



GWFF

GEOSPATIAL WORLD FORUM

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Cloud Driven Quality Assurance of Contractor As-Built Data

An independent verification of
where your most important
asset is located



Let's start with a reality break





Some obvious questions about As-built

Is an As-Built map important?

- A pipe for which the location is unknown is a Liability, an accurate as-built turns it into an Asset.

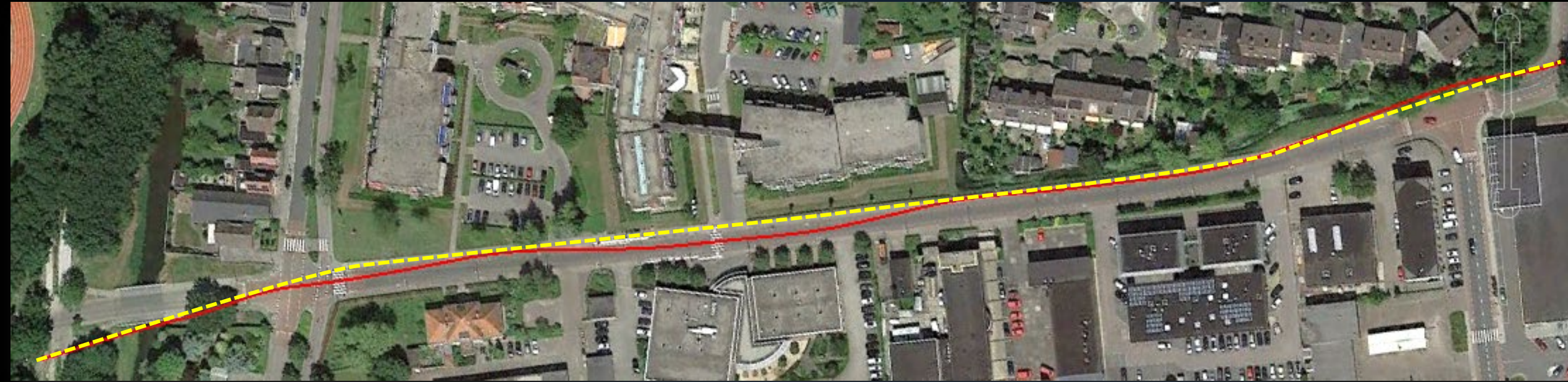
Do Utilities assign sufficient budget to assure accurate As-Built?

- In many cases surprisingly little given the importance of as As-Built. As a result, they 'get what they pay for'.

So what accuracy do they tend to get?

- Anything from an accurate as-built to the as-planned. The problem is, the Utilities GIS managers simply don't know what they get, other than that it is inconsistent!

