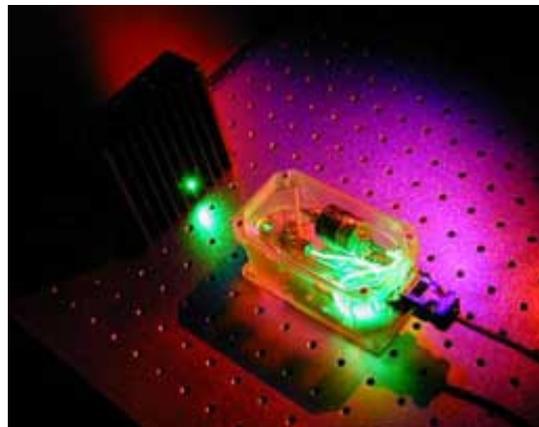


---

*optonet*

## Competence Network for Optical Technology

Optics Region Jena – The German Optics Valley



# Jena – the cradle of modern optics



**OptoNet ~  
Competence Network  
for Optical Technology**

- » **Region**
- » **Industry**
- » **Research**
- » **Education**
- » **OptoNet**



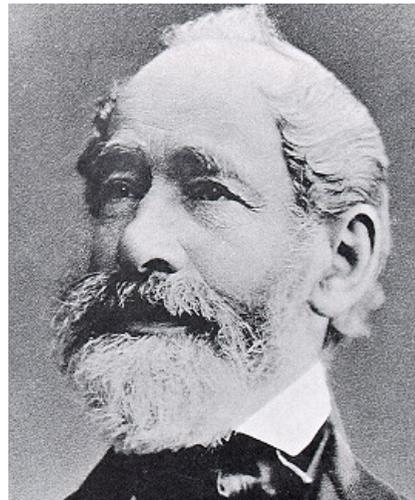
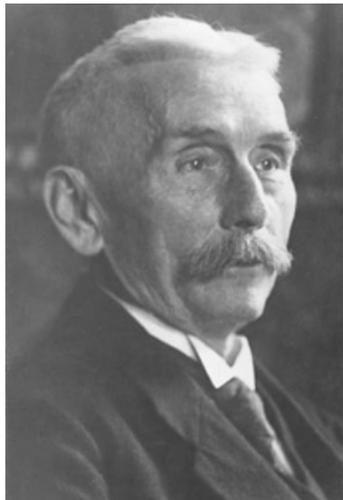
# Jena – the cradle of modern optics



- » Ernst Abbe
- » Otto Schott
- » Carl Zeiss

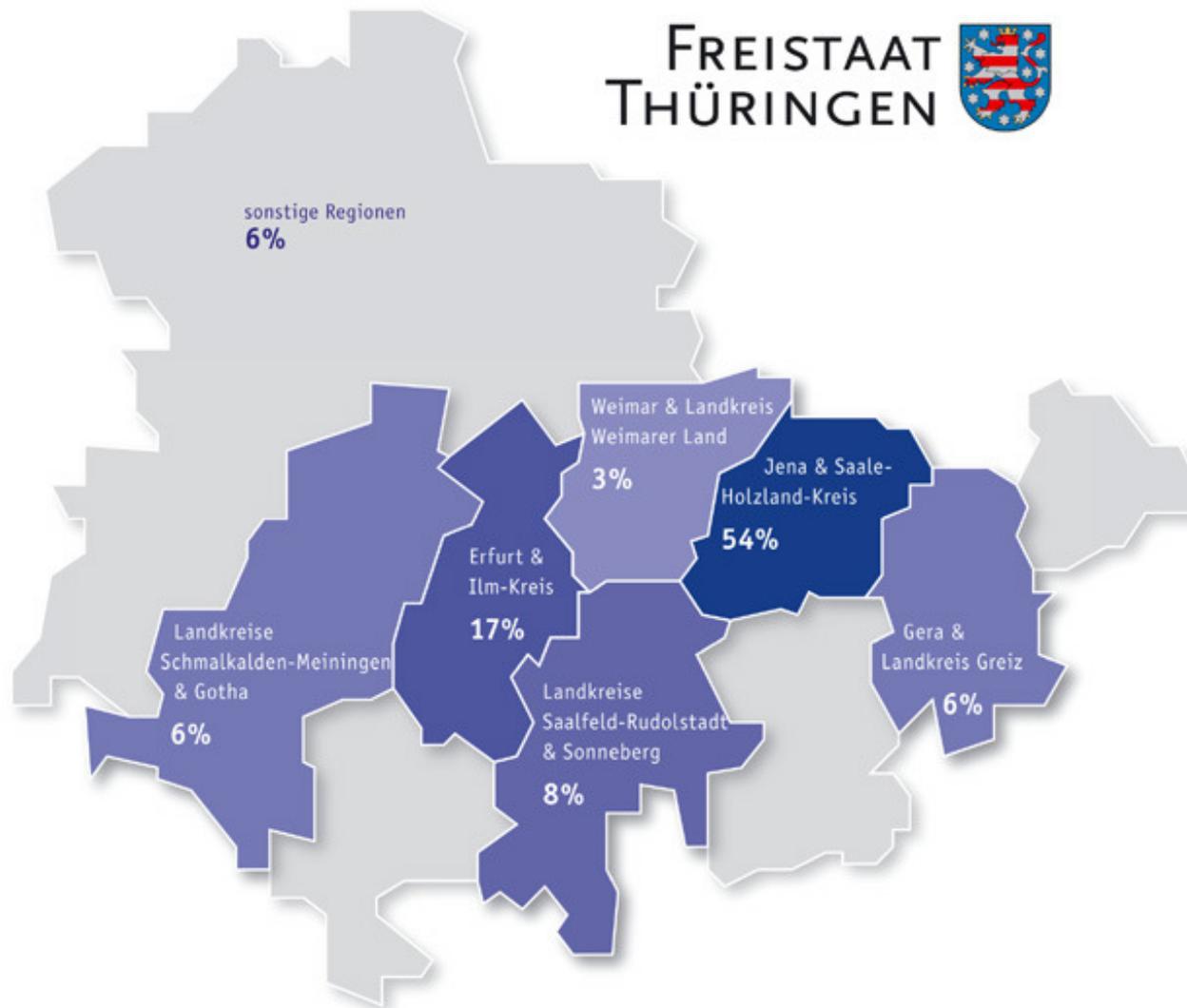
**OptoNet ~  
Competence Network  
for Optical Technology**

