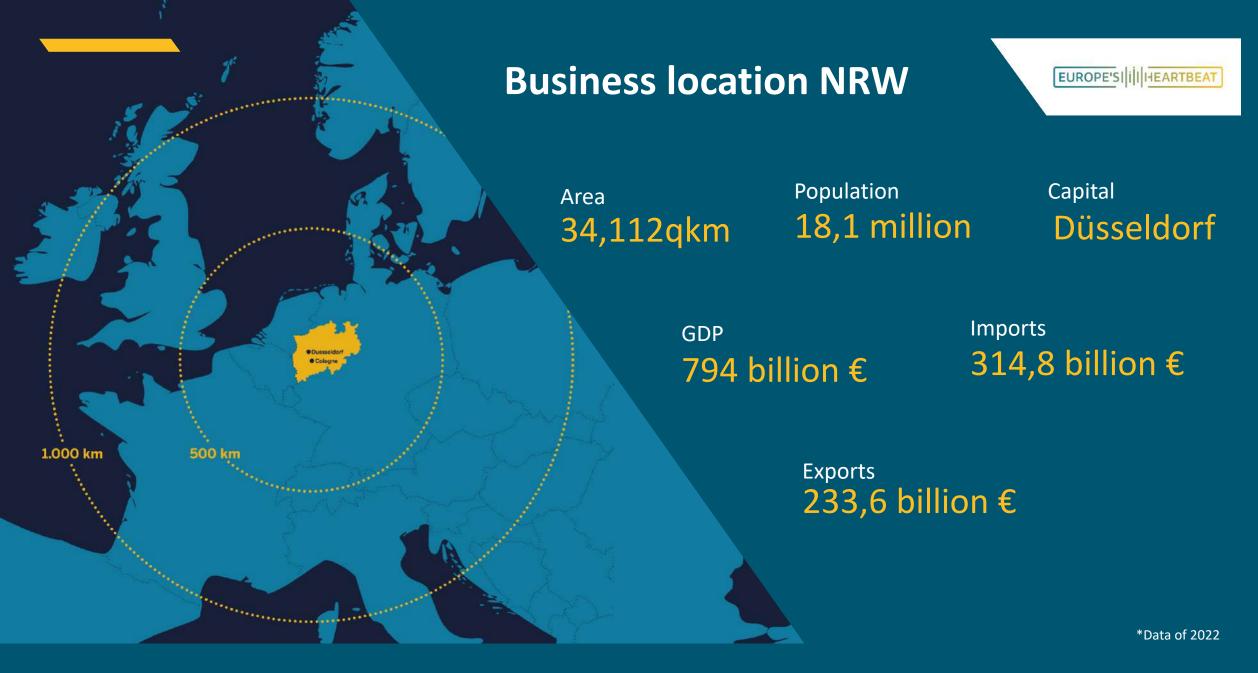
## **Germany's North Rhine-Westphalia**



**Center of Excellence of Production Technologies and the Manufacturing Industry** 





## North Rhine-Westphalia at a glimpse

#### Location

Right in the center of Europe reaching 160 million consumers within a radius of 500 km

#### **Qualified professionals**

Around 750,000 students enrolled in universities of which approx. 300,000 students are from STEM fields annually

#### **Germany's No.1 Investment Location**

20.7 % (roughly 22,000) of international companies in Germany are located in NRW, creating 1 million jobs

#### EUROPE'SI IIIIHEARTBEAT

#### **Research & Development**

Densest R&D network in Europe with its around **70** universities and research institutes and **14** clusters of excellence

#### Germany's economic powerhouse

Almost 700,000 companies are calling North Rhine-Westphalia home and 19 od the 50 topselling companies in Germany are based in NRW

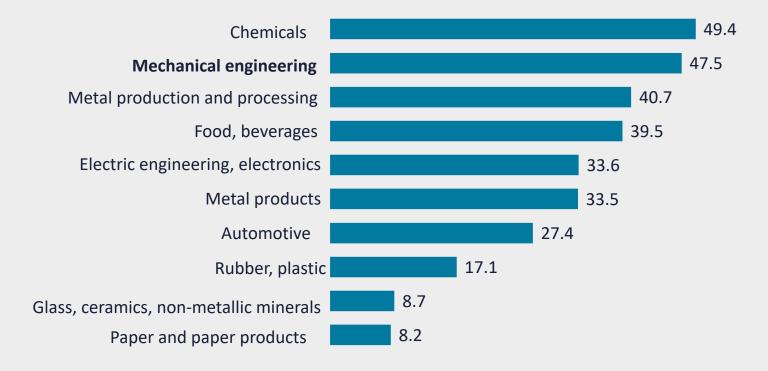
#### Europe's largest sales and sourcing market

14.8 % of German exports are "Made in NRW"

#### Logistics

2 International airports and the world's largest inland port

## Top location for manufacturers and suppliers – Sales 2021 (in € bn)



NRW – Dynamic business location in the center of Europe

EUROPE'SI II HEARTBEAT

## **Smart Industry in North Rhine-Westphalia**





## Smart Industry in NRW: Key Facts

### 1.2 million

people are employed in industry in NRW

## 1/3

of all German ICT sales are generated in NRW



9

EUROPE'SI I HEARTBEAT

producers of Germany are located in NRW

#### 18.1%

of German industrial sales are generated in NRW.