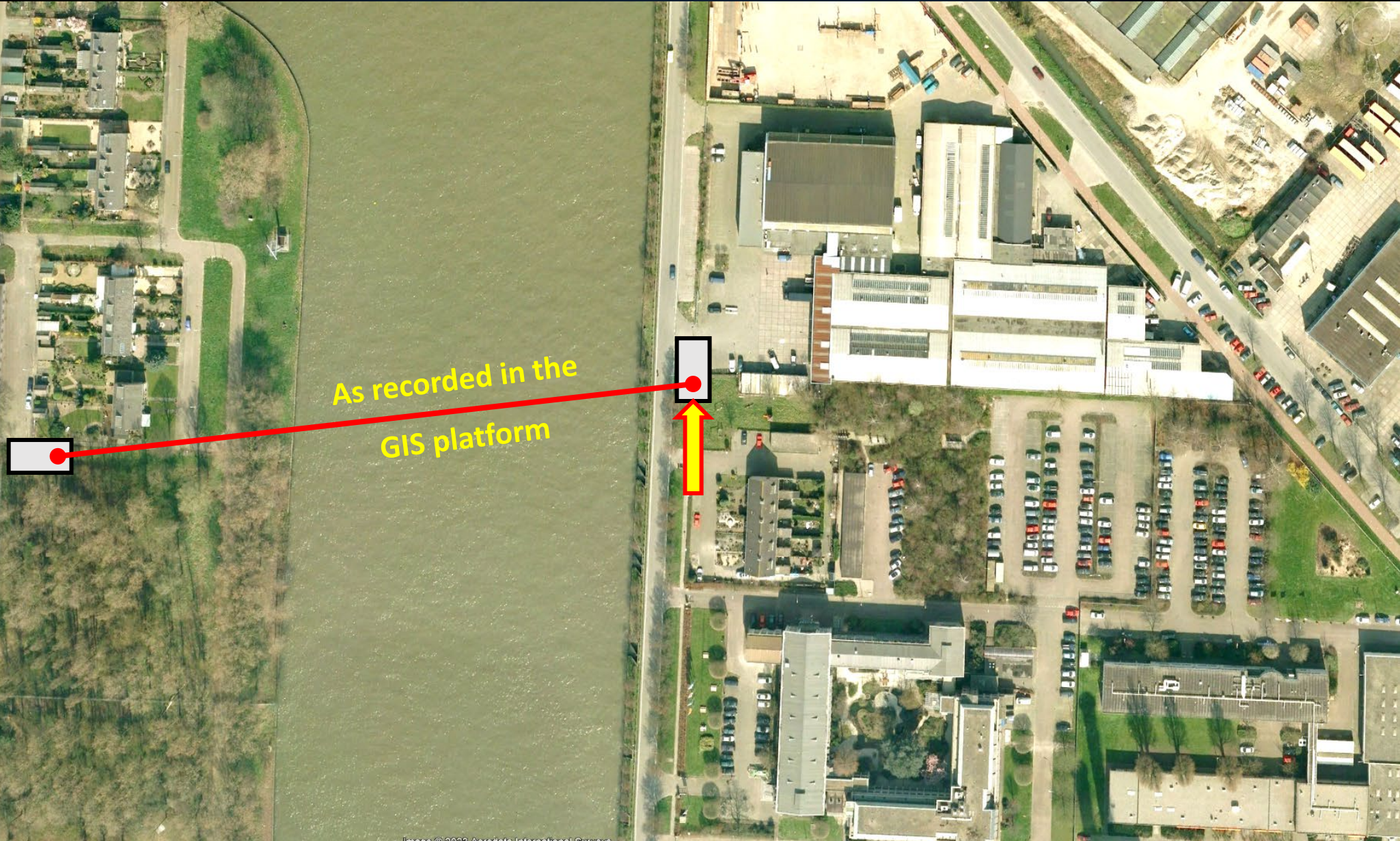
Take this 510m long HDD



The **red line** is the Gyro-Mapping result, the only true AS-BUILT

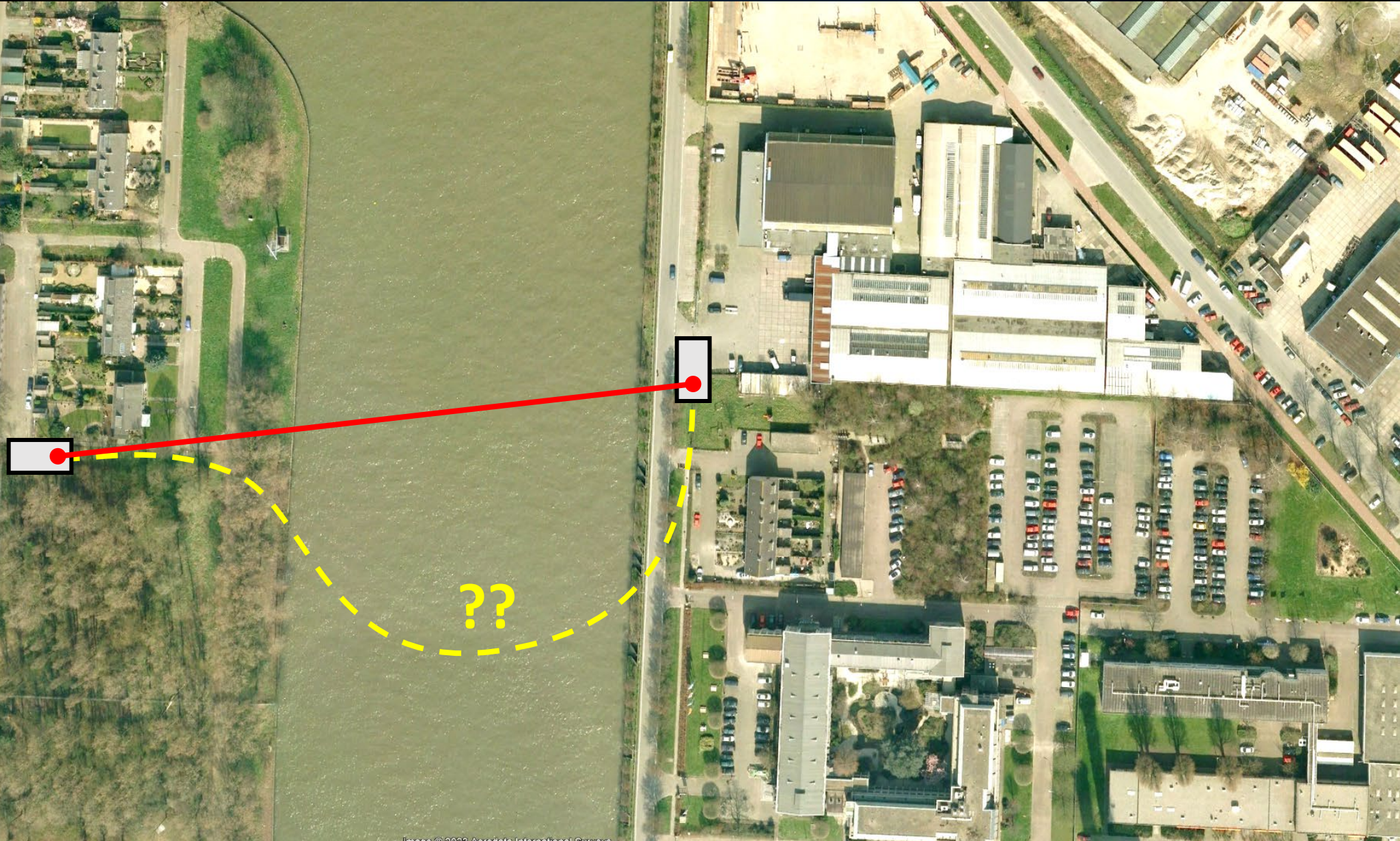
The **yellow line** was in the GIS platform, it turned out to be the AS-PLANNED!

