



**Magnesium Elektron**

SERVICE & INNOVATION IN MAGNESIUM

# New Markets for Magnesium

**December 2013**

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ENVIRONMENTAL ● HEALTHCARE ● PROTECTION ● SPECIALITY

# Agenda

• **Automotive**

• **Healthcare**

• **Aerospace**

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- Die-castings growth continuing at 6-8% per year
- Electric cars and tighter CO<sub>2</sub> controls should accelerate uptake of magnesium
- Wrought products currently hampered by enabling technologies (eg joining, corrosion control) and cost







- Bio-absorbable magnesium developments progressing
- Animal trials for many parts ongoing
- Human trials for some applications underway

- 'Flammability regulations' for interior applications will be amended by FAA
- Both wrought and cast parts in secondary applications likely to see a resurgence
- Seating likely to be first applications



# Summary

- Die-cast applications in automotive will continue to grow quickly, electric cars offer much potential
- Wrought for automotive affected by cost
- Healthcare applications in development stage
- Flammability regulations for aircraft interiors now addressed
- Corrosion, particularly galvanic is still #1 issue







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