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*A More Efficient, Responsive, and Safer
Damage Prevention Ecosystem?*

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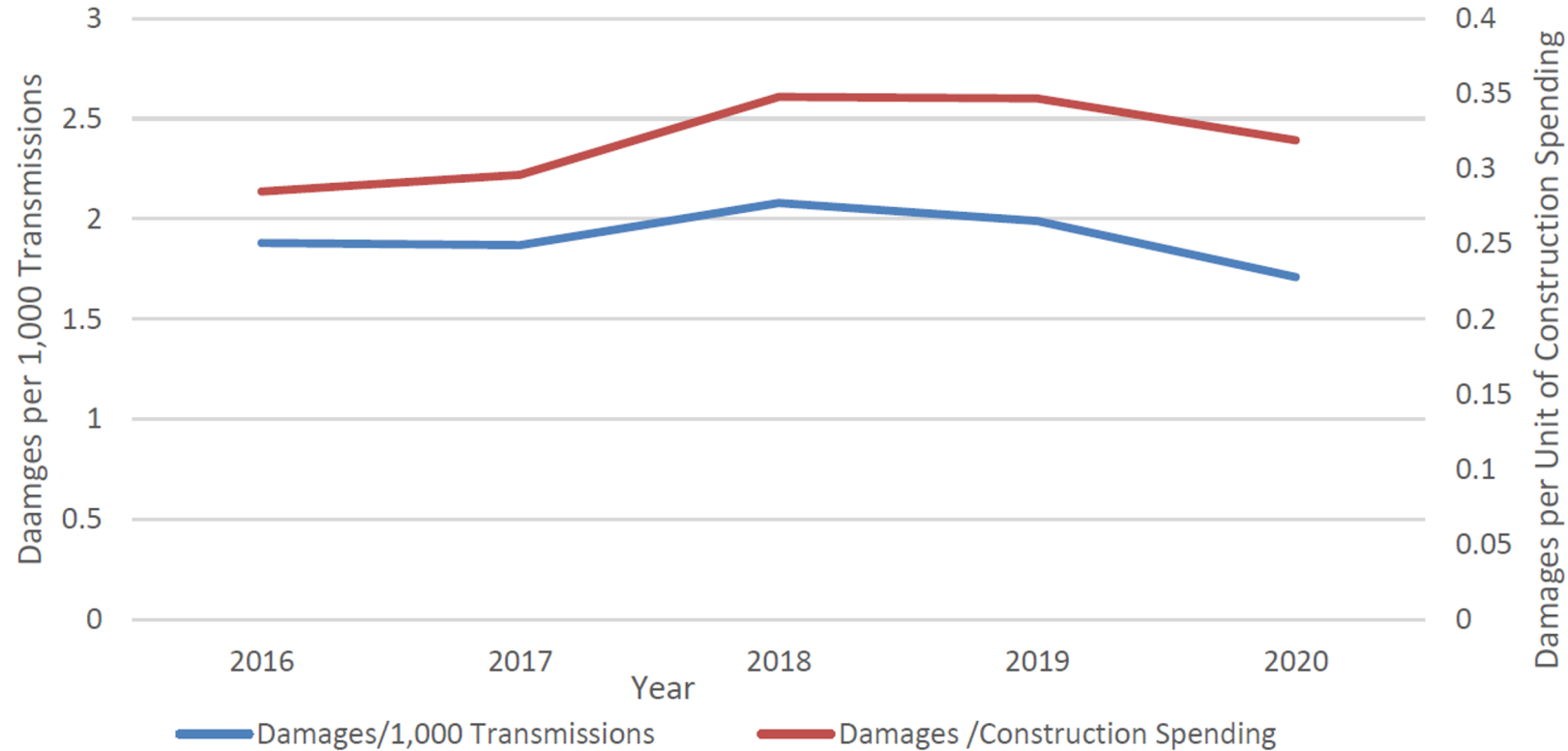
November 2021
French Lick, Indiana