As-planned information is a Liability, as-built data makes it an Asset



As recorded in the
GIS platform

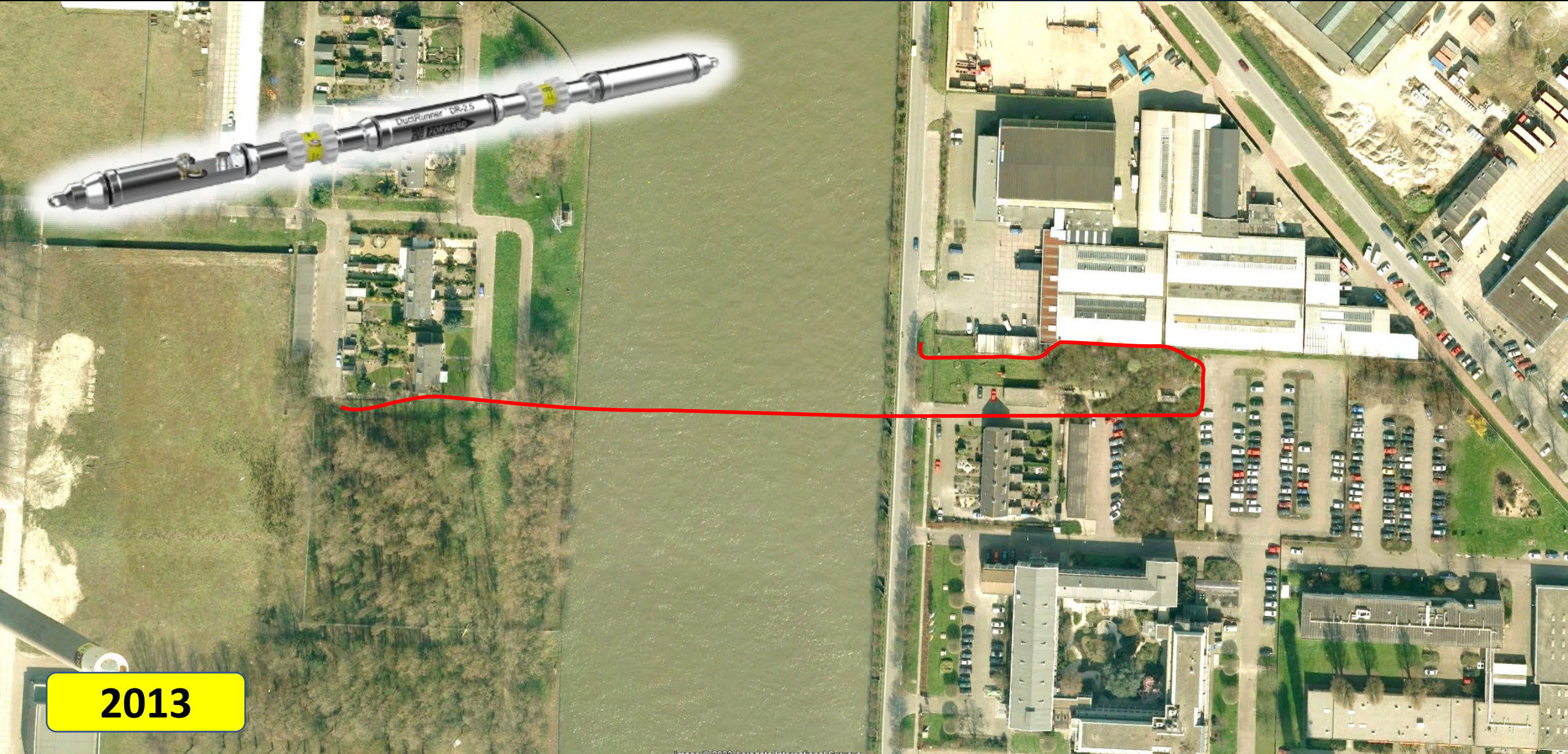
2013



2013



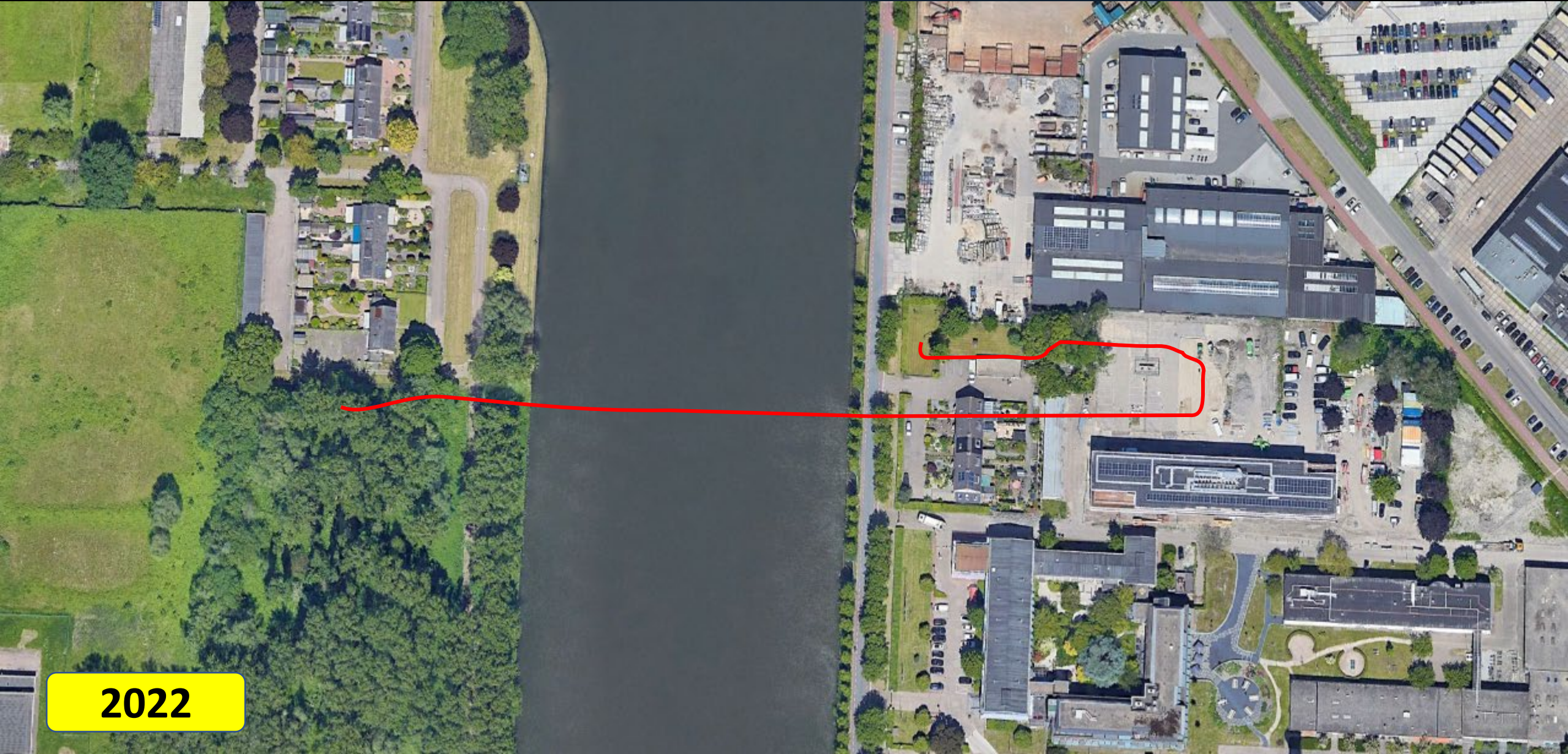
Mapping a bundle of data cable ducts



2013



Mapping a bundle of data cable ducts



2022



How can a Utility assure accuracy?

- **Intensive site supervision.**

But that is expensive because it requires manpower.

- **In-depth knowledge of the technologies used to capture XYZ data.**

