

# Industry Research Needs

An overview and update on the Florida  
Citrus Industry Research Coordinating  
Council

Citrus Processing Short Course  
September 18, 2003

Tim Anglea, Ph.D.  
Chairman, FCIRCC

# Outline

- **History and Overview of the Council**
- **Process**
- **Research Priorities**
- **Resource Allocations**
- **Gaps**

# FCIRCC - History

- August 2001      First Organizational Meeting
- September 2001      First FCIRCC Meeting
- September 2002      501 (C) (3) Status

# Council Directors

- 4 Grower Representatives –  
FL Citrus Production Managers
- 3 Processor Representatives –  
FL Citrus Processors Association

# Council Directors

- 2 Packing House Representatives – FL Citrus Packers
- 2 Harvesting Representatives – FL Citrus Commission Chairman & DOC Harvesting Council



# FCIRCC - Staff

**Dan Gunter, Coordinator**

**Jewel Letchworth, Assistant Secretary**

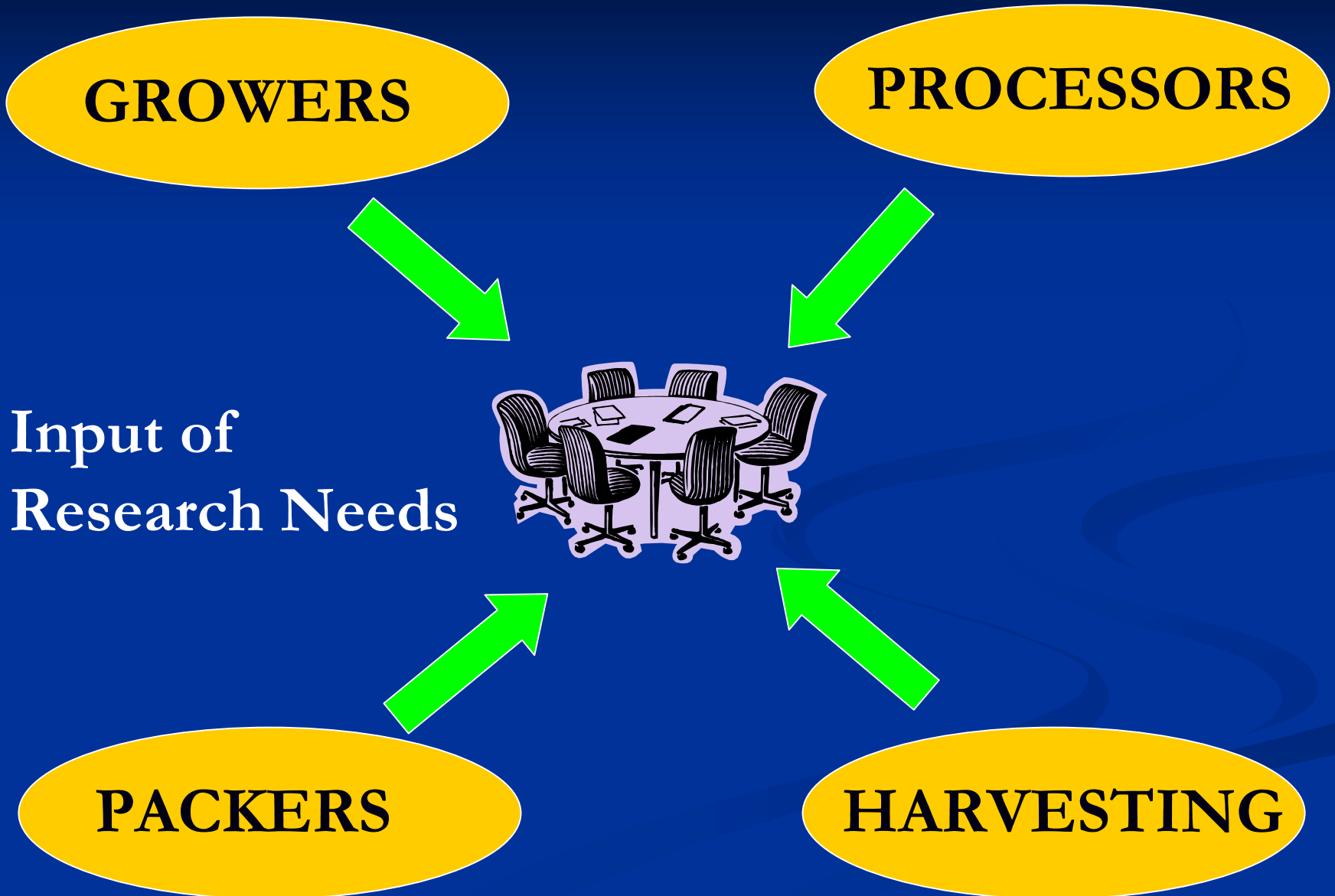
**Kevin Metheny, Assistant Treasurer**

# Mission Statement

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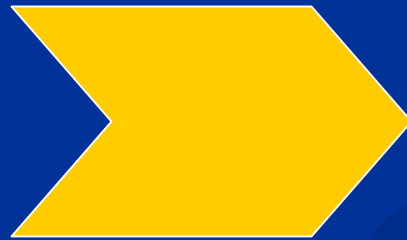
On an annual schedule, the Florida Citrus Industry Research Coordinating Council shall evaluate, prioritize and coordinate the Florida citrus industry's research and announce such findings so as to assure adequate funding for all of the citrus industry's research needs.

