



Gas Transmission Integrity Management

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Pipeline Safety Trust Conference
2019

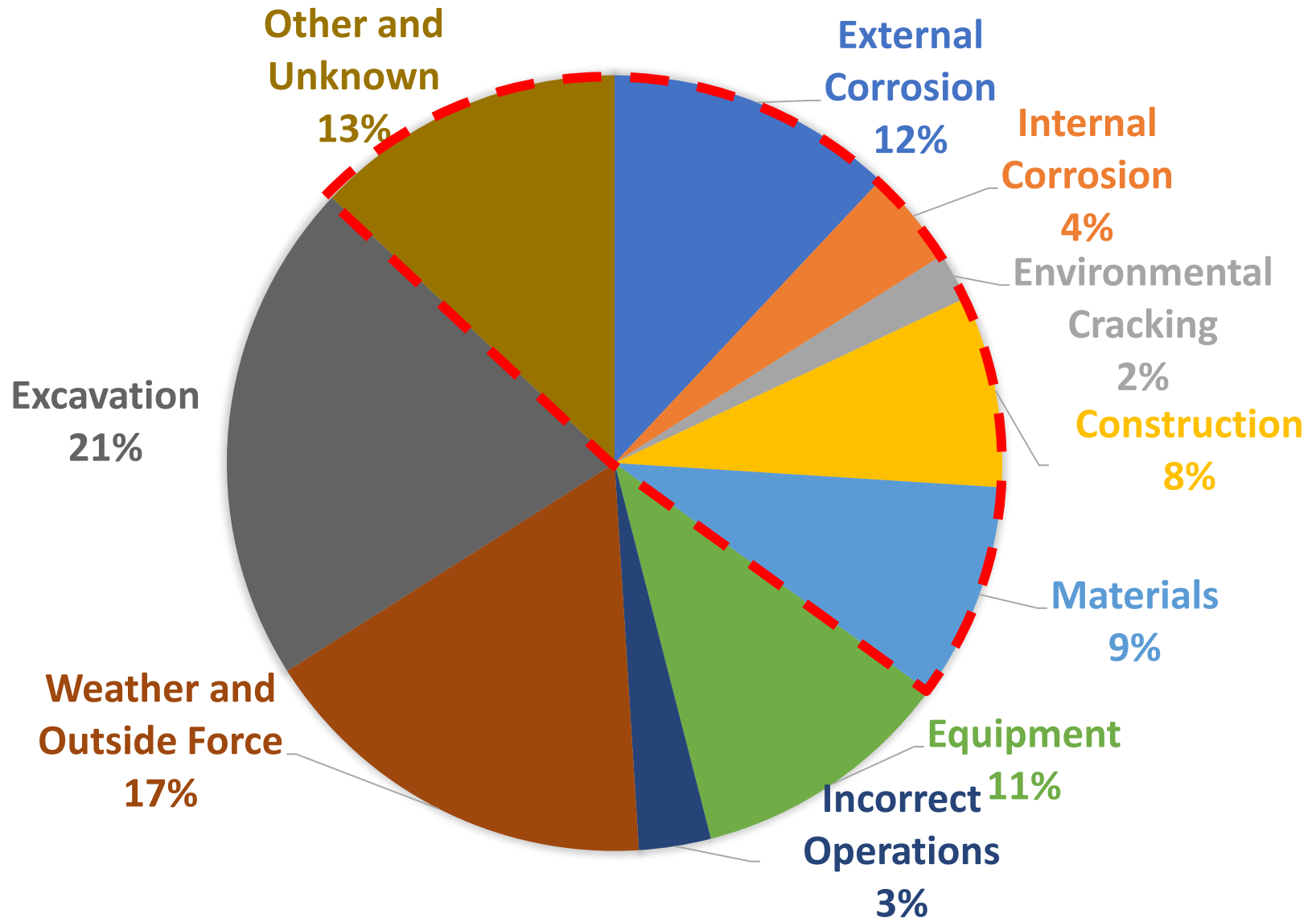


Gas transmission incidents within HCAs, by threat and by year

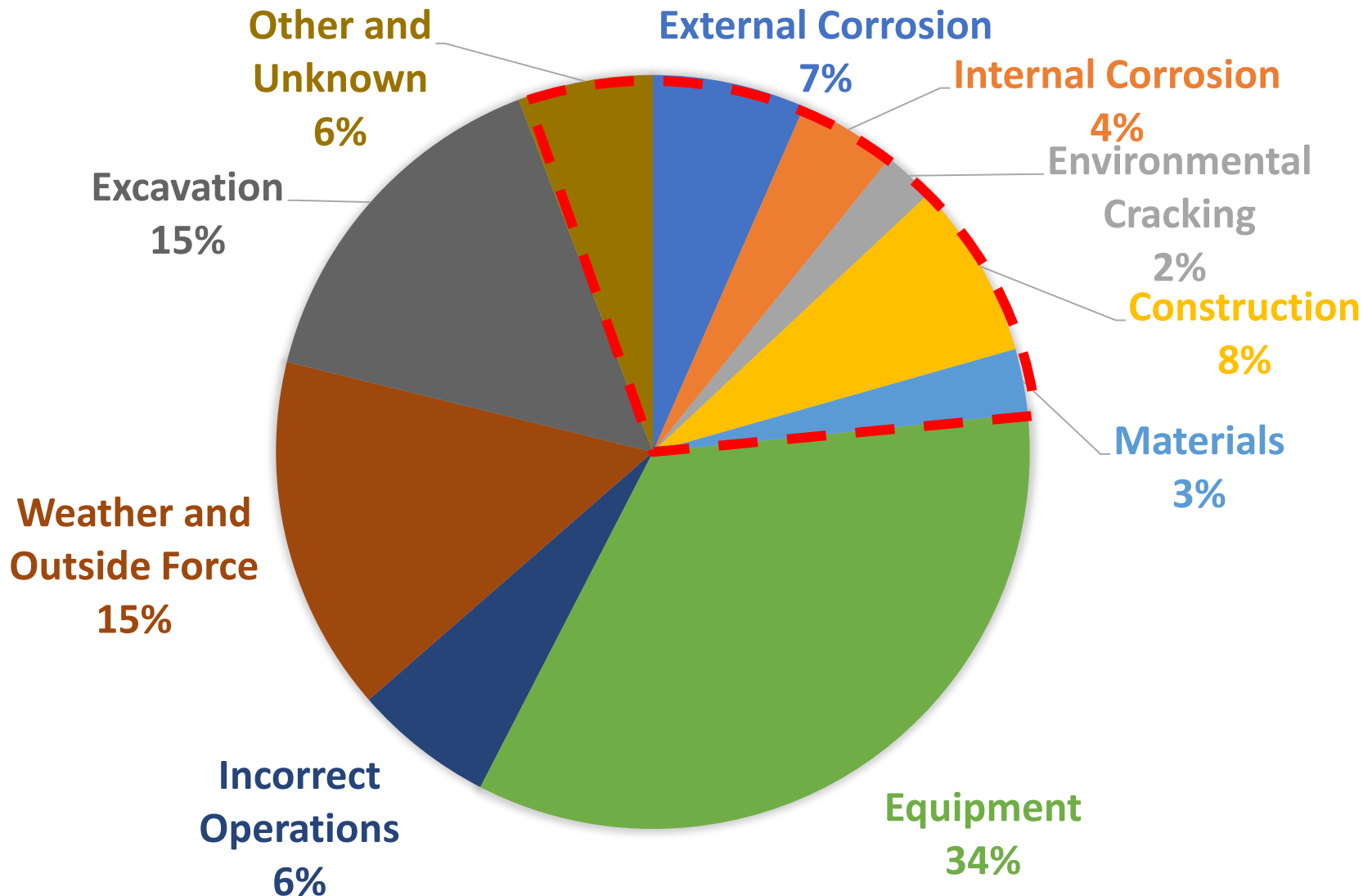


	2010	2011	2012	2013	2014	2015	2016	2017	2018
External Corrosion	0	2	0	0	2	0	0	0	0
Internal Corrosion	1	0	0	0	0	0	0	0	0
Environmental Cracking	0	0	0	0	1	0	0	0	0
Manufacturing Related	1	0	0	0	0	0	1	0	0
Construction Related	0	0	1	0	2	1	0	1	0
Equipment Related	0	2	4	6	3	3	2	8	4
Weather and Outside Force	2	3	3	2	1	1	0	1	1
Excavation Damage	2	2	4	1	1	3	3	0	3
Incorrect Operations	0	1	0	3	3	1	1	1	1

