DISCOVER YOUR WORL



## **BUas Facts & Figures**





7,224 students

1,435 international students (20%)

78 different nationalities

🌱 **798** employees

163 international employees (19%)

170 partner universities







#### Our campus

- An inspiring, high-quality and park-like environment
- Historical building and new structures combined into state-of-the-art educational facility
- All degree programmes and support services in one place
- Keywords: transparency, openness, connecting people, sustainability, togetherness





# International community

- 78 different nationalities
- 2 1,435 international students
- 28 162 outgoing exchange students
- 22 incoming exchange students
- 170 partner universities





#### Rankings

 The quality of education and research at BUas are demonstrated by high ratings in recognised international and national rankings.













#### Strong connections to the industry

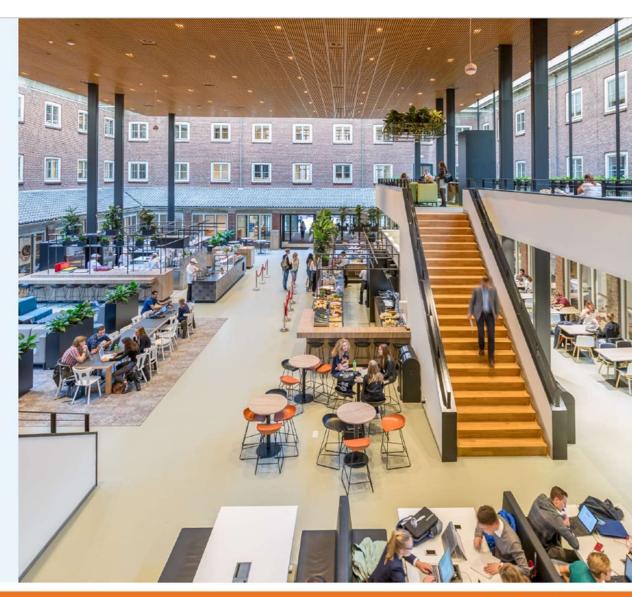




#### Research

#### **Programme**

- Beyond applied
- Guided by societal challenges
- Cross-domain and transdisciplinary
- Connected to education
- Connected to industry





#### FIRRST System Implementation Study

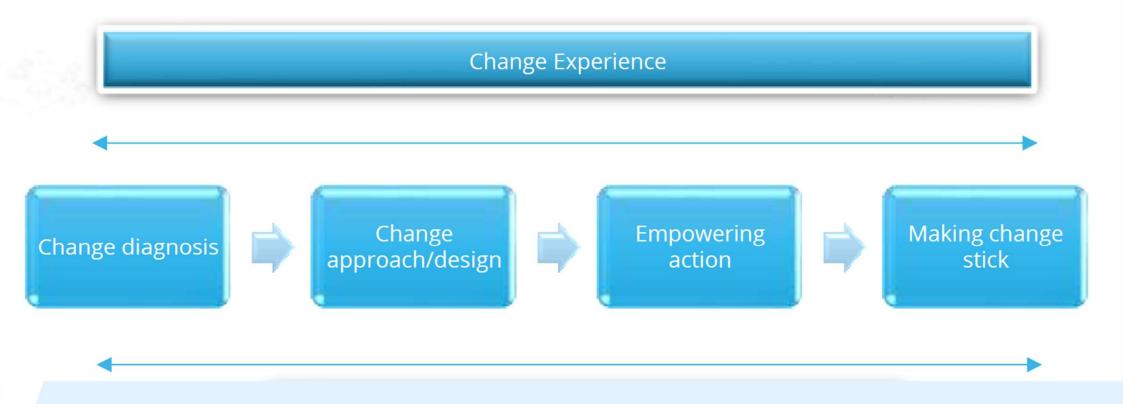
- First implementation study
- Under change management project
- On going research
- Investigate FIRRST System current implementation feasibility in Noord-Brabant, the Netherlands



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# Research approach





#### Research field

Importance of stakeholders High Verry High Low Moderate - Pierre Borgoltz - Karolien Kampstra - FERRMED - Letty Zhu Stakeholder influence/power Verry high - Eduardo Collin Hernandez Keeping Key figure influencers happy pamper High Government Railway terminals - Pro rail Moderate - NS - EU Interested parties Spectator - Port of monitors inform Rotterdam - Local Low authorities

Inventarisation

Railway network

Train terminals

Ownership ratio

Capacity

Goverment impact



#### **Current situation: Market Potentials**





## **Desired situation**

 Using +FIRRST system and its terminals, increasing 30% freight transportation





## Gap analysis (Interview)

- Rail/train specifications
- Last mile
- Integrated TMS
- Terminal specifications
- External factors

#### **Company**

Van Rooijen Logistic BV

**Barge Terminal Tilburg BV** 

**OOC Terminal Oss** 

**Prorail** 

Swietelsky Rail Benelux BV

Cabooter Group, Venlo



16% totale goederenvervoer via spoor  Current State	14% groei in 7 jaar	30% totale goederenvervoer via spoor in 2030  Desired State
Spoor/trein specificaties	<ul> <li>- Aanpassingen aan sporen</li> <li>- Wijziging in werkwijze/wetgeving rijdende locomotieven</li> <li>- Wetgeving kwalificatie machinisten aanpassen</li> </ul>	- Spoorbreedtes universeel maken EU - Wattages universeel maken EU - Eenzelfde locomotieven voor lange afstanden -Universeel diploma voor machinist
Last mile	<ul> <li>- Aanpassing in de Nederlandse wetgeving over lengtes LZV van 25 meter naar 31 meter</li> </ul>	- LZV van circa 31 meter en 70 ton dragend
Geïntegreerd TMS	- Overkoepelend TMS systeem	- Goede communicatie tussen transport bedrijven in Nederland - <u>Één</u> geïntegreerd TMS systeem
Terminal specificaties	- STUKJE LITERATUUR ONDERZOEK DAMON JULIAN over terminals	- Terminal die voldoet aan de eisen van FERRMED
Externe factoren	- Hoe meer goederentreinen, hoe meer overlast. Deze overlast moet worden verminderd door onderzoek op lange termijn, geldcompensaties etc.	- Minder geluidsoverlast door goederentreinen



Please contact us, if you have any questions!

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