



In cooperation with:





### AZL Partnership Model

## Your Link between Research and Industry

#### **OUR MISSION**

AZL consists of two separate entities: The Aachen Center for Integrative Lightweight Production (AZL) of RWTH Aachen University addresses teaching activities as well as basic research and development of lightweight products, materials, production processes and systems and has access to the latest full-scale machines and automation systems. As a service provider partnering with companies in the field of lightweight production technology, AZL Aachen GmbH provides industrial services in the areas of engineering, consultancy and project management, networking and business development. Together as AZL, we are the one-stop shop for lightweight production technology and offer holistic and cross-industry solutions for your business.

With the AZL Partnership, the AZL Aachen GmbH enables the close cooperation between the lightweight industry and the research institutes of RWTH Aachen Campus along the whole value chain.

#### **OUR SERVICES WITHIN THE AZL**

Annual Partner Meeting Workshops and Workgroups

Joint Partner Projects Acquisition of Public Funding

Networking

Marketing, PR

Human Resources

Extended Matchmaking

Market Intelligence

Campus Office

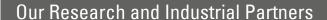
#### **OUR PARTNERSHIP TYPES**







Our Partners can update their Partnership anytime to a Business or Premium Partnership. Details are given on page 13.



## **Entire Lightweight Value Chain**











































































































































### OUR RESEARCH PARTNERS AT RWTH AACHEN CAMPUS

All competences along the value chain: 9 Institutes with >750 scientists working on lightweight topics.





























- One two-day meeting per year for co-definition of AZL strategy
- Keynote presentations of AZL Partner Companies and Institutes (Speed Dating)
- Definition of joint partner projects, workgroups and workshops
- Outcome of realized projects and workgroups
- Networking with more than 150 representatives of national and international AZL Partner Companies





- Presentation of your innovations to partners
- Networking with AZL Partner Companies and Institutes
- Definition of research projects and workshops



- Workshops to indicate and discuss topics for collaboration and research, e.g.
  - Joining
  - Lightweight Research Landscape
  - Quality Assurance in Composite Value Chains
  - End-machining of Fiber-reinforced Plastics
- Industrial Workgroups with regular meetings on lightweight topics such as
  - High-Speed RTM Matrices
  - Hybrid Thermoplastic Composites
  - Pipes and Vessels
  - High-Performance SMC
- Websites (Business Platforms) for external communication of services and products along workgroup technologies

- Definition of Joint Partner Projects
- Possibility to define new industrial standards (e.g. RTM specifications, tape quality)
- · Continuous collaboration on lightweight topics



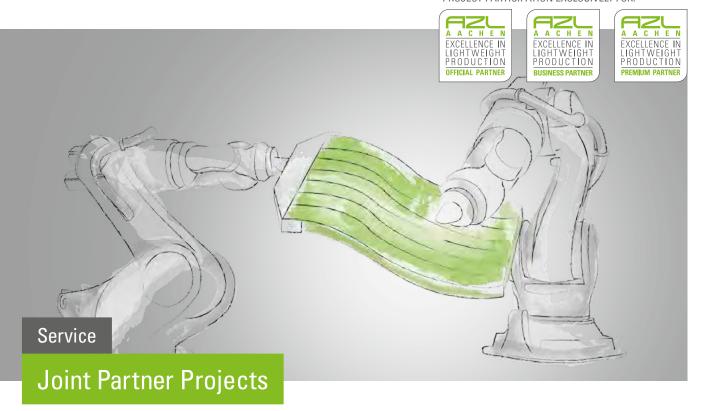










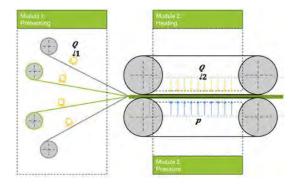


- Definition of pre-competitive Joint Partner Projects within Annual Partner Meeting, Workshops and Workgroups
- Example 1: Ultra-Fast Manufacturing of Tailored Composite Blanks
  - 18-month projects, started in June 2016
  - 12 industrial partners: OEM, Tier 1's, tape manufacturer, system and service provider
- Example 2: Tape Qualification and Benchmarking
  - One-year project, accomplished in March 2016
  - 7 industrial partners: OEM, tape and fiber manufacturer, chemical industry
- Example 3: Development of new Concepts for cost-efficient Double Belt Presses
  - One-year project, accomplished in April 2016
  - 7 industrial partners: Press manufacturer, chemical industry, steel industry
  - Start of follow-up project in October 2016

- Exclusive Joint Partner Projects with AZL Partner Institutes and AZL Partner Companies
- Focused pre-competitive R&D at shared costs



Project Example: From Offset Printing Technologies to Ultra-Fast Composite Sheet Production



Project Example: New Machine Design for Low-Cost and Energy-Efficient Double-Belt Presses



# **Acquisition for Public Funding**

### **APPROACH**

- Risk-reduction by identification of available public funding possibilities for your demand (e.g. BMBF, BMWI, EU, cross-border funding, etc.)
- Identification of potential international partners and consulting on focusing research topics
- Consulting how to use the AZL infrastructure as a technology platform
- Direct contact via the AZL Aachen GmbH partners to set up consortia for public funded projects





- Customized acquisition for public funding for your projects
- · Identification of potential partners for your demands
- · Writing of project proposals



- Platform to initialize projects within the AZL Network
- · New pre-competitive R&D projects
- New cooperations
- Presentation of your innovative products and developments
- Discussion of the AZL strategy, update on new equipment and services
- Strengthen the network between AZL Aachen GmbH partners and the lightweight activities of the RWTH Aachen Campus



- Access to a unique international industrial partnership network representing the entire value chain
- · Access to potential business partners
- One stop contact to the RWTH Aachen University





