



IMAT
INTERNATIONAL
MATERIAL FLOW MANAGEMENT

Joint Education, Research and
Technology Transfer for Circular Economy

IMAT – the guiding principles



- International, Interdisciplinary and Innovation
- Study topic: Financial, organisational and technological implementation of Zero Emission and Circular Economy Systems
- IMAT's as Change Agents for global challenges
- Combining education and export promotion



IMAT History: From the start to the global network



2003: Cooperation in INWENT teaching program for Latin America

2004: Inauguration of IMAT MSc under the patronage of German environmental Minister

2006: Start of first IMAT (MEng) dual degree program supported by DAAD

2008-2012: Extension of the IMAT network to Brazil, Morocco and Turkey

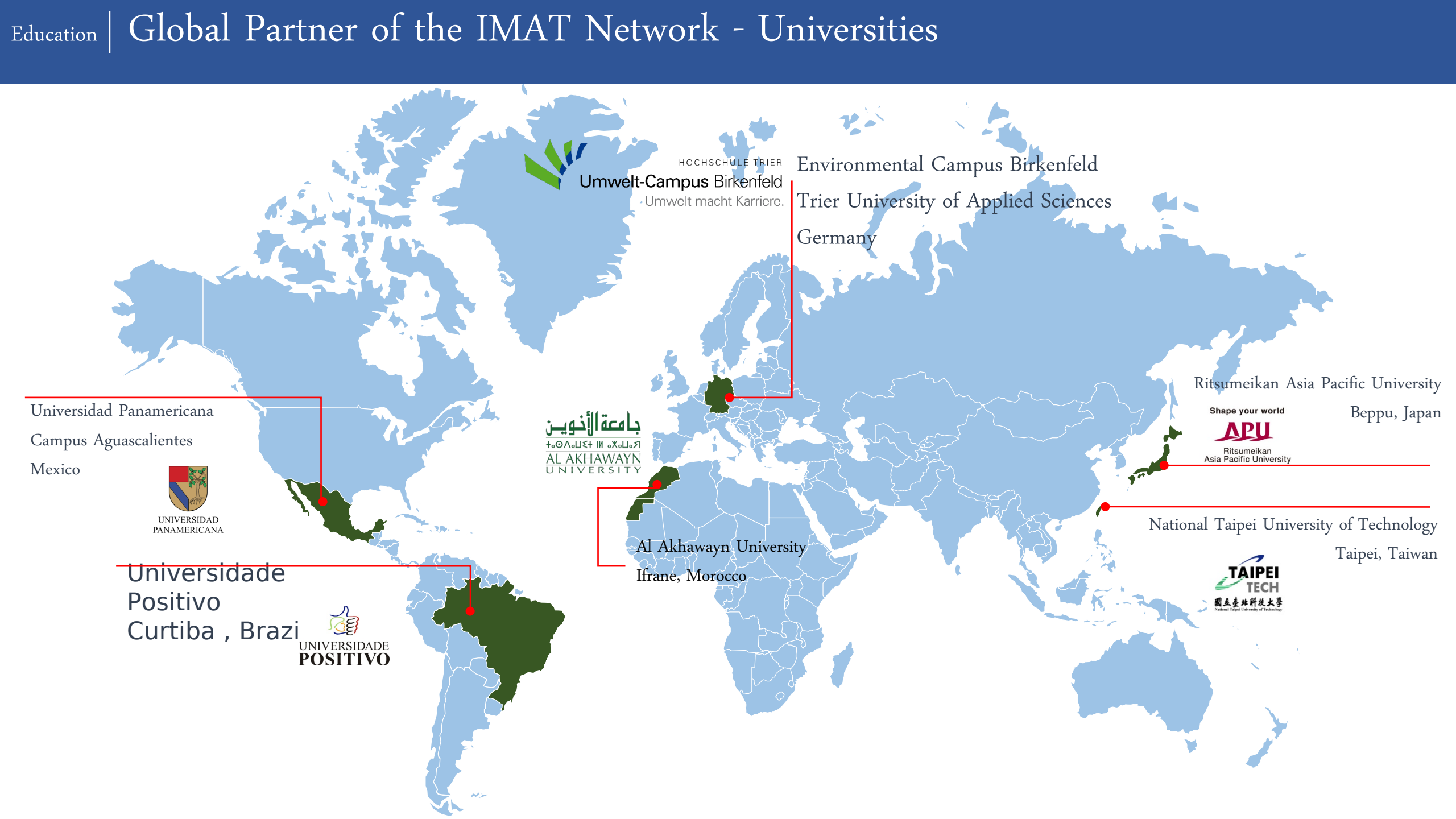
2015-2018: Creation of IMAT multi degree program supported by DAAD & Signing of the IMAT ZE Campus Initiative