### >93,000

students in computer science, electrical engineering & information technology

## The economic importance of **Smart Machinery**







Sector sales in NRW: 7,8 billion €



Machine building companies in NRW:



Sectoral sales in Germany:

Workforce in NRW: 35.100

- The machine building industry in NRW is a driver of Smart Manufacturing
- Companies generate more than one third of the sectoral sales in Germany
- The most important export markets of the sector are in Asia, Europe and North America
- A well developed science landscape in NRW supports the development of innovative technologies at a high level

## **Artificial Intelligence**

(AI is KI in German)

- Al is a key technology for smart manufacturing and for smart logistics.
- Politics, science and industry work hand in hand to reach excellence in development of AI and AI applications



KI. NRW is the central networking initiative in the field of artificial intelligence in NRW initiated and funded by the NRW government.

As a central point of contact, KI.NRW supports small and medium-sized enterprises in particular in taking advantage of the opportunities offered by artificial intelligence.

KI.NRW runs AI lighthouse projects funded by NRW:

Large companies, SMEs and start-ups work closely with universities and research institutions to solve socially relevant issues.

## **Clusters and networks for Smart Manufacturing**



9

EUROPE'S||||||HEARTBEAT

#### **Excellent R&D-landscape for Smart Manufacturing**

EUROPE'S|||||HEARTBEAT





Research focus in NRW: Smart Factory (intelligent sensor systems, big data platforms), human-machine systems/robotics

#### Universites and technical colleges:





Hochschule

Bonn-Rhein-Sieg

RUB

University of Applied Sciences

FH MÜNSTER University of Applied Sciences

ochschule Niederrhein

```
Technology
Arts Sciences
TH Köln
```

UNIVERSITÄT BIELEFELD









Study programs in NRW (selection): Mechanical Engineering, Production Engineering, Innovative Production Systems, Automation and Robotics

## A rapidly growing startup – ecosystem for Smart Manufacturing





# NRW: Business Hub No.1 for Japanese Companies in Europe

# NRW and Japan: A long standing and important economic relationship

Employed in Japanese



~650

Japanese Companies in

Annual Turnover

NRW

~ 38 billion €

Pure subsidiaries

Companies

~53,000

Japanese Companies with HQ in NRW

More than 50%

Key industries

automotive suppliers, mechanical engineering, telecommunications, electronics, chemicals and pharmaceuticals

EUROPE'SI

# NRW's capital city Düsseldorf: Center of Japanese business and life in Germany

- 8,500 Japanese live in Düsseldorf
- Japanese Consulate General
- Japanese Chamber of Commerce and Industry
- Banks, forwarding agents, insurers, lawyers, tax consultants, HR consultants
- Japanese medical doctors, Japanese supermarkets, book shops, hairdressers
- More than 20 Japanese restaurants in Düsseldorf

- Japanese Club with many cultural activities
- 4 kindergartens and a Japanese International School (up to high school)

EUROPE'S | || || HEARTBEAT

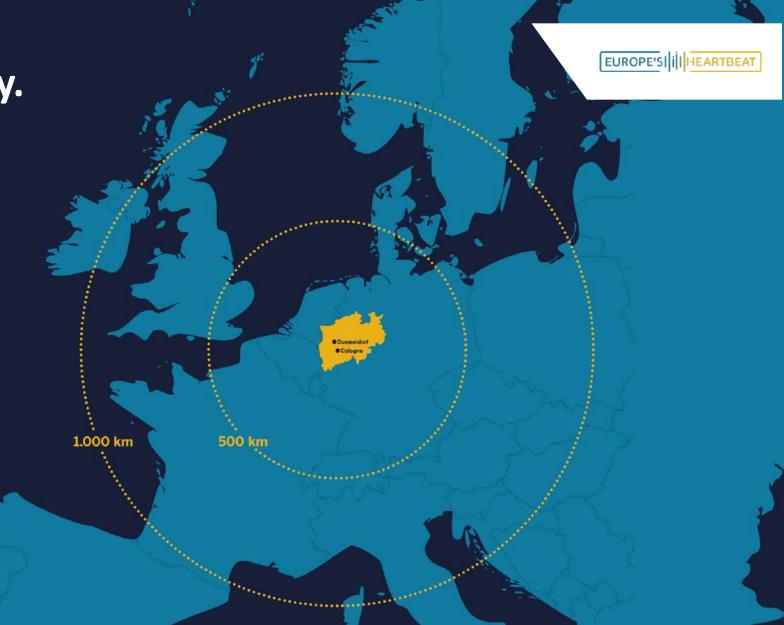
- Yearly "Japan Day" the biggest Japanese-German cultural festival in Europe
- The yearly German Japanese Business Symposium attached to the "Japan Day" is the largest in Germany



If Europe, then Germany. If Germany, then NRW.

North Rhine-Westphalia (NRW), is looking forward to welcoming you!

Thank you for your attention!



NRW - Dynamic business location in the center of Europe

### Contact



Jennifer Marienfeld Head of Business Unit Japan <u>marienfeld@nrwglobalbusiness.com</u> +49 211 13000-114 EUROPE'SI i I I HEARTBEAT

16

#### NRW.Global Business GmbH

Trade & Investment Agency of the German State of North Rhine-Westphalia (NRW)

www.nrwglobalbusiness.com