

# **Restructuring the Federal Governmental Research in Agriculture and Food in Germany**

Foulum, 19. September 2008

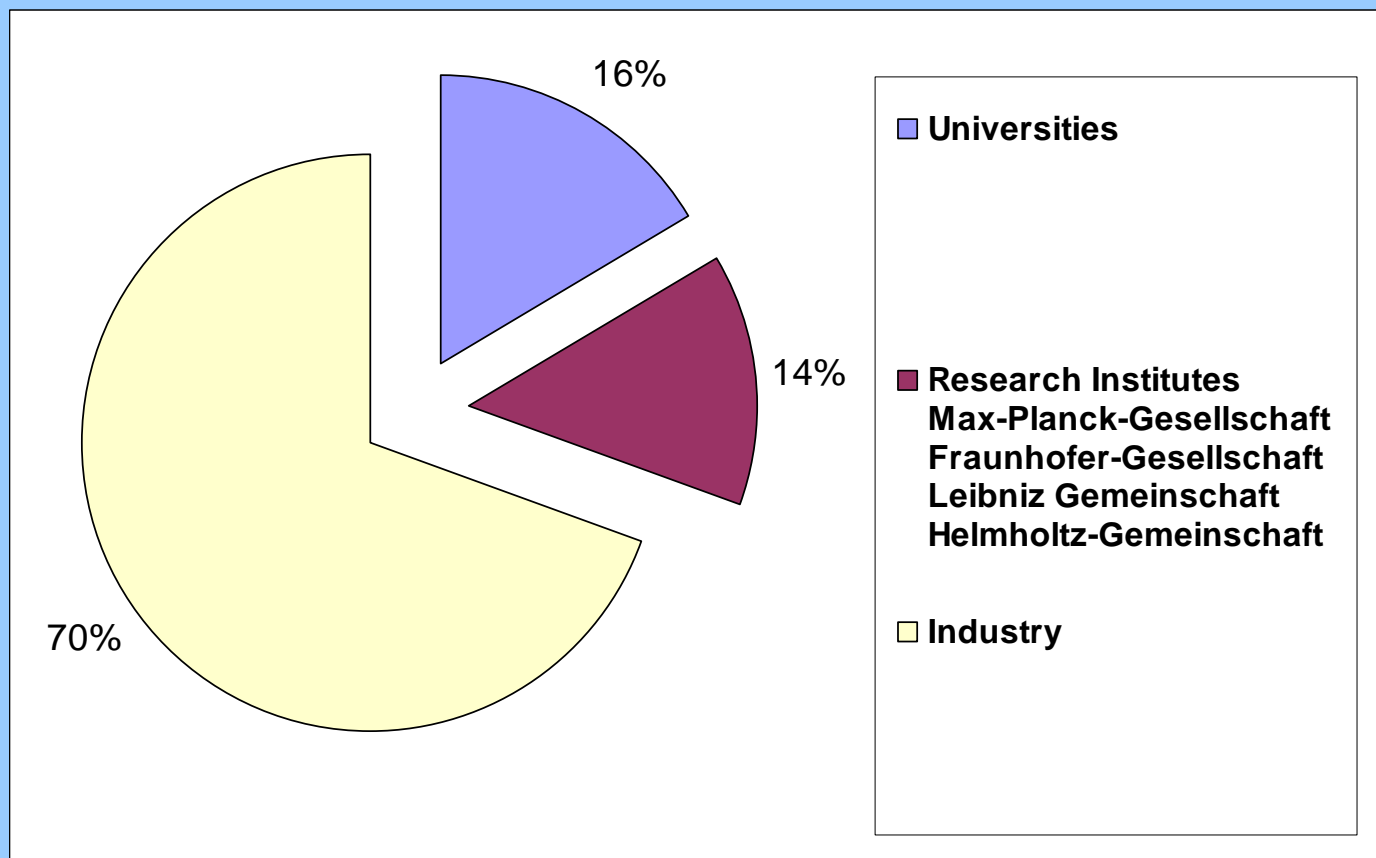
**Dr. Christian Patermann**

**Former Director Biotechnologies, Agriculture and Food**

**DG Research, European Commission**

# Research in Germany - I

R&D spending total: €55.7 bn  
> 300,000 employed in R&D