Simply prescribing high-end technology does not guarantee accurate results.

- **Clear tender As-built specifications!**

If not clearly specified, how does a contractor know what is expected?



To summarize the Utility's perspective

What is Utility's primary need?

- Accurate as-built data
- Delivered on time
- Consistent point frequency
- Consistent point quality

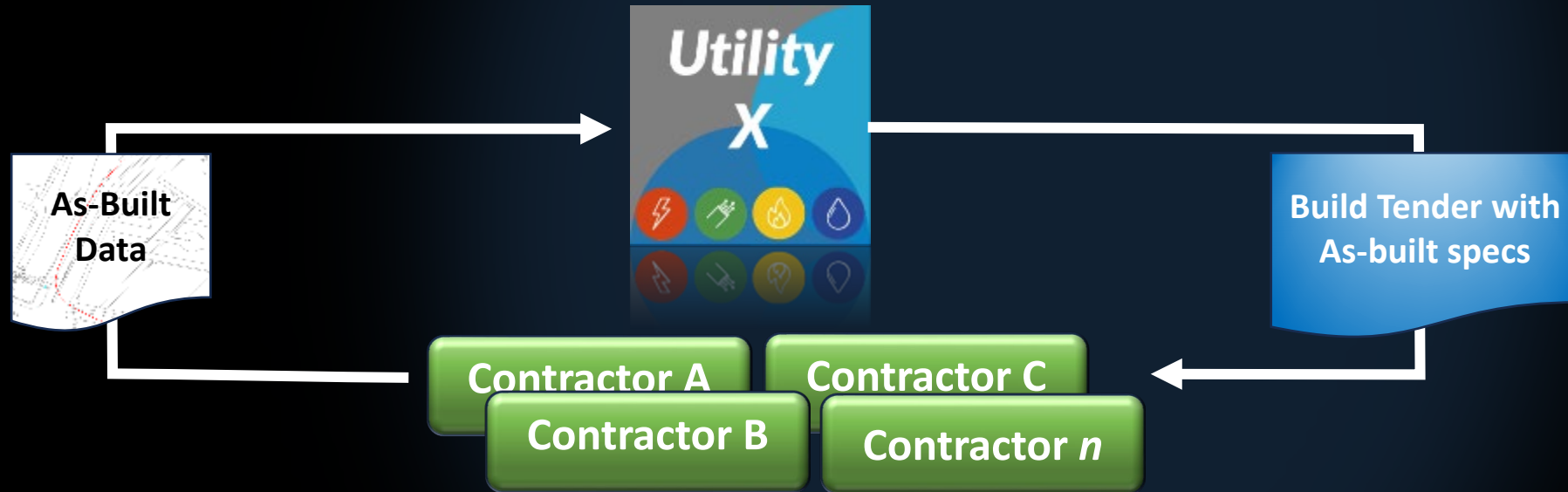
What distractions does a Utility not need?

- Equipment management headaches
- Contractor performance monitoring
- Data quality assessment

