







AWARE

Applied NetWork on Automotive Research and Education

Strategic partnership Germany-Brazil



























AWARE at a glance - its origin







Brazilian Federal universities with excellent engineering courses and interest in automotive application

Paraná / Santa Catarina

- one of Brazils largest automotive cluster
- Center of Mobility Engineering

Bavaria

- Centre of innovation in the field of automotive, aviation, logistics and mobility technologies
- More than 100 automotive suppliers in Ingolstadt

Technische Hochschule Ingolstadt

University of Applied Sciences, focussed on automotive industry

AWARE officially started in 2013 with funding from the DAAD (German Academic Exchange Service) to build up a strategic partnership over the upcoming six years.

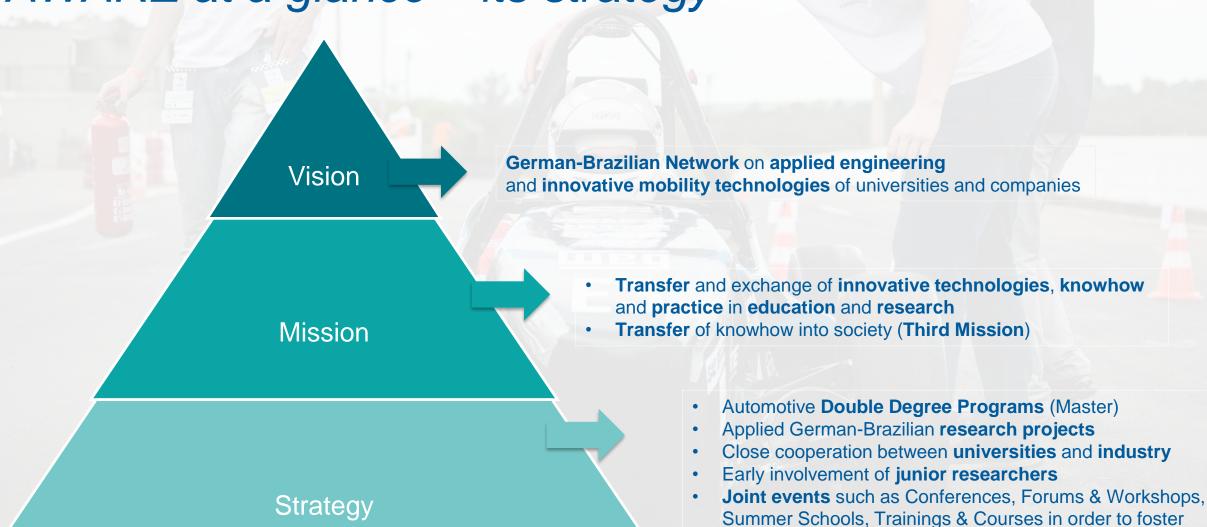


interdisciplinary exchange between sciences, industry

and society



AWARE at a glance – its strategy







AWARE at a glance – its board members





Prof. Dr. Walter Schober President of THI





Dr. Henning Löser Head of Audi Production Lab (AUDI)





Rainer Ackermann Global R&T Cooperations Airbus Defense & Space, Munich



Gabriel Engert Director of the Office of Cultural Affairs **City of Ingolstadt**



Prof. Dr. César Zucco, Scientific Director & Prof. Dr. Sérgio Gargioni, Former President FAPESC FAPESC, Florianópolis



Andréa Carvalho Vieira **General Coordinator for International** Programs (CAPES), Brasília





Dr. Irma de Melo-Reiners **Executive Director of Centro** Universitário de Baviera para América Latina (BAYLAT), Erlangen





AWARE at a glance - its core team



Prof. Dr. Harald Göllinger Scientific Director





Prof. Dr. Alessandro Zimmer Research Ambassador







Anne-Sophie Lohmeier Operative Director







Prof. Dr. Karin Graf & Prof. Dr. Ewaldo Mehl Coordinators UFPR (AWARE / AIM)





