

FAST FACTS ABOUT CONSTRUCTION REWORK

It's no secret that construction rework can be devastating to your reputation, your ability to get awarded projects, your profits, and your bottom line. It's more than that, though – rework can literally mean the difference between staying afloat and going under.



The cost of rework can reduce construction annual firm profits by as much as 28%¹



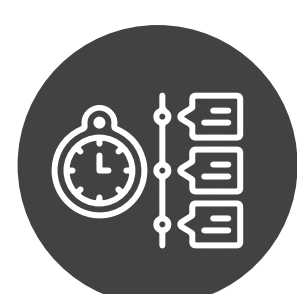
Field rework averages from 2 – 20% of total construction cost³



Commercial construction rework makes up 30% of worker time, for \$273 billion in costs annually⁴



Indirect effects of rework include end-user dissatisfaction, interorganizational conflicts, fatigue, stress, demotivation, loss of future work, poor moral, and damage to professional image⁵



Rework adds on average almost 10% to project schedules⁶



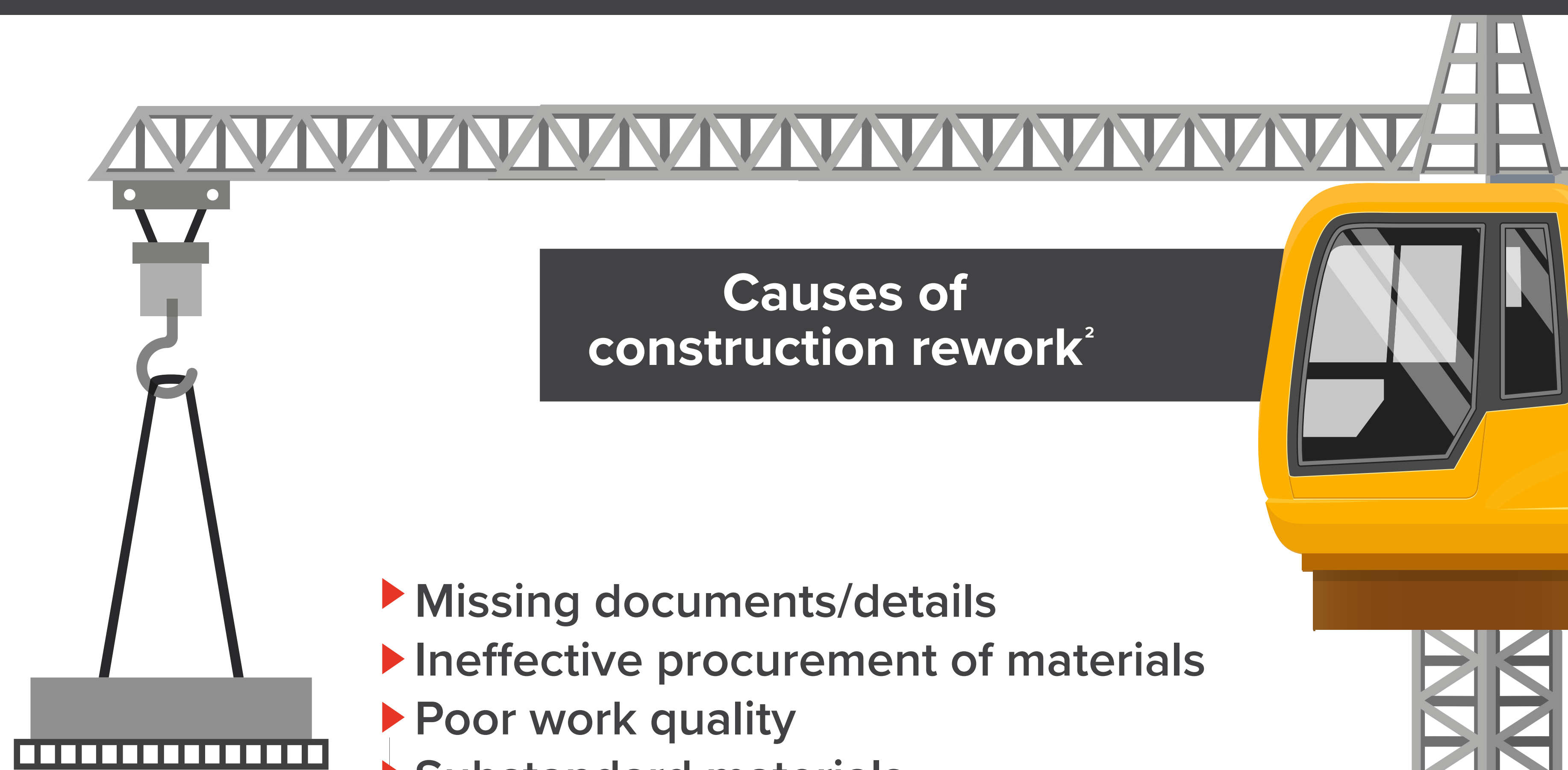
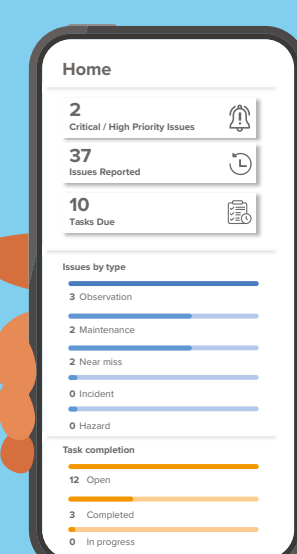
Rework results in payment delays, as you don't get paid until the client is happy and signs off on the work⁷



