



30 Years Focused on Innovation: Economic Promotion in High-Tech

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German Powerhouse Metropolitan Region RN

BASF **HEIDELBERG** **NEC**

The Chemical Company

ABB **MERCK**

software

Technologiepark
Heidelberg

abbvie

Henkel

CYNORA

JOHN DEERE

SAP

Roche

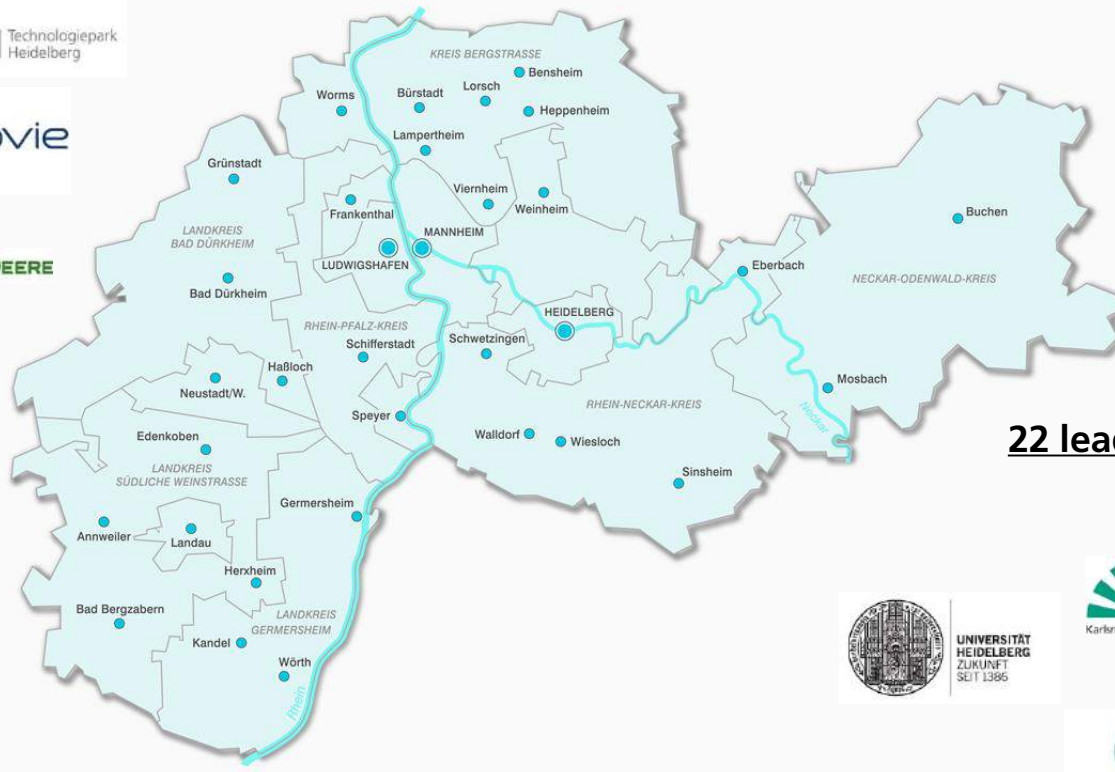
SNP

Leading Edge clusters

iL INNOVATION LAB

BioRN
Cluster
Management

eit Health



- GDP 81 Mio.
- Inhabitants 2012 2.5 Mio.
- Total # students 90.000

22 leading academic institutions

UNIVERSITÄT
HEIDELBERG
ZUKUNFT
SEIT 1386

KIT
Karlsruher Institut für Technologie

EMBL

UNIVERSITÄT
MANNHEIM

TECHNISCHE
UNIVERSITÄT
DARMSTADT

Max-Planck-Institut

Heidelberg Institute for
Theoretical Studies

HITS

Heidelberg

 **150,000 Residents**

98% of "Heidelberger"
love to live in HD

12 Mio. Visitors annually

120,000 Jobs

< 5% unemployment rate

Top ranked and oldest German University (est.1386)