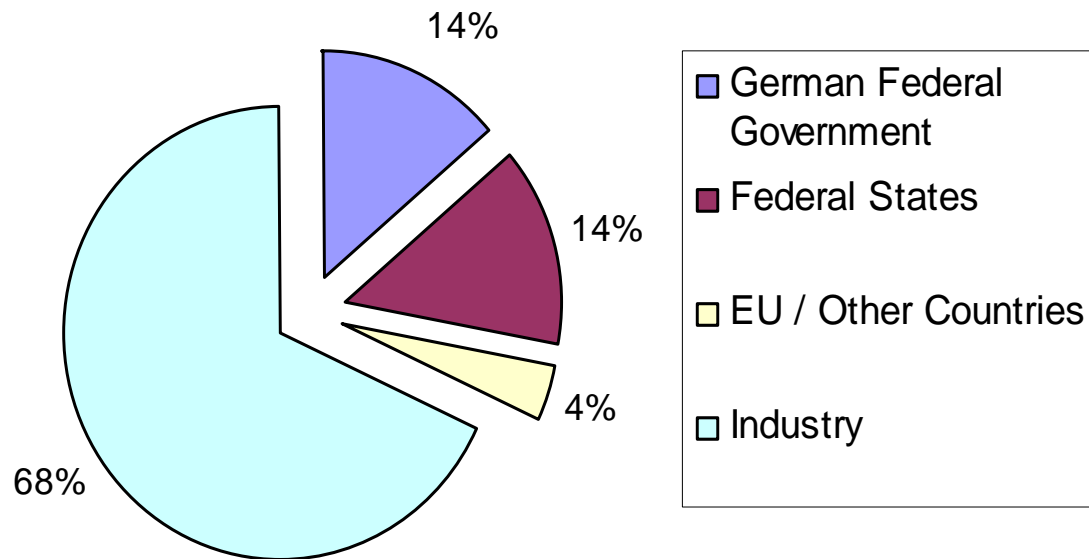


source: Helmholtz-Gemeinschaft



# Research in Germany - II

R&D spending total: €55.7 bn  
2.5 percent of GDP



source: Stifterverband Wissenschaftsstatistik, Statistisches Bundesamt und Berechnungen des BMBF (2006)

# Science, Research and Development in the Federal Ministry for Agriculture

(Budget 2008: Debit 418 Mio. €)

