

# Colorado School of Mines

## Clean Snowmobile Challenge

### 2001



# Presentation



- Modifications
- Performance
- Cowling
- Cost

# Modifications



- Honda CBR600 4-Stroke Engine
- Heat Exchanger
- Catalytic Converter
- Front Springs
- Cowling

# Performance vs. Pollutants



## ■ 4-Stroke Engine

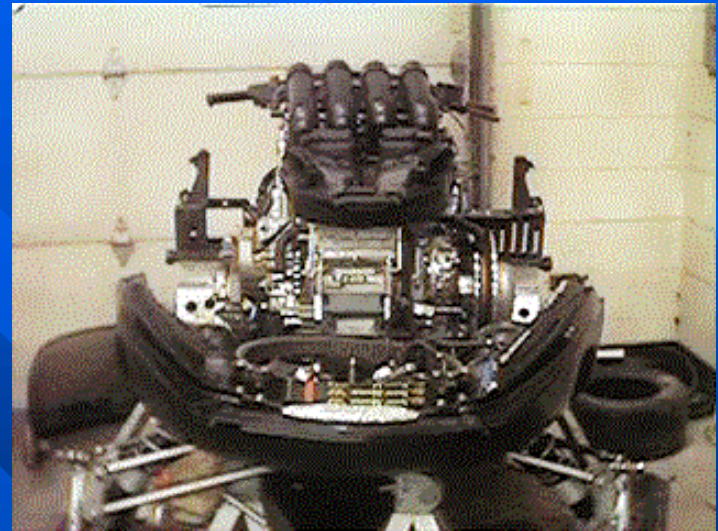
- Reliability
- Power

## ■ Noise

- Liquid-cooled
- Muffler

## ■ Emissions

- 3-Way Catalytic Converter
- Synthetic Oil



# Cowling



- Size
- Safety
- Construction

# Cost



## ■ Technology Implementation

<u>Subsystem</u>	<u>Subtotal</u>
Induction System	\$ -
Fuel System	\$ 330.00
Engine	\$ 529.70
Exhaust Aftertreatment	\$ 98.85
Electronics	\$ 8.00
Noise Treatment	\$ 15.00
<b>Technology Implementation Total Cost</b>	<b>\$ 981.55</b>

# Recap



- Modifications
- Performance
- Cowling
- Cost
  
- Questions?