



Stabilitätspakt für Südosteuropa  
Gefördert durch Deutschland  
Stability Pact for South Eastern Europe  
Sponsored by Germany

**DAAD**

Deutscher Akademischer Austausch Dienst  
German Academic Exchange Service



# **DYNET – An Education Programme within the framework of the Stability Pact for South Eastern Europe**

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# DYNET

DAAD  
Deutscher Akademischer Austausch Dienst  
German Academic Exchange Service

Network in Civil Engineering for Teaching and Research in Structural Dynamics



## Cooperation in Teaching

### Young Researchers Exchange Program

- Bosnia & Herzegovina
- Macedonia
- Serbia & Montenegro



- Aachen
- Bochum
- Kassel
- Weimar

### Master Program Computational Engineering

- Bochum



- Bosnia & Herzegovina
- Bulgaria
- Macedonia
- Rumania
- Serbia & Montenegro

### Master Program Computational Engineering

- Belgrad/Nis



- Aachen
- Bochum
- Kassel
- Ohtayama
- Weimar

### Master Program Earthquake Engineering

- Skopje



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[www.dynet.edu.mk](http://www.dynet.edu.mk)

- Workshops:
- For Young Engineers
  - For Improvement of Teaching
- Current Research Projects:
- Earthquake Engineering
  - Applied Computer Science

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# Introduction

## ▶ **Problem:**

- ▶ A decade of devastating conflicts in South East Europe in the 1990s.
- ▶ Still smouldering conflicts.
- ▶ Poverty as basic evil in the countries.
- ▶ Especially research and higher education come a long way down the list of priorities.
- ▶ Exodus of university professors and researchers („brain drain“).

## ▶ **Approaches for Solution:**

- ▶ Reforming higher education to stop the brain drain.
- ▶ Strengthen the academic reconstruction with young people.
- ▶ Reconvene the collaboration in the European environment.
- ▶ Integrate the educational system into the Bologna Process.

# Framework I – Stability Pact for South Eastern Europe



**STABILITY PACT**  
FOR SOUTH EASTERN EUROPE

[www.stabilitypact.org](http://www.stabilitypact.org)

## ▶ **About the Stability Pact**

- ▶ replacement of the previous, reactive crisis intervention policy in South Eastern Europe with a comprehensive, long-term conflict prevention strategy
- ▶ integration of all countries of the region into Euro-Atlantic structures
- ▶ adopted at the German's initiative on the conference of the European Ministers of Foreign Affairs in Cologne on June 10th 1999
- ▶ reaffirmed at the summit meeting in Sarajevo on July 30th 1999
- ▶ since 1999 support of SEE countries with more than 25 Billion Euro

## ▶ **The Stability Pact partners**

- ▶ The countries of the South Eastern European (SEE) region
- ▶ The European Union Member States and the European Commission
- ▶ Other countries: Canada, Japan, Norway, Russia, Switzerland, Turkey, USA
- ▶ International organisations: UN, OSCE, Council of Europe, UNHCR, NATO, OECD
- ▶ International financial institutions: World Bank, International Monetary Fund (IMF), etc.
- ▶ Regional initiatives: Central European Initiative (CEI), etc.

# Framework I – Stability Pact Member Countries of the SEE region

**Croatia**



**Bosnia & Hercegovina**



**Serbia & Montenegro**



**Albania**



**Moldova**



**Romania**



**Bulgaria**



**Macedonia**



# Framework II – Stability Pact for South Eastern Europe



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[www.stabilitaetspakt-soe.de](http://www.stabilitaetspakt-soe.de)

## ▶ **The German contribution to the Stability Pact**

- ▶ **foundation member of the Stability Pact**
- ▶ **biggest donator in Europe, provided a special financing of 1.26 Billion Euro until 2004**
- ▶ **support of projects for stabilisation and integration into the EU**
- ▶ **The contribution of the German government is focussed on**
  - ▶ **reconstruction of infrastructure and housing**
  - ▶ **helping refugees to come back to their home land**
  - ▶ **stimulation of education**
  - ▶ **offering young people chances for better future**

# Framework III – Academic Reconstruction by DAAD

**DAAD**

Deutscher Akademischer Austausch Dienst  
German Academic Exchange Service

[www.daad.de/hochschulen/de/5.6.3.html](http://www.daad.de/hochschulen/de/5.6.3.html)