Prof. Dr. Andreas HagererDouble Degree Coordinator





Prof. Dr. Evelio Fernandez

Double Degree Coordinator UFPR





Lisa Hermsen Research Advisor





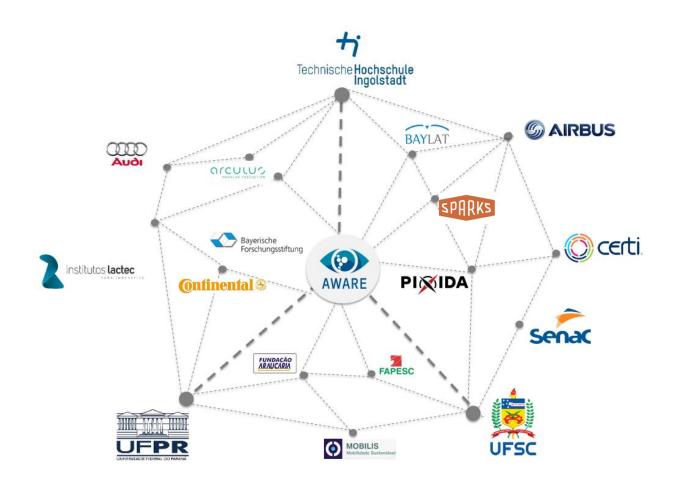
Prof. Dr. Maurício Campos Porath & Prof. Dr. Lucas Travassos
Coordinators UFSC (AWARE / AIM)







Partners and Funding



Funding received:

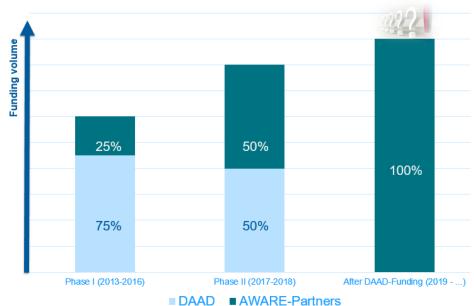
Federal Ministry of Education and Research

SPONSORED BY THE

Phase I: 2013-2016: 750.000€

Phase II: 2017-2018: 250.000 €

Phase III: to be discussed





AWARE Mobility

Total Mobility 2013-2018	447
Funded by AWARE	248 (55%)
Further (THI, UFSC, UFPR, FA, FAPESC, DAAD,)	199 (45%)

Total Mobility 2018 (24% outgoin	gs, 76% incomings)	87
Funded by AWARE (DAAD-Strategic	partnerships)	32%
Further (THI, UFSC, UFPR, FA, FAPE	SC, further DAAD, industry, etc)	68%







TEACHING

RESEARCH

TRANSFER & THIRD MISSION

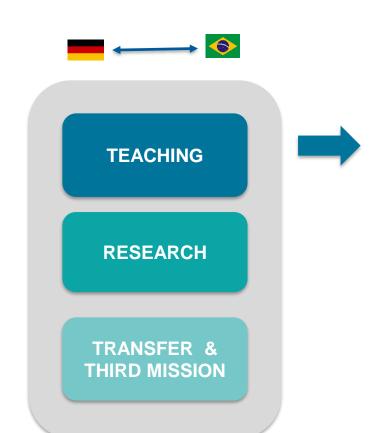
Summer Schools

- THI International Automotive Summer
 School: High Participation from
 UFSC and UFPR students since 2013
- AWARE Automotive Summer/Spring
 School in Brazil 2014, 2016, 2018
- AWARE Autumn School on Industry4.0 at THI in 2018





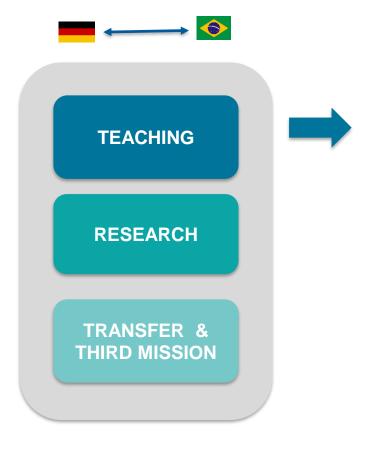




Guest lectures (and trainings) in Brazil (esp. via AIM project) + guest lectures at THI on mechanical & electrical engineering and business studies