- B.S.E.E., M.B.A. from University of Michigan
- 12 years as an Executive at USIC
 - Strategic Planning, FP&A, IT, Performance Improvement, Sales, Product Development, M&A
 - Sold 3x for combined \$1.3 billion
- Partner at Blood Hound that sold to USIC
- Consulted with many companies in industry (and outside) on improvements, strategy, exits, etc.
- Worked with/for PE firms like Kohlberg & Co, KKR, Sun Capital, OMERS PE, Leonard Green, etc.
- Former Co-Chair of Data Committee and Current Lead of Report Team on DIRT Report



Damages from 2016-2020

5-Year Trend of Damages per 1,000 Transmissions and per Unit of Construction Spending (*millions of 2020 dollars*)

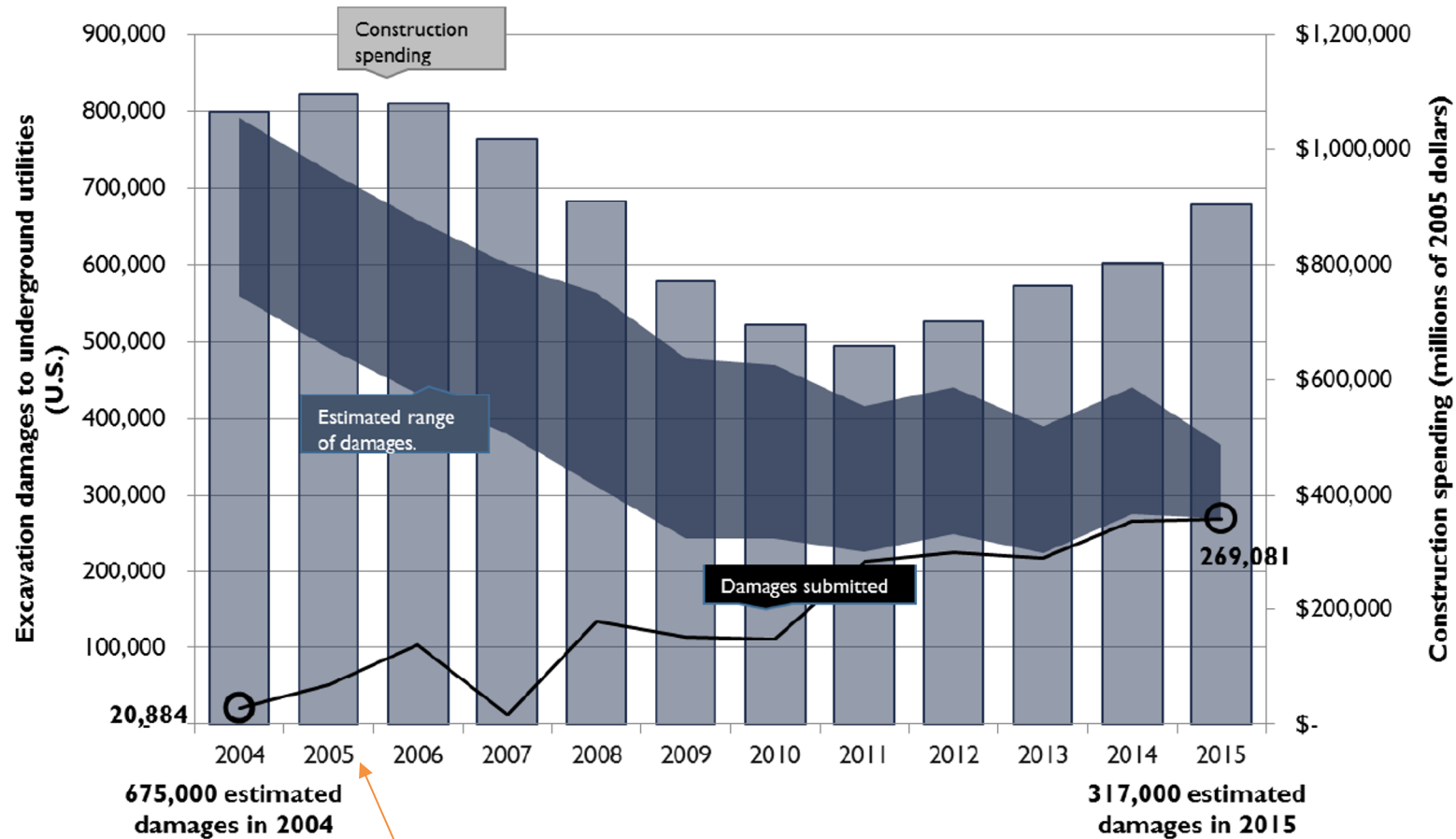


Source: 2020 DIRT Report

- Damages per Excavation Activity has flat-lined for five years



Damages 2015 and Before



Source: 2015 DIRT Report

- There were steady improvements from 2005-2015

'05-'15: Low Hanging Fruits Get Picked

- 811 is established in 2005, marketed, and used
- More mandatory membership in One Calls in more states
- Industry adoption of available technologies
 - Mobile phones, texting
 - Mobile data
 - Laptops and tablets
 - GPS, Google Earth, and other location-based products and services
 - Ticket management systems and logistics

