

Surface Mining Association for Research & Technology

SMART

**Celebrating
16 Years!**

**Working Collaboratively To Improve
Mining Industry Effectiveness**



SMART Surface Mining Association
For Research & Technology



SMART Surface Mining Association
For Research & Technology

May 21 , 2011

Gord Winkel

1

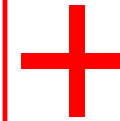
SMART - Who We Are

The Membership:



AngloGold Ashanti (Colorado) Corp.
ArcelorMittal Mines Canada
Barrick Gold Corporation
BHP Billiton Diamonds Inc.
BHP BMA Coal Australia
Canadian Natural Resources Ltd.
Cliffs Natural Resources
De Beers Canada Inc.
Foundation Coal West Inc.
Freeport McMoRan Copper & Gold
Graham Group Ltd.
Imperial Oil Ltd.
Iron Ore Co. of Canada
Kinross Gold Corporation
KMC Mining Corporation
Ledcor CMI
Mitsubishi Development Pty Ltd
Newmont Mining Corporation

North American Construction
NovaGold Resources Inc.
Peabody Energy Corporation
Prairie Mines & Royalty Ltd.
Queens University
Quadra FNX Mining Ltd
Shell Canada Ltd.
Suncor Energy
Syncrude Canada Ltd.
Teck Resources Limited
Thiess Pty Ltd
Total E&P Canada Ltd
TransAlta Corporation
University of Alberta
University of Arizona
University of British Columbia
URS Corporation, Washington Div.
Western Coal Corporation



Queens University
University of Alberta
University of Arizona
University of British Columbia
CIM SIMT



SMART

Surface Mining Association
For Research & Technology

May 21 , 2011

Gord Winkel

2

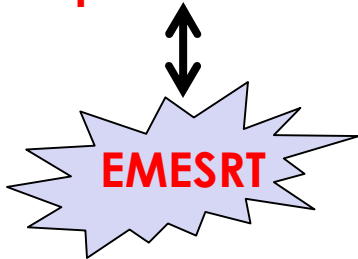
the SMART Group ...

- **The SMART Group is made up of Mining people who share a passion for making our Industry better. The SMART membership regularly contribute their personal time and effort to collaborate in Industry wide initiatives, learning forums and best practice sharing that is made possible by meeting and working as the SMART group on a continued basis.**
- **Mining Senior Leaders from across Canada, the United States of America and internationally have come to appreciate the work of SMART on a number of fronts. When we work together, we indeed have a track record of making a positive difference for our Companies that helps our Mining Industry as a whole.**
- **It's a Group where Operators work together and are supported by key personnel/organizations to progress key objectives.**

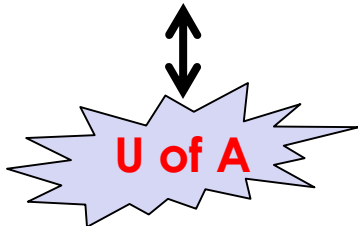


SMART Focus Areas ...

Safety Information Sharing
Equipment Safety Design Improvements



University Learning Seminars



Mechatronics, APCOM Support



SMART is an association of mining companies that meet regularly to coordinate the technology development needed by the mining industry. Since 1995, the member companies and institutions have directed research and influenced the manufacturers and suppliers to improve surface mining technology and services. SMART actively supports learning seminars, collaborative research projects, and user groups.

Members of SMART include many of the surface mining companies in North America and Australia. These companies have recognized the value that collaboration can bring to the needs of individual organizations as well as the global mining industry.

