

Dialogue Forum Optics



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Berlin – Brandenburg one industrial area in optics and photonics

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Berlin-Brandenburg- an industry region between tradition and modernity



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Milestones:

- 1801: Duncker's patent on multiple polishing machine > Optische Industrieanstalt Rathenow
- 1896: 163 optics companies in Rathenow
- Late 19th century: First industrial production of optics (Goerz; later Zeiss) and lighting products (Osram) in Berlin
- 1939: 2.244 companies and 27.248 employees in and around Berlin



J. H. A. Duncker



Old ROW Building

- After WW II 80 % of the industry were either destroyed or dismantled
- West Berlin: special competencies in optical data transmission & laser technology
- East Berlin / Rathenow: Expropriation of companies & centralisation of optical science in Berlin- Adlershof



Centre for Photonics and Optical Technologies;
WISTA MANAGEMENT GmbH, Berlin-Adlershof

* sources KOR & TSB Adlershof

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New companies in optics & photonics after the unification

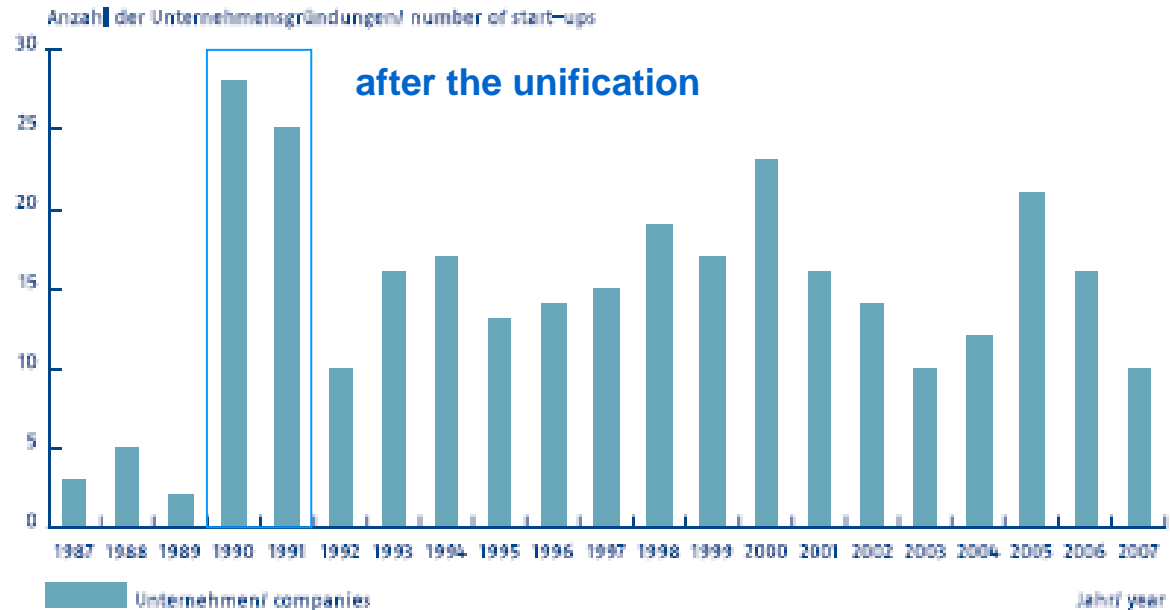


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Science and Technology Park Berlin-Adlershof; WISTA MANAGEMENT GmbH

- **After 1989: numerous start-ups by formerly state-employed specialists mainly in the newly created science and technology park Berlin-Adlershof**
- **Maintenance of scientific potential in „Academy of Sciences“ - successors in Adlershof**



Source: TSB Adlershof 2008; Commercial Register

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At a glance: Optical industry in Berlin-Brandenburg



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400 companies; 280 of them active in optics & photonics
82% SMEs with less than 250 employees
(26 research institutes, 5 universities)



Characteristics of the optical industry: fragmented, mainly SMEs, regional located, often with a small budget for own research and development, but globally active