10 different Universities

12 Nobelists

56 Nobelists are related to HD

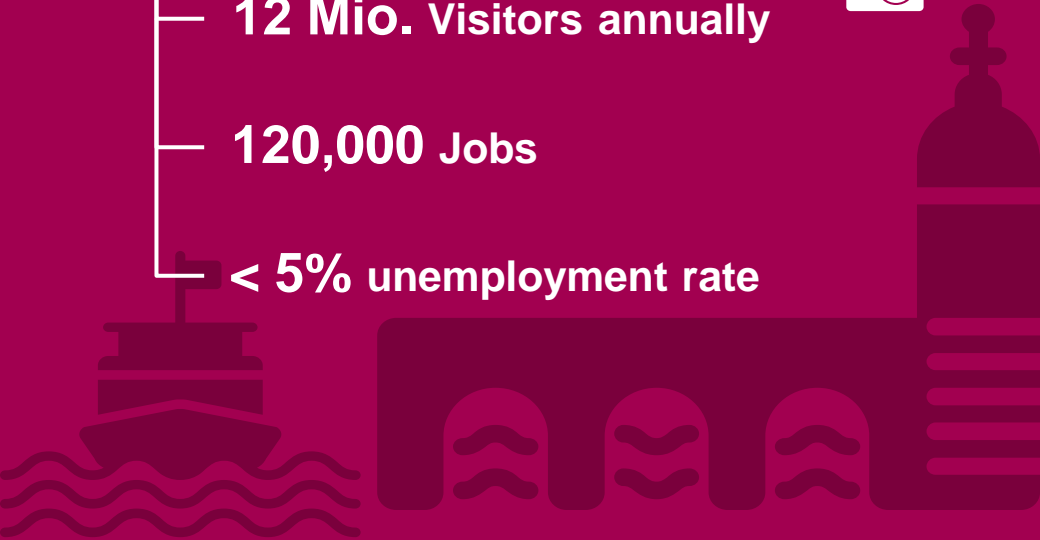
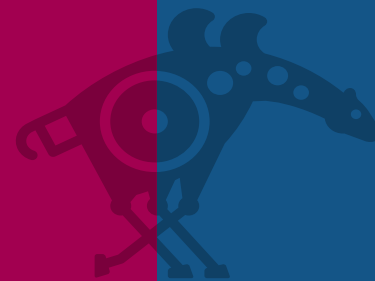
35% Academics
(national average 10%)

40,000 Students
(20% international)

2,000 Professors and Doctors
(20% international)