Truck Shovel User Group
Large Tire User Group
Information Technology Data Protocol
Benchmarking Project
Targeted Information Sharing

- Historical - Mining GPS User Group
- Mine Haul Road Design and Construction
- Diesel Emissions Evaluation
- Haul Truck Development



SMART

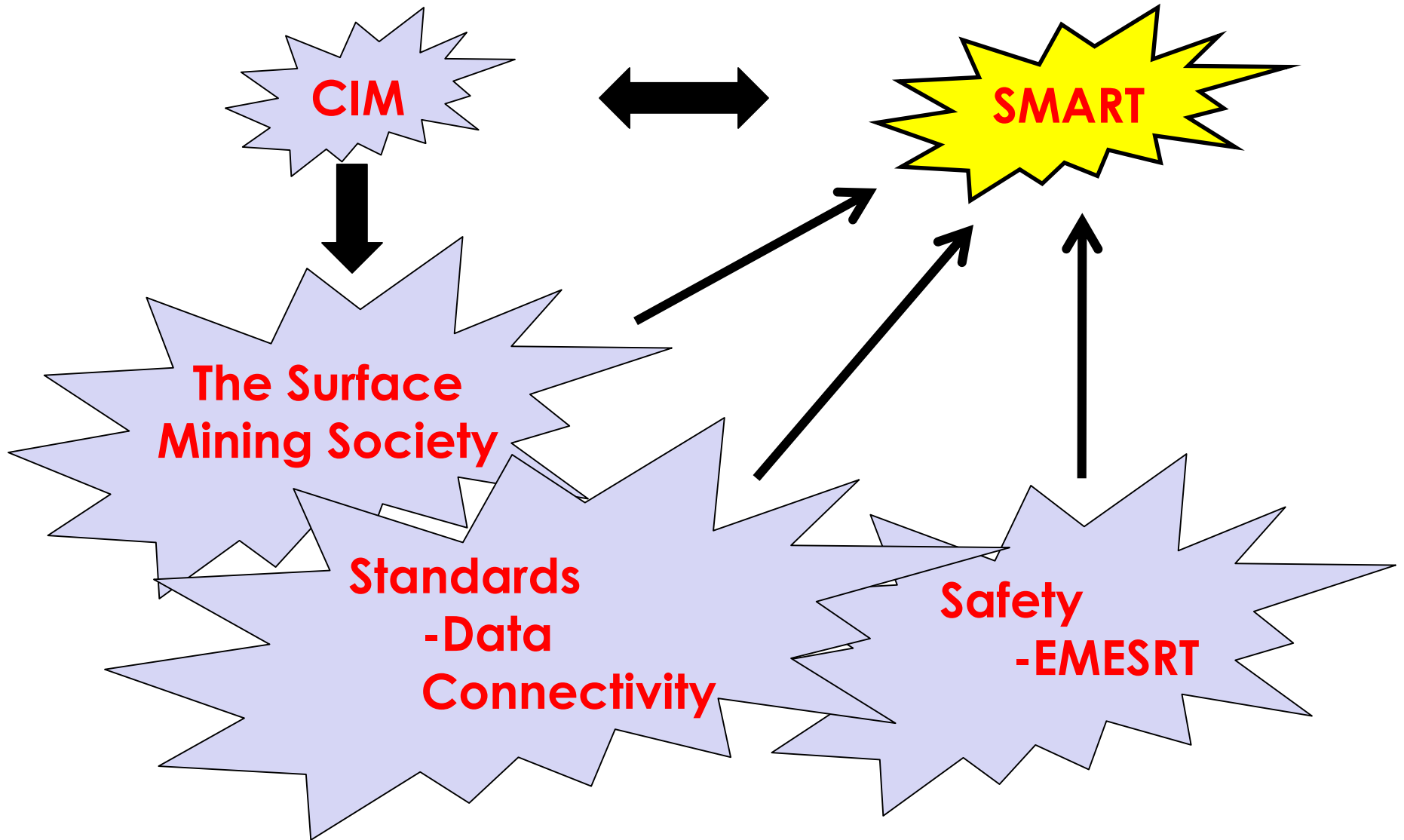
Surface Mining Association
For Research & Technology

May 21 , 2011

Gord Winkel

4

SMART and the CIM...