# PROCESS



# PROCESS

Consolidate



(Research Needs)

Rank:

High

Medium

Low

# Research - High Priorities

- Plant Improvement
- Genomics
- Diseases and Pests
- Identify New High Value By-Products from Citrus Processing Waste

# Research - High Priorities

- **Nutrient, Vitamin and Health Related Benefits of Citrus**
- **Innovative Technology to Improve Process and Lab Testing Methods**
- **Peel Disorders Including Pitting, Stem-End Breakdown & Greening**

# Research - High Priorities

- Fungicidal Options for the Future
- Fruit Variety and Support for Germplasm Introduction Program
- Abscission
- Fertilization and Irrigation
- Robotic Harvesting

# Research - Medium Priorities

- Precision Agriculture
- Tree Stress & Productivity
- New Commercially Viable Process Technologies
- Food Safety / Security
- Product Monitoring for Adulteration

# Research - Medium Priorities

- Identify Problems Underlying Development of Off-Flavors of Juices in Commercial Conditions
- Field Test to Determine Susceptibility of Fruit to Decay
- Caribfly Research

# Research - Medium Priorities

- Mechanical Harvesting
- Grove Architecture

# Research - Low Priorities

- **Extend the Season for Fresh Grapefruit**

# PROCESS

**USDA**

**UF - IFAS**

**FL DOC**



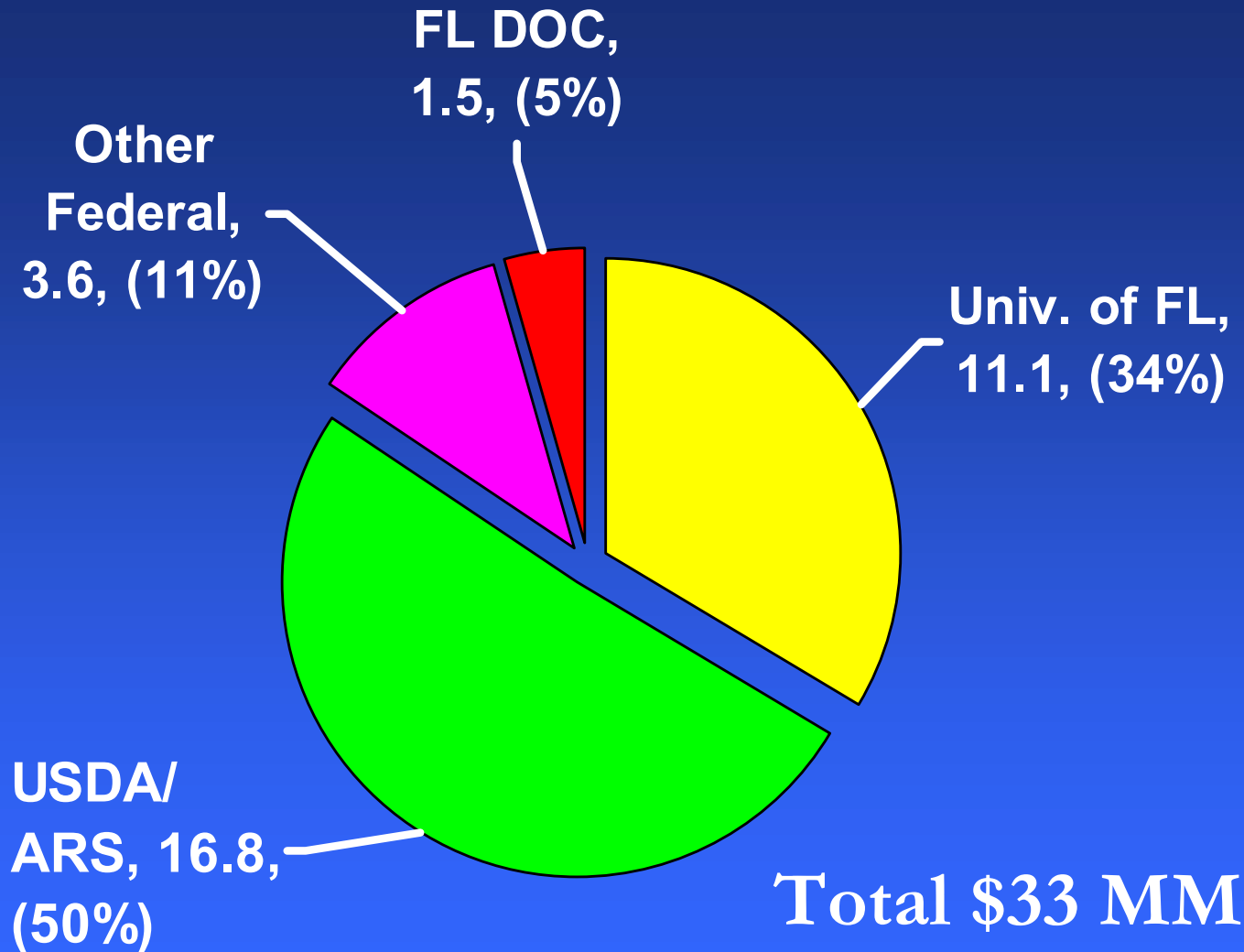
**Categorize  
Projects in CRIS  
System by  
Research Priority**