- ▶ **„Academic Reconstruction of South Eastern Europe“**
  - ▶ special DAAD programme financed by the German Ministry of Foreign Affairs in the framework of the Stability Pact for South Eastern Europe
  - ▶ annual programme budget of about EUR 3 millions
  - ▶ ongoing support of 41 partnerships between German and SEE universities
  
- ▶ **Programme objectives**
  - ▶ quick and sustainable improvements to the quality of university education
  - ▶ establishment of teaching and research networks
  - ▶ specifically-targeted support for young academically-qualified experts
  
- ▶ **Core subject areas**
  - ▶ engineering
  - ▶ information technology
  - ▶ agriculture and forestry
  - ▶ health and social sciences
  - ▶ law, economics and business studies

# The Starting Point of DYNET

## ► Proposal within the special DAAD programme in Spring 2000

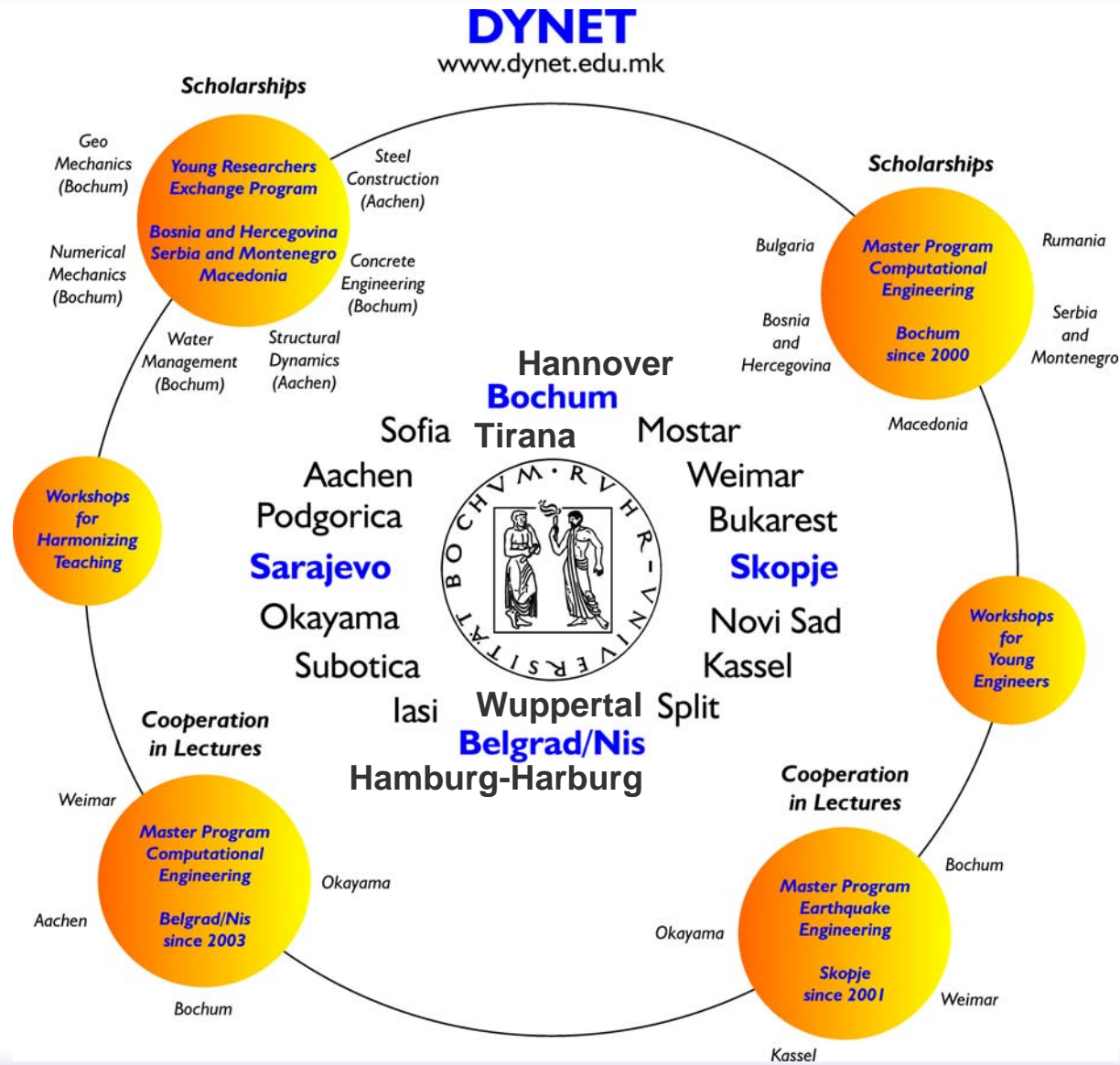
- ▶ Ruhr University Bochum maintained good relations to former Yugoslavia already in the 70s and 80s
- ▶ especially the Faculty of Civil Engineering cultivated scientific contacts to professors from Skopje (Macedonia), Sarajevo (Bosnia & Hercegovina), and Nis (Serbia & Montenegro).
- ▶ foundation of the network DYNET in 2000 on the initiative of Professor Günther Schmid, supported by DAAD with funds from the Stability Pact



