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Why are You Here?

We build trust and all we have left at the end is our reputation



Do unto others what you would have them do unto you?



Do you really Care?

PERC Standard - The Standard Verification , Value Rependent Review

Pan European Reserves and Resources Reporting Committee

What is it?

Why?



When?

Scope & Principles

Scope and Intent

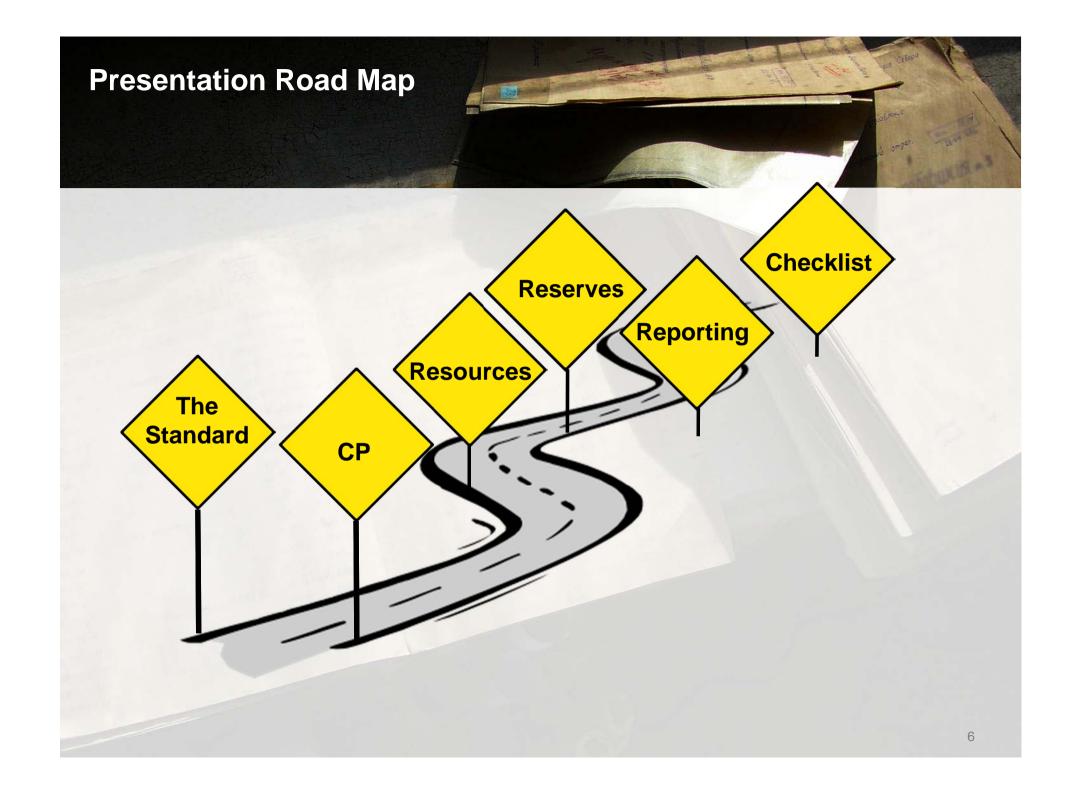
What would you expect?

Minimum Standard

All reasonable information

Balanced Judgement





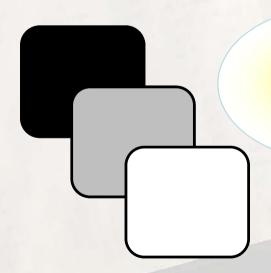
Why Do We Need All These Rules and Guidelines?



Risk Capital



Cowboys and a hole in the ground!



Grey areas



Mining Scandals – Fact or fiction?