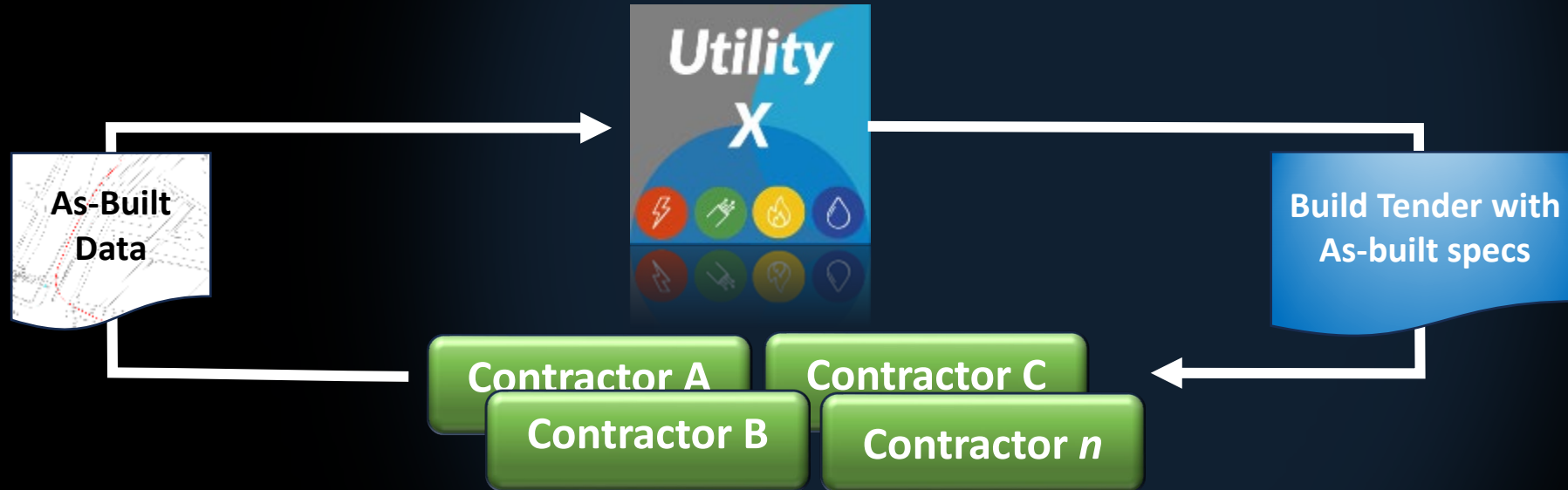
REDUCT Requirements for consistent quality as-builts



The 'flaw' in the classic As-built process

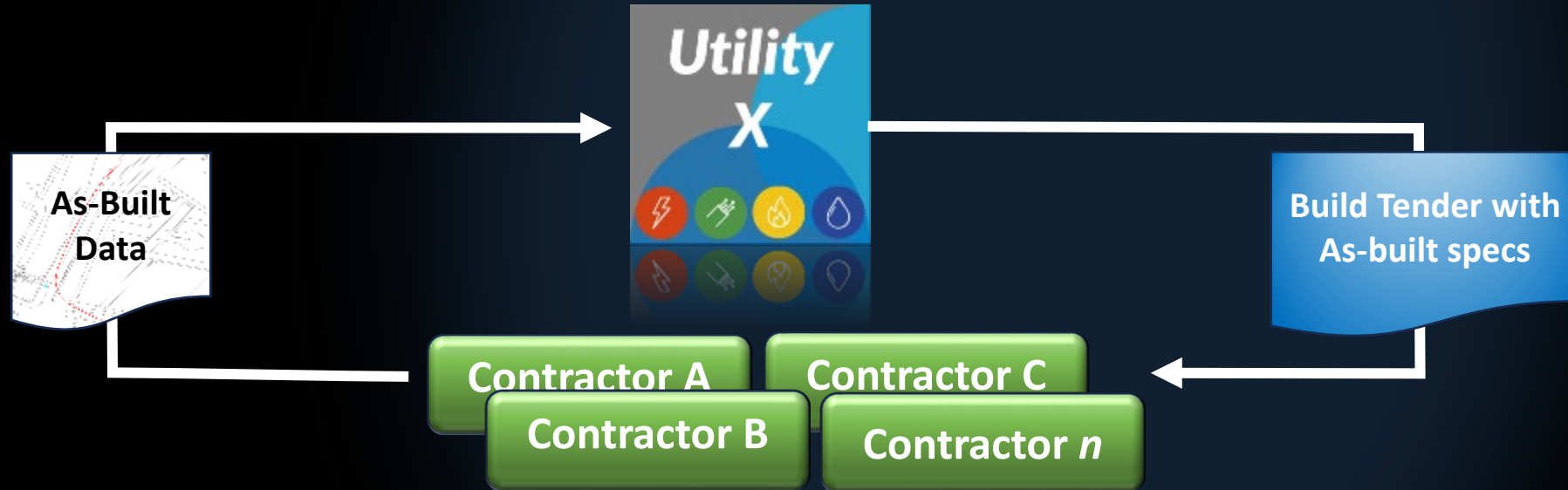


The 'flaw' in the classic As-built process



This process has an inherent **conflict of interest**.
Contractors are allowed to make As-Built of their own work!

