

Opportunities for Industrial Technique








Atlas Copco Capital Markets Day, December 1, 2010
Mats Rahmström, Business Area President

Sustainable Productivity



Agenda

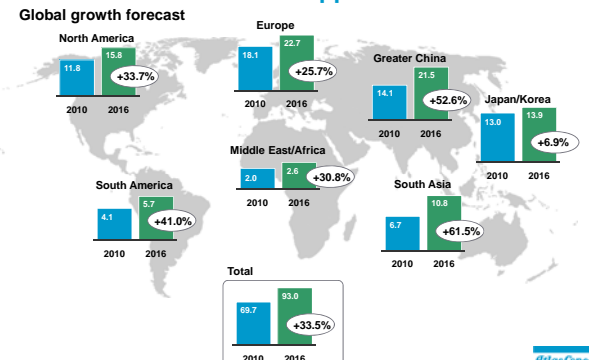
Opportunities

-  Automotive
-  Asia
-  Aerospace
-  Electronics
-  Off-road
-  Power & Energy
-  Service
-  Globally




Automotive – trends and opportunities

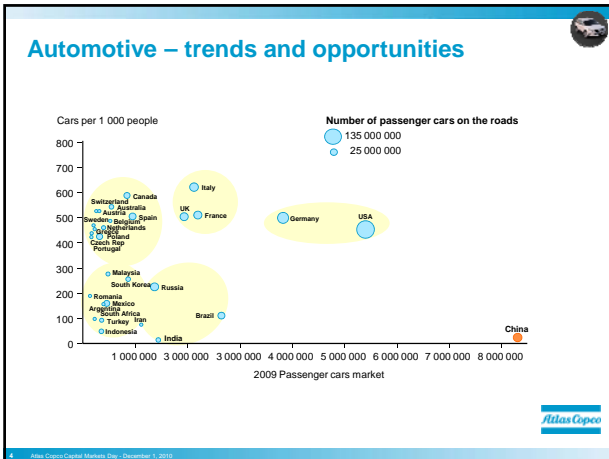
Global growth forecast



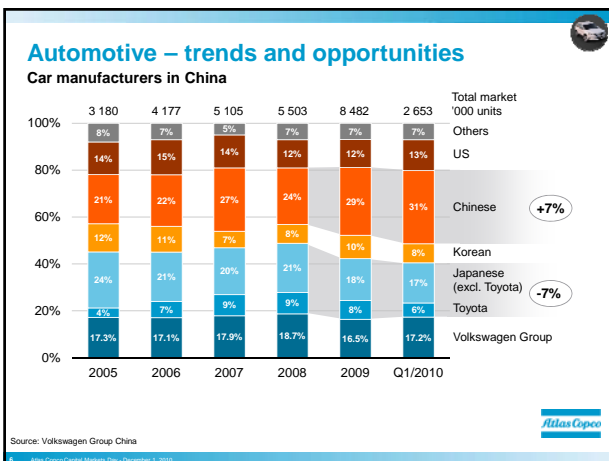
Region	2010	2016	Change (%)
North America	11.8	15.8	+33.7%
Europe	18.1	22.7	+25.7%
Greater China	14.1	21.5	+52.6%
Japan/Korea	13.0	13.9	+6.9%
Middle East/Africa	2.0	2.6	+30.8%
South America	4.1	5.7	+41.0%
South Asia	6.7	10.8	+61.5%
Total	69.7	93.0	+33.5%

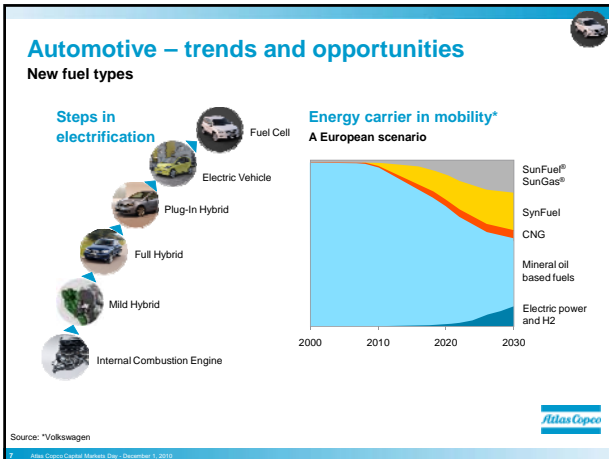
Source: CSM Global light vehicle production summary.