BRE-X (1997) - salting

Naxos (May 1996) – visual estimates

Cartaway (May 1996) – visual estimates

Timbuktu (June 1996) - salting

Delgratia (March 1997) – salting/proprietary assaying

Golden Rule/Hixon Gold (May 1997) - salting

Southwestern (July 2007) – assay data tampering



Regulator's Dilemma

Get Tough but don't ruin the Party



Rules alone not enough

Booming
Markets +
Unscrupulous
Participants



Vigilance and DD Critical

Desired Outcomes

Informed investment decision

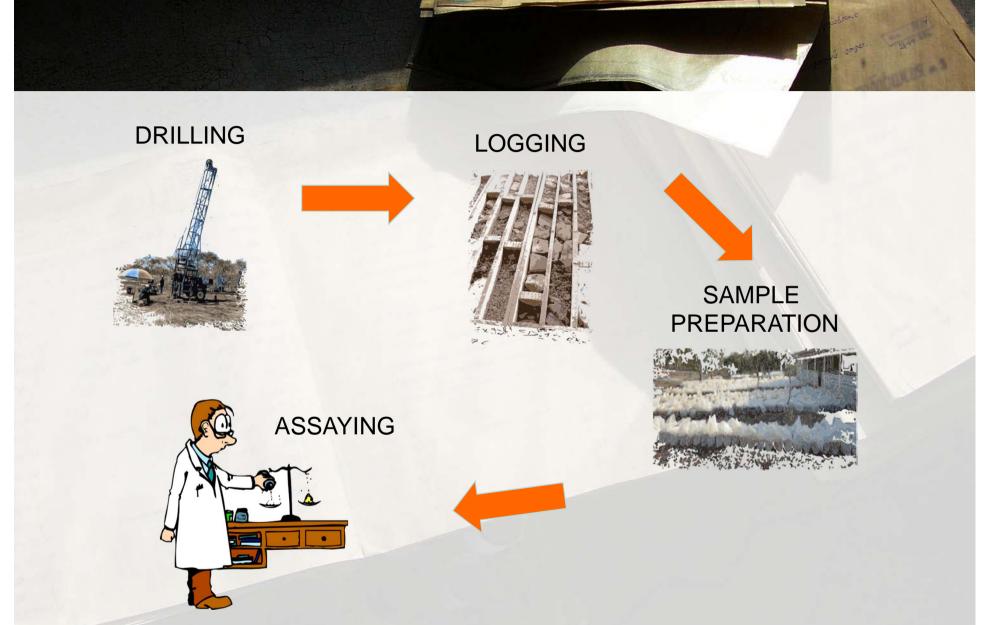
Balanced disclosure

Resultsunderstand significance & context Data understand
risks and
limitations

Confidence in the CP



Flow Chart for typical Core Drill Program



Public Reports

Inform
Exploration
Results, Mineral
Resources

internal noncompliant documentation

Annual, Quarterly, press releases, technical papers, website postings, public presentations



Intent

Competence and Responsibility CP/QP

CP

Disclosure and consent



Resource Reserve Terminology Modifying Factors

Exploration Results

Mineral Resources

Mineral Reserves

increasing Level of Geological Knowledge and Confidence

Inferred

Indicated

Probable

Measured

Proved

Consideration of mining, metallurgical, infrastructure, economic, marketing, legal, environmental, social and governmental factors

The "Modifying" Factors

Can only use these terms!

Resource Definition which takes precedence over category definitions

- Concentration of metal with reasonable prospect of eventual economic extraction based on grade/quality & quantity.
- Modifying factors location, quantity, grade/quality, continuity and other geological characteristics are known, estimated or interpreted from specific geological evidence and knowledge, including sampling

Evidence & Knowledge

Reasonable is a judgement call by CP

Realistic inventory with cut off

Inferred Resources

Limited geology and sampling

Imply but not verify



to increase confidence

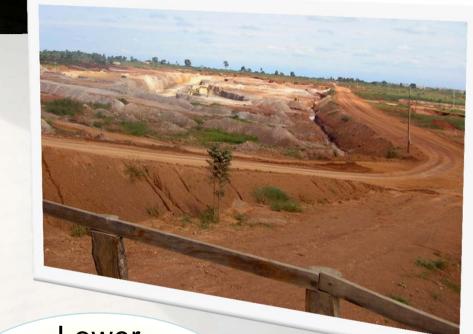
reserve

Imply geological and grade/quality continuity

Indicated Resources

Sufficient
confidence to
support mine
planning &
economic viability

Adequate detailed and reliable sampling



Lower confidence than measured

Probable reserve

Assume geological and grade/quality continuity

Measured Resources

Sufficient
confidence to
support mine
planning &
economic viability

Adequate detailed and reliable sampling



No reasonable doubt

Proven or probable reserve

Confirm geological and grade/quality continuity

Reporting of Mineral Resources Table 1 Checklist & guidelines of reporting & assessment criteria

(15 criteria)

