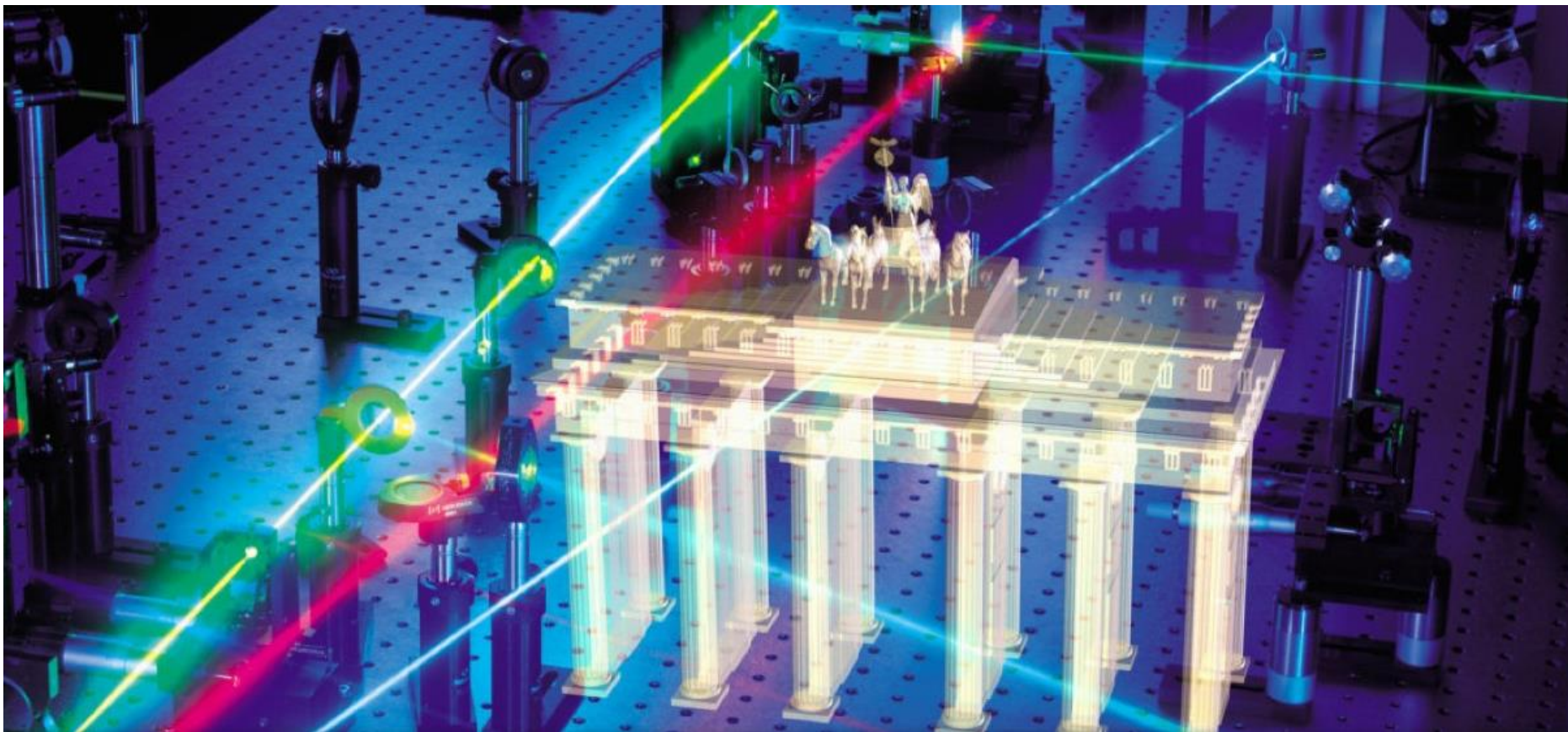


Introducing OptecBB Photonics for Defense in the Berlin Brandenburg Region



Introduction to the Berlin Photonics Cluster

- About OptecBB
- OpteBB Activities
- International Reach
- Photonics Days
- Why Berlin
- Capabilities and Companies
- DIANA?