Research and Innovation : 94 Mio. €

Federal Governmental Research: 313 Mio. €

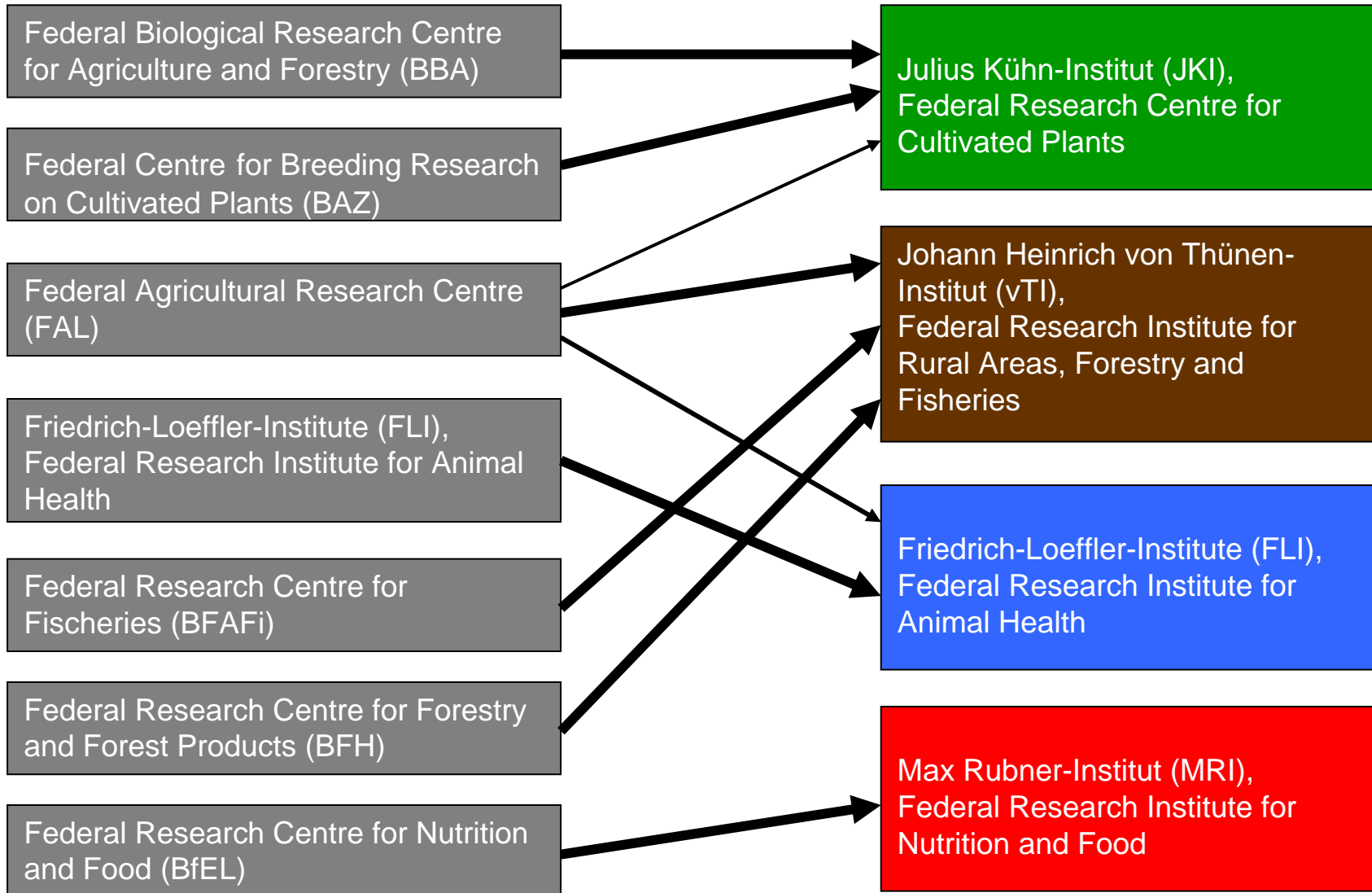


# Federal Governmental Research in Agriculture and Food

## Restructuring Aims

- Insurance and improvement of scientific excellence (Recommendation of the German Scientific Council)
- Adaptation to changing goals and political priority themes of the Federal Ministry of Food, Agriculture and Consumer Protection (BMELV)
- Reducing „red tape“ (more science, less administration) and use of efficiency potentials