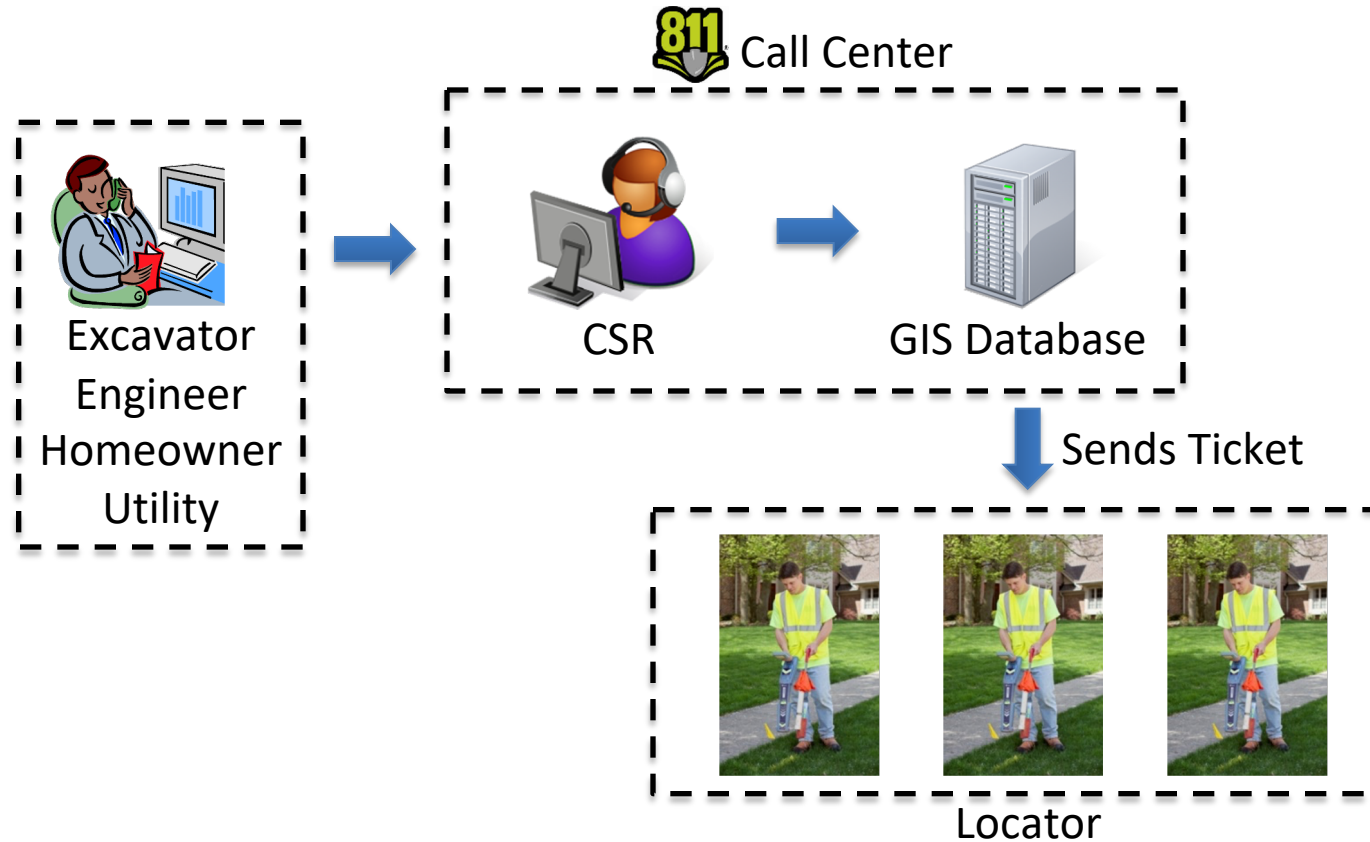


'16-: Very Slowly Climbing Up The Tree

- Damage prevention ecosystem largely the same way as 30+ years ago – rigid, 1980's
 - Regulatory/legal constraints
 - Private locating, S.U.E., design, updating of locate data, etc. are not well integrated into one call process
- Industry slow to adopt available technologies
 - ML / AI / Predictive Analytics talked about a lot but few stakeholders *really* use it
 - Positive response still weak in some/many states
- Little sharing/brokering of available data