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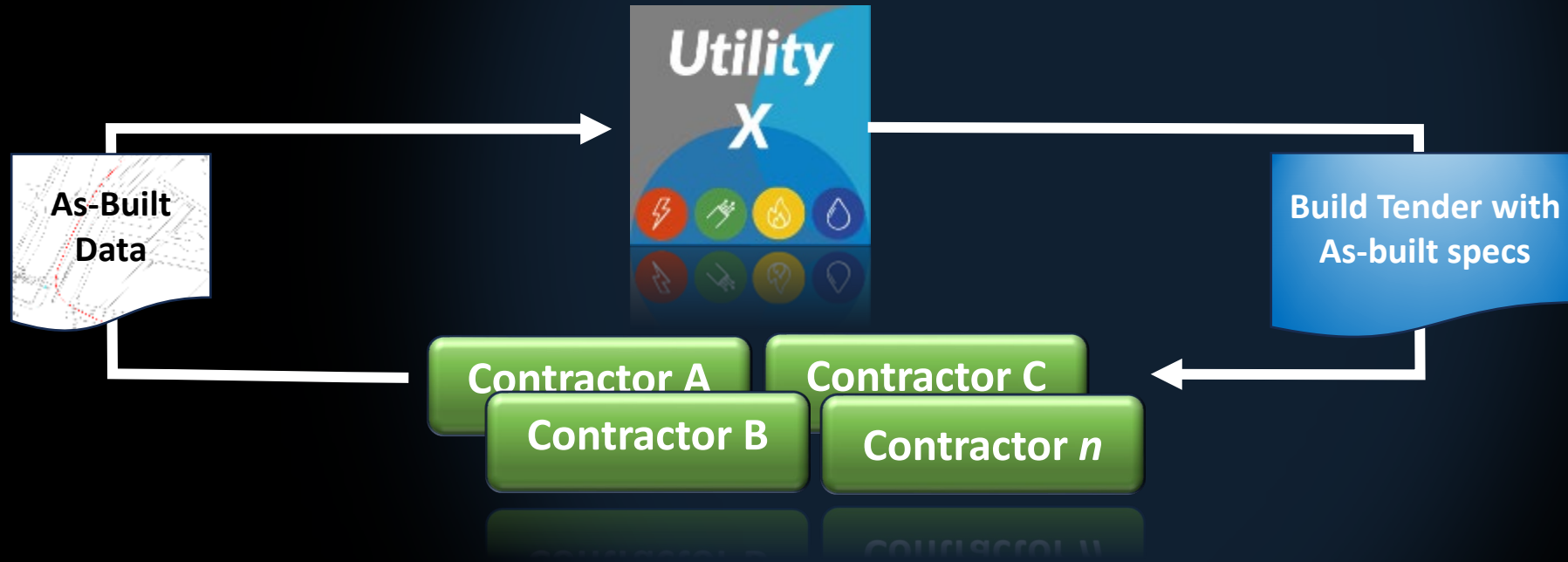


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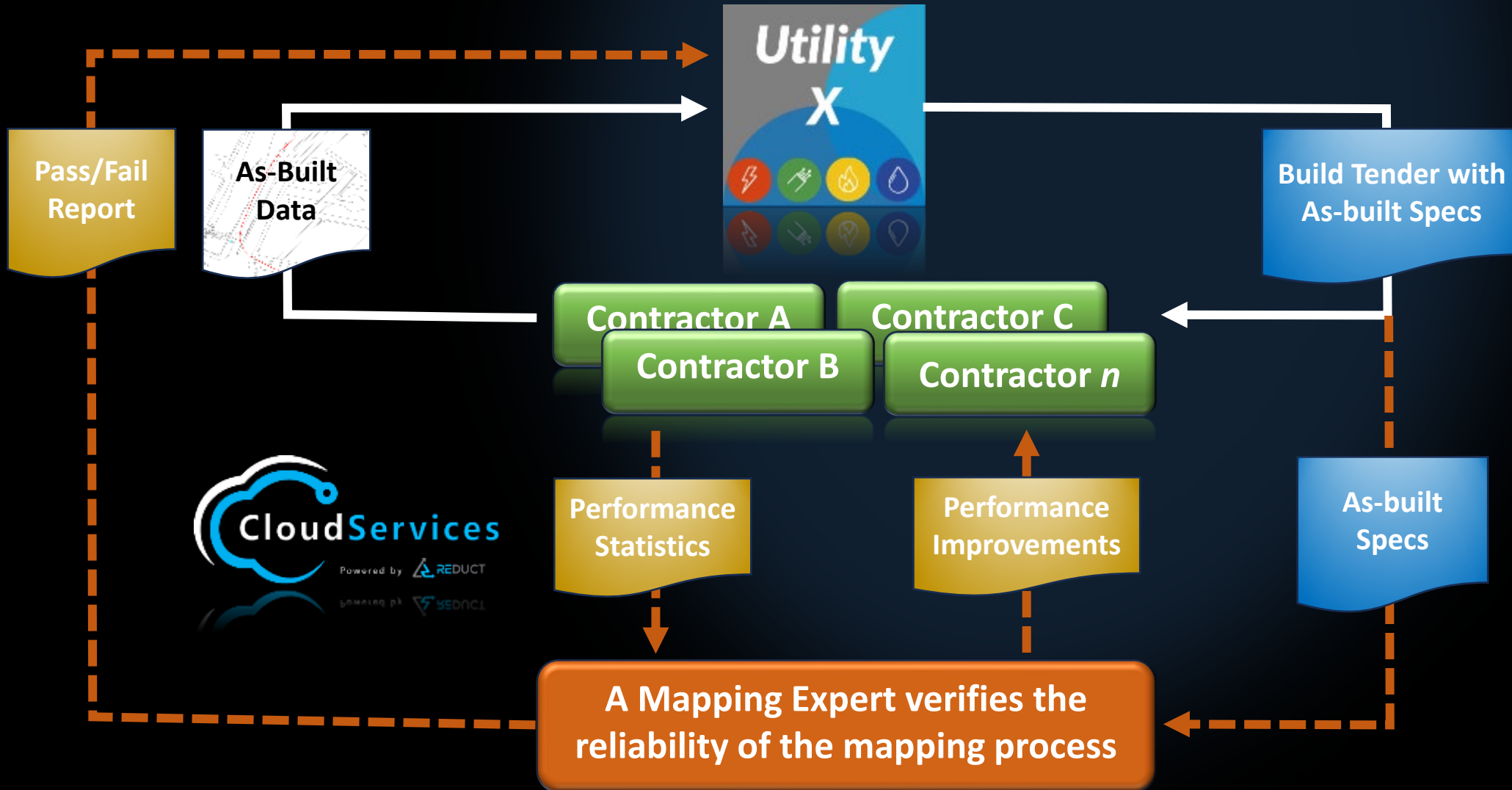
Contractors are allowed to make As-Built Data of their own work!