# From 7 to 4



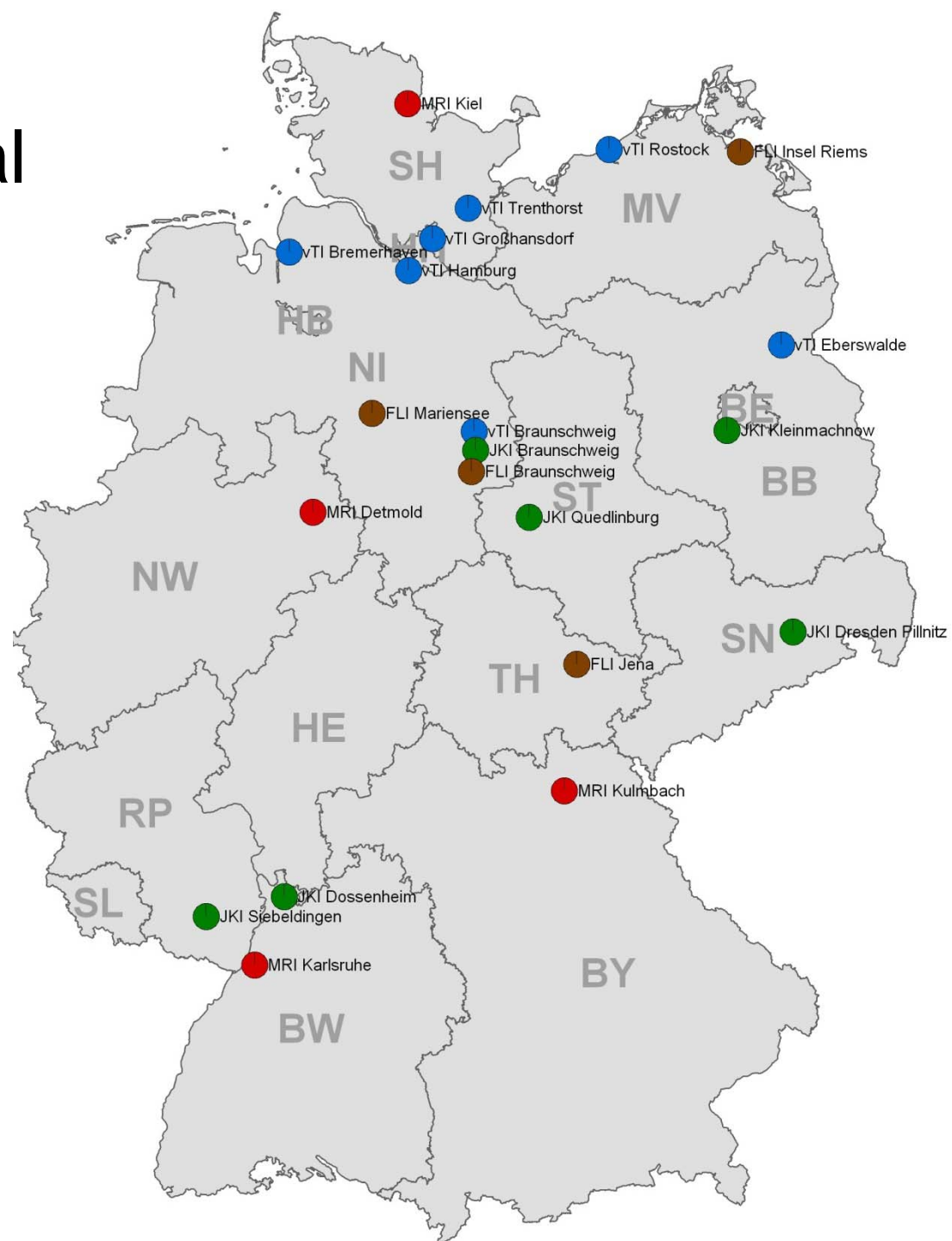
# Sites of the Federal Governmental Research Institutions

Johann Heinrich von Thünen-Institut (vTI),  
Federal Research Institute for Rural Areas, Forestry and Fisheries

Friedrich-Loeffler-Institute (FLI),  
Federal Research Institute for Animal Health

