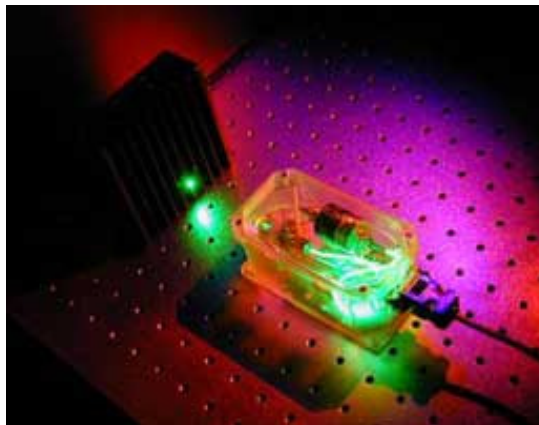




Competence Network for Optical Technology

Optics Region Jena – The German Optics Valley



Jena – the cradle of modern optics



**OptoNet ~
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for Optical Technology**

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



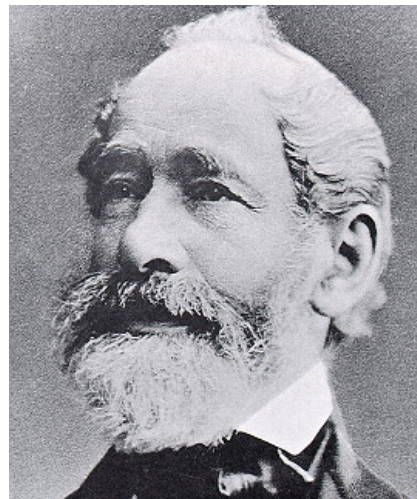
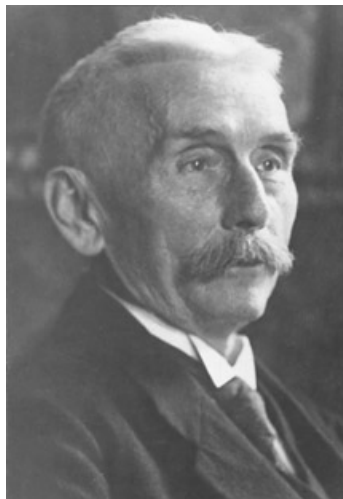
Jena – the cradle of modern optics



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

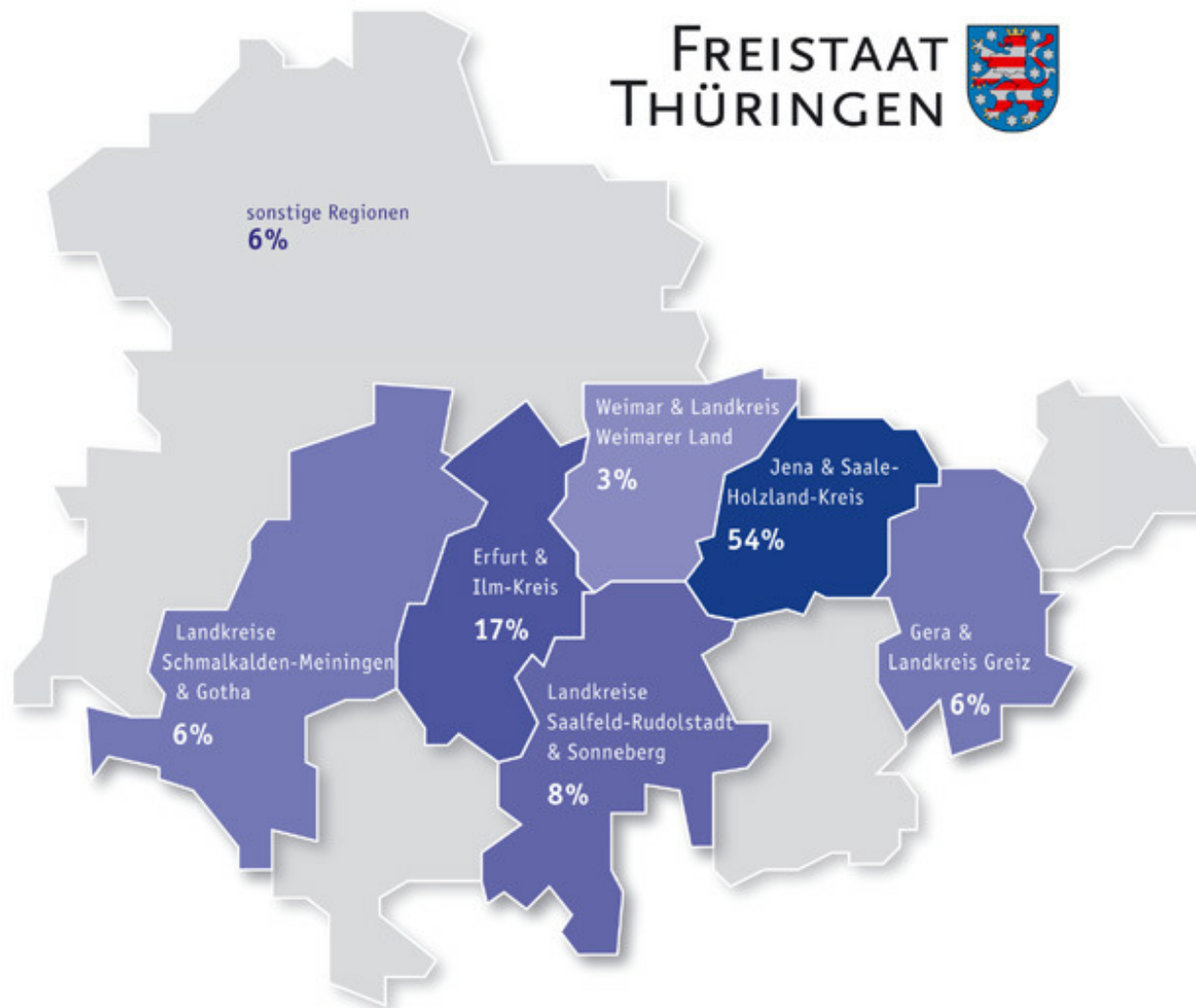
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Region

