

Investor Meeting May 10, 2005

Jean Spence
Executive Vice President – Global Technology & Quality

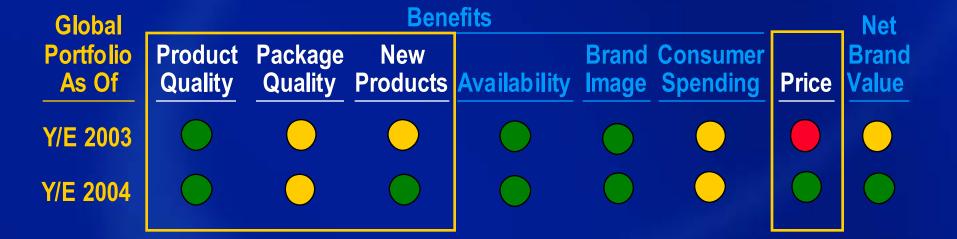
#### **Global R&D Investment**

- 2,100+ scientists and engineers
  - 36 countries
  - 441 universities represented
  - 96 disciplines (degrees)
- Significant food patent estate
  - 2,100 worldwide
  - 1,100 in U.S. (largest in industry)
- R&D spending of \$388 MM (2004)



## **Build Superior Consumer Brand Value**

#### **Technology Impact**







### **Innovation Model**

Consumer Needs/Insights



Enabling Technologies



Sustainable Growth



# **Increased Impact Of Technology**

- Improved Focus
  - Category Expertise
  - Dedicated Resources
- Enhanced Scale Leverage
- Faster Speed To Market



