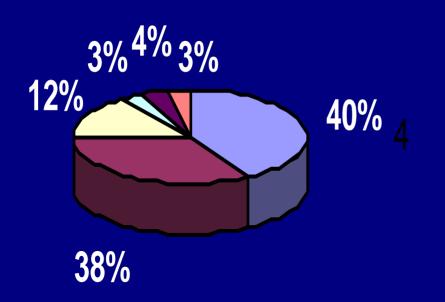
WESTERN WORLD DEMAND FOR MAGNESIUM PRODUCTS

Randy Beals

Industrial Mg Shipments (2003) WW Volume = 530,000 MT



■ AI Alloying

Cast Components

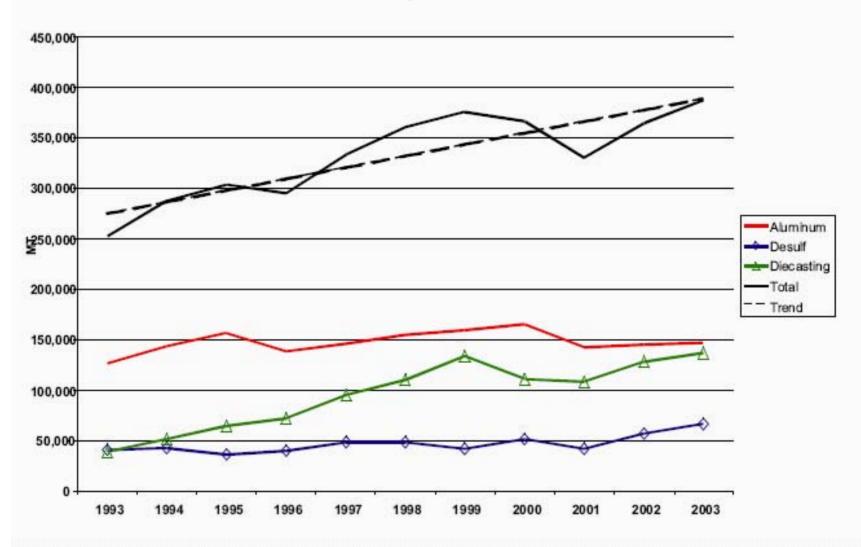
Desulph

□ SGIron

Chemical

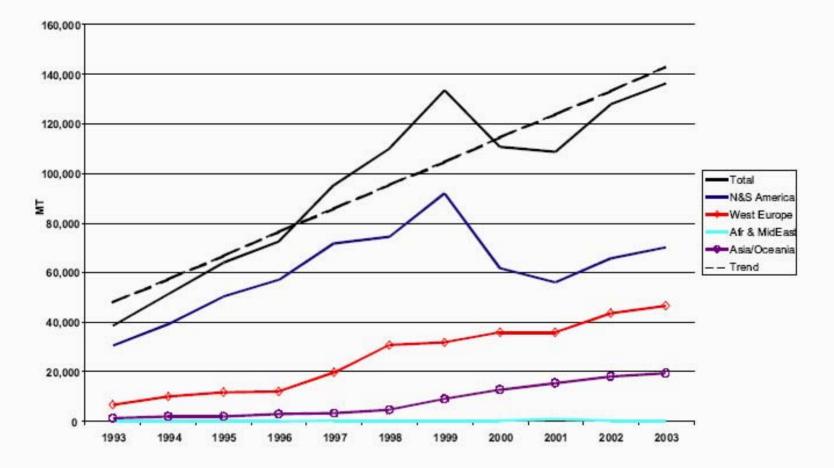
Misc

Western World Demand Figure 1

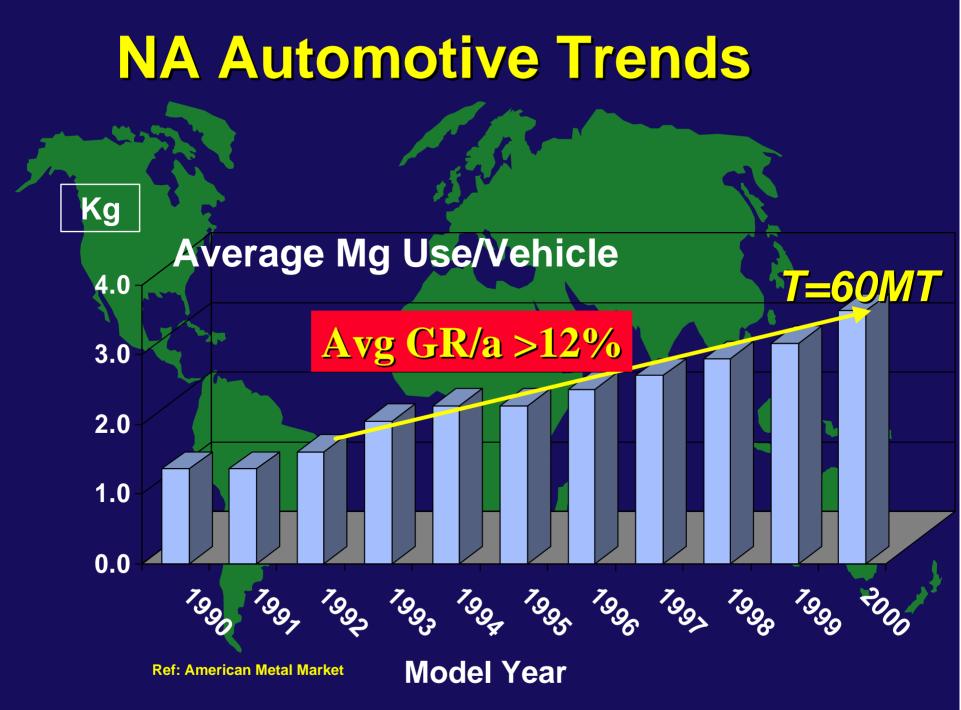


Tim Pretzer, COO, President Timminco

Diecasting Segment Demand Figure 7

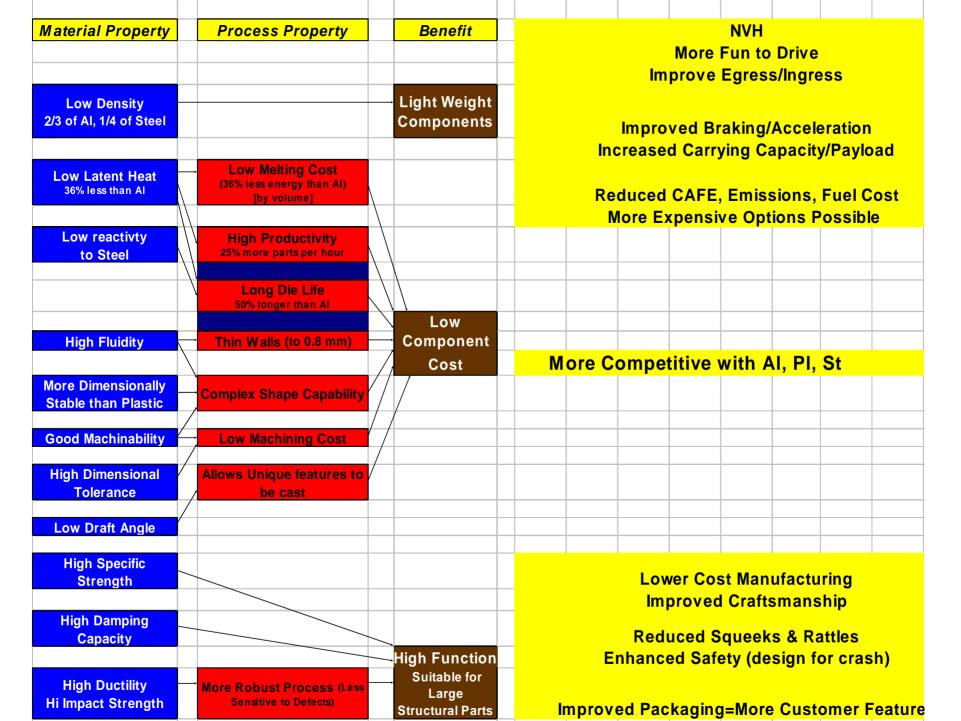


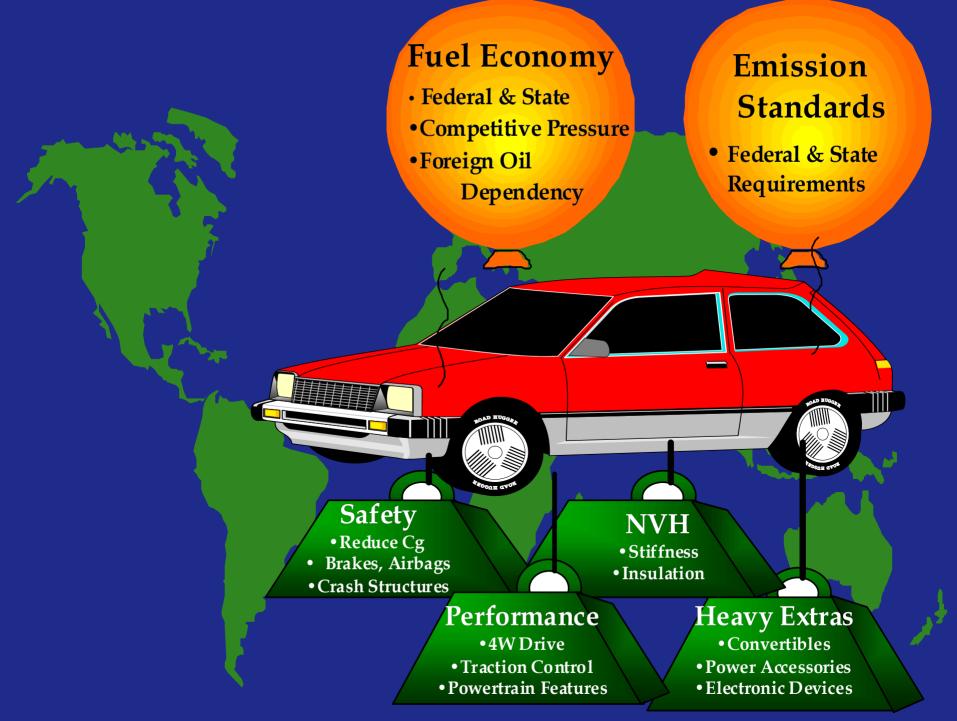
Tim Pretzer, COO, President Timminco



> The avg. (1,500 kg) vehicle has ~ 8% Al, i.e. 125 kg. >It has only ~5 kg Mg. >At 1/3% of a vehicle's mass, that's not particularly significant.

Why then should anyone care about magnesium?





It seems likely that, sometime during the next two or three decades, a confluence of circumstances will result in radical changes in transportation vehicles and fuels. These circumstances could include:

- · Periodic oil supply disruptions and/or price volatility.
- Increasing public recognition of the vulnerabilities associated with continued growth in world oil demand.
- Greater consensus among government leaders regarding actions to slow the growth of climate change emissions.
- Increased determination by government leaders to support strong policies to slow, and then reverse, the growth in national or world oil demand.
- Sustained higher conventional oil prices resulting from either monopolistic pricing or a peaking of world production levels.

Tom Gross, DOE (retired)