SMART

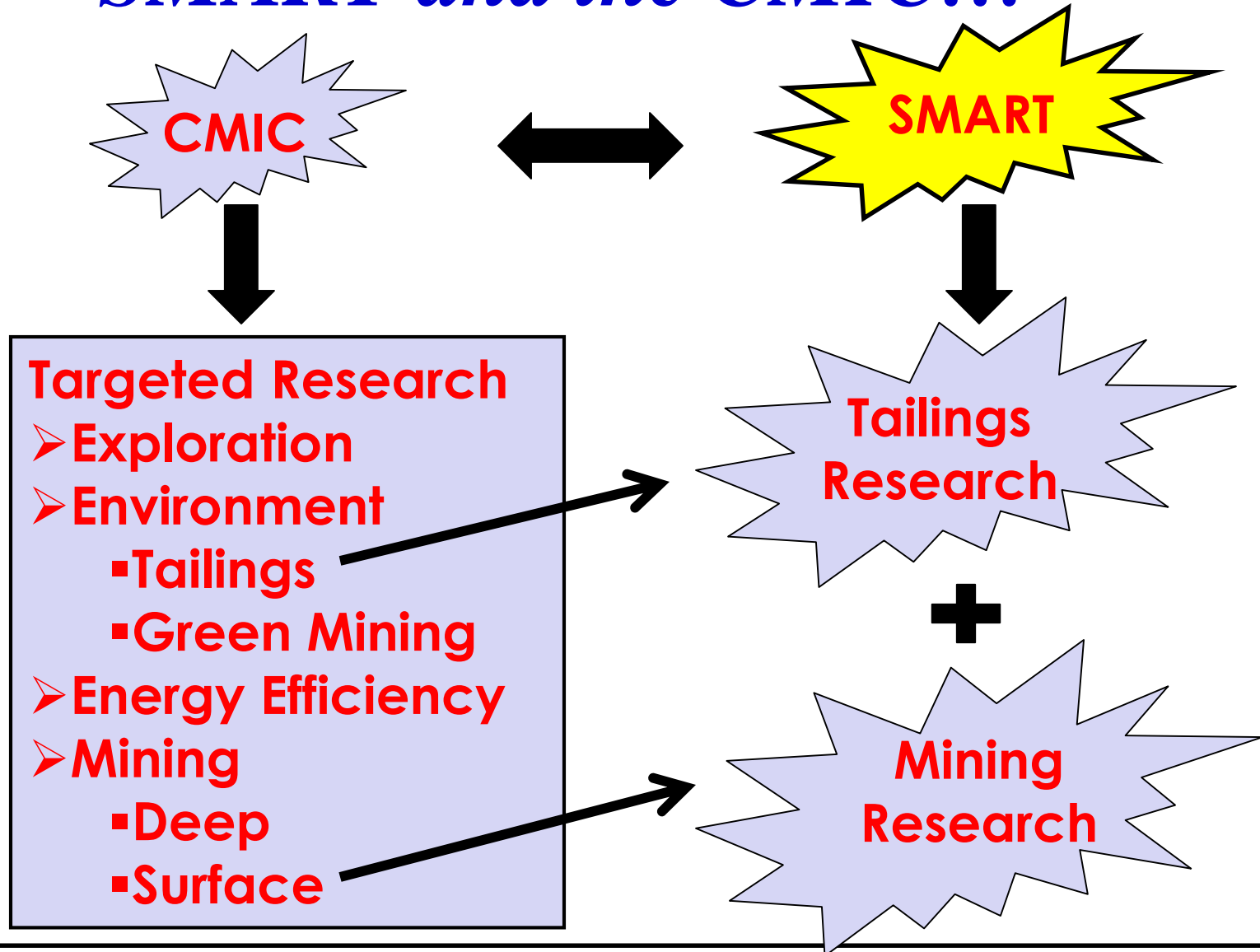
Surface Mining Association
For Research & Technology

May 21 , 2011

Gord Winkel

5

SMART and the CMIC...



SMART

Surface Mining Association
For Research & Technology

May 21 , 2011

Gord Winkel

6