The Black Swan

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Learning from History

"The past seldom obliges by revealing to us when wildness will break out in the future.

War, depressions, stock-market booms & crashes, and ethnic massacres come & go, but they always seem to arrive as surprises...

Against the Gods, the Remarkable Story of Risk, P Bernstein 1996



Learning From History

After the fact, when we study the history of what happened, the source of the wildness appears to be so obvious to us, that we have a hard time understanding how people on the scene were oblivious to what lay in wait for them.

Against the Gods, the Remarkable Story of Risk, P Bernstein 1996



Looks harmless – be vigilant







The Black Swan – The Impact of the Highly Improbable

A Black Swan event has 3 attributes:

- Outlier
- Extreme impact
- After the event, it is explicable and predictable

The Black Swan: The Impact of the Highly Improbable, Nassim N Taleb 2007





Breeding Black Swans

 Circumstances: many subtly different pathways can result in the same class of damaging endpoint

 The next event will be subtly different and yet just as predictable afterwards



Breeding Black Swans

 Outcome: low likelihood, high consequence events will occur

Black swans are everywhere!





Culling Black Swans

Post Macondo/Montara:

• Have we done enough?

 Are we prepared as an industry to protect people, the environment and communities should something go wrong?



Culling Black Swans

 What are the priorities for improving process safety and integrity management and reducing hydrocarbon risks?





Looks harmless – be vigilant