 **50% female**

cutting-edge Medical Care
1 Mio. patients p.a.
12 Hospitals



Promote clusters. History

1984



**Foundation Heidelberg
Technology Park**

1996



**Winner of BioRegio
Competition**

1997-2001



**35 Projects / 26.1m € Public
Funding
Focus: Startup of Companies**

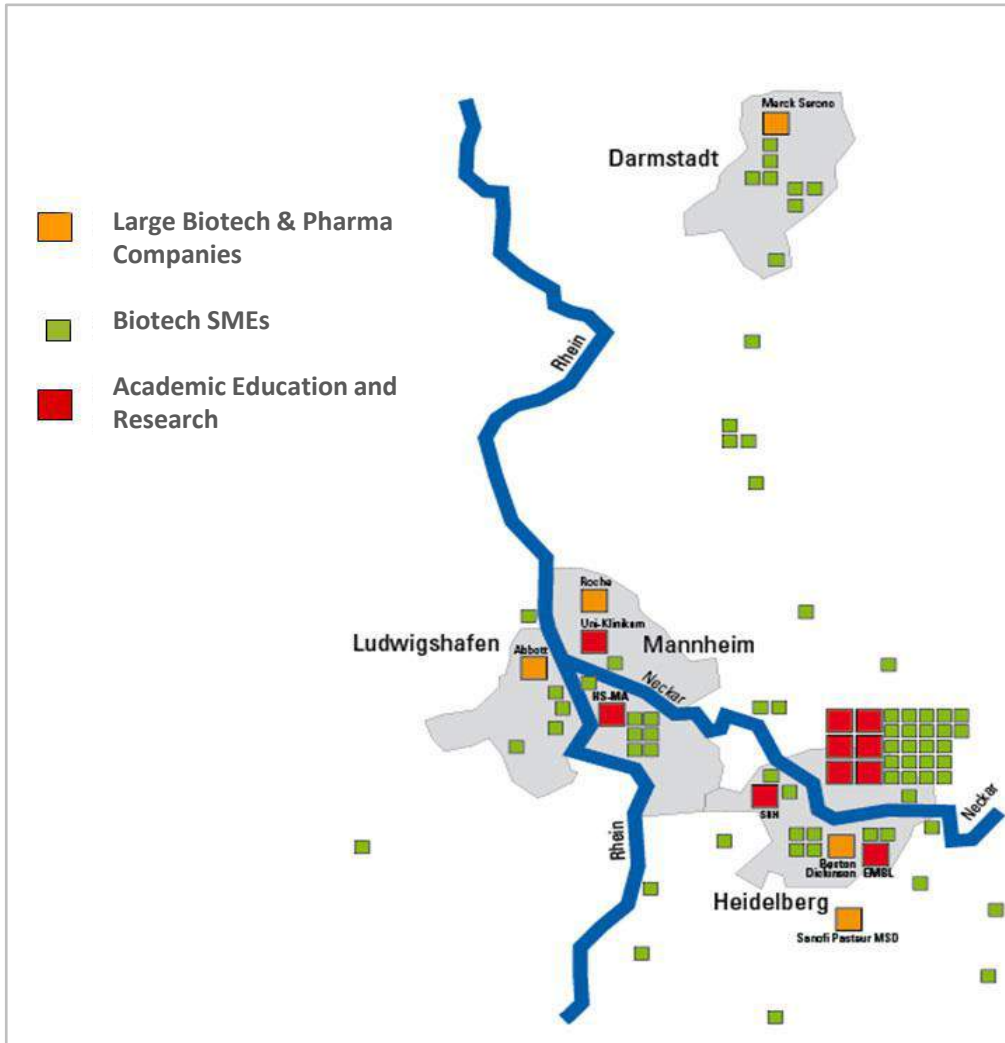
2008



**Winner of Leading-Edge
Cluster Competition**

2009-2013





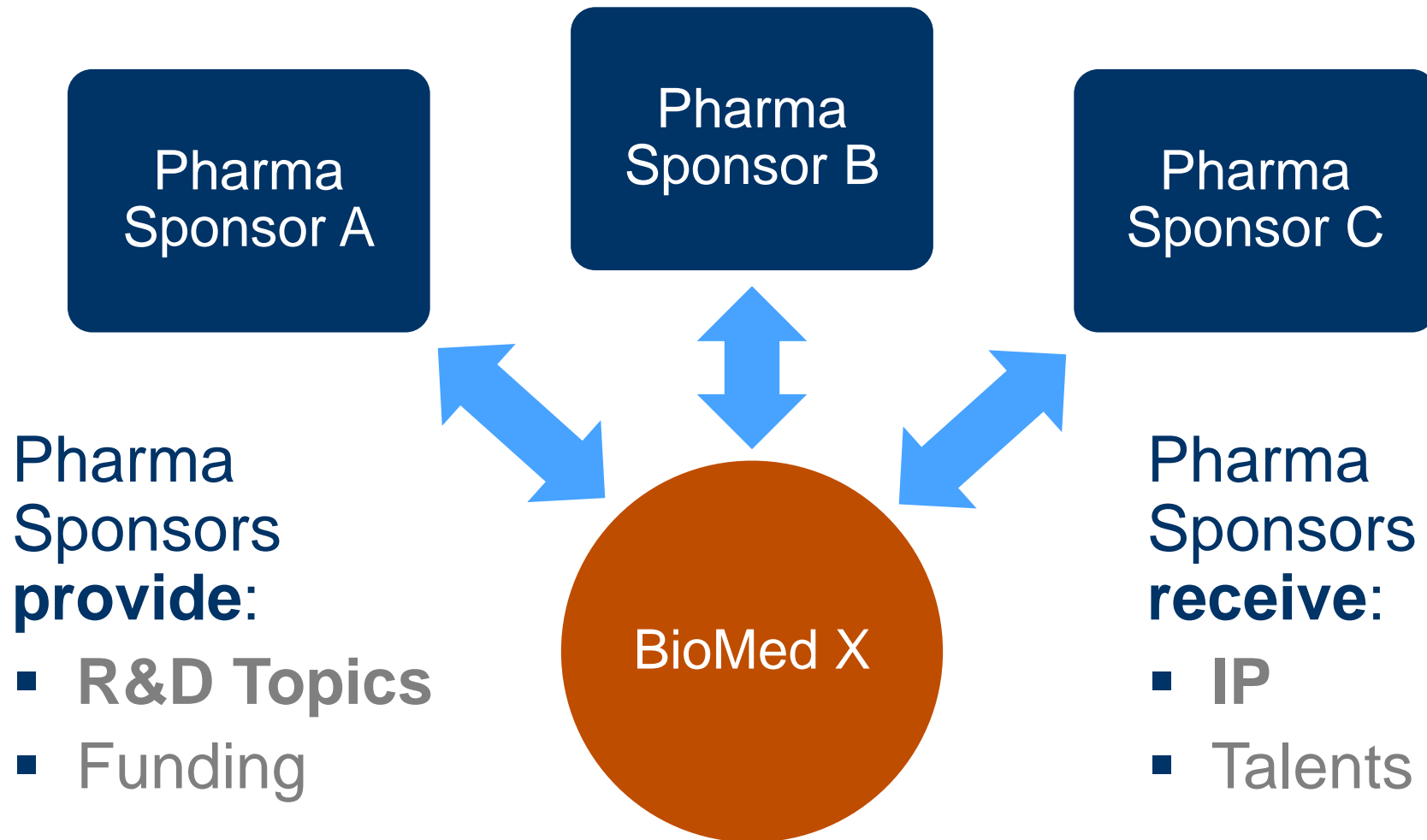
Cell-Based and Molecular Medicine

- 90 Biotech companies with R&D
4,000 Jobs
 - 4 Global Players
>20,000 Jobs
- 
- 6 Universities and Research Institutions
15,000 Jobs



BioMed X Innovation Center

- 20,000 sqft open innovation lab and office sharing community