About the Photonics Cluster

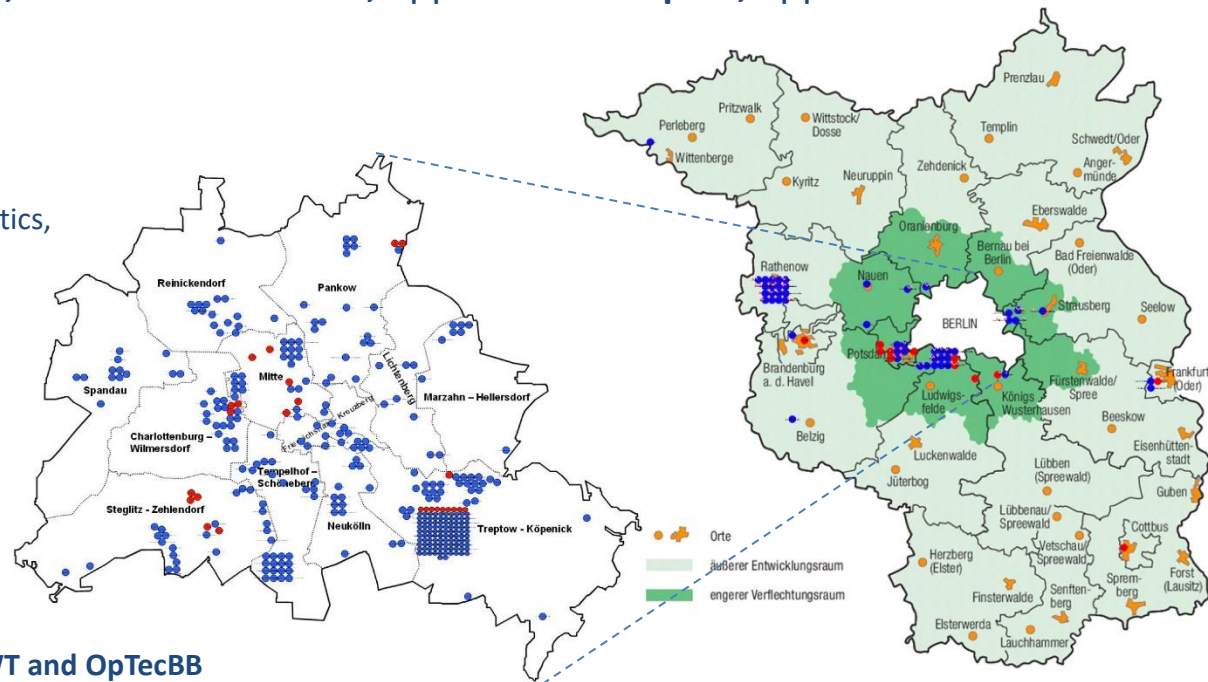
- Photonics has a **200 year tradition** in Berlin and Brandenburg.
- The innovative core of the cluster:
 - **About 400 technology oriented companies** (300 in Berlin and 100 in Brandenburg)
 - **10 universities and 26 non-university research organizations** (11 in Brandenburg and 25 in Berlin).
- **16.600 employees** and approx. **2,8 bn. Euro revenues**, approx. **70 % export**, approx. **10% R&D**

- **Competences**

- Lighting technology,
- Laser technology,
- Sensors, metrology and optical analytics,
- Biomedical optics,
- Ophthalmology,
- Optical communication,
- Microsystems technology ,
- Displays and components
- Quantum technologies

- **Cluster Optics and Photonics**

- Cluster management by WFBB, BPWT and OpTecBB



- Optec-Berlin-Brandenburg (**OpTecBB**) e.V. is ***the competence network*** for optical technologies and micro systems technologies in the federal states of Berlin and Brandenburg.
- **OpTecBB e.V. is an initiative of companies and research institutions in Berlin and Brandenburg that collaboratively explore and exploit the possibilities of these technologies**
- OpTecBB e.V. was **founded on September 14th 2000** by **companies, universities, research institutions and associations** and with the support of the **Berlin Senate** and the relevant **ministries in Brandenburg**
- **Today** the association has more than **100 institutional members**.
- National collaboration in **OptecNet Deutschland** (more than 500 member organizations)
- Member of **go cluster** (former Kompetenznetze.de)
- Member of **EPIC , Photonics21 and PhotonHub**
- Awarded with the **Silver Label of Cluster Management Excellence**

OpTecBB Members



- Meetings of the steering committees to exchange information about current themes, networking and identification of projects and projects ideas
- “Company/institution visits “
- Annual workshops in the focus areas
- Additional focus seminars, colloquia, user/applicants meetings
- Common stands at trade fairs



Public Finances (Overview of reg., nat., EU calls)

Private Finances (Angel Invest, Venture Forum)

Founders Support (Mentoring, Start-up Challenge, Graduate course)

Location Marketing (Presentations, Web, Brochures)

Public Relations, Communication and Lobbying



OpTecBB's International Ties



- **Save-the-date: Photonics Days Berlin Brandenburg 2022**
 - 5th -6th October 2022
 - Exhibition (32 exhibitors), sponsorship, partners
 - Online and In Person 1:1 matchmaking (via b2match)
 - In Person market place
 - Sessions
 - Berlin Laser Tech Symposium
 - Glass and Material for Optical systems
 - Making Waveguides on a System level
 - Semiconductors and Heterointegration
 - Novel Applications of Modern Lighting Technologies
 - Berlin Quantum Optics Symposium
 - Biophotonics and Opthamology
 - Optical Metrology
 - Smart City Technologies
 - Photon HUB Europe,
 - and our annual recruitment event Working in Photonics.