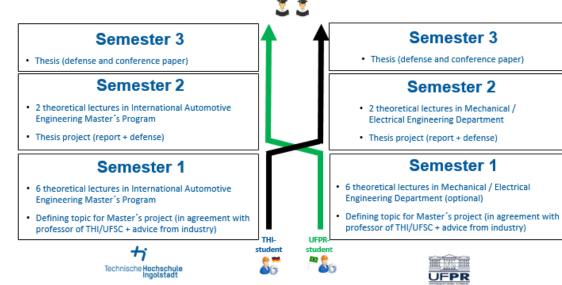






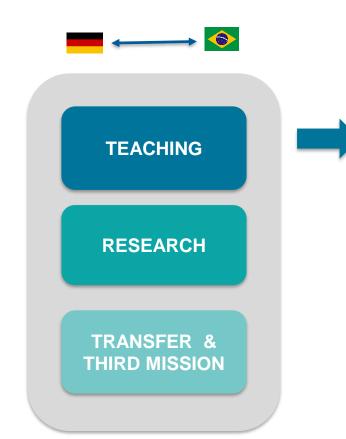
Double Degree Program with UFPR and UFSC

14 students involved until now









New project AIM (2018-2021):



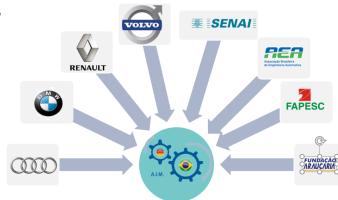
- Impetus for (automotive) application-oriented education in Brazil (UFPR&UFSC) With financial support from the
- Funding: 200.000€

 DAAD



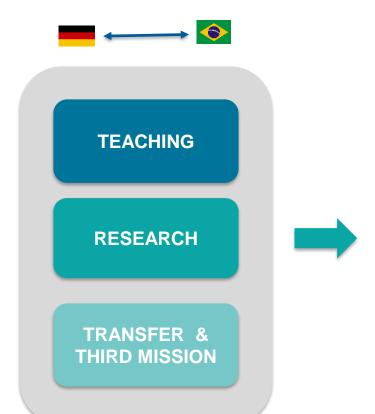


Partners:







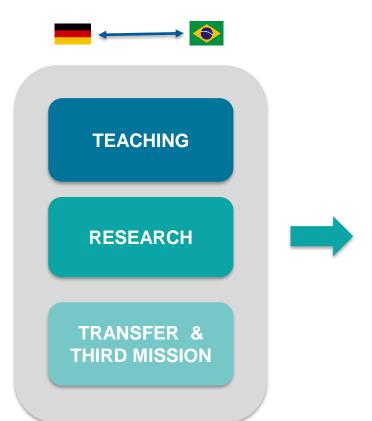


6 established research groups (since 2013)

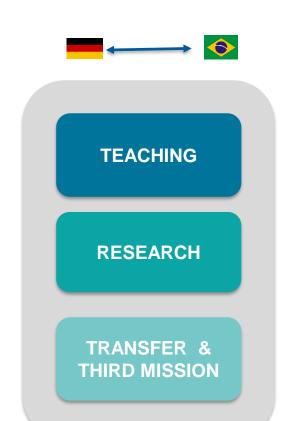
- Prof. Huber (THI) & Prof. Parente (UFPR): Joint PhD (Simulation-based Testing:
 Benchmarking for environmental sensors and data fusion algorithms for autonmous driving)
- Prof. Tetzlaff (THI) & Prof. Graf (UFPR) & Prof. Fredel (UFSC)
 THI-UFSC: Joint PhD (Improving high temperature properties of Metal Matrix Composites)
 THI-UFPR: Master Student exchange (Laser Cladding for Disk Brakes) 1 outgoing
- Prof. Schweiger (THI) & Prof. Waltrich/ Impinisi (UFSC/Lactec): PhD student exchange (safety aspects of high-voltage battery systems) – 1 outgoing
- Prof. Bienert (THI) & Prof. Bavastri (UFPR): Double Degree student exchange (passive vibration control) 2 incomings
- Prof. Navarro (THI) & Prof. Aoki (UFPR):
 Master student exchange in the field of energy storage and transmission 3 outgoings, 1 incoming
 Joint research projects between LACTEC research institute and Master students of the THI Master
 "Renewable Energy Systems"
- Prof. Knoppe (THI) & Prof. Welzel (UFSC) & Prof. Tutui (Senac)
 Joint research workshop THI-Senac in New York
 Master Student exchange in Retail Management 2 outgoings







