

Networking Session on

**“Composite materials for the  
automotive industry”**



## Dr. Mark Coleman

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0.4 FTE InCrops

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- Expertise in plant molecular biology and biochemistry; biofuels
- InCrops' sectors: Transportation Fuels, Biomass Heat and Power; Biopharming



## UK vehicle production figures

- UK car production -55.3% (Apr-09 vs Apr-08)
- UK commercial vehicle production -65.2% (Apr-09 vs Apr-08)
  
- UK car production -56.2% (YTD)
- UK commercial vehicle production -63.6% (YTD)

Society of Motor Manufacturers and Traders (SMMT), 22/05/2009

## Reasons for optimism

- Projected long-term growth in vehicle numbers
- Policy commitment to carbon reduction
- End users seeking protection from long-term upward trend in energy prices
- Consumer re-evaluation of life-style choices

## Projected long-term growth in vehicle numbers

### Cars - UK

1956 – 3.4 million

2005 – 26.2 million

*Eightfold increase*

### Cars – World

2005 – 776 million

2050 – 3326 million\*

*Fourfold increase*

\*Estimate: Goldman Sachs Global Economics Paper, No 118, 2004

## Policy commitment to carbon reduction

EU:

Tailpipe CO<sub>2</sub>: average of 130 g/km

65% of newly registered cars by 2012

100% of newly registered cars by 2015

European Automobile Manufacturers Association (ACEA)



## Car components

Component	Weight (kg)	% of total
Steel	818	56
Plastic	176	12
Aluminium	124	9
Cast Iron	92	6
Elastomers	58	4
Glass	38	3
Other	142	10
Total	1,449	

Ford Mondeo.  
Cook, 2009

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- Presentation by InCrops partner LCIC. **Bruce Tofield** (5-10 min)
- Presentation by InCrops client EcoTechnilin. **Ben Shadla-Hall** (5-10 min)
- Presentation by InCrops client Automotive Design Partnership - **Nigel Lempriere** (5-10 min)
- Open discussion – (20-25 min)