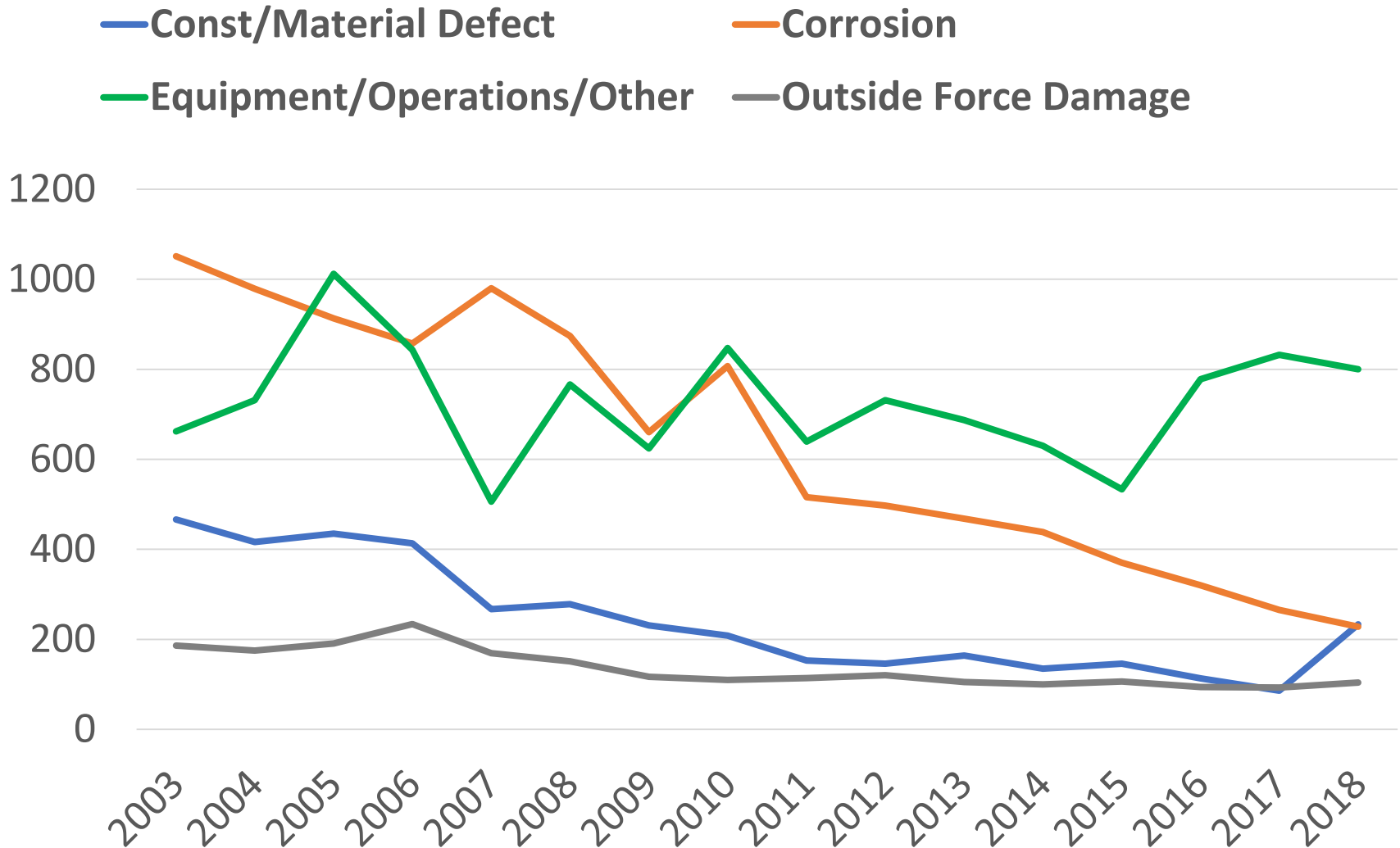
Breakdown of all onshore transmission incidents by cause, 2002-2009



Breakdown of all onshore transmission incidents by cause, 2010-2018



Breakdown of all onshore gas transmission leaks by cause



Next Steps

- Two new gas transmission rules will likely produce further incident reductions, particularly in corrosion, manufacturing, and construction-related incidents
- Continue to promote use of One Call and focus on locations and equipment commonly involved in excavation damage incidents
- Stay focused on mitigating earth movement, and also work to improve physical protection of above-ground facilities and mitigate effects of cold temperatures
- Consider how relief device events are classified to improve analysis
- Leverage pipeline safety management systems to address complex threats

Effects of 2010 reporting change

