

DEEP's Sunset - The Conclusion of a successful Program

MDEC 2006

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DEEP's goal

The goal of DEEP was to reduce miners' exposure to diesel exhaust pollutants by systematically testing and evaluating control strategies to reduce diesel emissions in non-coal underground mines.

The measure of success...

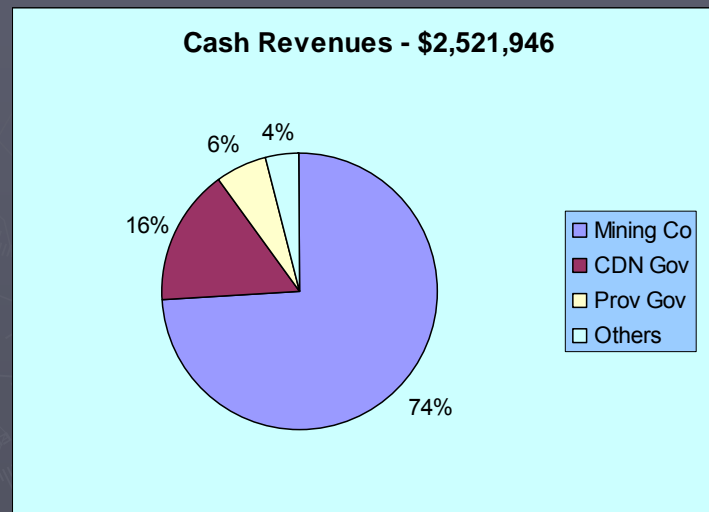
- ▶ Tri-partite collaborations
- ▶ Demonstrations in the field
- ▶ Technology transfer
 - Detailed technical reports available
 - Regional workshops
 - MDEC
 - Web Site (www.deep.org)
- ▶ That we were able to do all this on a few million dollars is a testimony to the dedication of stakeholders and in-kind contributions.

DEEP Stakeholders

- Barrick Gold Corporation
- Cambior Inc.
- **Canadian Auto Workers**
- CAMIRO - Canadian Mining Industrial Research Org.
- Falconbridge Limited
- Hudson Bay Mining & Smelting
- IMC Kalium
- Inco Ltd.
- **Natural Resources Canada - CANMET**
- **New Brunswick Workers Health and Safety Compensation Commission (WHSCC)**
- **Ontario Workplace Safety and Insurance Board (WSIB)**
- **Association of Chief Mine Inspectors**
- Noranda Mining & Exploration
- Ontario Soybean Growers Marketing Board
- Saskatchewan Canola Dev. Commission
- South Dakota Soybean Promotion Committee
- Toronto Transit Commission
- **United Steelworkers of America**



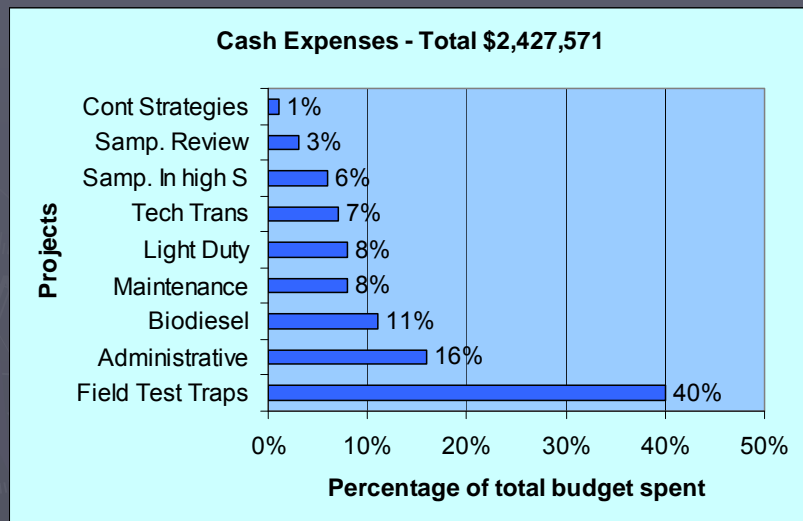
Revenues



DEEP Projects

- ▶ DPM Control Strategies Evaluation
- ▶ DPM Sampling Review
- ▶ DPM Sampling in High Sulfide Mine
- ▶ Effects of Improved Maintenance Programs
- ▶ DPM Allocation to Light Duty Vehicles
- ▶ DPM Reduction by Biodiesel Fuel
- ▶ PFS Field Tests at Noranda's Brunswick Mine
- ▶ PFS Field Tests at Inco's Stobie Mine
- ▶ Technology Transfer

Cash Expenses



Surplus

- ▶ DEEP has a forecasted \$94,000 surplus.
- ▶ DEEP Management Board will decide what will be done with this surplus, but it would like suggestions from interested parties.

Option I

- ▶ The Deep Mining Research Consortium
 - The DMRC consists of individual companies interested in solving problems related to underground mining in Canada
 - Projects dealing with diesel: Impact of great depth on diesel engine performance
 - Projects dealing with health issues: Heat stress project



Option II

- ▶ DEEP already provided \$50,000 to help fund the Diesel-Electric Hybrid LHD project (total funding at \$1.5 million)
- ▶ Funded jointly by :
 - Mining Technology International
 - Mining Industry / Soredem
 - CANMET (IERD and MMSL)
 - NSERC-IRAP
 - Hydro-Québec
 - DEEP
 - NRCan Climate Change Fund



Option III

- ▶ A new form of stakeholder collaboration focussing on diesel emission reduction—a DEEP 2.

Your input

- ▶ What do you suggest we do with the remaining DEEP funds? Discussion now...

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or

- ▶ E-mail DEEP at: deep@deep.org
Until November 3rd, 2006