**Output:**

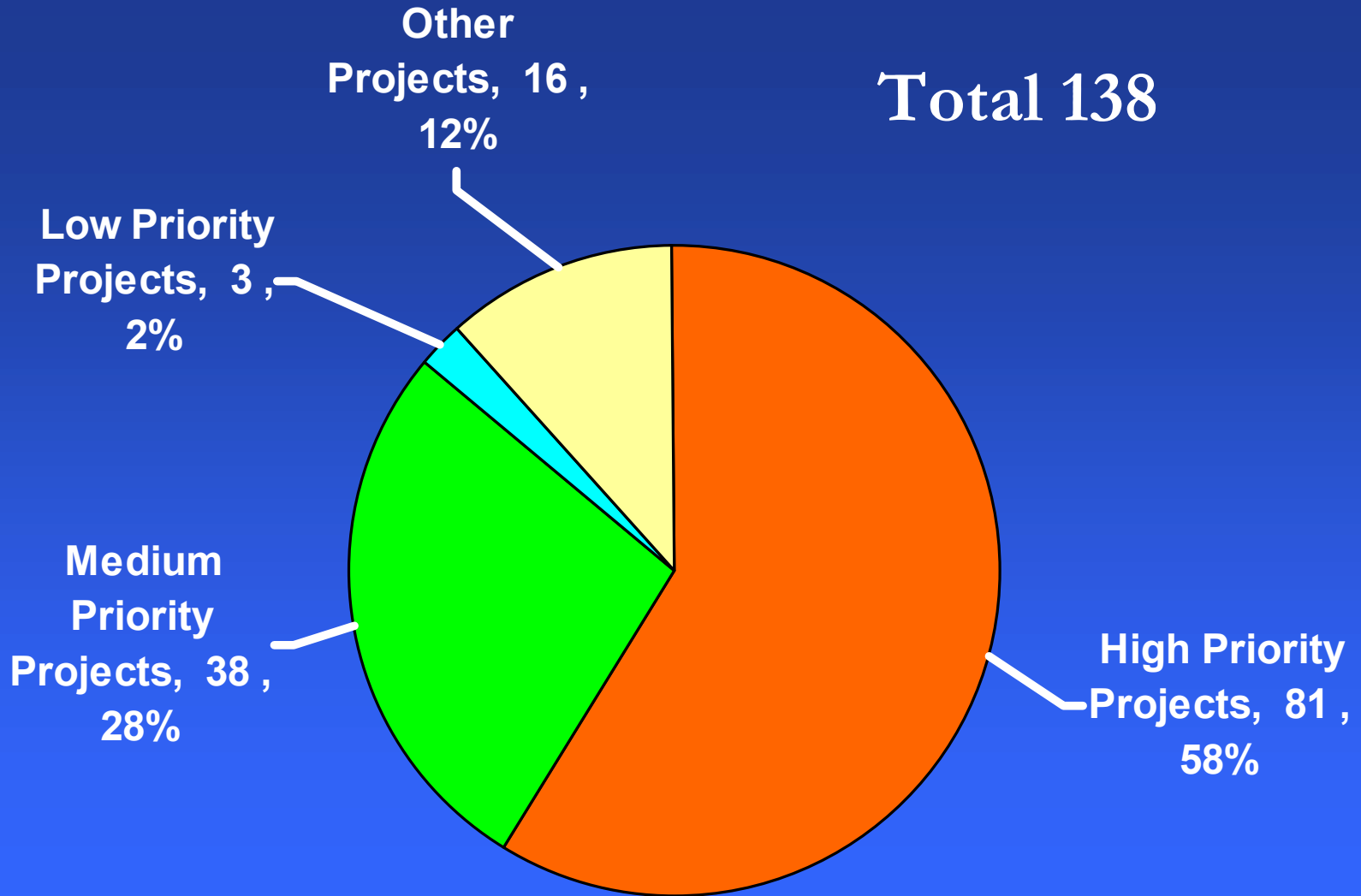
**Number of  
Projects**

