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# Global Head Sugar cane

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### Brazil: the world's leading sugar cane producer

2012 global sugar cane production: 1774Mt









### Continuing growth in global demand driven by ethanol use

World sugar cane demand bn tons



Source: FAPRI, Datagro, Syngenta analysis

### **Ethanol**

- Blending mandates worldwide
- Growing use for other products such as bioplastics

#### Sugar

- Population growth
- Diet shift in large and fast growing emerging markets

# Expanding base of flex-fuel cars in Brazil



### Major opportunity for productivity improvement in Brazil



Brazil yield increase factor since 1960

#### Brazil market opportunity to 2027



- Only country able to support large area expansion
- Large scale growers with technology mindset



Lack of investment has impacted sugar cane yield



### **Recent production shortfall set to reverse**

Brazilian sugar cane production



### **Factors affecting production since 2008**

#### **Global credit crisis**

- Low renewal rates
- Under-usage of crop protection

#### **Unfavorable weather**

- 2009: floods
- 2010-2012: drought

80

70

60

50

**Environmental commitments** Adoption of mechanization

#### **Key consequences**

- Yield decrease Idle industrial capacity
- Increase in unit costs

syngenta

### Syngenta Sugar cane Brazil: sales doubling every two years





2<sup>nd</sup>

2012 15.0%

Sales ex Brazil ~\$70m



### Sugar cane faces many yield-limiting factors



Source: IAC, Kuva et al (2003), Syngenta analysis

### **Rust level**

(25%)





#### Equivalent to 3.5 tons sugar/ha



### Addressing yield-limiting factors in an integrated way





#### **Unleashing potential**







### Innovating beyond products: ACTARA example

### **Proprietary spray solution**



- **Environmental benefits**
- Enhances competitiveness against generics

- Application at harvest
- when needed
- Saves water and diesel

#### **Key benefits**

#### Chemical becomes available

### Substitutes aerial application



### **New PLENE opportunities opening up**





- Expanding biofactory capacity to exploit germplasm quality advantage
- Adapting and rescaling manufacturing
- Ongoing collaboration with growers
- Launching new offers





### At the forefront of biotech development





- Leveraging global biotech expertise
- Herbicide tolerance and insect resistance expected soon after 2020
- Evaluation of sugar, biofuel and second generation insect traits



### Value creation horizons: Sugar cane









## Por uma **Cana** plena. We are cane

For top cane productivity







Bringing plant potential to life