Julius Kühn-Institut (JKI),  
Federal Research Centre for Cultivated Plants

Max Rubner-Institut (MRI),  
Federal Research Institute for Nutrition and Food



# Julius Kühn-Institute - Federal Research Centre for Cultivated Plants

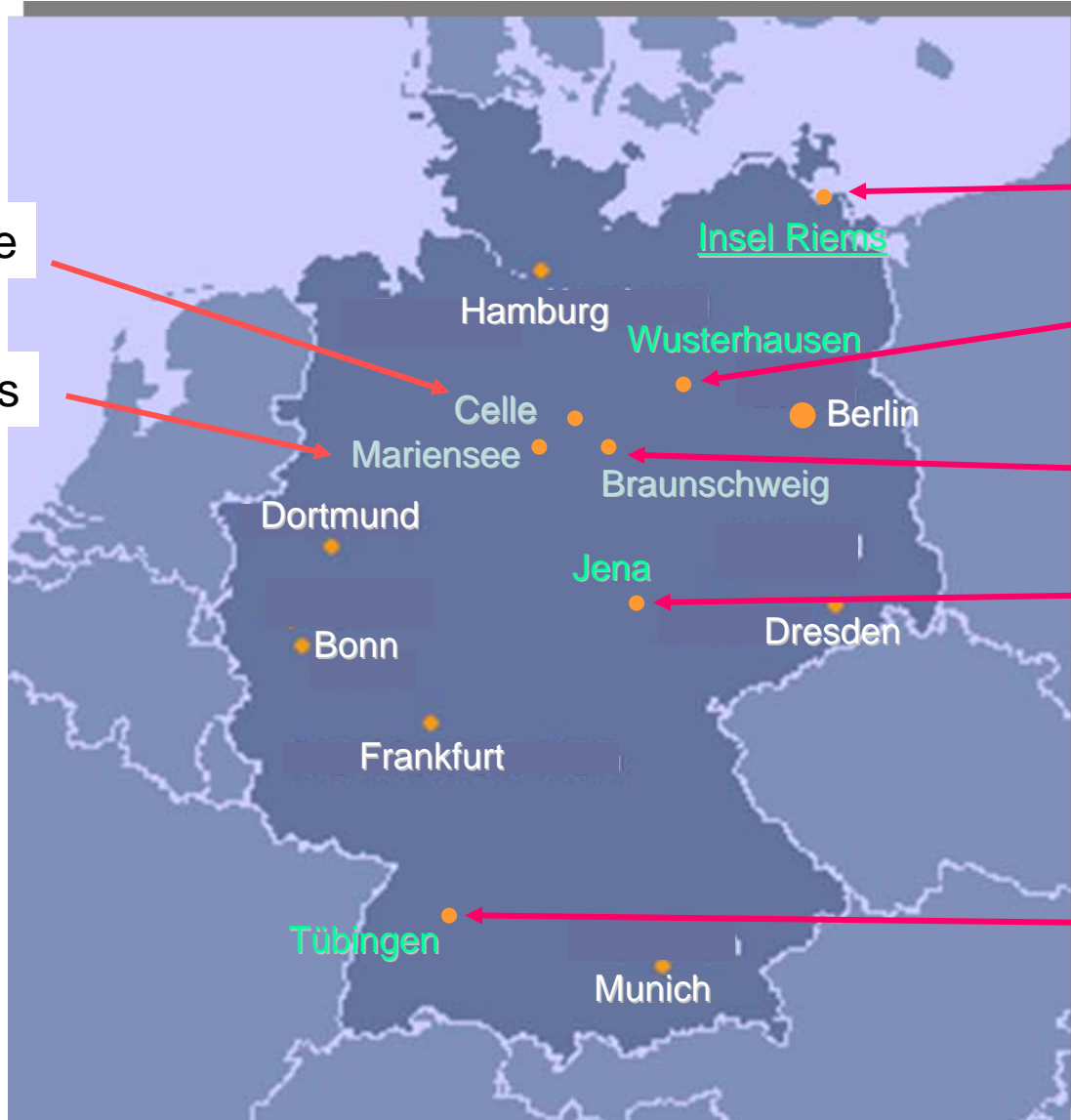
➔ The new name describes the new program, our major fields of research are:

- Plant Genetics, Breeding research
- Plant Nutrition, Agronomy and Soil Science
- Plant Protection and Plant Health





