Ahead









What is the future of damage prevention?







Next Practices Initiative

- Clearly identifies and focuses the industry on the advancement of effective solutions to address the most critical damage prevention challenges.
- Targets most critical issues
 - Data driven
 - Identifies inefficiencies
- Industry Call to Action
 - Opportunities for Systemic Improvement
 - Roadmap to Realizing Systemic Improvements





Status Report: Increase effective implementation of electronic white lining.

Incentives to Implement Electronic White Lining

- Improve excavator confidence in the damage prevention system
- Reduce system volume and increase efficiency

Call to Action: Document successes/lessons learned and track effectiveness.



Status Report: Quantifying Unchecked Demand and Leveraging Technology

Incentives for Addressing System Demand

- Technology already exists to address many issues
- Understanding primary drivers of system volume is key to adjusting demand

Call to Action: More data/analysis on impact of unchecked demand. Pursue innovative processes and use of technology to increase efficiency.



Status Report: Pursue accurate and accessible GIS mapping system / database.

Incentives for Creating and/or Sharing GIS Facility Maps

- Increased efficiency (locating, planning and design, construction)
- Excavator safety
- Cost savings over time

Call to Action

- 1. Review How are you using (or not using) GIS across the organization? If you are not using GIS, why?
- 2. Identify What policies/practices are preventing your company from accessing the benefits of GIS?
- 3. Encourage and Document Sharing information to enhance damage prevention process.



Status Report: Contractually Incentivize Adherence to Best Practices

Contracts establish relationships between stakeholders and affect overall confidence in the damage prevention process.

Call to Action

- Ensure your core values are reflected in your contracts
- Review and redefine what constitutes an "effective" contract





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

- DP
- <u>ALL</u> participants demonstrate commitment to their damage prevention responsibilities through accreditation, data submission and participating in peer reviews.
- The DPI is participant-driven and operates transparently and in service to all stakeholders.
- Participation is voluntary.
- The DPI is not punitive. Accreditation does not depend upon performance. Performance speaks for itself.



Common Ground Alliance

Become an Active Member

- Brings together <u>all</u> damage prevention stakeholder groups.
- Addresses the <u>entire</u> damage prevention process.
- Includes over 1,800 individual members and 300 member organizations/ companies.



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April 17-21 • Caribe Royale Resort • Orlando, Florida

We look forward to seeing you at the 2023 CGA Conference & Expo!

April 17-21, 2023

Caribe Royal Resort

Orlando, Florida





Committee Summit Schedule

Summer Committee Summit

Details: Gulf Shores, Alabama

When: 7/31/2023 - 8/3/2023

Fall Committee Summit

Details: Indianapolis, Indiana

When: 11/6/2023 - 11/9/2023





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