

### JT International Investor Field Trip

### **Trier Factory**

Luxembourg / Trier

September 19-20, 2011

quality commitment innovation synergy



### Jürgen Rademacher

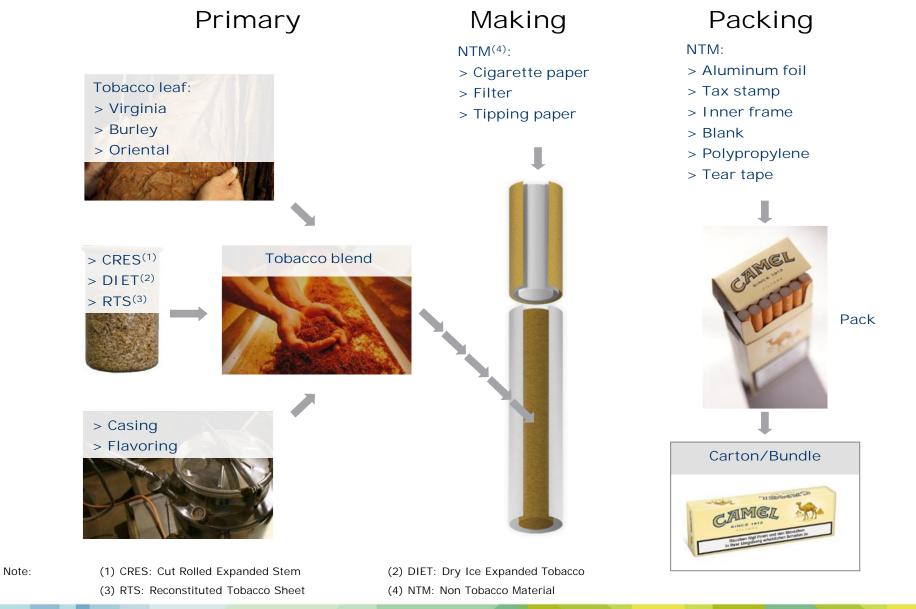
Western Europe Manufacturing Vice President

- Introduction
- Trier Factory
- JTI Trier Strategy & Performance
- Concluding Remarks