- » **Region**
- » Industry
- » Research
- » Education
- » OptoNet



# Region

## Jena Erfurt Ilmenau Gera



**OptoNet ~  
Competence Network  
for Optical Technology**

- » **Region**
- » Industry
- » Research
- » Education
- » OptoNet



# Industry

## Key figures

- » companies: 160
- » turnover: 2.05 bn Euro
- » export rate: 60%
- » employees (industry): 11.700
- » employees (research): 800
- » Sales forecast 2010: +10% p.a

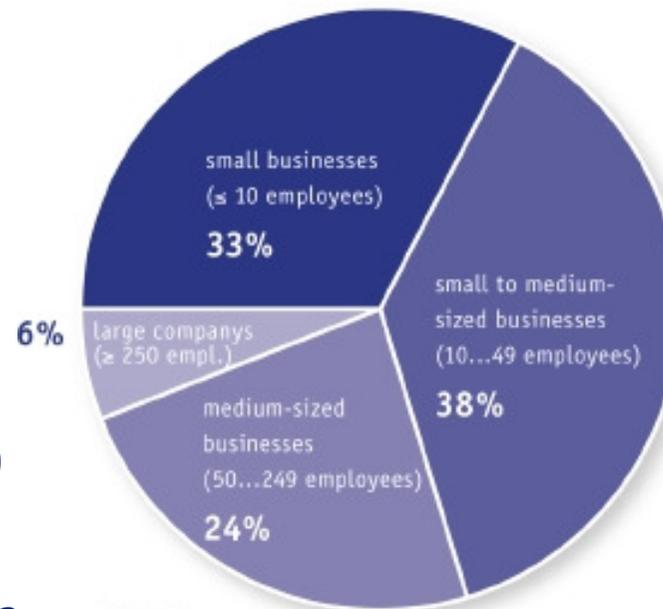


Figure 2  
Distribution by company size

### OptoNet ~ Competence Network for Optical Technology

- » Region
- » **Industry**
- » Research
- » Education
- » OptoNet



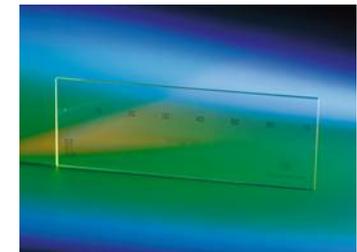
# Industry

## Addressed markets

- » information and communication technology
- » health care and biotechnology
- » automotive and mechanical engineering
- » environmental and energy technology
- » Aerospace industry

**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » **Industry**
- » Research
- » Education
- » OptoNet



# Research

## Member competencies

- » fundamental research
- » optical systems design
- » optical surfaces and layers
- » information technology and measurement techniques
- » biophotonics

**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » Industry
- » **Research**
- » Education
- » OptoNet



# Education

## » Fields of study

- » Physics/Technical Physics
- » Laser- / Optotechnologies
- » Optronics
- » Engineering
- » Materials science

## » Universities

- » Friedrich Schiller University
- » University of Applied Sciences
- » Technical University Ilmenau

## » Vocational training

- » Schott-Zeiss-Bildungszentrum
- » Vocational University  
Thuringia



## OptoNet ~ Competence Network for Optical Technology

- » Region
- » Industry
- » Research
- » **Education**
- » OptoNet



- » founded in 1999 within the framework of the German government program "Optical Technologies for the 21<sup>st</sup> century"
- » currently **84** members
  - » **68** companies
  - » **6** research establishments
  - » **4** universities & other educational institutions
  - » **5** banks & venture capital
  - » **1** technology transfer agency