# Locations and Research Fields



Animal Welfare

Virology

Epidemiology/  
Parasitology

Animal Nutrition

Bacteriology

Immunology

Animal Genetics

Tübingen

Munich

Frankfurt

Bonn

Dortmund

Mariensee

Celle

Jena

Braunschweig

Dresden

Berlin

Hamburg

Wusterhausen

Insel Riems



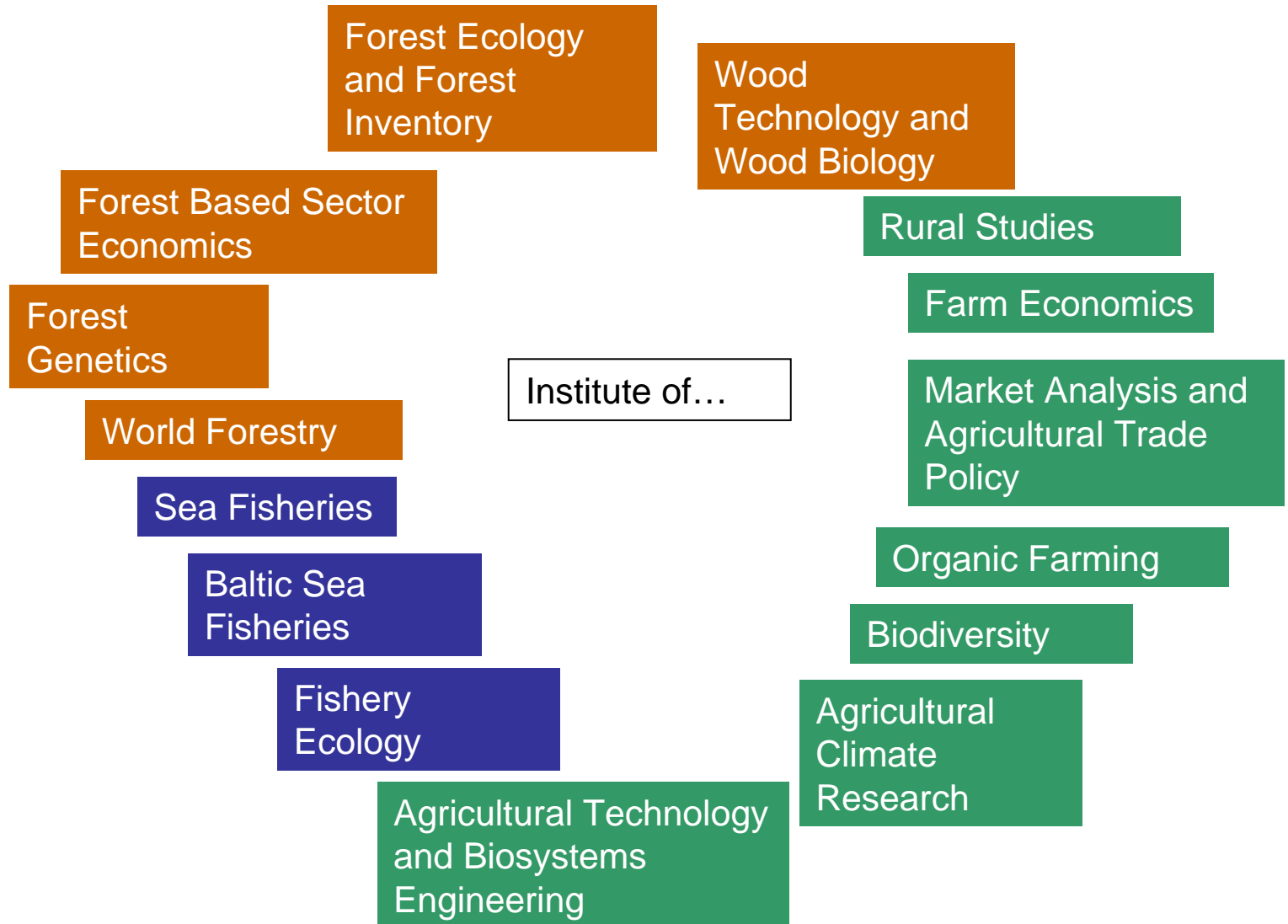
# Max Rubner-Institut



## Departments of

- |  |           |
|--|-----------|
| - Physiology and Biochemistry of Nutrition     | Karlsruhe |
| - Nutritional Behaviour                        | Karlsruhe |
| - Food and Bio Process Engineering             | Karlsruhe |
| - Microbiology and Biotechnology               | Kiel      |
| - Safety and Quality of Milk and Fish Products | Kiel      |
| - Safety and Quality of Fruit and Vegetables   | Karlsruhe |
| - Safety and Quality of Meat                   | Kulmbach  |
| - Safety and Quality of Cereals                | Detmold   |

# Institutes of the von Thünen Institut



**Selected Example of  
Restructuring Agriculture and Food  
Research in a German University:**

**University of Bonn**

# Structural Discussions within the Agricultural Faculty of the University of Bonn

1. Bologna-Process

2. Voluntary Evaluation through German Research Foundation (DFG / 2003)

3. Nation-wide Assessment of all Agricultural Faculties in Germany through the German Scientific Council (Nov. 2006)

4. Agreement on scientific goals between Bonn University and the Government of the Federal State North-Rhine-Westfalia (Jan. 2007)

## Old structured Institutes

Dean

Agricultural Botany  
 Agricultural Zoology and Bee Science  
 Agronomy  
 Horticulture  
 Plant Diseases  
 Plant Nutrition  
 Soil Science

Organic Agriculture

Agricultural Policy, Market Research and  
 Economic Sociology  
 Farm Management

Catography and Geoinformation  