#### Cigarette manufacturing process overview

#### JŢĪ

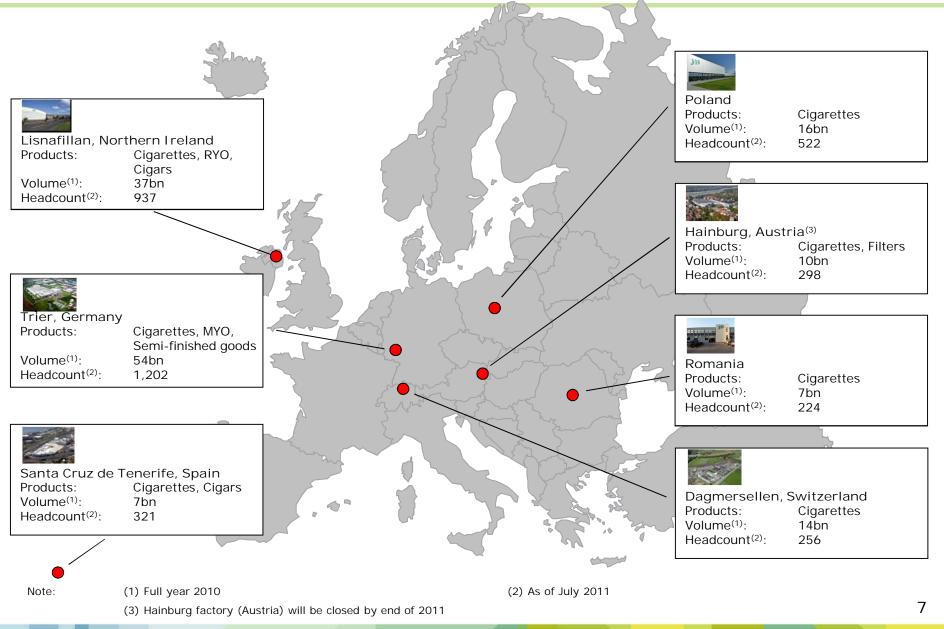


#### Supply chain process overview

#### JĪ



# We operate 7 factories in Europe, with a production volume above 145 billion units



JŢĪ



# The Trier region has over 100 years of tobacco tradition, **m** with a highly skilled and experienced workforce



Start of cigarette production in Trier by *Haus Neuerburg* 

Factory in Trier downtown taken over by RJR in 1969

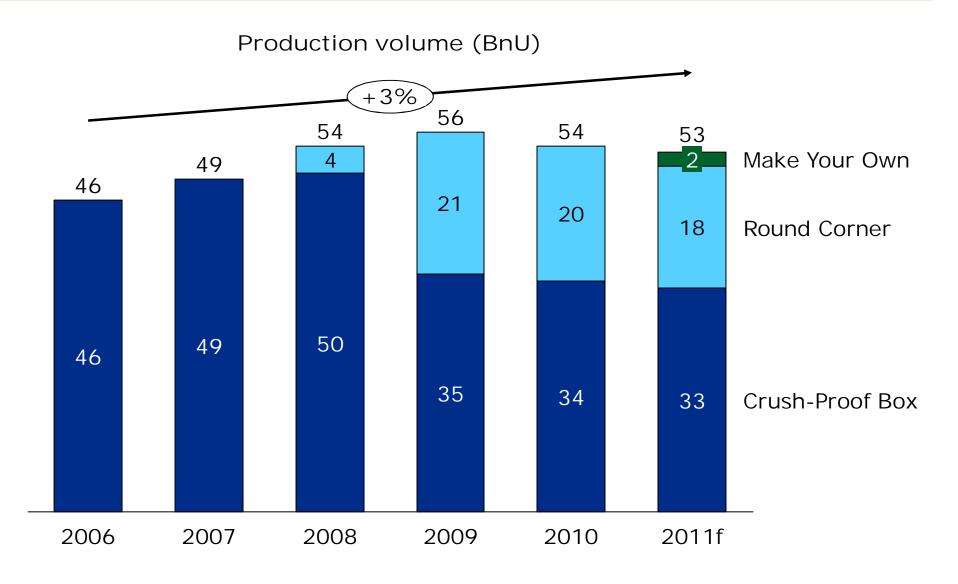
Production start in the new Trier factory

- 1995 First generation of high speed machines with 14,000 cigs./min
- 1998 First certification awards for ISO 9001 and ISO 14001
- 1999 JT takes over Reynolds International and creates enlarged JTI
- 2002 New DIET and new CRES plant

Note:

- 2003 High speed machines with 16,000 cigs./min, SAP implementation
- 2004 First certification as 5S<sup>(1)</sup> Best-in-Class factory in the German industry
- 2007 JT acquires Gallaher, enlarging JTI
- 2008 First time production volume exceeds 50 billion cigarettes
- 2009 Newest generation of ultra high speed machines with 20,000 cigs./min
- 2010 Introduction of innovative filter distribution system

(1) SEIRI: Sort out, establish order; SEITON: Systematic arrangement; SEISO: Spruceness, cleanliness; SEIKETSU: Standardize; SHITSUKE: Self-discipline



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# Trier supplies semi finished goods to 26 factories including third party manufacturing partners



- JTI Trier Strategy & Performance -

Mission statement

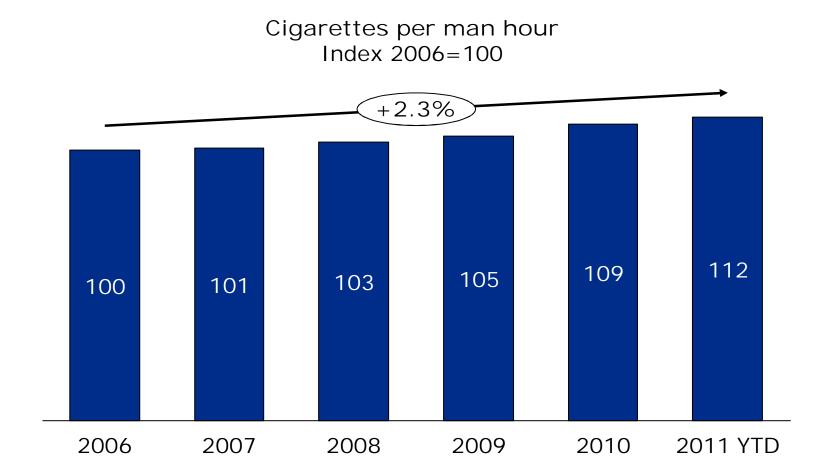
As one team be the industry best supply chain, driving continuous improvement and excellence in execution