Life Science meets IT Hackathon



InnovationLab since 2009



coworking @ iL site

- BASF
- Merck
- cynora

- TU Darmstadt
- TU Braunschweig
- Heidelberg University
- Karlsruhe Institute of Technology

- University of Cologne
- University of Stuttgart
- Max Planck Institute for Polymer Research

Motivation



**OLED
organic
light-emitting
diodes**



Source: olednet



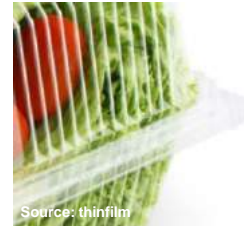


**OPV
photovoltaics**



Source: Cornis/Heliatek GmbH

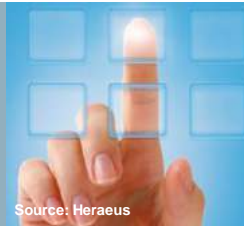


Source: OSRAM



Source: thinfilm

**Optical
sensor
applications**



Source: Heraeus


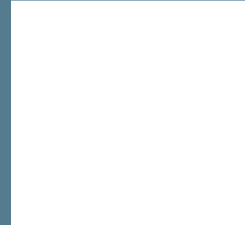
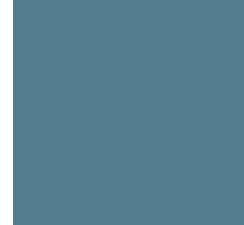


