

# **Lightweight structures**

East Netherlands offers the world's richest and most accessible advanced materials production technology ecosystem, enabling industrial scale-up of new businesses and markets. It has a vibrant business investment infrastructure, world-class knowledge institutes, open innovation facilities and a culture of international cooperation, creativity and high precision. The East Netherlands advanced materials & manufacturing ecosystem helps your company to become more efficient, flexible and sustainable.





## **Business climate**



# - New technologies



# **Business support**

The strength of East Netherlands is the thriving ecosystem of business infrastructure and technological architecture. Here you will find the largest concentration of compositesrelated business in the nation. Established composites companies in the region are eager for value-added collaboration with you.

#### **Markets**

Aerospace, industrial manufacturing automotive, building & construction, wind & energy, membranes, maritime, machinery.

## Companies

Toray, Teijin Aramid, Nouryon, Aeronamic, Mitsubishi Chemical, Reden, Dutch Shape, Aniform, Demcon, Thales, Fiberneering, Bond, DSM, CATO, Aliancys, Pontis Engineering, We4Ce among many others.

#### Research institutes

University of Twente Research, Fraunhofer, TPRC, NLR, Thermoplastic Composites Application Centre (TPAC).

## Spin-offs

Proof of a ripe and ready market is the large number of composites spin-offs in the region East Netherlands. Fiberneering, Bond, Parthian/DEON, CATO a.o.

The business infrastructure supports a thriving technological architecture. Key Enabling Technologies (KETs) targeted by the EU and Dutch government for investment and development:

- Advanced materials
- Advanced manufacturing technologies
- Nanotechnology
- Photonics
- · Micro and nanoelectronics
- · Industrial biotechnology

### Regional expertise in composites:

thermoset composites, thermoplastic composites, polymer chemicals, aramid-fibers, carbon fibers, recycling etc.

East Netherlands is a region of living technology, making real-life testing of new composites technology possible. From lab testing to open test space, to public use and acceptance.

**Oost NL** is your partner in connecting international companies to business communities in the composites business.

**Novel-T** offers startups (New) and innovative entrepreneurs (Next) access to a dynamic ecosystem.

**SMB Facilities & Support** boosts open innovation together with coaching and support of start-ups and SMEs.

### **Spin-offs**

Proof of a ripe and ready market is the large number of successful composites spin-offs in the region East Netherlands.

- Fiberneering
- · Parthian / DEON
- Bond BV
- CATO



## **East Netherlands:** Embedded in a strong **Dutch ecosystem of** composites.





# Oost NL has partnered with over **900** companies for success in Europe





## Infrastructure

East Netherlands has a relatively high



concentration of knowledge in composites, production and high precision. It also has a high quality existing industrial infrastructure. Examples are production plants for materials and products with room for expansion, but with low m<sup>2</sup> prices compared to the rest of the Netherlands.

## **Open Innovation Centers / research partners**

- MESA+ and High Tech Factory for innovations in nano materials
- TPRC ThermoPlastic composites Research Center (Enschede)
- TPAC ThermoPlastic composites Application Center (Enschede)
- Fraunhofer Project Center Institute for Production Technology (Enschede)
- Polymer Campus polymers, fibers and resins (Zwolle)
- OICAM Advanced Materials (Nijverdal)

## **Locations / business incubators**

- Technology Base Twente industrialization of thermoplastic composites (Enschede)
- Kennispark Business & Science Park (Enschede)
- Polymer Campus (Zwolle)
- High Tech Systems Park (Hengelo)



# **Funding**

the funding priorities within the European important vehicle to connect our composites in Europe. The EU has made significant investments in advanced materials in recent years, and remains the largest investor in the technology, leading the US and Asia.

> budaet for cooperation in R&D through **EU Horizon 2020** program

As an official partner of the Dutch and EU governments, Oost NL is a qualified intermediary in helping you to access EU, national and regional funding.

million regional participation fund



innovation grants & incentives



# Top talent

Thanks to a broad business and knowledge base, East Netherlands has extensive expertise in industrial manufacturing, as well as world-class knowledge institutes that educate new talent. The universities and higher professional education institutes in the Netherlands strongly support relevant scientific studies that are closely linked to this growing market.

## **Knowledge institutes**

University of Twente, Radboud University, Applied Sciences universities: Saxion, Windesheim, HAN etc.

**Number of students, East Netherlands** 

research university students

university of applied sciences students

104,000

students in vocational education

source: CBS, 2018/2019

## **Oost NL - Your** support for success in business

Oost NL is the economic development agency for East Netherlands. We have access to resources funding, business partners and to help you succeed in establishing If your strategic vision is global partner for success.

#### Contact:

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