

TIMP

What's Been Accomplished?
What Needs to Be Corrected?

National Data

- How big of a piece of the pie is included?

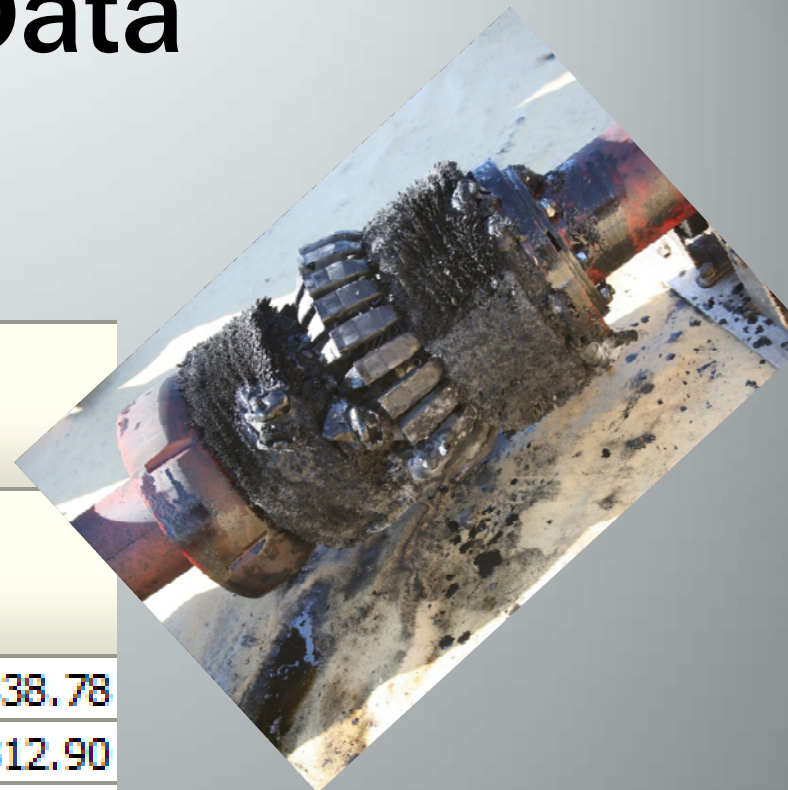
GAS TRANSMISSION	INTERSTATE	197,093.3
	INTRASTATE	107,688.6
GAS TRANSMISSION Total		304,782.0

HCA Miles	% Total Onshore Miles
20,337.56	6.8%

National Data

- What's been assessed?

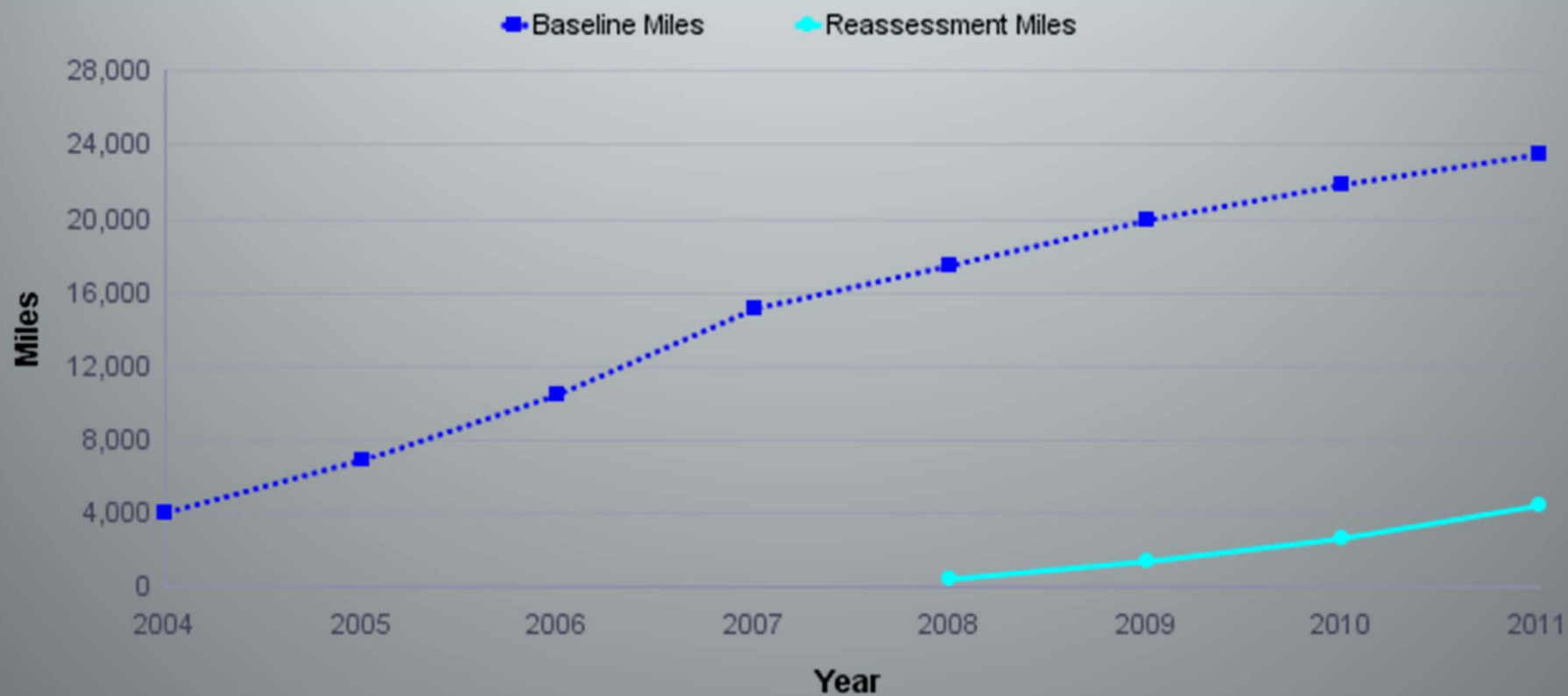
Baseline Miles Completed in Year	Reassessment Miles Completed in Year
1,655.23	1,838.78
1,987.45	1,312.90
2,349.84	938.27
2,462.21	395.89
4,663.34	
3,500.51	
2,906.73	
3,998.01	
23,523.32	4,485.84



