# North America & Europe Investment Casting Market Review

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### Introduction

- This presentation reviews the investment casting markets of North America and Europe
- These 2 regions represent a major portion of the world investment casting industry
- The review of these markets gives a summary for 2013 and estimates likely results for 2014



## **Acknowledgements**

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ICI (Investment Casting Institute - United States)

CAEF (Casting Association of European Foundries)

EICF (European Investment Casters' Federation)

cmf (Cast Metals Federation - UK)

The information given is based on official figures together with best estimates where statistics are not available. No legal responsibility is accepted for information, advice given or opinions expressed





## **North America & Europe**

- North America and Europe together represent 63% of the total world investment casting sales value
- This is due to the high level of production of castings for the High Added Value sector
- Together North America and Europe account for 85% of world sales to the High Added Value sector
- The increase in aerospace casting production is having a significant beneficial effect on investment casting worldwide

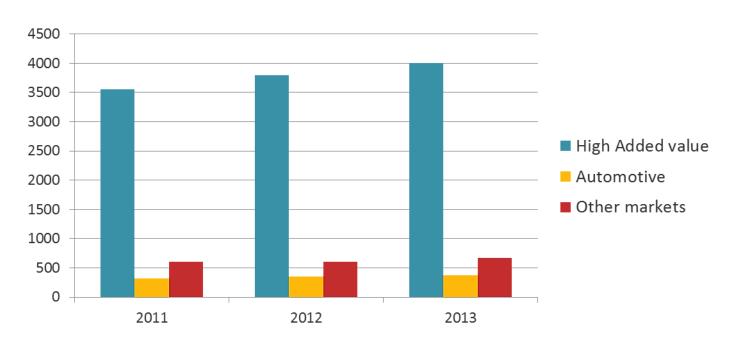




## **North American Market**



- Total North American sales in 2013 US\$5.04 Billion
  - Increased 6% over 2012
  - Represents 41% of global investment casting sales
  - Growth has been seen in all sectors







### **Aerospace**

- US airlines profitable
- US Airways American Airlines merger
- Record orders & deliveries
- Backlog exceeds 8 years production
- Single aisle aircraft experiencing strongest growth
- New casting applications driven by efficiency requirements
- Regional jet sales increased by 4%





#### **Industrial Gas Turbine**

- Orders still flat, impacted by slow economic recovery
- Installed capacity maintaining demand for spare parts
- Long term stability with gradual growth in the short term

#### **Automotive**

- 2013 saw the best auto sales year since 2007
- Sales & production continue at a high level
- Smaller vehicles with direct injection/turbocharger
- Tighter fuel standards driving new casting designs
- More castings required for passenger cars & commercial trucks





#### Medical

- 5% annual growth
- More joint replacements required
- Increased casting applications in diagnostic equipment
- Medical product demand will increase

#### **Commercial**

- Resurgence of casting requirements for all uses continues
- Oil & gas sector sales higher with further growth potential