Source: BASF New Business

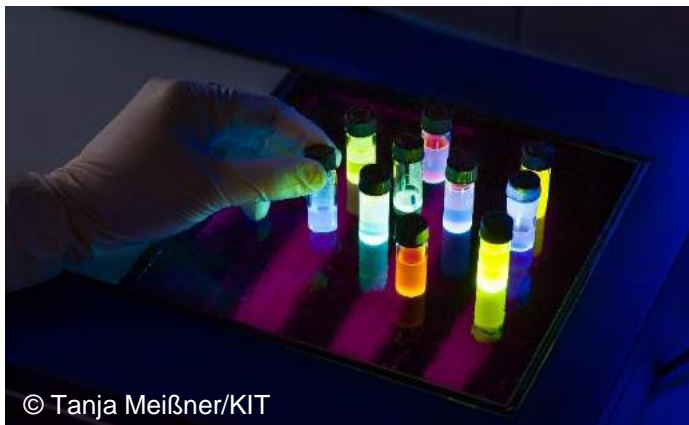
**OFET
transistors**



Source: PolyIC



From materials to applications



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Material

Functional material

Polymers, small molecules, nanoparticles

Manufacturing

Printing & coating on different substrates

Liquid processing

Products

Variety of applications

New applications

Applications



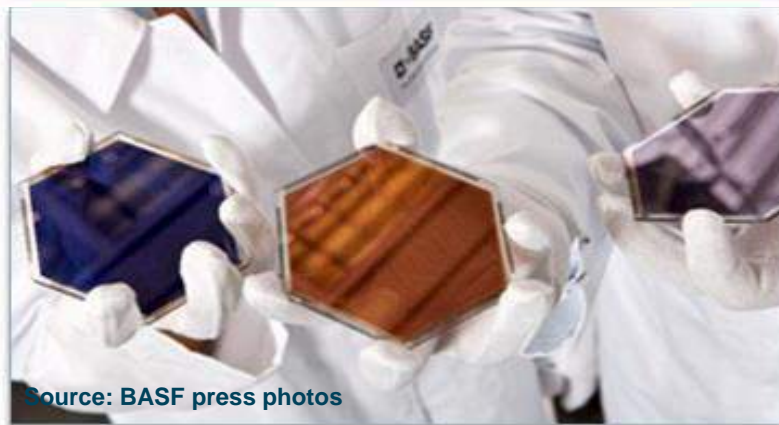
Transparent organic solar cells



Thermoelectric generator



Digital public health



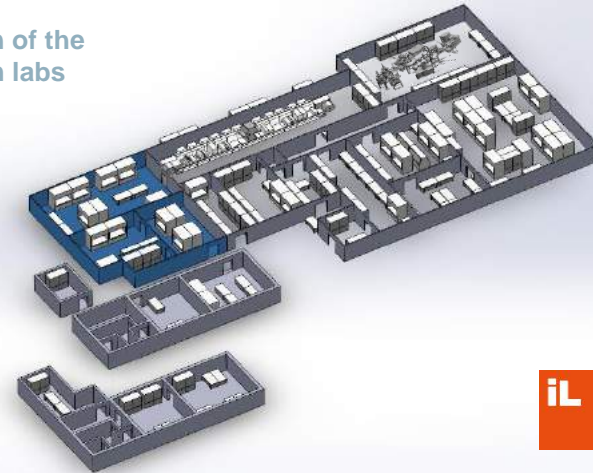
Labs

- 7.000 sq ft state of the art cleanrooms
- 3.800 sq ft laboratory area for chemical processing & electric characterization

Infrastructure

- Office workplaces for 100 employees
- Conference facilities for more than 100 persons

Expansion of the cleanroom labs



Facts and figures

Employees	> 190
Proportion of women	up to 33%
Nationalities	20
Research groups	> 20



Analytics

Ultra high vacuum cluster-tool

- Sample preparation
- Sample characterization

Device Physics

- Extensive equipment for device processing and device characterization
- Complete coverage of the process chain for the pilot production of multilayer devices