#### **Focused R&D Infrastructure**

**Global Core Category Centers Of Expertise** 



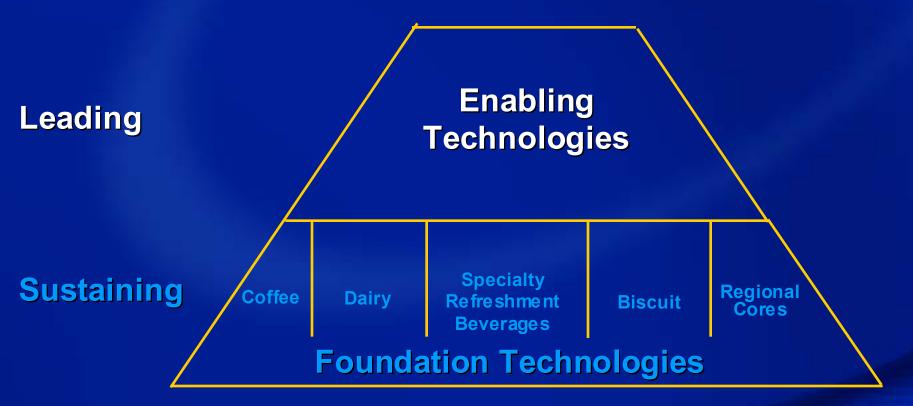
#### **Focused R&D Infrastructure**

Regional Core Category Centers Of Expertise

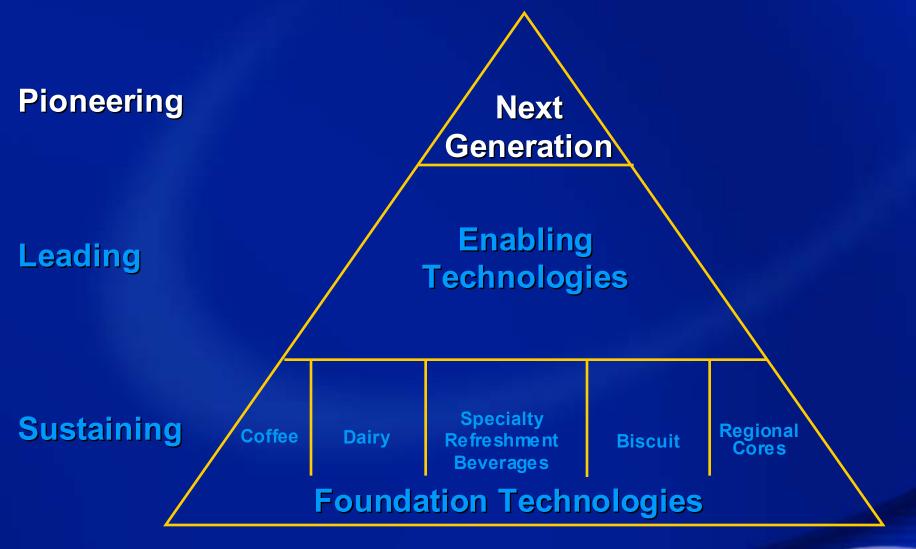




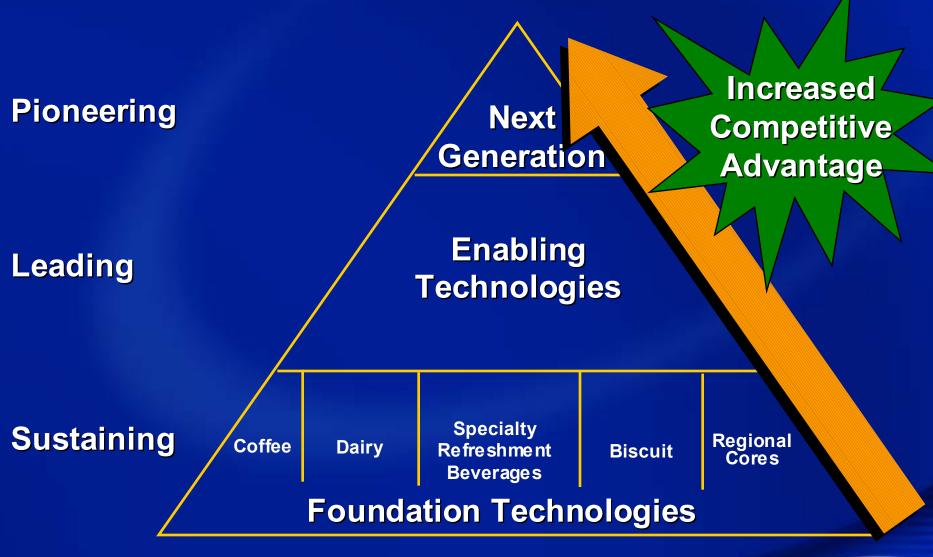














# Dairy Technology Expertise

Next Generation

**Enabling Technologies** 

**Foundation** 

Flavor Creation

Milk Separation **Component Optimization** 















## **Dairy Foundation Technologies**

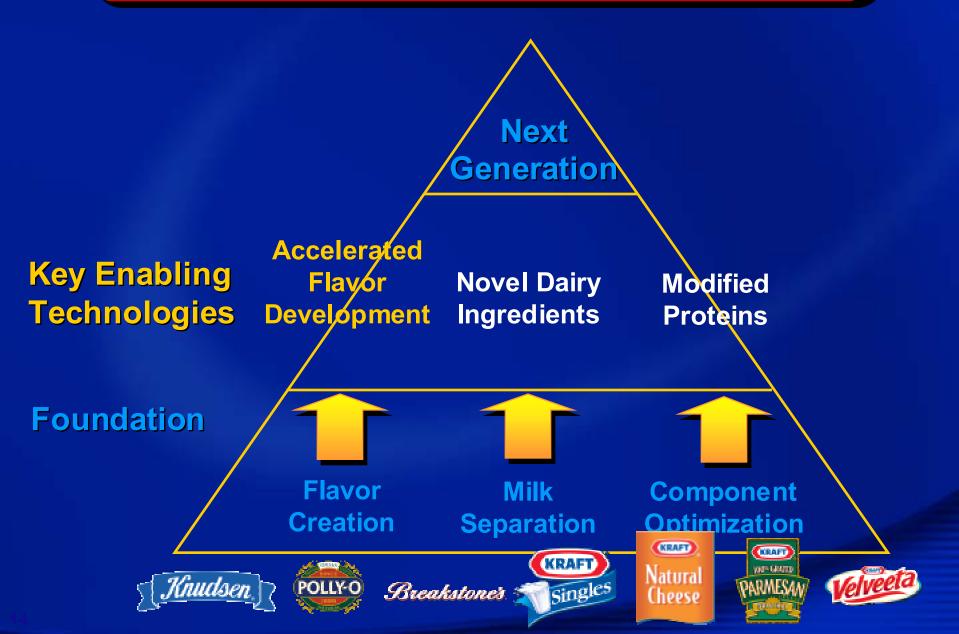
#### **Flavor Creation**



- Proprietary:
  - Flavor creation
  - Formula
  - Processes
- Strong consumer preference – 67% say
   Philadelphia "makes a better cheesecake"