National Data

What's been assessed?

Cumulative Baseline and Reassessment Miles



National Data

What did the assessments reveal?

HCA Immediate Repairs	HCA Scheduled Repairs	HCA Pressure Test Failure Repairs	Total HCA Repairs
255	1,219	9	1,483
132	1,027	9	1,168
144	266	0	410
181	252	0	433
258	452	0	710
158	344	0	502
261	378	0	639
104	599	0	703
1,493	4,537	18	6,048

National Data

How were they found? Interstate via ILI

HCA Miles	Commodity	Calendar Year	Miles Metal Loss Tool	Miles Dent Tool	Miles Crack Tool	Miles Other Tool	Miles All Tools
12	HYDROGEN GAS	2011	0.00	0.00	0.00	0.00	0.00
8,196	NATURAL GAS		17,316.36	16,170.44	449.65	965.48	34,901.93
3	OTHER GAS		37.61	37.61	0.00	0.00	75.22
8,211		2011 Total	17,353.97	16,208.05	449.65	965.48	34,977.15



National Data

How were they found? Interstate via pressure test

Calendar Year	Commodity	HCA Miles	Miles Pressure Tested	Failures both in and out HCA
2011	HYDROGEN GAS	12	5.90	0
	NATURAL GAS	8,196	823.15	20
	OTHER GAS	3	0.00	0
2011 Total		8,211	829.05	20