# North American Investment Casting Estimated Sales 2014 (US\$B)

Aerospace \$ 3.30 Billion

IGT \$ 0.97 Billion

Automotive \$ 0.39 Billion

General Industry \$ 0.69 Billion

TOTAL \$ 5.35 Billion

6% increase on 2013



## **European Market**

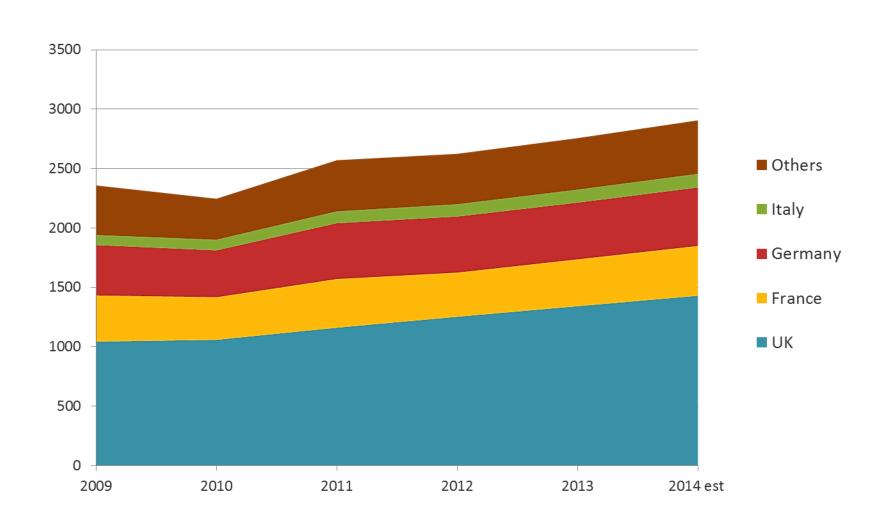


## **European Investment Casting Market**

- European sales totalled US\$2.75B in 2013
- An increase of 5% compared to 2012
- Some variation in country performances
- UK, France & Italy increase of 6 7%
- Germany and other countries increase of 1 2%



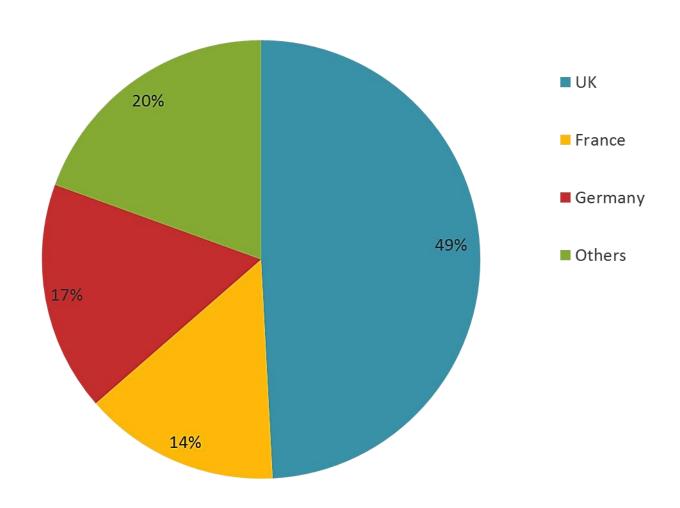
## **European Investment Casting Sales (US\$M)**







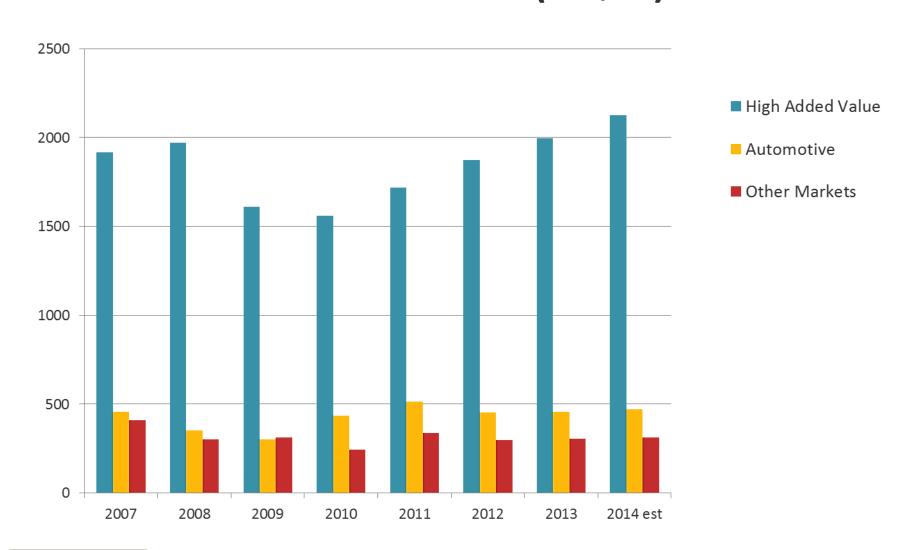
## **European Market by Country 2013**







# **European Investment Casting Sector Trends (US\$M)**







# **European Investment Casting Sector & Regional Trends**

- Countries with a high level of casting production for aerospace increased by approximately 7% in 2013
- Automotive and commercial casting showed slower growth
- European automotive regional trends varied
- UK +11% France -5% Germany -1% Others -2%
- Commercial castings +3% across all countries



# European Investment Casting Prospects 2014

- Aerospace to continue high level of growth
  - Further growth of 7% forecast
- Automotive sales showing signs of improvement
  - Overall growth of 3% forecast
- Commercial casting sales expected to increase
  - Growth of 3% forecast



## **Thank You**



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