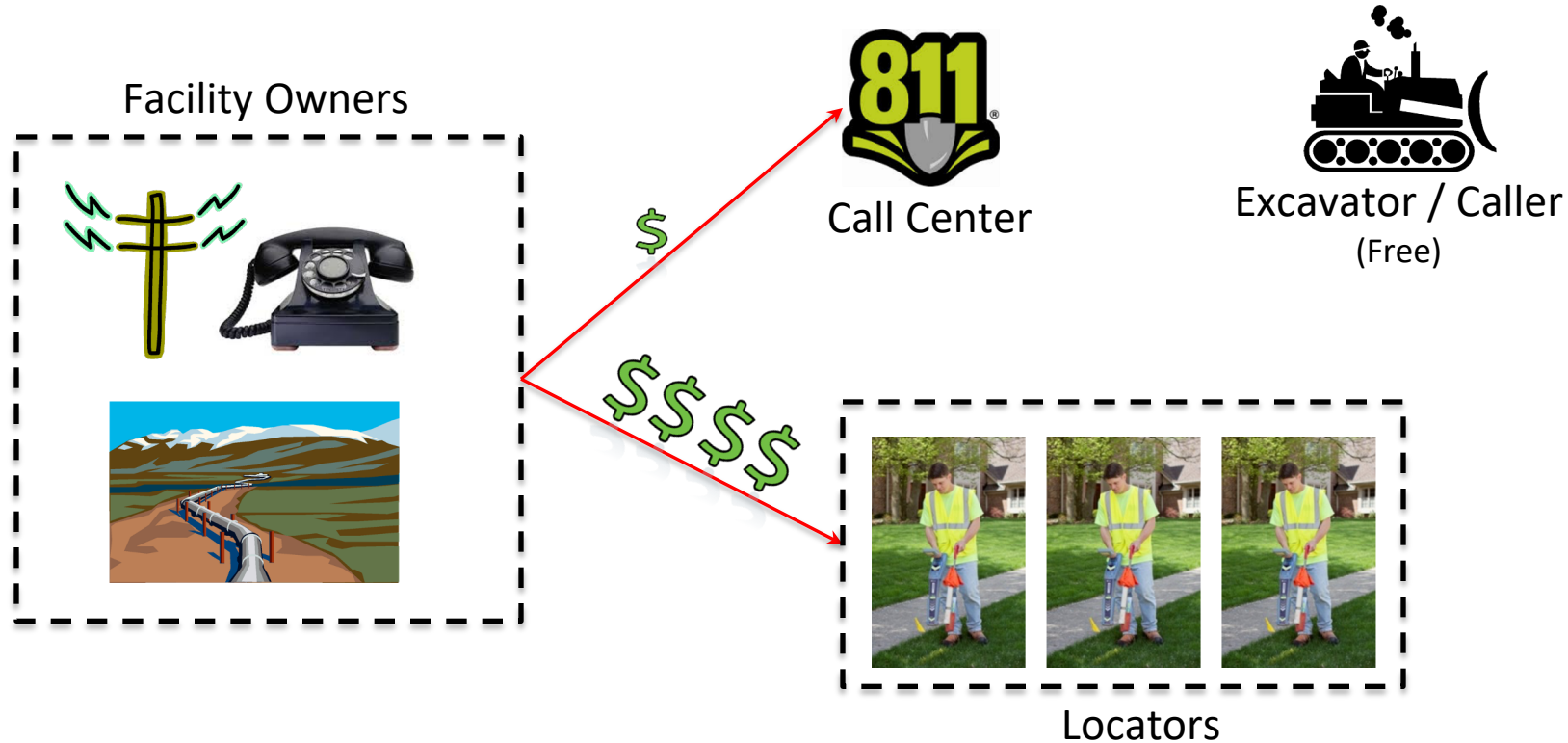


Basic One Call Process



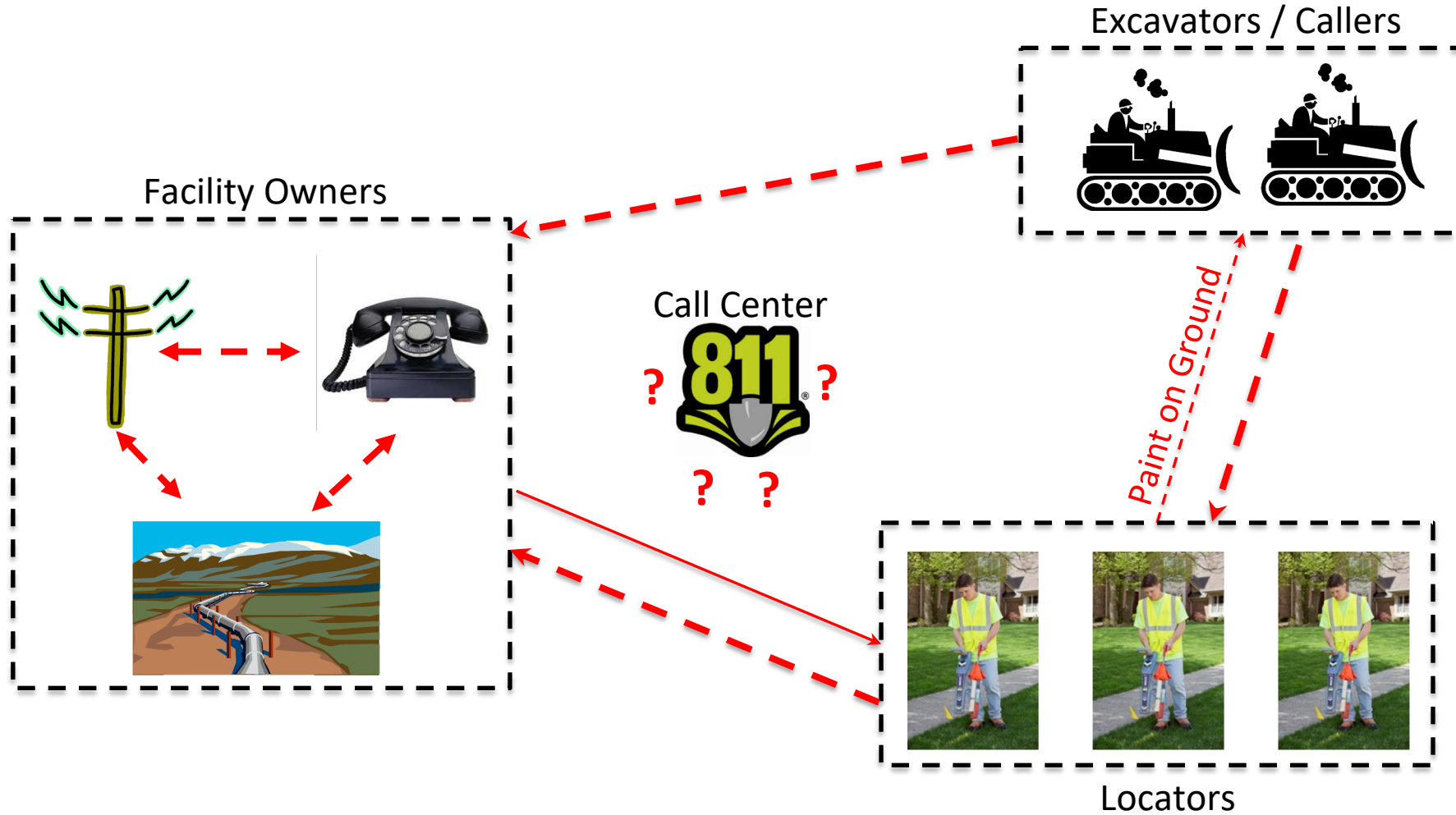
- Process takes 48-72 hours – or longer
- Process has fundamentally not changed in 30+ years