**Scientist Years**

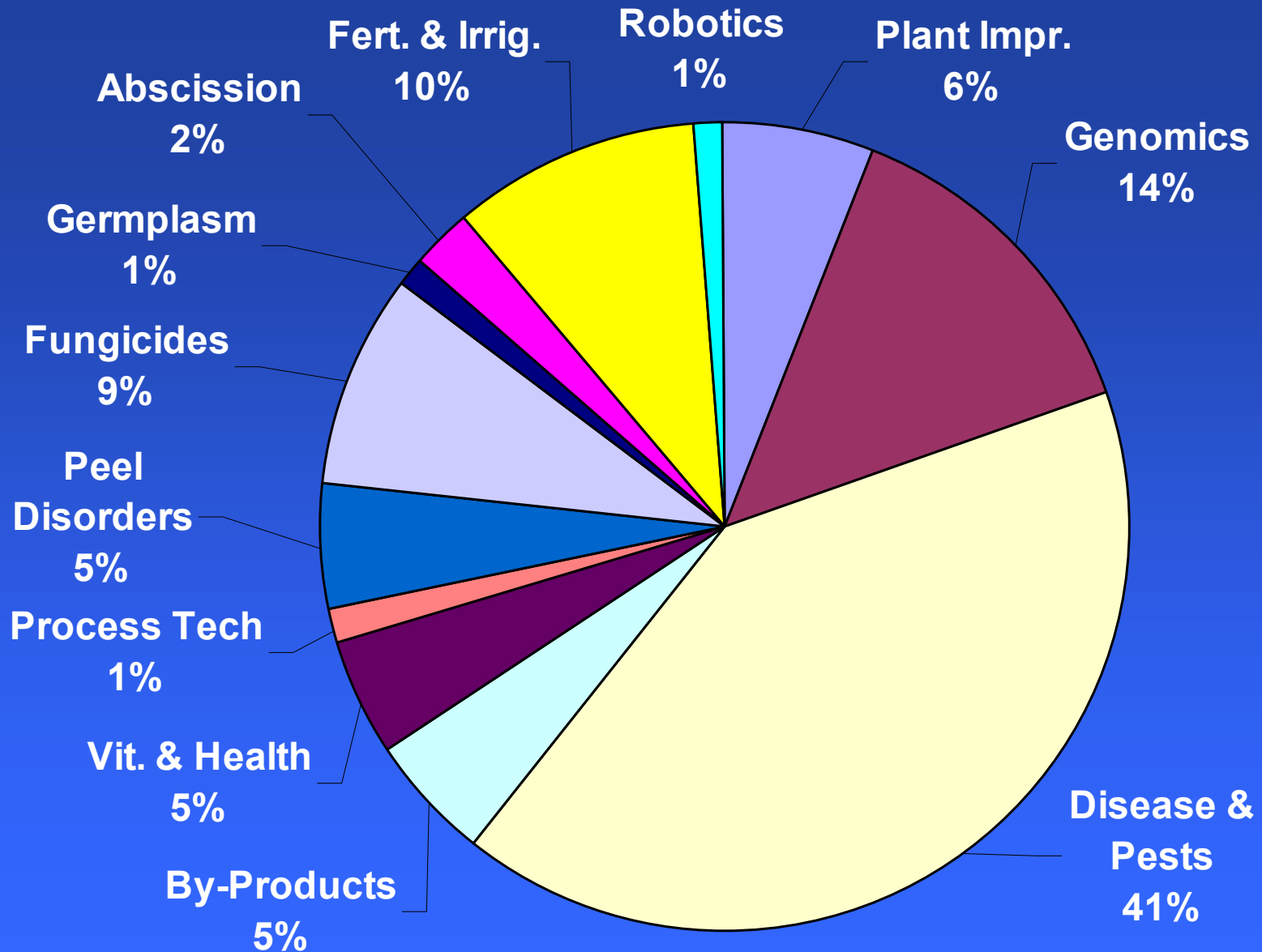
# Research Expenditures in MM - 2001