#### Strategies

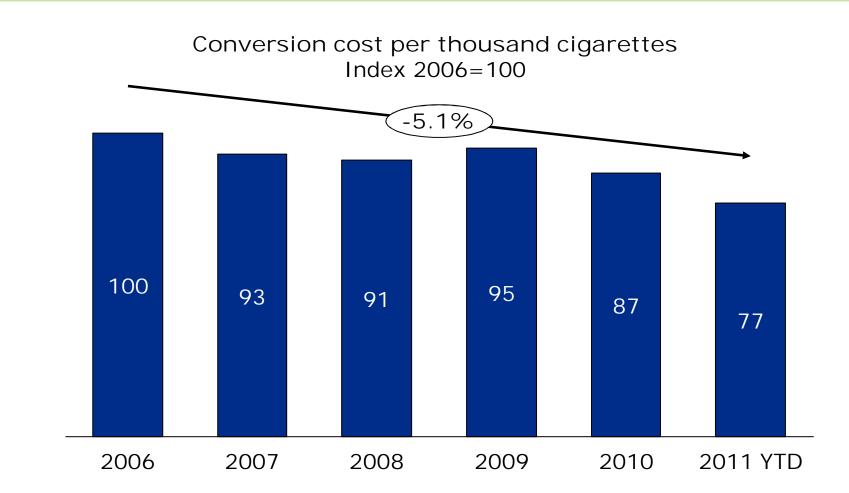
We will:

- Deliver highest quality products at best cost
- Maintain shortest possible lead times
- > Work as one team
- Ensure positive and transparent collaboration
- Promote innovation
- Provide a proper work environment

### Best-in-class productivity in the industry, growing 12% JI over the past 5 years



Our key focus includes investment in automation and high-end ultrahigh-speed machinery



In addition, strong focus on working capital optimization

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(1) Japanese word for continuous improvement

Note:

CIP (Continuous Improvement Process)  $\geq$ 

- KAIZEN<sup>(1)</sup> as a factory mindset  $\succ$ 
  - $5S^{(2)}$  as a company goal  $\triangleright$ 
    - Trier Factory received seven times in a  $\succ$ row the "5S Best In Class Factory" award



#### Our strong focus on quality is supported by effective management tools

- ISO standardization  $\succ$ 
  - Solid and certified Process Management  $\geq$ System in place, ensuring proper business, quality, environmental and safety processes
    - ISO 9001  $\triangleright$
    - ISO 14001  $\triangleright$
    - OHSAS 18001  $\triangleright$

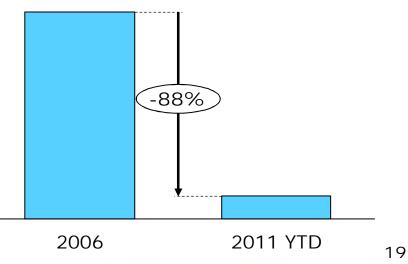
<sup>(2)</sup> SEIRI: Sort out, establish order; SEITON: Systematic arrangement; SEISO: Spruceness, cleanliness; SEIKETSU: Standardize; SHITSUKE: Self-discipline

#### We are continuously improving to deliver industryleading product quality

- ISO 9001 Quality Management
  System certification since 1998
- Strong synergy with our Japanese factories, ensuring robust process control of Product Quality and encouraging "never satisfied" mindset
- Outstanding product taste consistency and visual quality delivered with 70% improvement over the past 5 years
- Deviations from technical specifications reduced by 88% over the past 5 years