# **Dairy Technology Expertise**



## Dairy Enabling Technologies

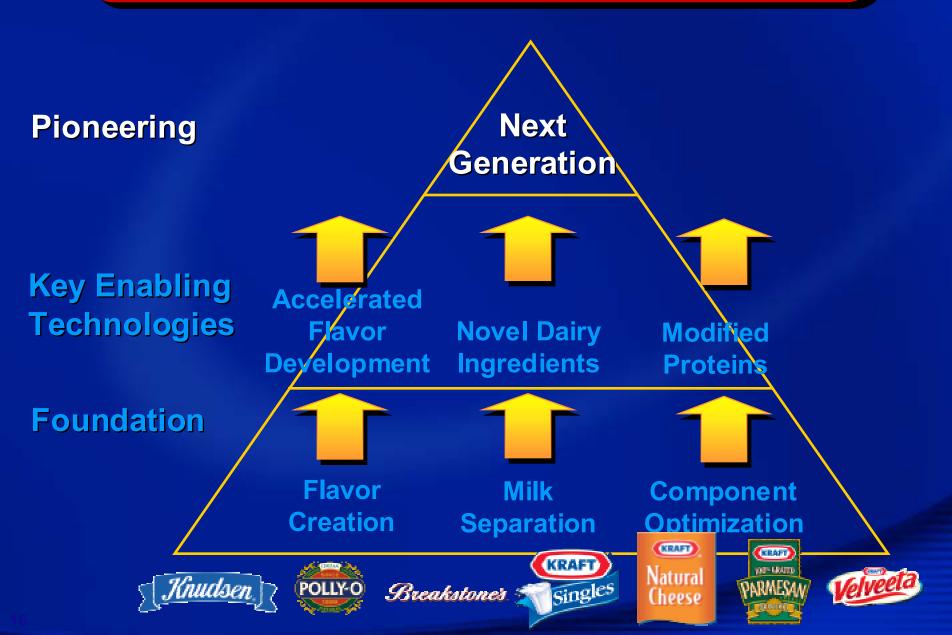
#### **Accelerated Flavor Development**



- Patented fermentation process
- Proprietary flavor ingredients
- Proprietary flavor & aroma chemistry
- Significant Velveeta consumer preference vs. Private Label (67% blind)



# Dairy Technology Expertise



## **Dairy Next Generation Technologies**

#### **Emerging Science**

- Flavor fractionation / potentiation
- Highly functional ingredients
  - Isolation
  - Modification



#### **Applications**

- Improved Better-For-You Products
  - Flavor
  - Nutrition
- Lower cost structure (Developing Markets)



