Military Titanium Markets

TITANIUM 2005

SCOTTSDALE, ARIZONA
Military Titanium Markets

Timothy G. Rupert

President and CEO
RTI International Metals, Inc.
Military Markets

- Major military aerospace programs
- Non-aerospace applications
- Military titanium consumption
Military Markets

- Military demand began in late 1940’s

- Titanium plays essential role in military hardware worldwide
U.S. Defense Budget

- Impressive growth since 1990’s
- Budgetary pressures
  - Supplementals for Iraq
  - Hurricane Katrina
- Currently $465 billion
F/A-22 Raptor

- **Airframe**: 39% titanium
- **Engines**: 40% titanium
- 60k lbs Ti per plane
- 179 planes
Joint Strike Fighter

- 80k lbs Ti per plane
- Ti shipments begin 2006
- 2,600 planes
Important Users of Titanium

- F/A-18
- C-17
- F-15
Aerial Tanker

Estimated 35,000 lbs titanium per plane
Unmanned Combat Air Vehicle

X-45

Global Hawk

X-47A
Europe

Eurofighter-Typhoon
2,000 lbs Ti per plane
600 planes

A-400
20,000 lbs Ti per plane
220 planes

Rafale
8,000 lbs Ti per plane
275 planes
Russia

- Strong boost in military spending

Su-27

Su-30
China

FC-1

India

Light Combat Aircraft (LCA)

Japan

MBT-X

Type 98

F-2

RTI International Metals, Inc.
Non-Aerospace Military Systems

- Mobility
- Lethality
- Survivability
XM777 Lightweight Howitzer

7,000 lbs/gun; 1,000+ anticipated production units
European Tanks

BAE CV-90

Giat Leclerc
Armor for Abrams Tank
Consumer of 2 million lbs titanium
Armor

Bradley

EFV

Stryker
Naval Applications

DD(X) Destroyer
Military Market

- Long term commitment and planning

- Defense budget process and swings in availability are problem

- Can be overcome
Major Worldwide Markets for Titanium

Military - 2004 by Volume

- Strong market
- Potential budget constraints
- Ti usage could grow 40-50% over next 5 years
## Military Titanium Consumption

**Millions of Pounds**

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Stryker
Thank you
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