**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » Industry
- » Research
- » Education
- » **OptoNet**



# OptoNet

## Network activities



- » information and communication platform
- » initialization and coordination of R&D activities
- » organization of workshops and expert colloquia
- » training and further education
- » National and international cooperation
- » marketing and public relations

**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » Industry
- » Research
- » Education
- » **OptoNet**



# OptoNet

## Training and further education



- » Optical industry needs experts, currently 41% employees with academic degree, 46% skilled workers
- > ongoing campaign „Greif nach den Sternen“ (reach for the stars) to bring young people home to the optical technologies

**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » Industry
- » Research
- » Education
- » **OptoNet**

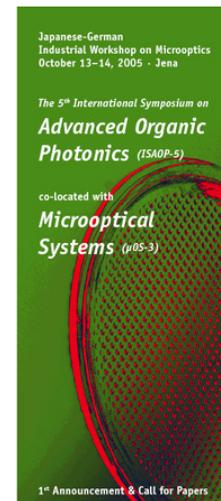
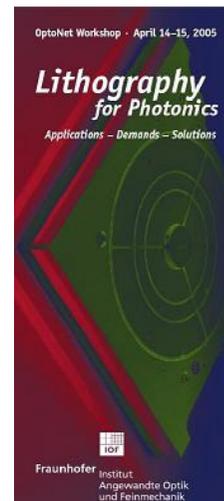


## Initialization and coordination of R&D activities

» many small companies do not have in-house research facilities

-> network promotes the coordination and initialization of research activities by

- **workshops** of different topics
- **working groups** in the fields of  
microoptics  
optoelectronics  
optical surfaces  
laser materials processing  
machine vision  
optics design

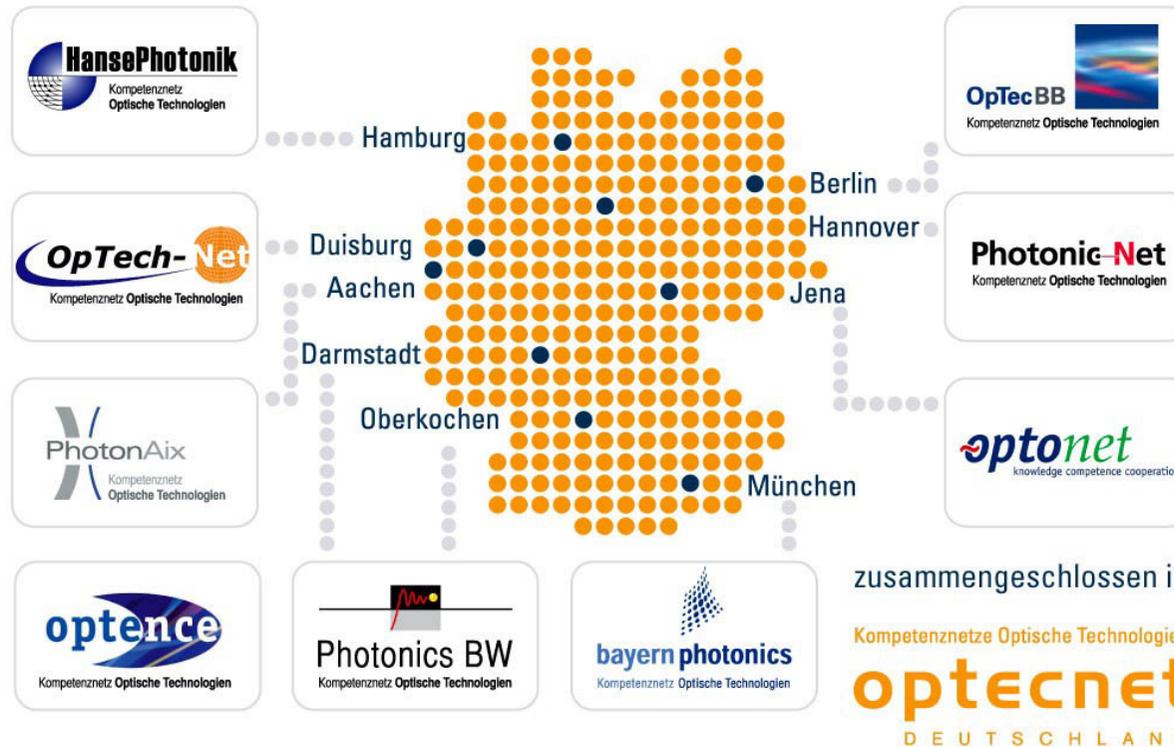


**OptoNet ~  
Competence Network  
for Optical Technology**

- » Region
- » Industry
- » Research
- » Education
- » **OptoNet**



### Kompetenznetze Optische Technologien



OptoNet ~  
 Competence Network  
 for Optical Technology

- » Region
- » Industry
- » Research
- » Education
- » **OptoNet**



# Contact



Dr. Klaus Schindler (CEO)  
Abbe-Zentrum Beutenberg  
07743 Jena  
T +49 (0) 3641 / 65 83 40  
F +49 (0) 3641 / 65 83 43  
info@optonet-jena.de

Nora Kirsten, M.A.  
Marketing &  
Communications

## » Support