# **Increased Impact Of Technology**

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**Technologies** 

Single

Multiple

Single

**Categories** 

Multiple



**Technologies** 

Multiple

Single

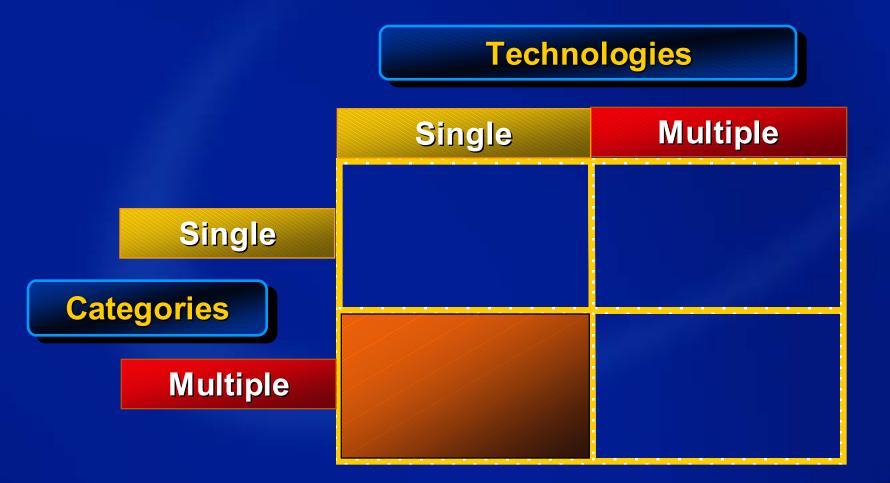
**Categories** 

Multiple



Single







## **Enabling Technologies**

- 1. Dairy
- 2. Grains & Baking
- 3. Health-Promoting Ingredients
- 4. Preservation & Food Safety
- 5. Functional Packaging



## 2. Grains & Baking

#### Microwave Bread / Dough



- Proprietary formulation
  - Browns in microwave
  - Crispy crust
  - Aroma release
- Patented susceptor design
- Extendable to other categories



## 3. Health-Promoting Ingredients

#### **Healthy Oils**



- Exclusive rights to proprietary, low trans – fatty acid oil
- Superior product stability over shelf-life
- Improved flavor
- Wheat Thins Q1 '05 revenues up double-digits
- Extendable across multiple categories



## 4. Preservation & Food Safety

#### **Anti-Microbials**



- Patented ingredients
  - Sodium Lactate
  - Sodium Diacetate
- Licensing technology to processed meat industry
- Improved category safety



## 4. Preservation & Food Safety

#### **Next Generation**

- New Processes
- New Ingredients



#### **Potential Benefits**

- Addresses consumer desire for "Freshness"
  - Cleaner flavors
  - Crisper textures
- Improved nutrition



## 5. Functional Packaging

#### Adhesives / Reseal



- Resealability the #1 consumer suggestion on biscuits
- Patented EZO/reseal technology
- Additional patents filed
- 70% of consumers say they "definitely would buy" (vs. 51% for current package)



## 5. Functional Packaging

#### **Design and Closure Technology**



- Multiple design and utility patents
- Improved convenience and refrigerator storage
- Exclusive category access to patented manufacturing process
- Purchase interest significantly higher than glass package

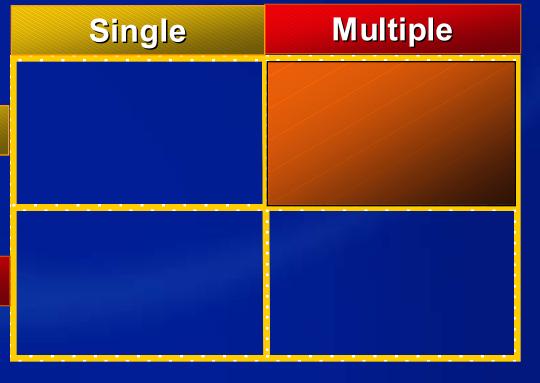


**Technologies** 

Single

**Categories** 

Multiple





### **Multi-Technology Scale**

#### **Powdered Beverage Fortification**



- \$1B global milk modified beverages category
- Integration of technologies
  - Health-promoting ingredients & fortification
  - Dairy expertise
  - Flavor expertise
- Margin contribution per lb.40% higher than base Tang



## Multi-Technology Scale

#### **Tassimo On-Demand Hot Beverages**



- Integration of technologies
  - Functional packaging
  - Dairy technologies
  - Flavor expertise
- >20 patent applications filed in multiple countries



### **Multi-Technology Scale**

#### **Coffee Category Transformation**



France Avg. Price / Cup (Index Vs. Instant Coffee)

Instant Coffee	1.0
Filter Coffee	1.3x
Mixes	2.7x
On-Demand Pods	3.3x
Tassimo	6.3x
Away From Home	> 25x