But it is the most efficient way.... so can we **keep the efficiency**
AND assure accuracy?

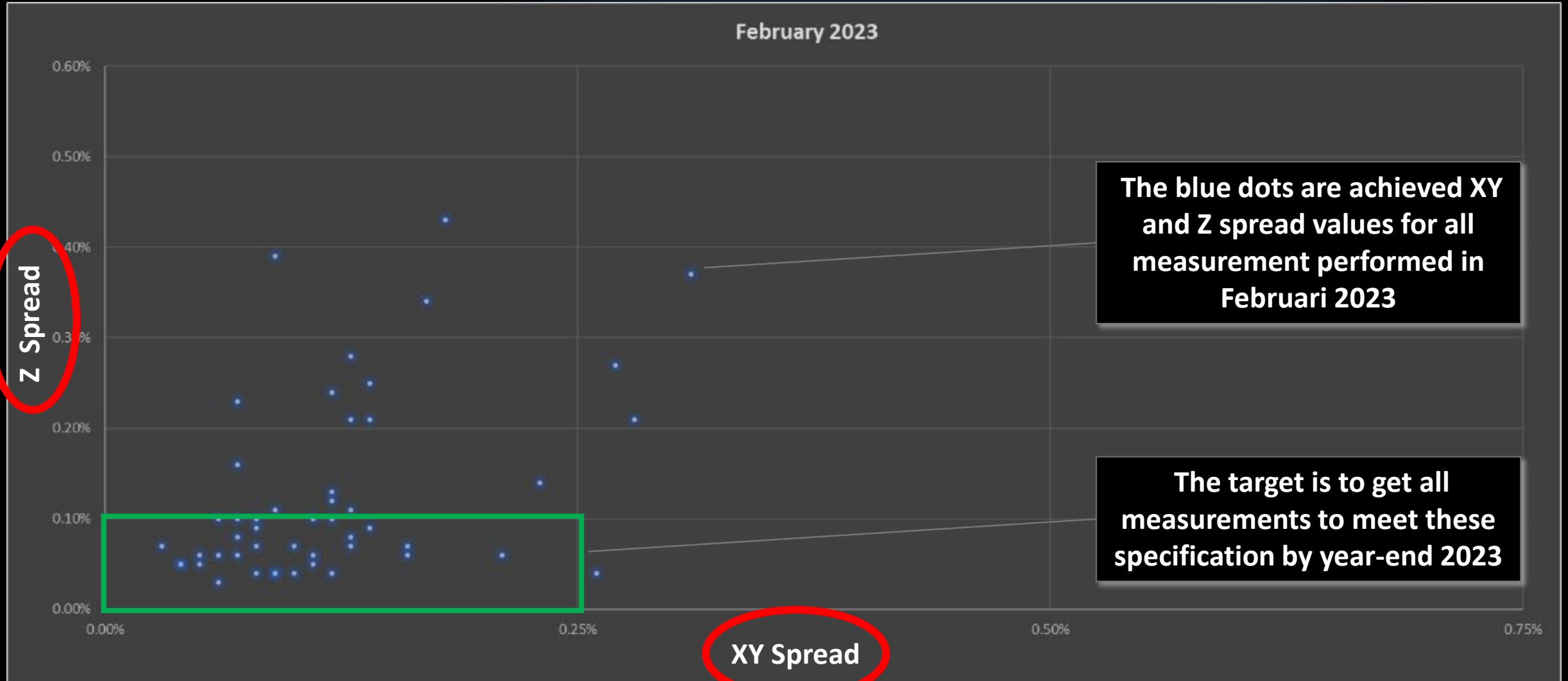
The answer: Remote QA/QC Monitoring



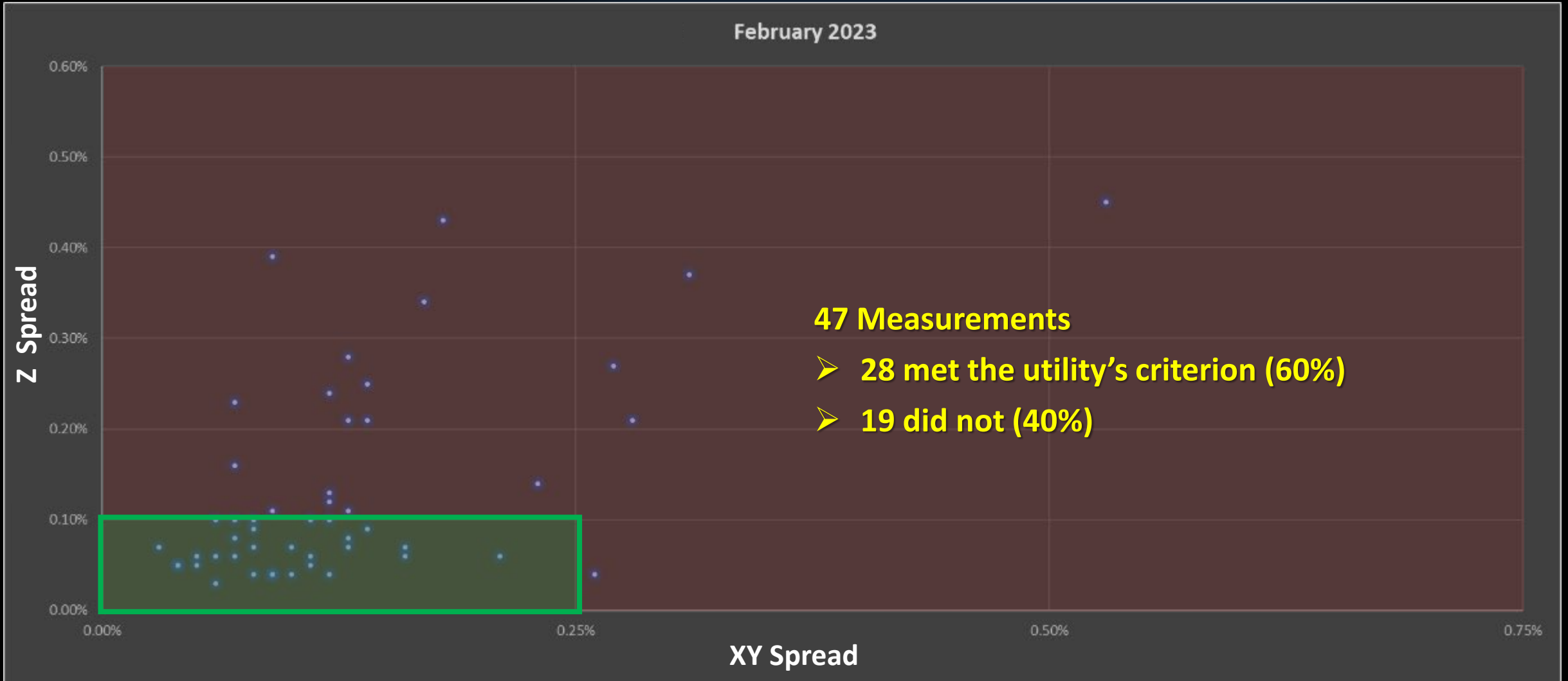
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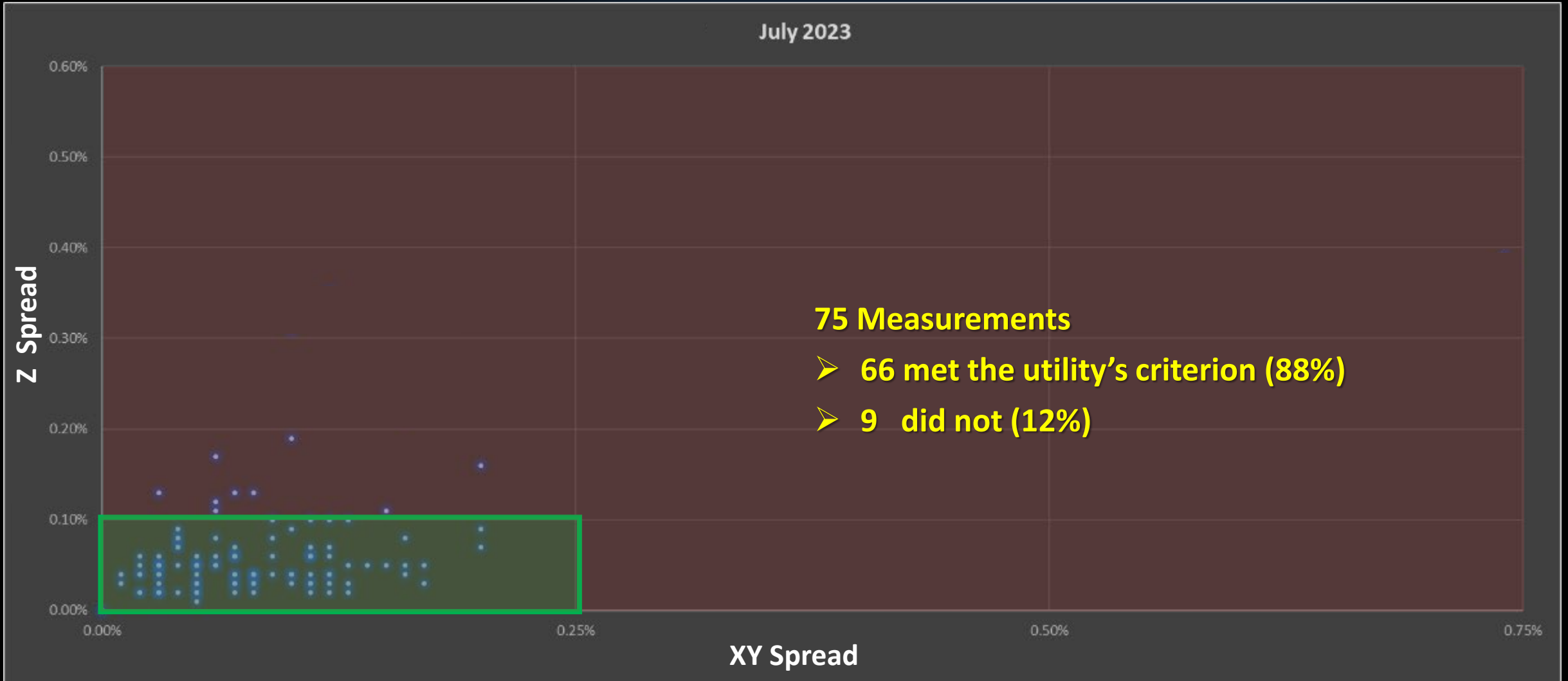
Case study: Large Asian Power Utility



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In summary: remote QA/QC completes the circle of as-built quality without breaking the bank

REDUCT makes it!
With 25 years experience, **Reduct NV** is the world leader in the development and manufacturing of gyro mapping systems.



REDUCT ensures it!
The **Reduct Academy** offers online and on-site training courses with the possibility of utility specific certification.

REDUCT provides it!
Through the **Reduct Cloud Services** we monitor operator and system performance (QA/QC) so that you don't have to.

And remember



A pipe that is poorly mapped is a Liability, not an Asset

Reduct turns Liabilities into Assets