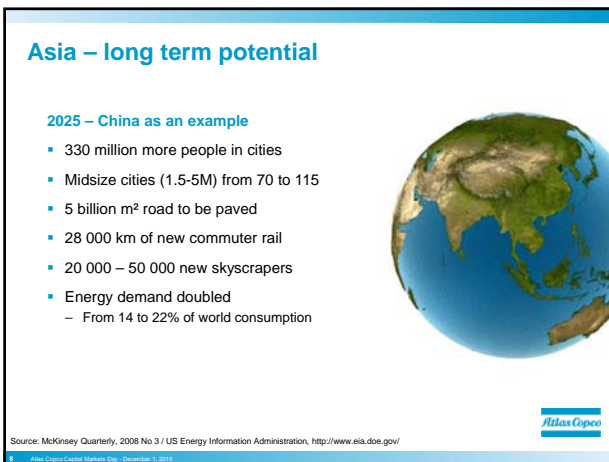


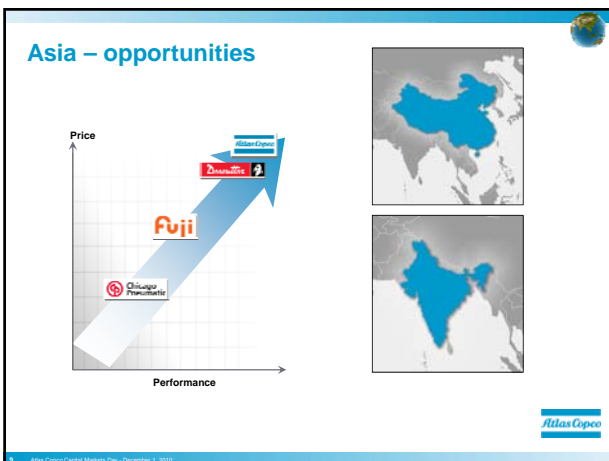












Aerospace

Final assembly

Tiers (e.g. engines)

Defense

Aircraft maintenance and repair

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Aerospace – trends and opportunities

- Demand for 25 000 new large aircraft over the 2009 – 2028 period
- Production of aircrafts is expected to increase by approx. 10% annually 2010-2016
- Clear trend towards larger aircraft will positively affect demand for industrial tools

Passenger (>100 seats) and large freighter aircraft demand. Forecast 2009 – 2028

Year	Recycled or converted	Replaced	New deliveries
2009	~5,000	~10,000	~15,000
2028	~5,000	~15,000	~25,000

Sources: Airbus and AeroStrategy Management Consulting. Analyzed and processed by Atlas Copco November 2010.

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Aerospace – trends and opportunities

- Weight reduction in new airplanes for increased fuel efficiency
- Increased use of composite and stack material -> higher demand on tightening and drilling
- Trend towards joints replacing rivets
- Automation and standardization to raise productivity in production
- Stronger focus on quality assurance

Tools for transformation

Tensor STB

ST Wrench

Positive Feed Drill

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Electronics

Communications

Computing

Consumer electronics

Automotive electronics

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Electronics – trends and opportunities

- **Electronics manufacturing is growing following a sharp drop in 2009**
 - Estimated annual growth is 5-6% until 2014
 - Better than average growth is estimated to be in industrial, medical, telecoms, dataprocessing and automotive end markets
 - Home appliances and audio & video is estimated to have lower growth
- **Asia is dominating the electronics manufacturing**

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Electronics – trends and opportunities

- Smartphones designed with more screws, from 4-10 to 20-60 per phone
- Major cell phone manufacturers to increase output in 2011
- Hard disc drive segment maintains 20% growth 2011
- Car navigation systems expected to grow ~15% in 2011

Tools for transformation

MicroFocus

MicroTorque Ergo

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Off-road

Construction & Mining Equipment

Agriculture & Forestry

Lifting and Handling Equipment

Engines

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Off-road – trends and opportunities

Infrastructure

Urbanization → Construction Growth → Metals/Aggregate Demand

World population¹
In billions

Worldwide infrastructure construction market growth²
US\$ Billions

Sources: 1. UN, Worlds Urbanization Prospects, The 2007 revision. 2. Global Insight, Oct. 2010

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Off-road – trends and opportunities

Transformation

2 operations – 3 persons
Poor quality control
Safety risk

1 operation – 1 person
Documented quality
Excellent ergonomics

- Produce better quality
- Produce faster with high flexibility
- Secure operator well-being
- Standardize process globally

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Power & Energy

Heavy engineering

Power Generation

Petrochem

Off-road and mining

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Power & Energy – trends and opportunities

World market energy consumption

Year	Non-OECD	OECD
2007	~200	~200
2015	~250	~200
2020	~300	~200
2025	~350	~200
2030	~400	~200
2035	~450	~200

Sources: EIA - International Energy Outlook 2010

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Power & Energy – trends and opportunities

- Majority of applications require high torque assembly
- Assembly tools are critical to process performance and safety, however investment costs are low in relation to other costs
- Awareness of importance of correct tension is high
- Importance of process time

Tools for transformation

Tensor Revo

LMS 68

LTP 61

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Service – trends and opportunities

-  Outsourcing increases
-  More advanced equipment require OEM service
-  Global common solutions
-  On-site service increases




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Service – trends and opportunities



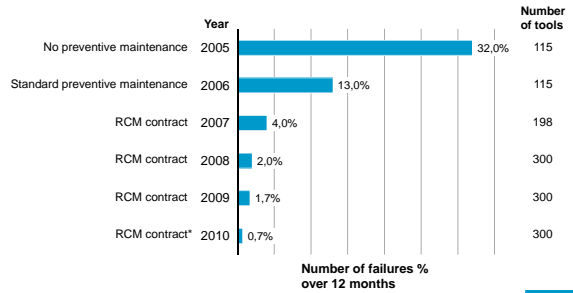

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The value of a service contract

Engine plant producing 110 000 – 140 000 engines/year

Year	Number of failures % over 12 months	Number of tools
No preventive maintenance 2005	32,0%	115
Standard preventive maintenance 2006	13,0%	115
RCM contract 2007	4,0%	198
RCM contract 2008	2,0%	300
RCM contract 2009	1,7%	300
RCM contract* 2010	0,7%	300

RCM = Reliability Centered Maintenance. *Q1-Q3 2010



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