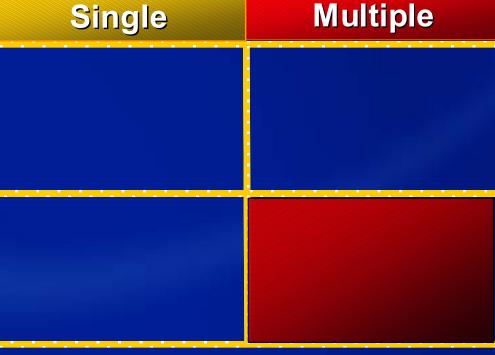


**Technologies** 

**Categories** 

Multiple

Single





## **Multi-Category Scale**

#### South Beach Diet Product Line



- Scale entry into \$20B+ weight management foods category
- Leverages:
  - Health-promoting ingredients
  - Grains and baking
  - Functional packaging



#### **Technologies**

Single

Multiple

Single

Categories

Multiple













# **Increased Impact Of Technology**

- Improved Focus
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# **Faster Speed To Market**

**Back to Nature Acquisition – September '03** 





## **Back to Nature**

#### **Product Line Expansion**



- Expanded into 7 new categories in 8 months
- Leveraged existing category technologies and expertise
- Achieved with less than\$1 million in capital



# **Faster Speed Through Scale**

#### **Tassimo Development**

Glenview, Illinois



Milk Development



**Global Dairy Component** 

Banbury, U.K.



Global Brewer
T-Disc
Development



Global Brewer and Product

Menu

Tarrytown, New York



N.A. Product Development



U.S. / Canada Application



# **Tassimo Expansion In 2005**

U.K., Switzerland, U.S. & Germany





# Faster Speed Through Alliances

- Ideation Alliances
  - Consortium For Corporate Entrepreneurship
  - NineSigma
  - Kitchen of the Future
- Research Alliances
  - Nanotechnology Consortia
  - Senomyx / Monell
- Development Outsourcing
- Supplier Production of Kraft patented ingredients



# **Kraft R&D Is Changing**

#### **From**

Extensive project lists with lower impact

#### <u>To</u>

Improved Focus

 Fewer, bigger & more
 incremental new products



# **Kraft R&D Is Changing**

#### <u>From</u>

- Extensive project lists with lower impact
- Category Councils optimizing local resources

#### <u>To</u>

- Improved Focus
   Fewer, bigger & more
   incremental new products
- Enhanced Scale Leverage
   Global teams optimizing
   global resources &
   leveraging technology/
   growth platforms



# **Kraft R&D Is Changing**

#### <u>From</u>

- Extensive project lists with lower impact
- Category Councils optimizing local resources

Inflexible processes & long time to market

### To

- Improved Focus
   Fewer, bigger & more
   incremental new products
- Enhanced Scale Leverage
   Global teams optimizing
   global resources &
   leveraging technology/
   growth platforms
- Faster Speed To Market
   Flexible processes
   enabling quicker
   development & decisions

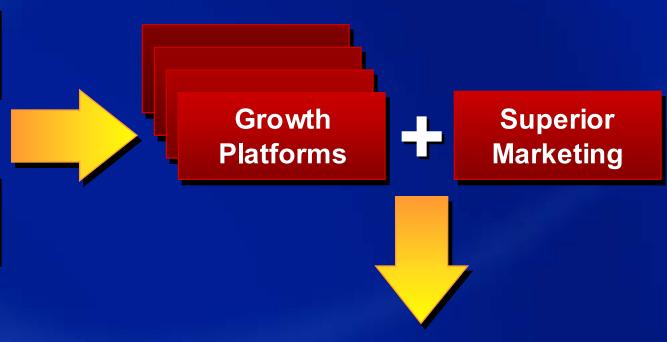


## **Innovation Model**

Consumer Needs/Insights



Enabling Technologies



Sustainable Growth



# Technology and Ideation

#### **Innovation Days**





# **Innovation Day Result**





# **Kraft Kitchens Innovation Center**

#### Kitchen of the Future





#### **Kitchen Of The Future**

- Innovation incubator
- Observation of consumer interaction with future technologies
- Technology / appliance / design expert partnerships
  - Accenture
  - GHK Design
  - IBM
  - Appliance manufacturers
- Kraft growth opportunities
  - Products for emerging appliance/cooking options
  - Simpler meal preparation
  - Personalized nutritional guidance



# Video In Progress



Investor Meeting May 10, 2005

**Q&A Session** 



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