

# **SUSTAINABLE INNOVATION 2015, UNIVERSITY OF CREATIVE ARTS**

– PAST, PRESENT AND FUTURE SUSTAINABLE INNOVATION & DESIGN

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# DESIGN FOR DISSASSEMBLY & EOL RECYCLING

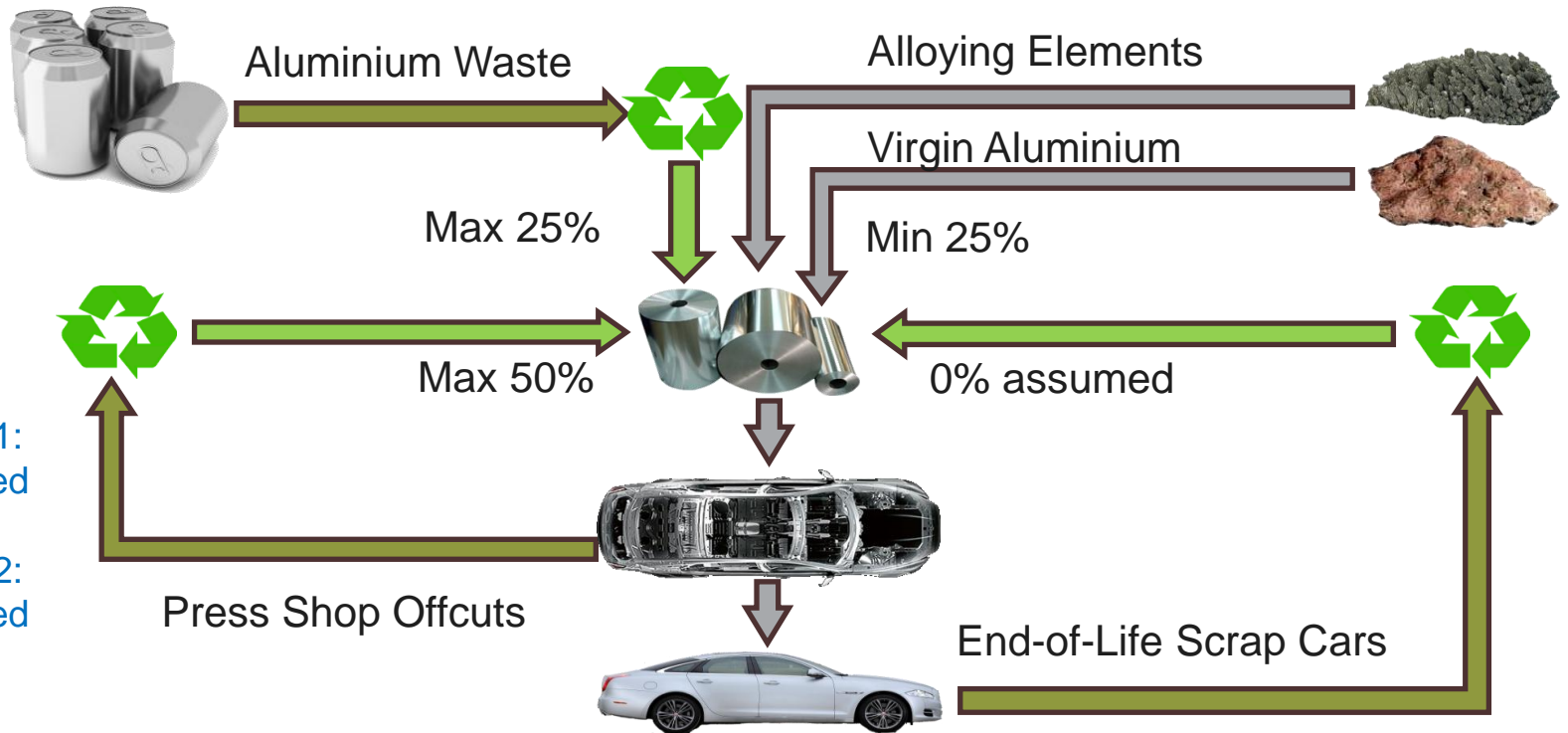
– Smiths Group 2005



# TATA SWATCH

– Intra-company collaboration





- REALCAR 1: 50% recycled content
- REALCAR 2: 75% recycled content

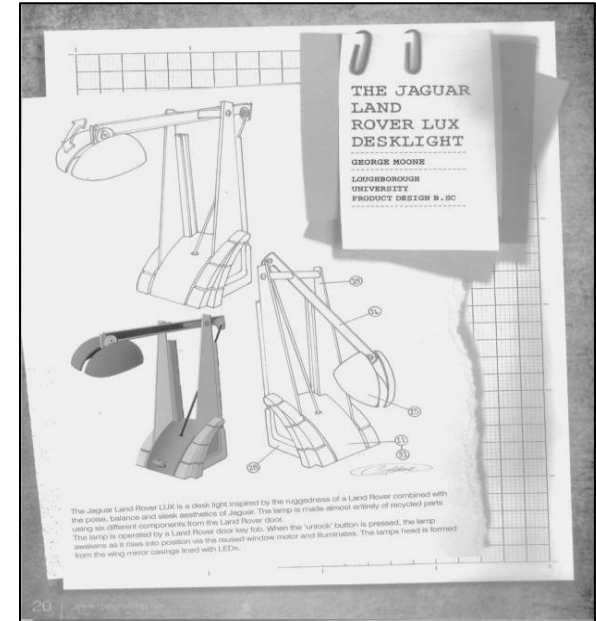
# DESIGN INNOVATION FOR THE CIRCULAR ECONOMY

## Materials and Design Exchange (MaDE) and ELVs



The Institute of Materials,  
Minerals and Mining

### New Life From Old - A Student Material & Design Competition



Selection of Door Parts for Reuse Study

Competition Winning Entry



# WHERE'S IT GOING IN THE NEXT 5-10 YEARS?

## – Innovation and disruption hits the accelerator

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- Next generation sustainable materials
- Further advances in lightweighting
- Circular economy and use of post consumer waste ('from cans to duvets')
- Re-engineering the value chain to create sustainable supply chains
- New business models – from products to products and services
- Increasing use of technology (autonomous driving vehicles, self-learning car and 'big data')
- More application of engineering expertise for social good



THANK YOU

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SUSTAINABLE DEVELOPMENT  
2015