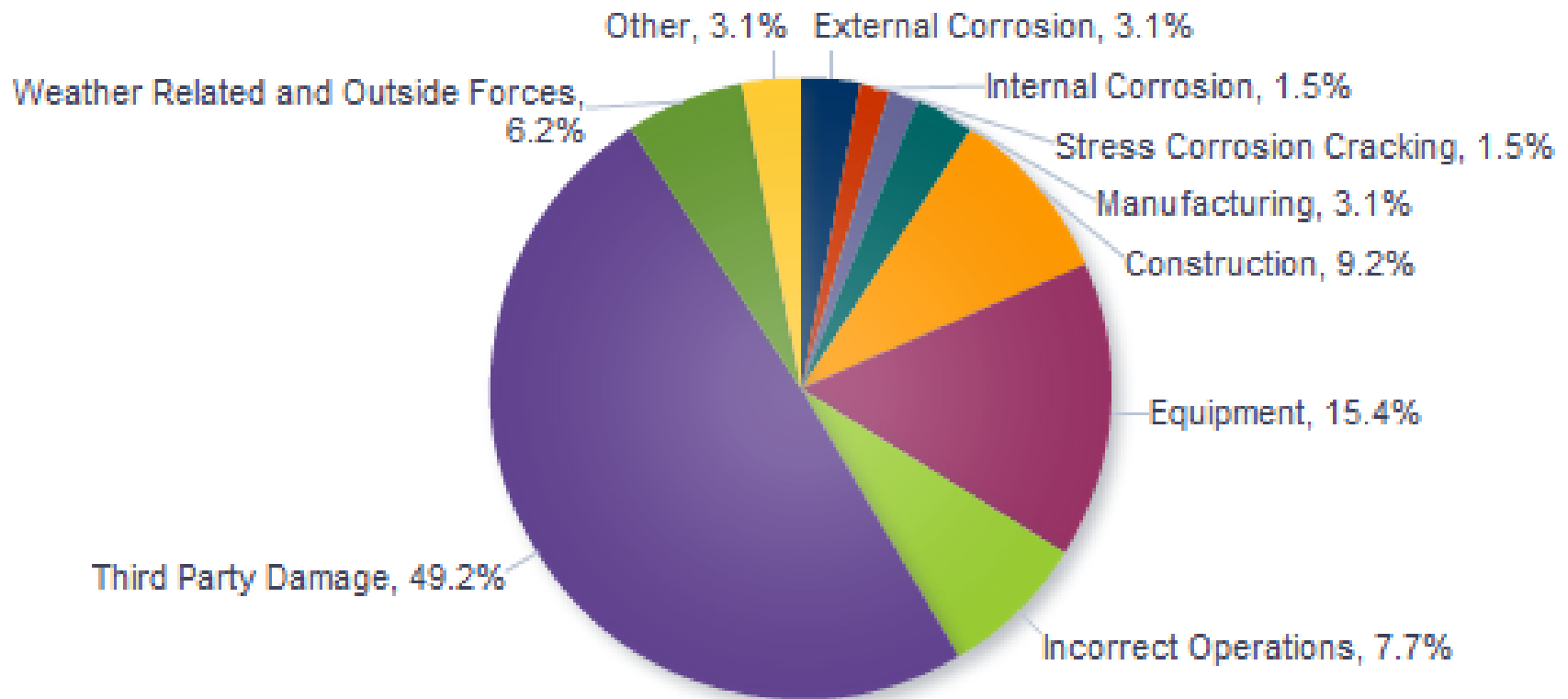


National Data