2019: Inclusion of new partners from India and Oman and Africa Exceed

Future: Cover each region with a IMAT hub university

History in pictures – do you recognize your partner;-)





Education | Global Partner of the IMAT Network - Universities



Umwelt-Campus Birkenfeld

Umwelt macht Karriere.

HOCHSCHULE TRIER

Environmental Campus Birkenfeld

Trier University of Applied Sciences

Germany

Universidad Panamericana
Campus Aguascalientes
Mexico



Al Akhawayn University
Ifrane, Morocco

Ritsumeikan Asia Pacific University
Beppu, Japan

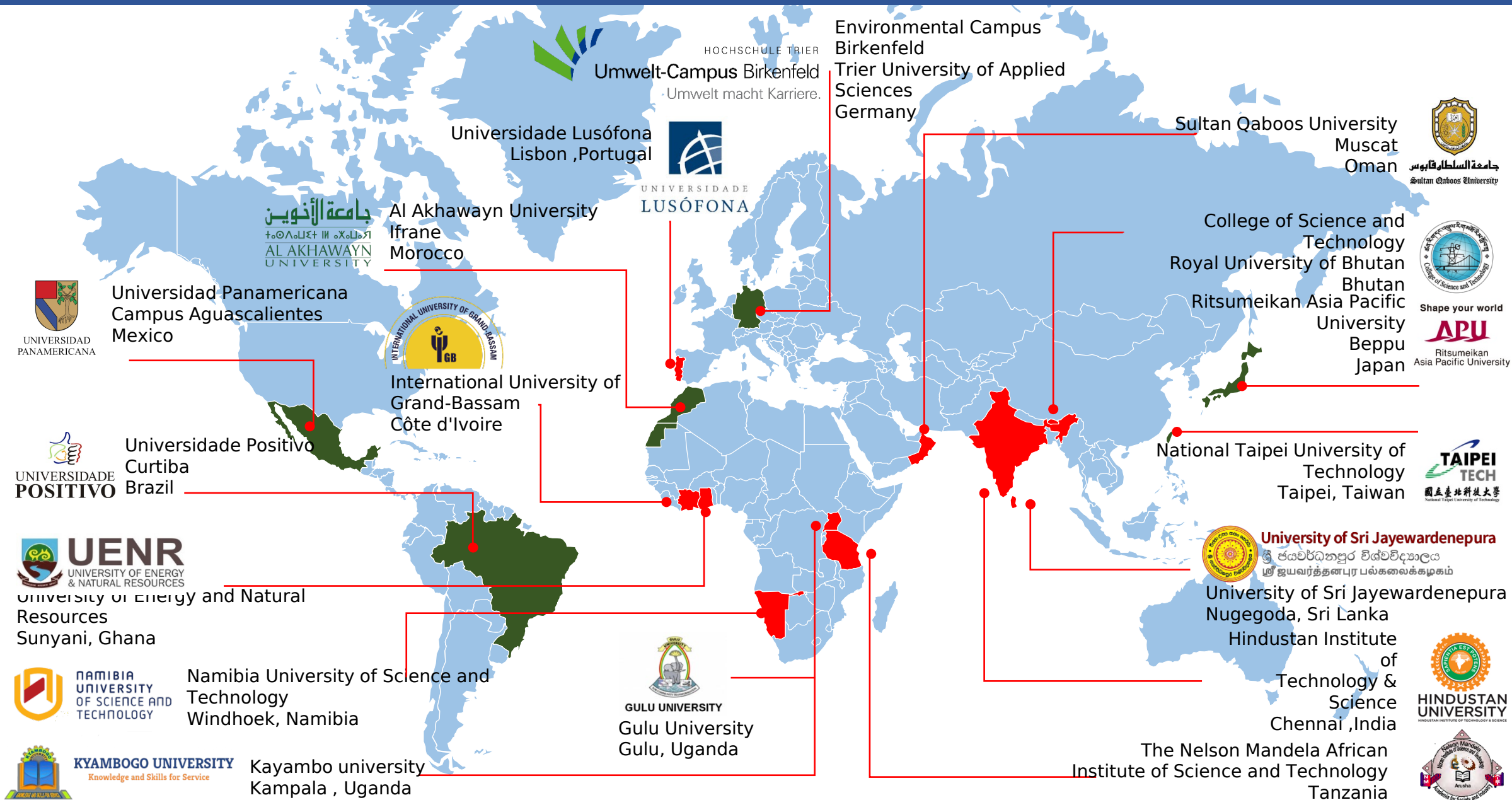


Universidade
Positivo
Curtiba , Brazi



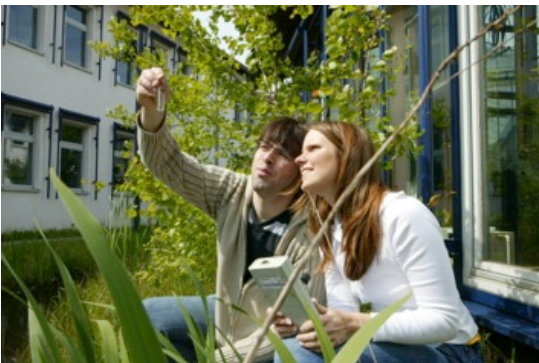
National Taipei University of Technology
Taipei, Taiwan





IMAT – Interdisciplinary MFM

- Tool kit of (industrial & regional) Material Flow Management
- Natural Science (Eco-System Management)
- Engineering Science (Energy, Water, Resource)
- Social Science (Intercultural Communication)
- Business Administration (Business Planning)
- Political Science (International CE Policies)
- Climate Change & GHG abatement



Practice the theory

- Teaching by international IfaS case studies
- Teaching at unique ZE technology sites
- Practical research project development
- International management seminar (**TU**)
- Practical internships and master thesis
- Combining policy AND technology export with education



IMAT = Product of Germany



- IMAT study programs were inaugurated under the patronage of the German Federal Minister of Environment in 2004