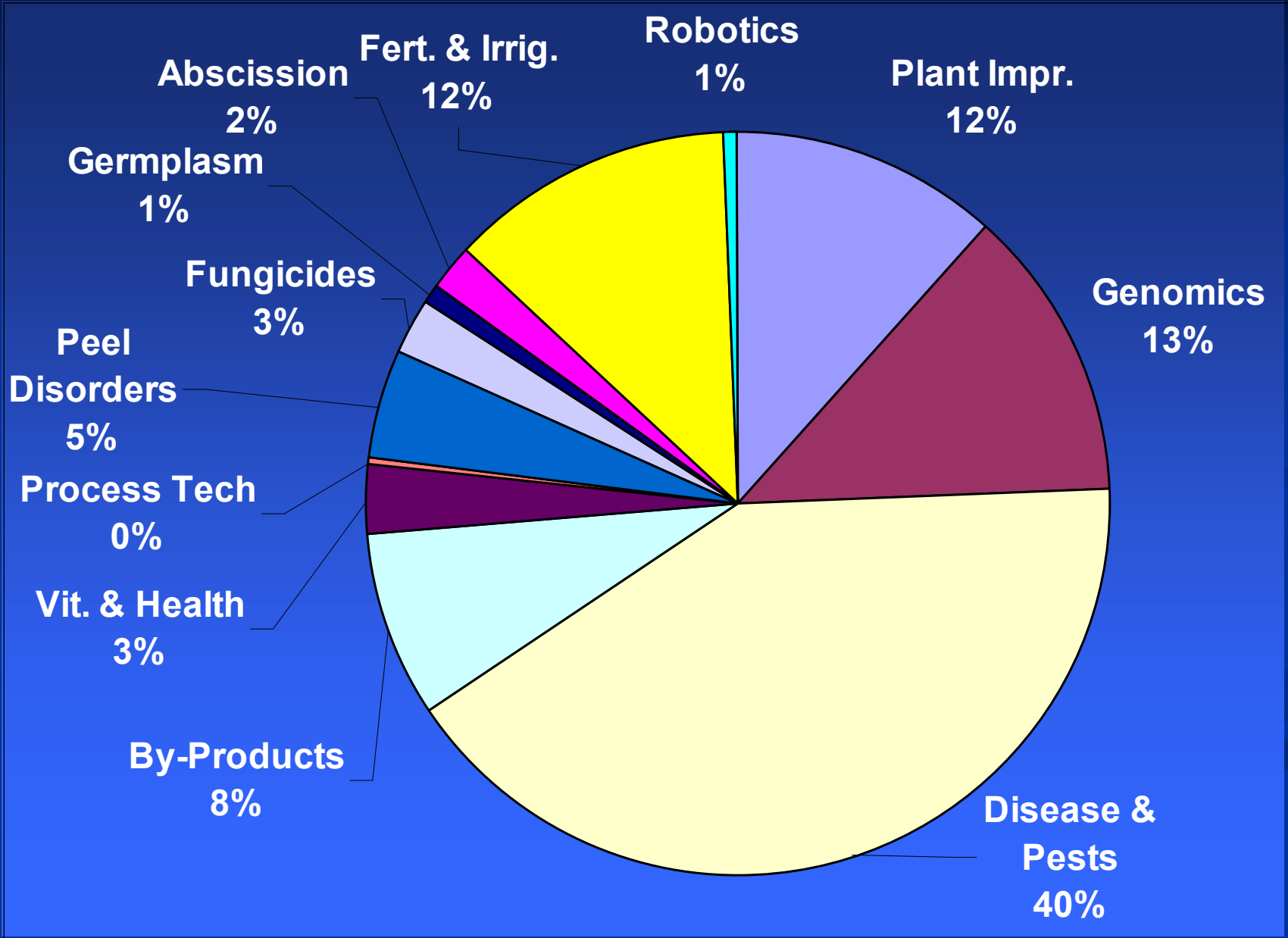
# Research Priorities – Number of Projects