- Setup of a newsletter and press releases
- Presentation of your company on our technology websites, so called Business Platforms
- Internal AZL Partner Knowledge and Communication Platform with more than 500 users
- Job and CV board to address AZL PhD and Master graduates as new potential employees



- Marketing and PR activities according to your needs
- A range of options for presenting your company in the lightweight community
- Access to a pool of new potential employees



CVs of graduates from 9 Institutes (Bachelor, Master, PhD)



- B2B networking event at IAA (for 2017)
- Guided visits in Poland to composite companies (for 2017)
- Guided tours at KOMPOZYT-EXPO (for 2017)
- 9 Business Cases reviewed in three workshops for detailed cost benefit analysis of lightweight components
- Insight into markets with analysis of free available reports
- Overview and evaluation of conferences



Extended Matchmaking



Market Intelligence



Shared Office

### YOUR BENEFITS

- Joint forces for access to new markets and regions
- Individual and high-level contacts to lightweight players outside the AZL Network
- Focused information, including cost and performance analysis



kompozyt-expo



# Co-working Space at RWTH Aachen Campus

### **APPROACH**

- Shared office with AZL Partner Companies on RWTH Aachen Campus
- Close co-location with researchers and companies on one of Europe's largest technology-oriented research campus with 473,000 sqm
- · Fully equipped office
- Usage of meeting rooms
- Communication zone



RWTH Aachen Campus with 16 new Cluster Buildings, Copyright: Campus GmbH/Steindl

- Working within the heart of Europe's largest landscape for production technology
- Shoulder to shoulder with lightweight companies and research institutes in a shared office
- · Keeping your finger on the pulse of new technologies





- Exclusive usage of one office room (min. 16 m²) on RWTH Aachen Campus
  - Infrastructure for 2 employees
  - Internet, telephone connection, etc.
  - Meeting rooms
  - Communication zone
- Individual extended Marketing support
  - E.g. exclusive listing in technical presentations, press releases,
    AZL facilities
  - Intense involvement in AZL conferences and events

- Having an inspiring presence in a high-tech environment on Europe's largest technology campus
- Direct daily contact to lightweight companies and institutes
- Individualized support for your Marketing





## AZL Partnership

## **Our Services**

Existing Partnerships can be upgraded anytime.



Official Partnership



**Business Partnership** 



Premium Partnership

## R&D AND NETWORKING

#### STARTER SERVICES

#### STANDARD SERVICES

#### **EXTENDED SERVICES**

Annual Partner Meeting	•	•	
Workshops and Workgroups	•	•	
The same of the sa			
Joint Partner Projects	•	•	
Acquisition of Public Funding	•	•	•
Networking	•		
Marketing, PR, Human Resources		•	

#### BUSINESS DEVELOPMENT AND EXTENDED NETWORKING

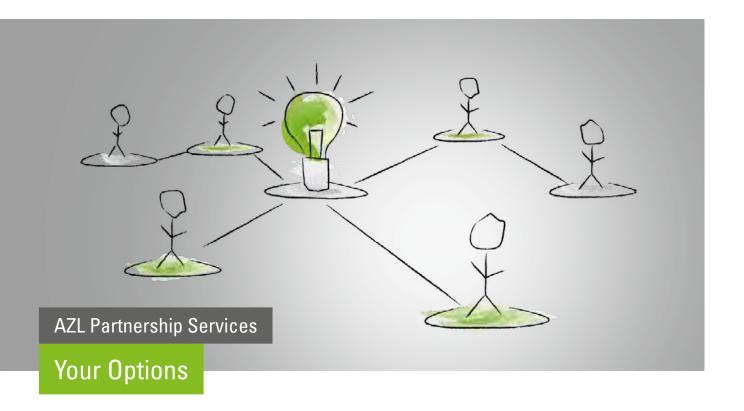
Extended Matchmaking		
Market Intelligence		

#### **CAMPUS OFFICE**

Shared Office		•
Exclusive Office		•

#### INDIVIDUALIZED MARKETING

E.g. exclusive listing in presentations, press releases		
---	--	--









Business Partnership



Premium Partnership

NUMBER OF EMPLOYEES	ANNUAL CONTRIBUTION	ANNUAL CONTRIBUTION	ANNUAL CONTRIBUTION
< 25	2,000,−€	6,500,-€	25,000,−€
25 – 250	5,000,-€	10,000,−€	25,000,-€
250 - 500	7,500,−€	12,500,-€	25,000,-€
> 500	10,000,-€	15,000,–€	25,000,-€

## Continuously growing Partnership Network

## More than 70 Partner Companies from 19 different Countries

Effective October 2017



#### PREMIUM PARTNER







#### **BROAD RANGE OF REPRESENTED COMPANIES**

- From start-ups to multi-national corporations
- Sector-independent
- OEMs, Tier 1, Tier 2, molder, system and machine developer, material supplier, service provider





### OFFICIAL AND BUSINESS PARTNER



















































































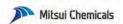












































# **Your Contacts**



**DR.-ING. MICHAEL EMONTS** 

Managing Director Phone: +49 241 8904-150 michael.emonts@azl-aachen-gmbh.de



**DR.-ING. KAI FISCHER** 

Managing Director Phone: +49 241 80-27105 kai.fischer@azl-aachen-gmbh.de



**DR.-ING. MICHAEL EFFING** 

Senior Advisor Phone: +49 241 80-23887 michael.effing@azl-aachen-gmbh.de



Seffenter Weg 201 52074 Aachen Germany Phone: +49 241 80-27105 Fax: +49 241 80-22316 info@azl-aachen-gmbh.de



www.azl-lightweight-production.com