Higher project rework rate = higher worker injury rates⁸

LEARN MORE

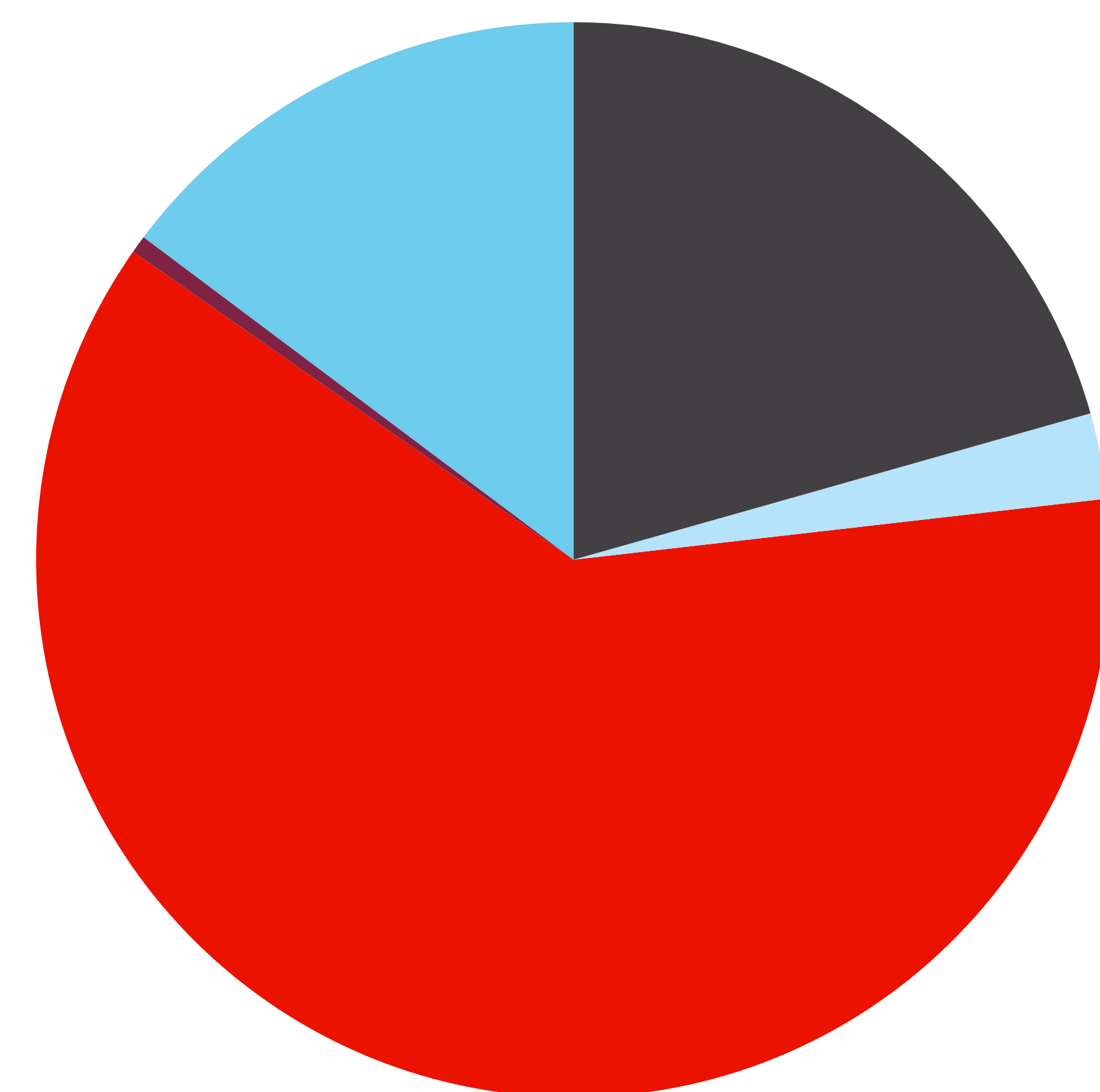
Looking for more information on how rework can devastate your deadlines and break your bottom line... and what to do about it? Check out our guide, [5 Ways to Advance Construction Quality](#), to learn how to improve quality assurance (and reduce rework) through better data and digitization.



Causes of construction rework²

- ▶ Missing documents/details
- ▶ Ineffective procurement of materials
- ▶ Poor work quality
- ▶ Substandard materials
- ▶ Failure of design
- ▶ Poor communication
- ▶ Ineffective decision-making
- ▶ No standard systems of processes
- ▶ Rushing to meet deadline

REWORK CAUSES⁹



- Material and equipment supply 14.8%
- Leadership and communications 0.5%
- Engineering and review 61.7%
- Construction planning and scheduling 2.6%
- Human resource capability 20.5%

Sources:

¹ [The costs of rework: insights from construction and opportunities for learning](#)

² [7 Ways to Reduce Construction Rework - Digital Builder \(autodesk.com\)](#)

³ [Impact of Rework on Construction.pdf \(cmaanet.org\)](#)

⁴ [The construction productivity imperative | McKinsey](#)

⁵ [Factors Contributing to Rework and their Impact on Construction Projects Performance \(core.ac.uk\)](#)

⁶ [Impact of Rework on Construction.pdf \(cmaanet.org\)](#)

⁷ [The true costs of poor quality construction \(linkedin.com\)](#)

⁸ [Relationship between Construction Safety and Quality Performance | Journal of Construction Engineering and Management | Vol 139, No 10 \(ascelibrary.org\)](#)

⁹ [Measuring and Classifying Construction Field Rework: A Pilot Study \(coaa.ab.ca\)](#)