Jena Erfurt Ilmenau Gera



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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

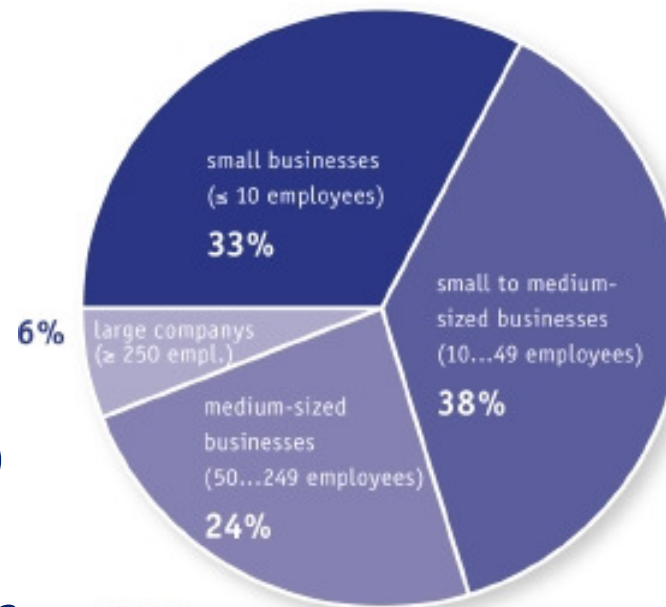


Figure 2
Distribution by company size

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Industry

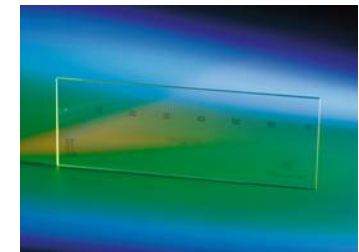
Addressed markets



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

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Research

Member competencies

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

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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



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

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- » 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

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- » 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

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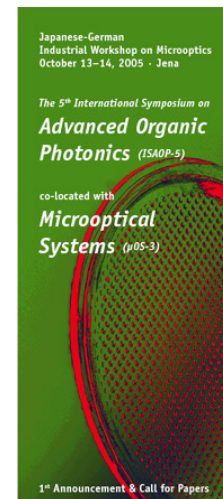


Initialization and coordination of R&D activities

» 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

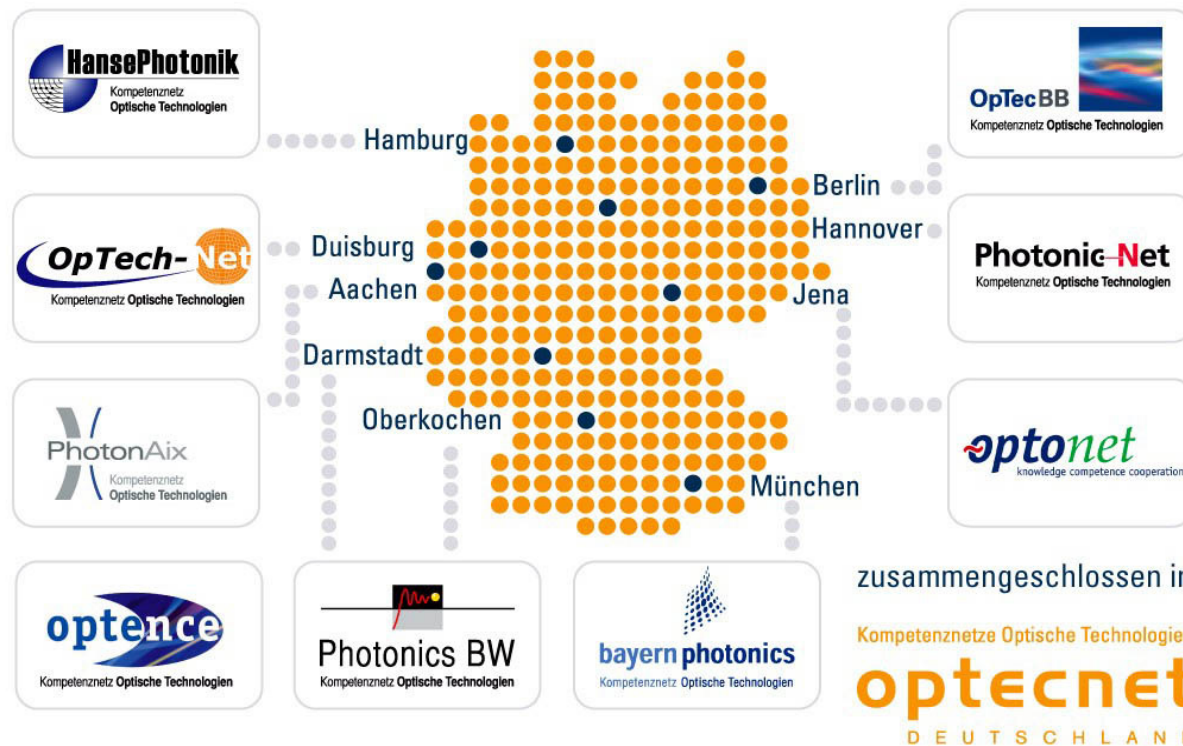


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Kompetenznetze Optische Technologien



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