- German–Japanese IMAT program was supported by the German Federal Ministry of Education and Research (BMBF) / German Academic Exchange Service (DAAD)
- Registration as UNESCO Education Project
- Supported by the State Government of Rhineland-Palatinate

Nachhaltigkeit lernen



Offizielles Projekt
der Weltdekade
2011 / 2012



Federal Ministry for the
Environment, Nature Conservation
and Nuclear Safety



Federal Ministry
of Education
and Research

DAAD

Deutscher Akademischer Austausch Dienst
German Academic Exchange Service

4. Sem.

Practical Application – Internship and Master Thesis
[Globally in Industry, (N)GO, Research]

3. Sem.

“Climate Protection and Regional Economic Growth”
[Sustainable Energy Systems, Bio-Economy, Resource and Water Technologies
(Case Studies on International MFM projects)]



1.-2. Semester

“Courses of Global Interest”

[Joint Far-Distance Teaching & MOOCs & Traveling University:
Zero Emission Development Concepts]

**Sustainability
Management at
SEA**

[Japan]

**Water and
Industrial
Management**

[Brazil]

**Renewable
Energy
Management**

[Morocco]

**Efficiency &
Building
Automation**

[Mexico]

**Urban Design
and
Development**

[Taiwan]

**Future
IMAT
university partner**

IMAT Foundation Courses

[Environmental Science / Business Management and Finance
Climate Change and GHG abatement]



**IT ALWAYS SEEMS IMPOSSIBLE
UNTIL IT'S DONE.**

Vielen Dank!

Dr. Michael Knaus

Institut für angewandtes Stoffstrommanagement (IfaS)

Umwelt-Campus Birkenfeld

Campusallee

55768 Hoppstädten-Weiersbach

Telefon: +49 6782 17-1583

m.knaus@umwelt-campus.de