*source TSB Adlershof



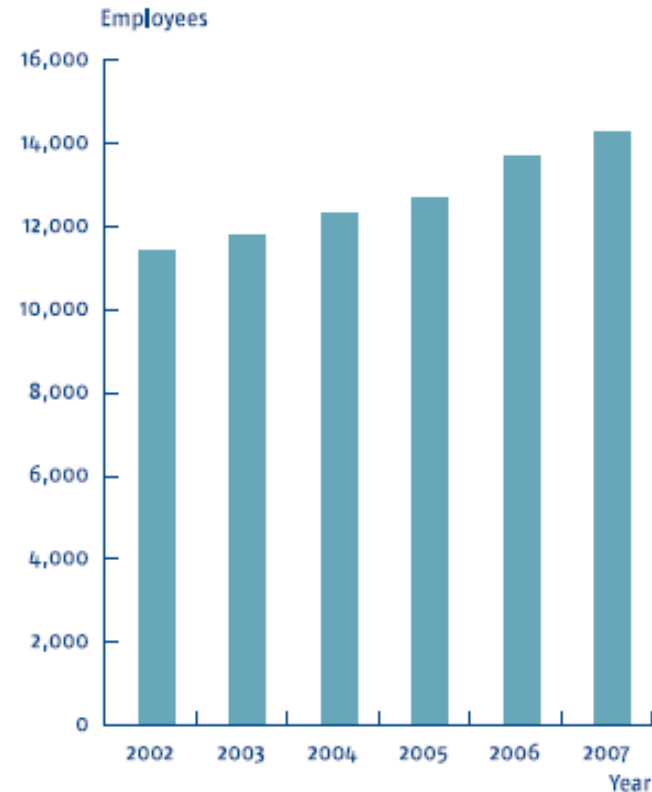
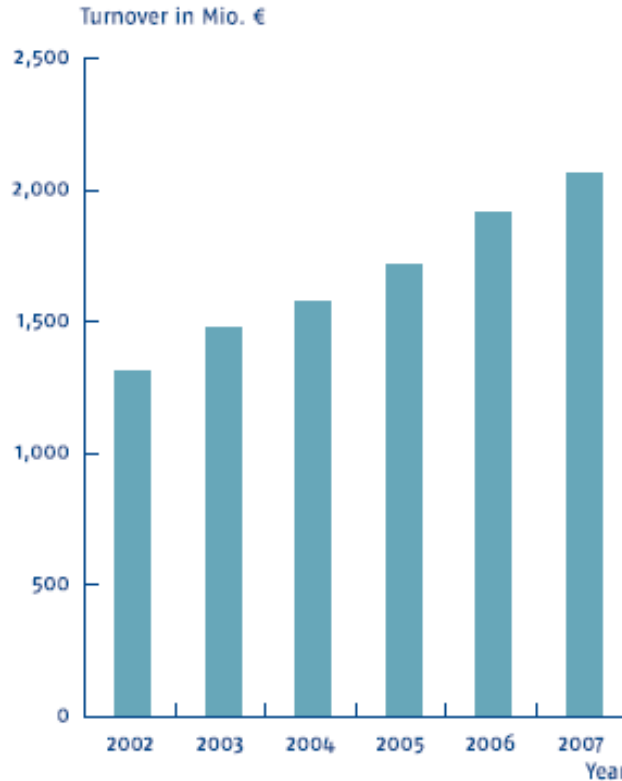


Turnover & Employment Statistics



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Companies from Berlin-Brandenburg in the optical industry and the closely related microsystems technology