Note: (1) Weight difference to target tobacco weight included in one cigarette

2006 2011 YTD Net tobacco weight difference<sup>(1)</sup> to specification

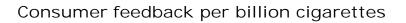


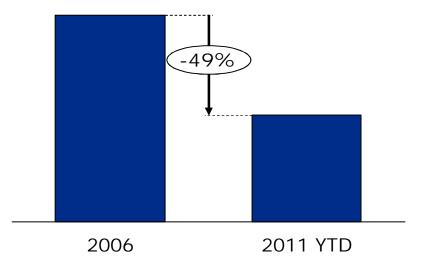
JTI R&D Quality Audit Rating

+70%

### Acting on consumer feedback through continuous improvement

- An effective consumer feedback tool is in place, with an effective handling procedure
- Factory analyzes and investigates feedback for immediate improvement
- Counter measures applied, coordinated with Market and R&D functions

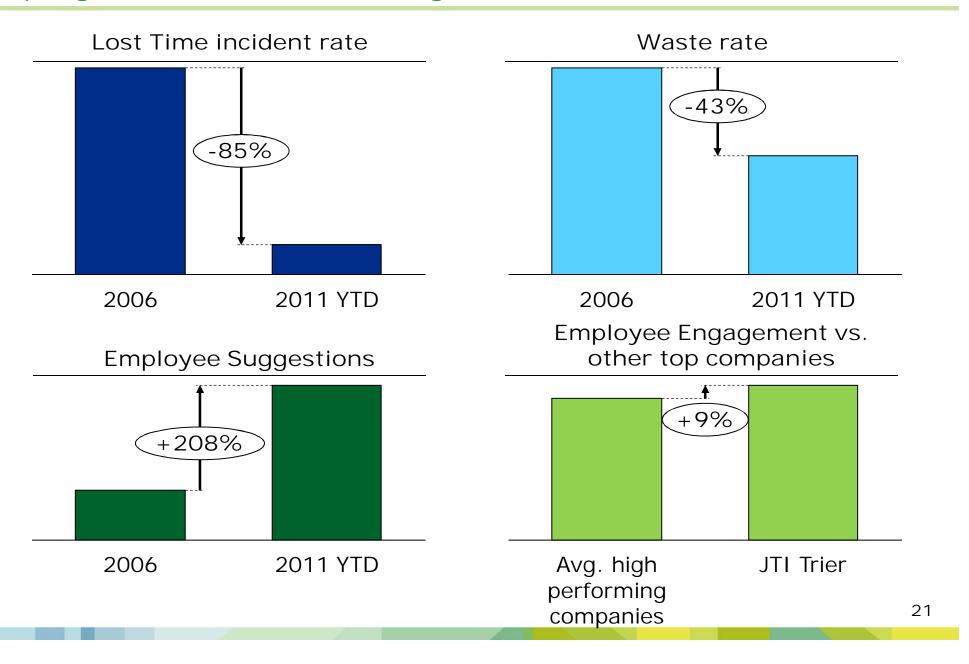




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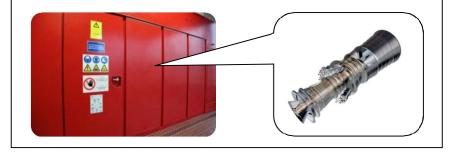
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#### Our Continuous Improvement approach has resulted in progress across a wide range of areas



### Co-generation reduces both costs and CO<sub>2</sub> emissions

- Steam is produced, using natural gas. As a by-product of this process electricity is generated
  - Energy cost savings of US\$1.5 Million/year
  - CO<sub>2</sub> emission reduced by
    1,600 tons/year



Outstanding Recycling Rate of 99.4%

- Disciplined separation of waste in all areas
- Benchmark for all JTI Factories

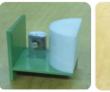


#### KAIZEN: Trier invented Safety Knife substantially reducing number of cut injuries



Unsafe

condition



Version 1



Version 2



Version 3



Version 4



Number of registered injuries -91% 2009 2010 YTD 2011



Roll-out final version with hidden knife

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- Concluding Remarks -

- Delivering a uniquely diverse portfolio of products worldwide
- Improving productivity at the highest quality level
- Investing in high-end technology
- Demonstrating high levels of employee competence and engagement
- Achieving long-term commitment to continuous improvement, focusing on quality and cost efficiencies