 Geodesy  
 Photogrammetry  
 Theoretical Geodesy  
 Urban Planning, Land Management and Water Engineering

Agricultural Engineering

Animal Nutrition  
 Animal Science  
 Physiology, Biochemistry and Animal Hygiene

Food Science and Food Chemistry  
 Food Technology  
 Nutrition Science

## New structured Institutes plus Core-professorships

Dean

Vice Dean

Budgeting  
and  
Finance

Vice Dean

Research  
and  
Junior Scientists

Vice Dean

Teaching  
and  
Studies

Organic  
Agriculture  
(IOL)

Crop Science  
and Resource  
Conservation  
(INRES)

01.10.2005

Food and  
Resource  
Economics  
(ILR)

01.04.2006

25 Core Professorships  
for continued  
teaching and research  
20.01.2007

Nutrition and  
Food Science  
(IEL)

01.12.2004

Geodesy and  
Geoinformation  
(IGG)

01.10.2006

Animal  
Science  
(ITW)

01.04.2005

Agricultural  
Technology  
(ILT)

Date = Foundation

# Core Research Activities

## Commitment

**Food-Feed-Energy (FFE): Resources for Life**

### Main Focus

**A**gro  
**S**ystems  
**S**ensing  
**A**nalysis &  
**M**anagement

### Profile Areas

**From**  
**M**olecules to  
**F**unction

Crop & Livestock &  
Human

### Main Focus

**F**ood  
**N**utrition

# New Study Programs

Graduate School of the Faculty

Master (MSc)

Bachelor (BSc)

# New Study programs

## Bachelor (BSc)

- Agriculture
- Nutrition and Food Science
- Geodesy and GeoInformation

## „Staatsexamen“

- Food Chemistry

## Master (MSc)

- Agriculture
- Nutrition and Food Science
- Geodesy and GeoInformation
- Food and Resource Economics
- Agricultural Science and Resource Management in the Tropics and Subtropics

## Graduate School of the Faculty

- interdisciplinary topics of all areas of expertise within the Faculty for the best researchers under the title:  
„GLOBAL CHANGE“