Source: TSB Adlershof 2009; MARKUS - Database

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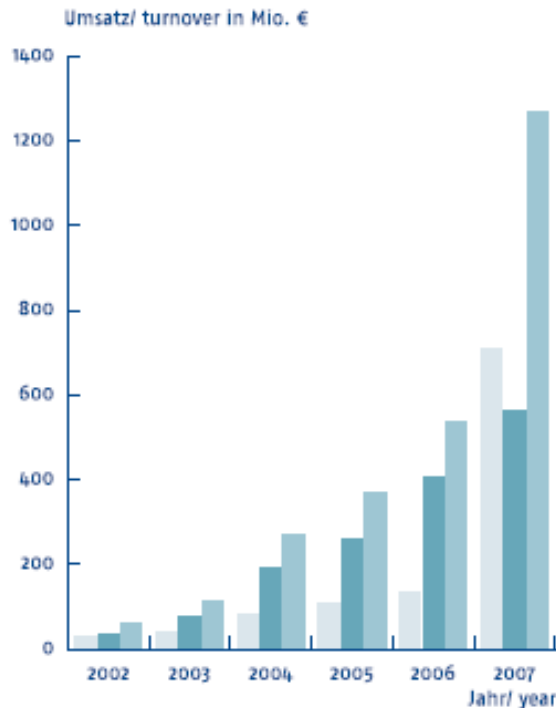


Berlin-Brandenburg: the new German center of photovoltaics

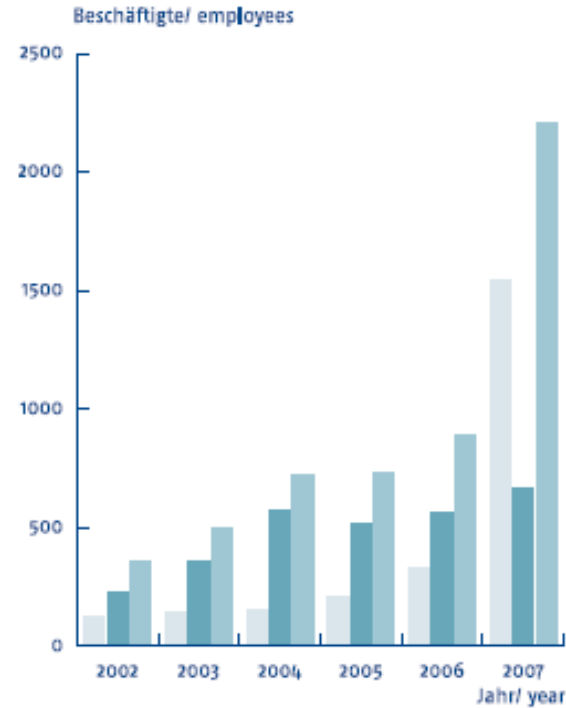


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Companies from Berlin-Brandenburg in the growing photovoltaic industry – new applications for optical analytics and material processing by laser



Brandenburg
 Berlin
 Berlin-Brandenburg



Brandenburg
 Berlin
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Products from Berlin- Brandenburg



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Eyeglasses



Lighting



Optical instruments



Precision Optics

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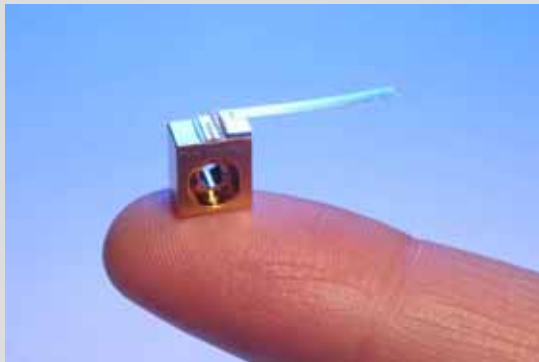




Products from Berlin- Brandenburg



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High Power Laser Diodes



Laser & Spectrometer



**Scientific Instruments
and Analytics**

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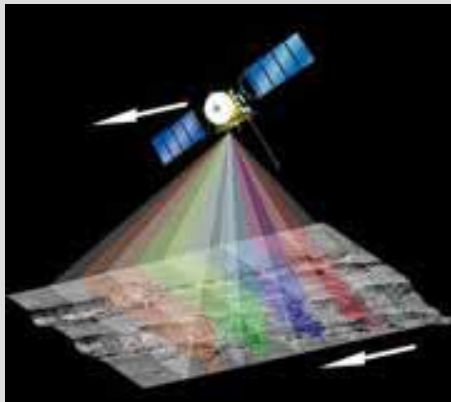




Produktbeispiele aus der Region Berlin-Brandenburg



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Latest high resolution cameras and imaging technologies by DLR

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More Details:

Report 2008/2009

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Thank you for your attention!

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