High-level reference checklist

Normal systematic approach

Non prescriptive

Relevance & Materiality



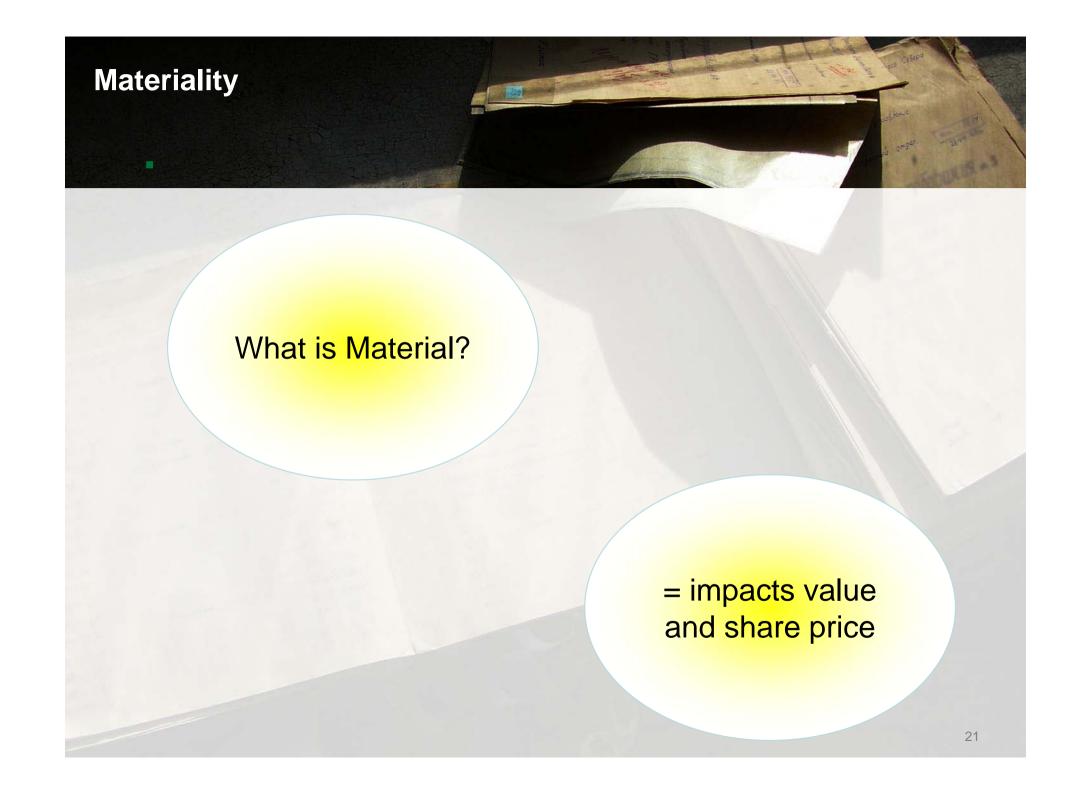
database – geology – method– cut off – bulk density – assumptions – conversion -\$market –classification – audits - discussion

Historical Resource estimates

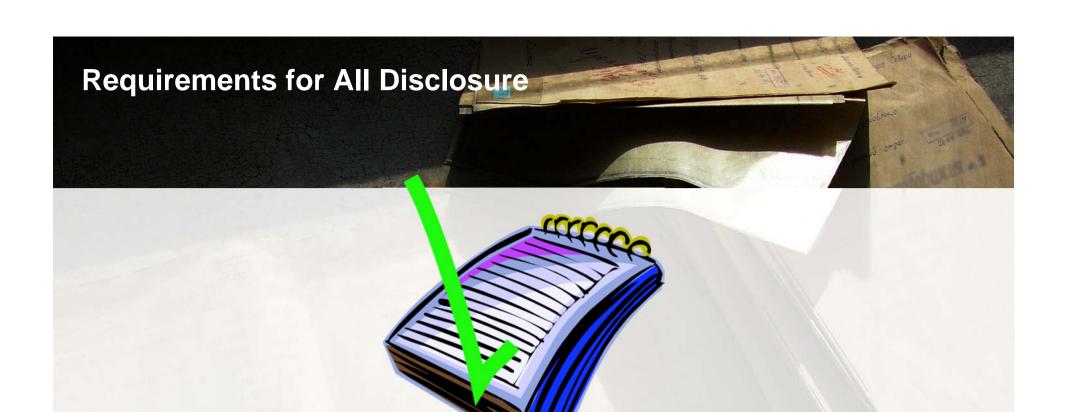
Five criteria

- 1) Source & Date
- 2) Relevance & Reliability
- 3) Categories
- 4) Cautionary statement
- 5) Most recent estimates





Securities Regulators View of Materiality The View 22



- * Use only PERC categories of resources and reserves
- * Report each category separately
- * Don't add inferred to other categories
- * If contained metal is disclosed state grade and tonnes for each category



Analyst Reports & Third Party Newsletters







- BFS or FS the same!
- Mineable resource???
- Disclaimers
- All authors of technical reports must be independent

Conclusions

- **▶** The Standard
- Why?
- Guiding core message
- Reporting Best Practice

References:







 Pan-European Code for Reporting of Exploration Results, Mineral Resources and Reserves

("The PERC Reporting Code")

http://www.perc.co/