Money Flow



- Money Flow has not changed for 30+ years

Underground Facilities Data Flow



- Why is there almost no sharing of data?

Questions About Current System

- Why does Excavator have to wait 48+ hours for a locate?
 - What if Excavator has locators on staff?
 - What if Excavator wants to pay plant owners or others for expedited locating?
 - What if Excavator has the most up to date facilities GIS data and *knows* that there are no facilities in conflict?
 - What if Excavator potholes?
 - What if Excavator got the latest facilities data immediately and can determine next steps?
 - What if Excavator has x-ray vision? Still wait?
- Why does Excavator have almost no recourse if locates are late?



Questions About Current System (cont'd)

- Why does Excavator/Designer pay nothing?
 - Is the locating service valuable or not to Excavator/Designer?
 - Why are plant owners the only stakeholders paying into this ecosystem?
 - Academic research on free goods/services
- Why isn't there robust competition among 811 locators?
 - Why is #1 larger than all others combined?
 - Why do #1 and #2 have ~80%+ market share of non-specialized outsourced 811 locating



Questions About Current System (cont'd)

- Why are projects delayed 48+ hours and people locating the same places day after day?
- Why is there so little sharing of data between stakeholders?
- Why aren't the one call centers clearing houses for private locating and S.U.E. services?
- Why don't the one call centers have the most up to date and accurate underground facilities data
- Why isn't ML/AI used as much in damage prevention as it is in the rest of our lives?