- Several scientific publications
- Prof. Zimmer (UFPR) as CARISSMA Research
 Professor at THI (since Nov 2017)
- 4 Brazilian scientists researching in full employment at THI (since 2017)
- 6 Brazilian Master Students in CARISSMA
 Research Team of Prof. Zimmer (2018+2019)



eMobility Forum (since 2013):

Annual event with students' racing teams from THI and UFSC meeting alternately either in Brazil or Germany





Invitation

First eMobility Forum Ingolstadt Brazil

23/09/2013 - 27/09/2013



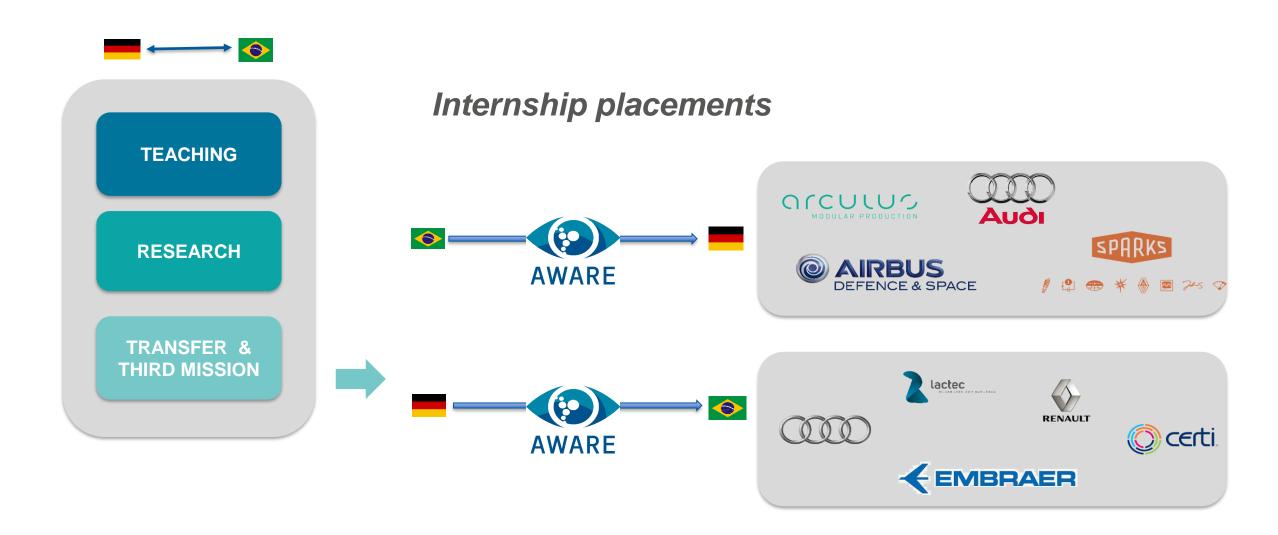














TEACHING

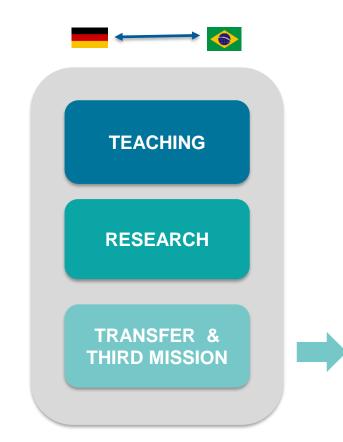
RESEARCH

TRANSFER & THIRD MISSION

"U4i-Workshop" at UFSC, Joinville

- 40 industry representatives
- Scientific lectures regarding future trends in the automotive field
- Discussions regarding the future of industry-university-cooperation







PR:

- Two AWARE Publications (2013-2016, 2017-2019)
- Own website: <u>www.aware.thi.de</u>
- Newsletter: Subscribe! (e-mail to <u>zaf@thi.de</u>)



TEACHING

RESEARCH

TRANSFER & THIRD MISSION

Third Mission:

AWARE at SEPEX

Week in Florianópolis

Presentation of CARISSMA

virtual reality glasses by

research assistant from THI

= transfer of results from

university to public