Photonics Days Berlin Brandenburg

innovation conference



Why Berlin for Defense?

- Berlin global leader in Startups
- Significant AI resources
- Engaged Research Intuitions
- Talent
- Tesla
- Icampus Cottbus
- Adlershof
- Potsdam Science Park

- Quantum Sensing
- Quantum Communications
- High power pump diodes for high power lasers
- Helmet mounted displays
- Substrates
- Crystals

BERLIN JOINS DIANA?



NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITÉ DE L'ATLANTIQUE NORD

Updated DIANA Initial Footprint June 2022

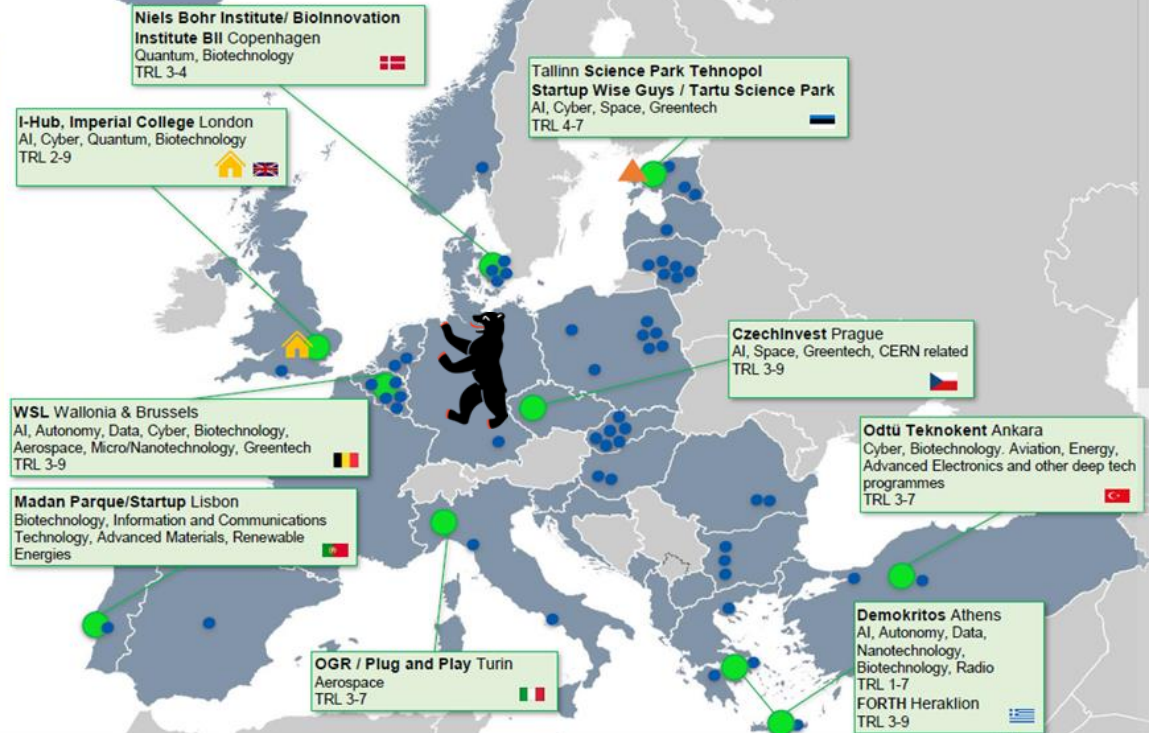
Key

-  Regional Offices (2)
-  Test Centres (63)
-  Regional Hub (1)
-  Accelerators (9)



The United States intends to facilitate access to U.S. Test Centres and Accelerator Sites from across the U.S. innovation sector, across all seven EDT areas.

France intends to facilitate access to French entities, such as Test Centres and Accelerators Sites, drawn from across the very extensive and diverse French innovation sector.



NORTH ATLANTIC TREATY ORGANIZATION
ORGANISATION DU TRAITÉ DE L'ATLANTIQUE NORD

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Thank You

Q & A ...

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