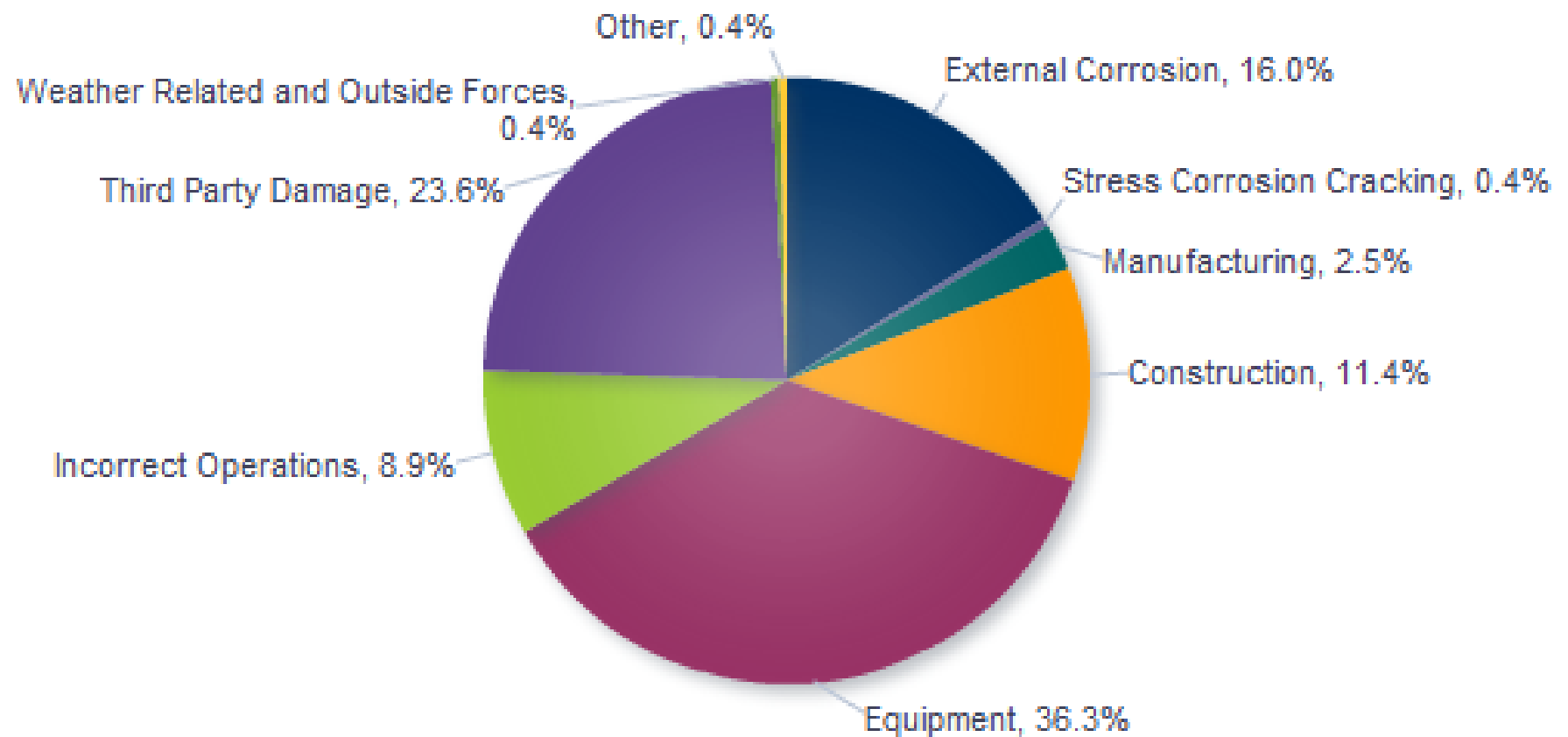
How were they found? Interstate via direct assessment