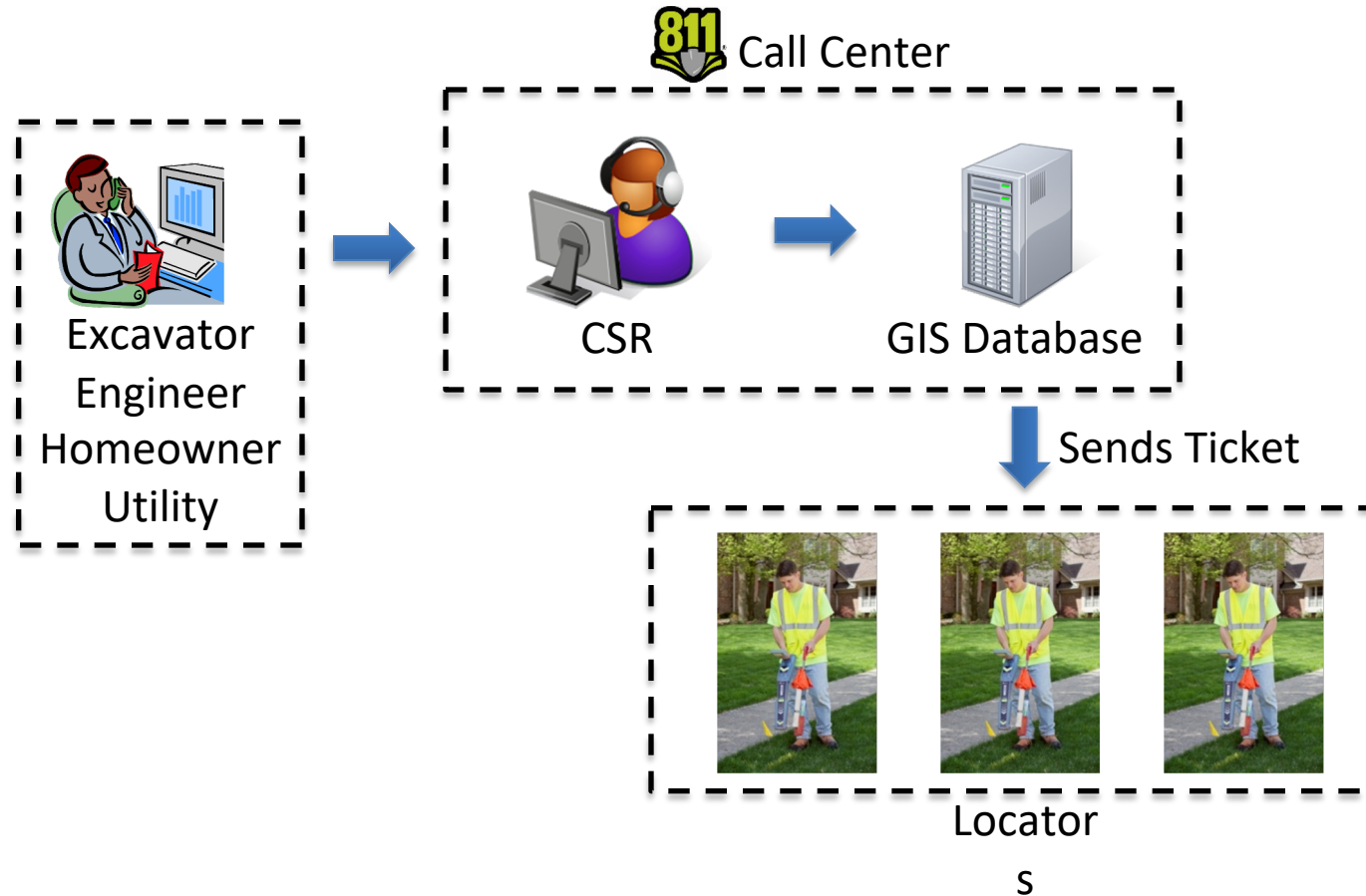


Questions About Current System (cont'd)

- Why are numerous locators driving numerous vehicles to the same site to locate facilities that are sometimes buried in the same joint trenches and conduits?
 - Inefficient use of scarce resources
 - Higher probability of site being located late
 - Environmentally harmful
- Why are crews who are aware of planned excavation activity for months (e.g., fiber install in subdivision) dumping hundreds of 811 tickets in one day?