Printing & Coating

- Small and medium-size substrates
- Roll-to-Roll printer
- Photolithography



→ From laboratory scale to industrial scale

Creativity Value Chain



Inspiring pupils

Entrepreneurship

Secure IP

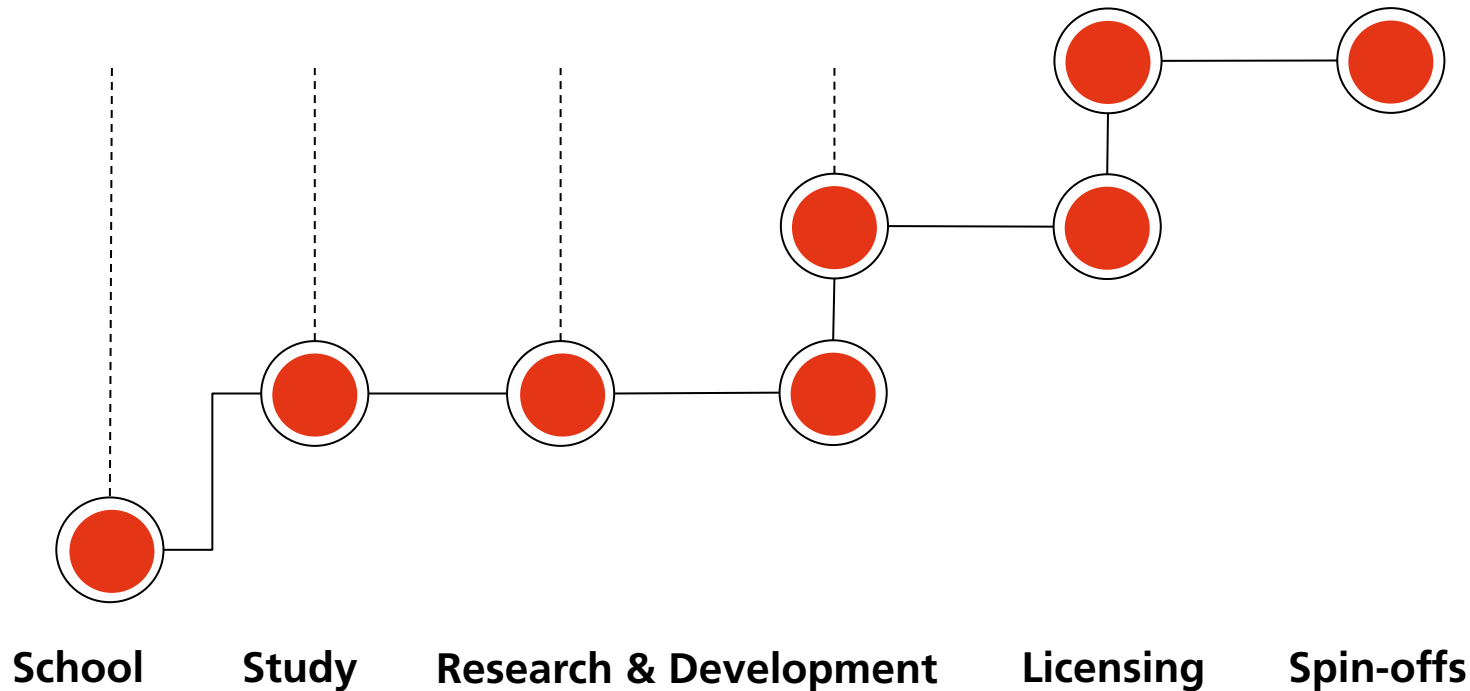
Sustainable Growth

Companies

TTOs

Academia

School





Startup Support



Excellence Clusters



Startup Support
Bureau

BioMed X

Innovation
Center

Business
Development
Center

Herzlich
willkommen

 Sparkasse
Heidelberg



Every good idea
deserves a
chance!

support for scientific and
technological startups and spinoffs
entrepreneurship education
consulting and mentoring
public support programs
offices and lab space
professional networking
funding

The following institutions are part of the Heidelberg Startup Partners:



Challenge

aus
schaftliche
s
gesellschaftliche
Mehrwert?







Patton Barracks 2016



Heidelberg Innovation Park (HIP)



Business Development Center





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