Calendar Year	Commodity	HCA Miles	Miles ECDA	Miles ICDA	Miles SCCDA	Repaired ECDA both in and out HCA
2011	HYDROGEN GAS	12	4.50	0.00	0.00	1
	NATURAL GAS	8,196	152.38	124.36	375.09	22
	OTHER GAS	3	0.00	0.00	0.00	0
2011 Total		8,211	156.88	124.36	375.09	23

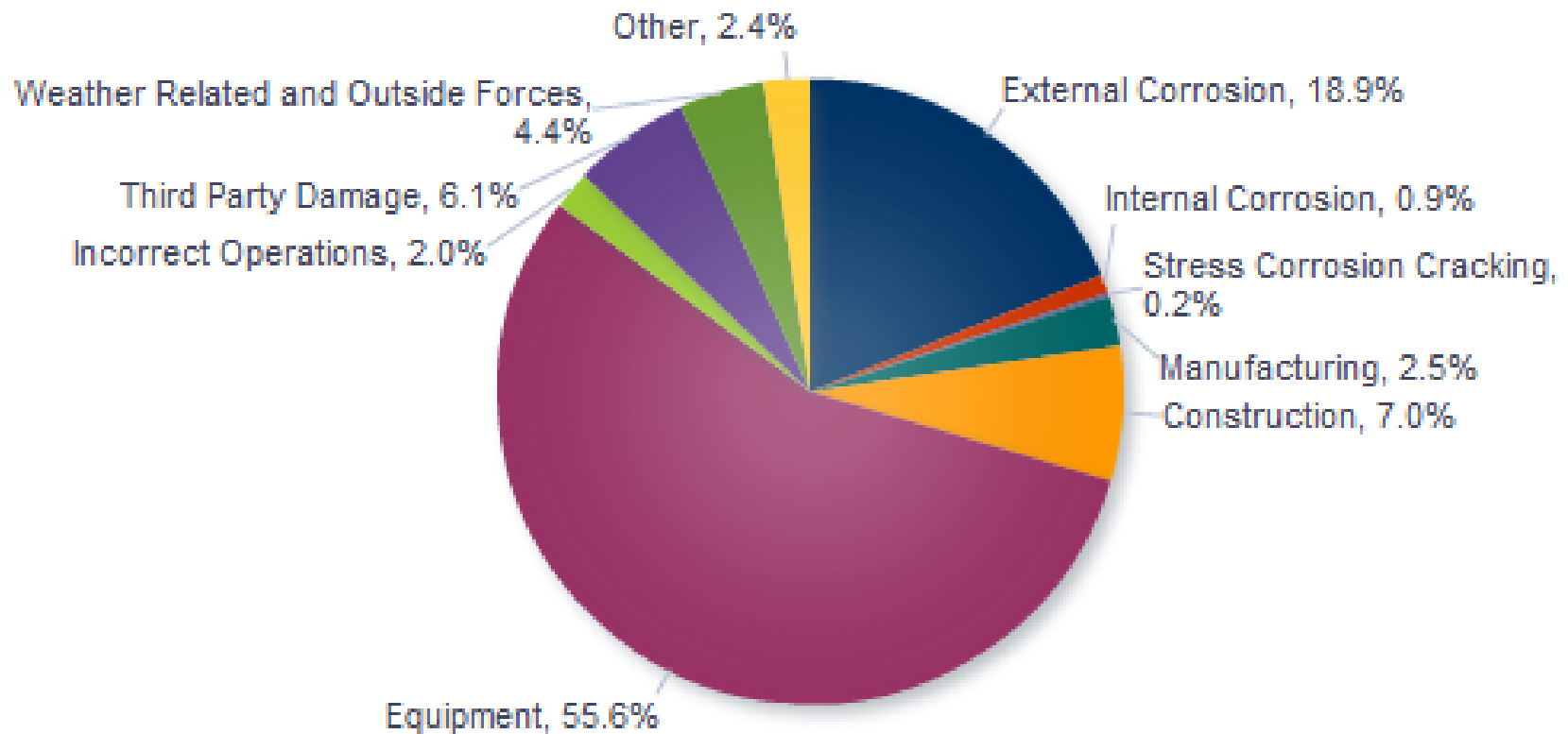
HCA Incidents by Cause



HCA Failures by Cause



HCA Leaks by Cause



Don't Care About National Data?

What has happened up here, eh?

Wyoming

State Summary

Calendar Year	Commodity	HCA Miles	Baseline Miles Completed	Reassessment Miles Completed	Total Miles Completed	Miles Inspected
2011	NATURAL GAS	9.52	0.45	0.00	0.45	210.75
2011 Total		9.52	0.45	0.00	0.45	210.75
2010	NATURAL GAS	7.43	1.04	0.00	1.04	208.57
2010 Total		7.43	1.04	0.00	1.04	208.57

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Repairs both in and out HCA	Repairs in HCA
3	0
3	0
1	0
1	0

Calendar Year	Commodity	HCA Miles	Miles Pressure Tested
2011	NATURAL GAS	10	0.48
2011 Total		10	0.48
2010	NATURAL GAS	7	0.00
2010 Total		7	0.00

Calendar Year	Commodity	HCA Miles	Miles ECDA	Miles ICDA	Miles SCCDA	Repaired ECDA both in and out HCA
2011	NATURAL GAS	10	210.27	0.00	0.00	3
2011 Total		10	210.27	0.00	0.00	3
2010	NATURAL GAS	7	208.57	0.00	0.00	1
2010 Total		7	208.57	0.00	0.00	1

South Dakota

State Summary

Calendar Year	Commodity	HCA Miles	Baseline Miles Completed	Reassessment Miles Completed	Total Miles Completed	Miles Inspected
2011	NATURAL GAS	2.00	0.00	0.00	0.00	0.00
	OTHER GAS	0.00				
2011 Total		2.00	0.00	0.00	0.00	0.00
2010	NATURAL GAS	2.00	2.00	0.00	2.00	26.00
	SYNTHETIC GAS	0.00				
2010 Total		2.00	2.00	0.00	2.00	26.00

Calendar Year	Commodity	HCA Miles	Miles Metal Loss Tool	Miles Dent Tool	Miles Crack Tool	Miles Other Tool	Miles All Tools	ILI Anomalies Excavated	F
2011	NATURAL GAS	2	0.00	0.00	0.00	0.00	0.00	0	
	OTHER GAS	0							
2011 Total		2	0.00	0.00	0.00	0.00	0.00	0	
2010	NATURAL GAS	2	13.00	13.00	0.00	0.00	26.00	5	
	SYNTHETIC GAS	0							
2010 Total		2	13.00	13.00	0.00	0.00	26.00	5	

Repairs both in and out HCA	Repairs in HCA
0	0
0	0
5	2
5	2

What have we learned?

- Much more mileage is being assessed via ILI than is in HCA's
 - But the results are not captured
 - There is no criteria for action



Program “issues”

- Incorporating methods that are capable of addressing interacting threats
- Comprehensive identification of risk drivers
- Adequate compensation for uncertainties in both the risk model and the data
- Ability to quantify predicted risk reduction that could be achieved from contemplated preventive and mitigative measures