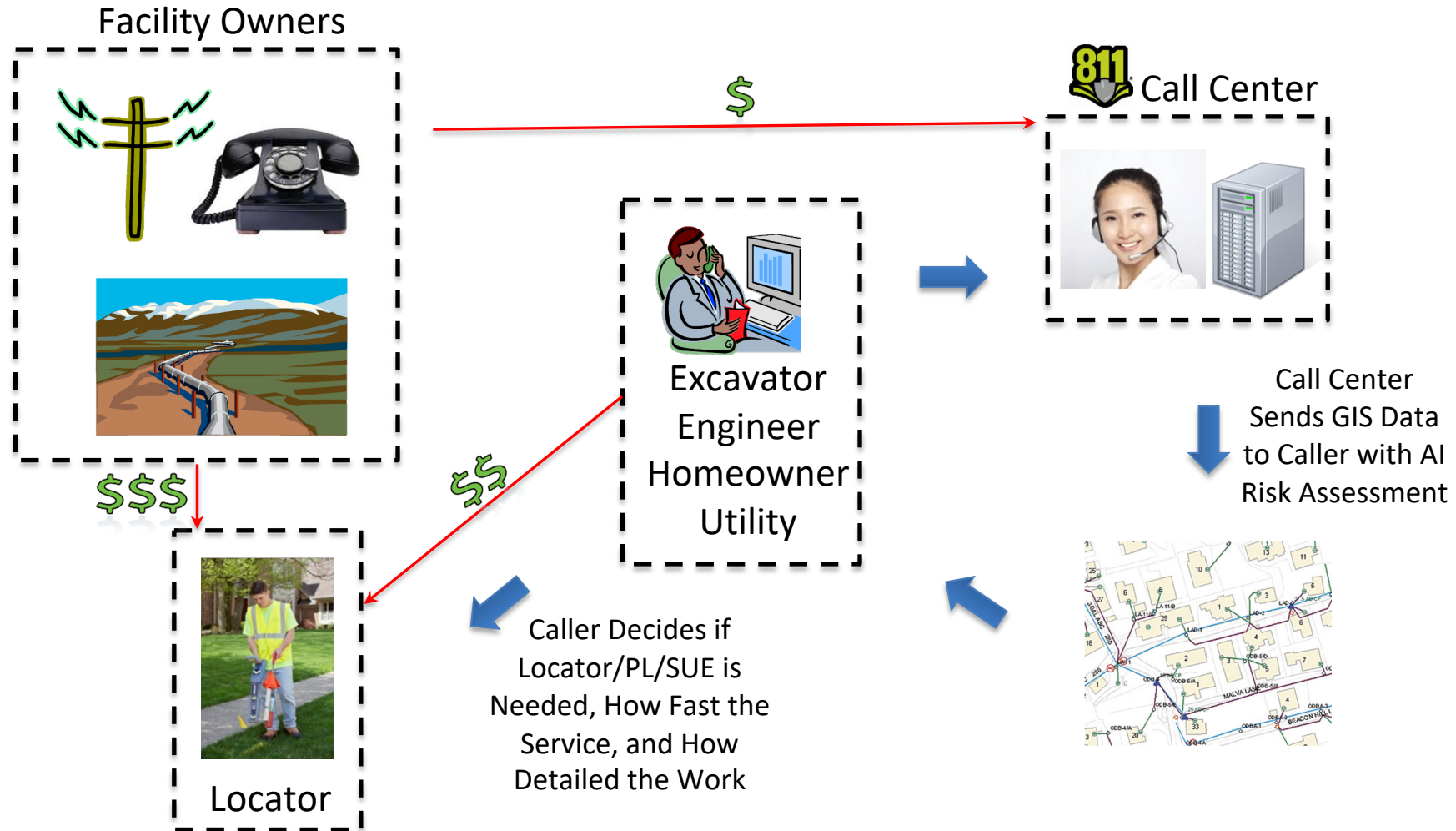


The Best System?



- Do we have the best system or the first system?

Proposed System for Discussion



- More efficient, more responsive, safer?

Proposed System Addresses?

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Proposed System Addresses? (cont'd)

- Why are projects delayed 48 hours (or more) and people locating the same locations and facilities day after day?
- Why is there so little sharing of data between stakeholders?
- Why aren't the one call centers clearing houses for private locating and S.U.E. services?
- Why don't the one call centers have the most up to date and accurate underground facilities data
- Why isn't ML/AI used as much in damage prevention as it is in the rest of our lives?



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