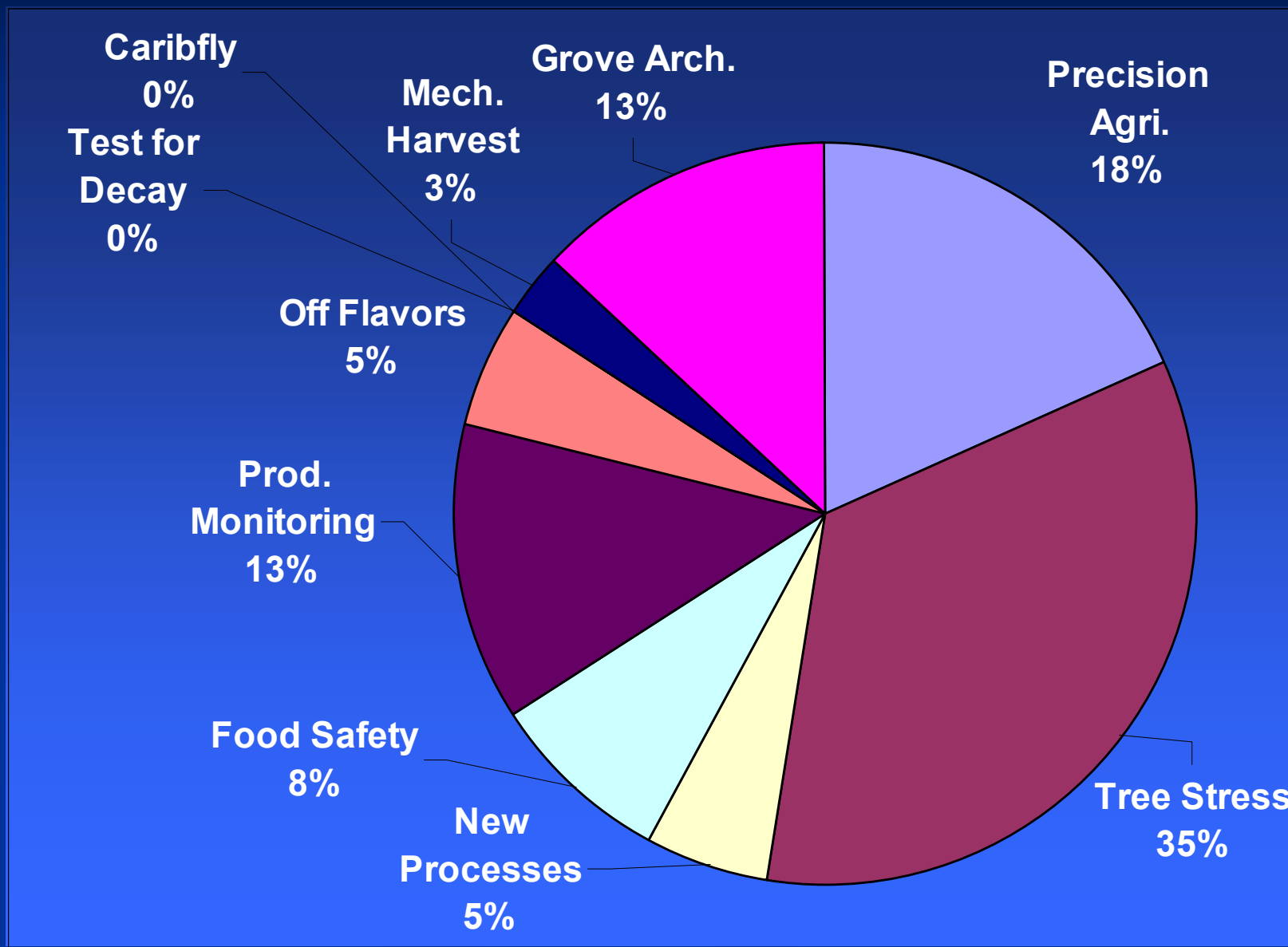
# High Priorities – Number of Projects



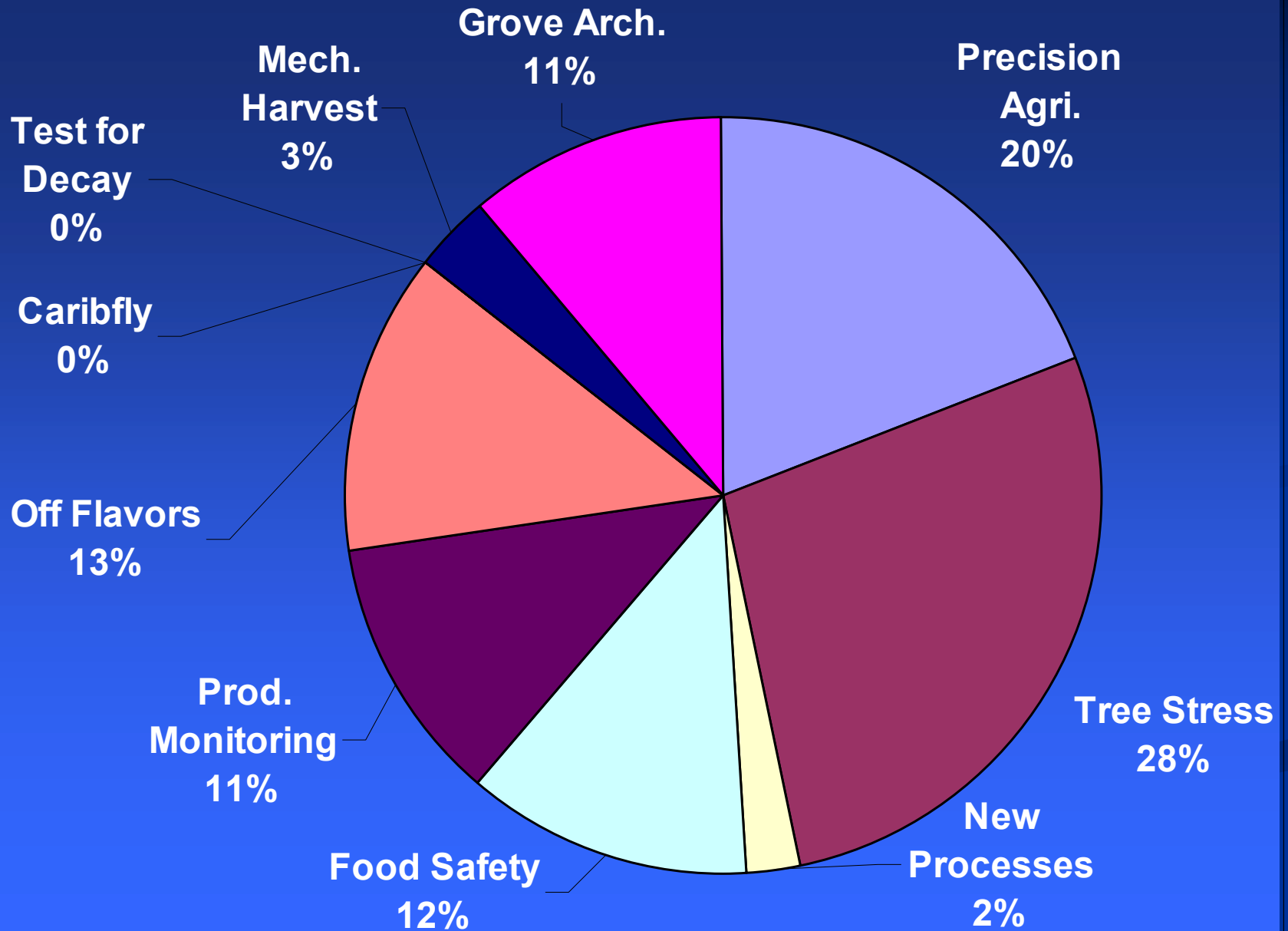
# High Priorities – Scientist Years



# Medium Priorities – Number of Projects



# Medium Priorities – Scientist Years



# PROCESS

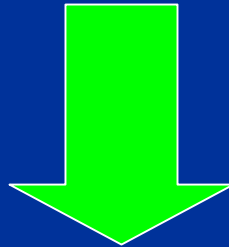


**FCIRCC**

&



**Research Agencies**



**Identify Gaps**

**Communicate  
Findings**

# GAPS & Recommendations

1. Genomics – a national initiative requiring significant funding.

Task Force to identify specifics:

- Objective
- Cost Estimate
- Timing
- Applications

# GAPS & Recommendations

**2. Plant Improvement –**  
stakeholders are working to  
improve:

- Communication
- Process / Pipeline
- Goal: Increase output and speed to field

# GAPS & Recommendations

3. Precision Agriculture – current research program needs staffing.
4. Processing Technology – requires the addition of engineering staff.

## Recommendation:

Hire Agricultural & Processing Engineers

# GAPS & Recommendations

5. Food Safety & Post-Production Priorities – a national concern for both processed and fresh fruit.

## Recommendation:

Request \$15 MM for construction of new multi-agency facility in Lake Alfred

# Research Council Findings

- Excellent cooperation from research organizations.
- The FCIRCC process has been fully embraced by the research organizations as they better understand the FCIRCC roll.
- Industry participation – very good

# Research Council Findings

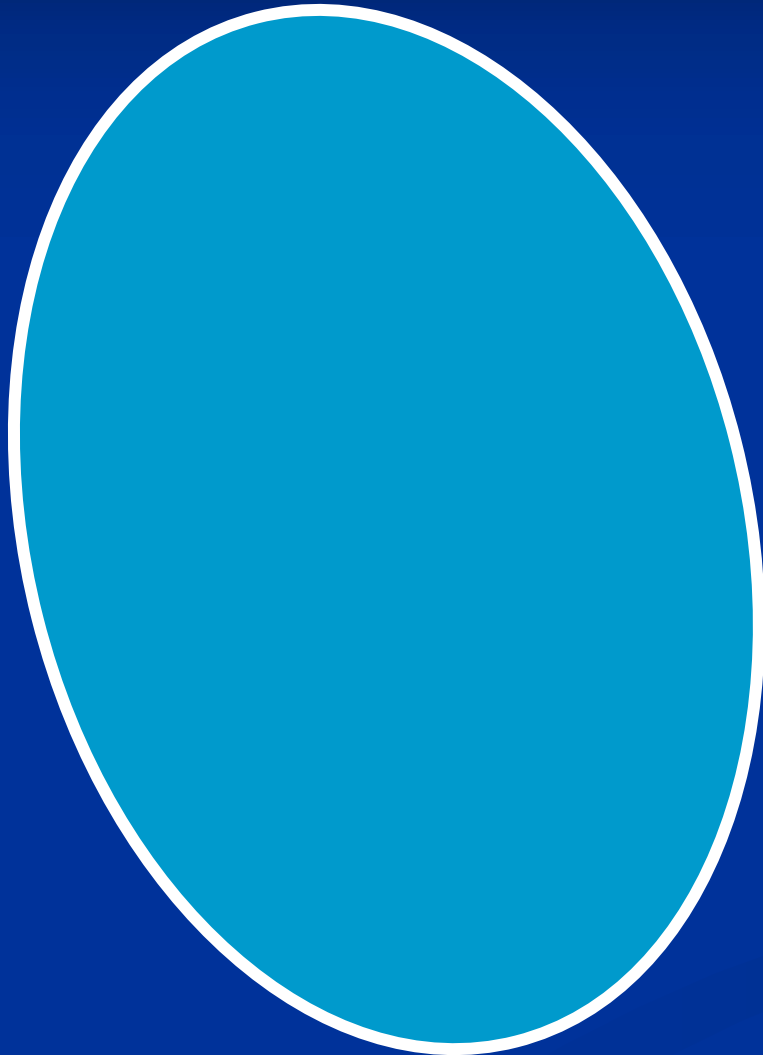
- Benefits of the FCIRCC will start to be realized.
- We know more about research activities and the gaps we have in the program than ever before and can now work to address the additional resource needs.

**Lakeland**

**Gainesville**

**Tallahassee**

**Washington**



# Acknowledgments

- Dr. Dan Gunter
- Dr. Joe Ahrens
- Dr. Calvin Arnold
- Dr. Elizabeth Baldwin
- Dr. Harold Browning
- Mr. Tom Sanders
- FCIRCC Members
- Ms. Jewel Letchworth