## ► Master Course „*Computational Engineering*“, Ruhr University Bochum

- ▶ 2-years Master of Science Programme
- ▶ started Winter semester 2000
- ▶ DAAD scholarships for students from the SEE region:
  - ▶ **SEE students of the 1<sup>st</sup> generation (2000):**  
7 Serbia & Montenegro, 2 Macedonia
  - ▶ **SEE students of the 2<sup>nd</sup> generation (2001):**  
5 Serbia & Montenegro, 3 Romania, 1 Bosnia & Hercegovina, 1 Bulgaria

# DYNET partners at present



DYNET – An Education Programme within the framework of the Stability Pact for South Eastern Europe

# DYNET Activities I – Master Programmes

- ▶ **Master Course „Earthquake Engineering“, University Skopje, Republic of Macedonia**
  - ▶ operated by the Institute of Earthquake Engineering and Engineering Seismology (IZIIS)
  - ▶ 2-years Master of Science Programme
  - ▶ started Winter semester 2001
  - ▶ applicants from almost the whole SEE region and beyond
  - ▶ until now 75 students supported by DAAD scholarship



The Shaking Table  
at IZIIS



*The Institute of Earthquake Engineering and Engineering Seismology (IZIIS) was established in 1965 as an institution within the University „Ss Cyril and Methodius“, Skopje, Republic of Macedonia, to organize research and training in the area of earthquake engineering and engineering seismology. It has grown, in a relatively short period, into a recognized national and international institution. To meet the needs for specialists in this fields IZIIS, as International training Center, organizes postgraduate studies in various branches and at various levels.*

## DYNET Activities I – Master Programmes

### ► Master Course „*Computational Engineering*“, University Belgrade, Serbia and Montenegro

- operated by the Faculty of Civil Engineering
- 2-years Master of Science Programme
- started Winter semester 2004
- 5 students supported by DAAD scholarship in the 1<sup>st</sup> generation



Computer lab with Master students



*The Faculty of Civil Engineering University of Belgrade is the oldest faculty of civil engineering in this region, founded in 1863. It is located in the very centre of Belgrade, nearby the other technical faculties of the University of Belgrade. The Faculty of Civil Engineering has more than 2000 undergraduates, and about 130 faculty members. Faculty has 5 departments, for: Construction, Hydraulic, Management, Traffics and Geodesy. The postgraduate study for Master's degree was established in 1969.*

## DYNET Activities II – Workshops

### ▶ „Workshop for Young Engineers“

- ▶ young engineers present their recent Diploma and Master's Theses
- ▶ international conference with participants from SEE and Germany
- ▶ annual since 2002: workshops in Budva and Herceg Novi, Serbia & Montenegro
- ▶ 2005 in Vlora, Albania

### ▶ „Harmonizing Teaching“

- ▶ co-ordination and harmonisation of lectures and curricula
- ▶ main subject areas:
  - ▶ Structural Dynamics
  - ▶ Computer Science in Civil Engineering
  - ▶ Timber Structures
- ▶ regularly on demand



Workshop for Young Engineers, Herceg Novi, 2002

### ▶ Workshops with Specific Topics

- ▶ „Computational Structural Dynamics“, February 2001, IZiIS, Skopje

## DYNET Activities III – Further Programme Tools

### ▶ Exchange of Professors

- ▶ German professors to SEE, primarily to Skopje and Belgrade
  - ▶ lecture on special subjects
  - ▶ cultivate scientific contacts and information of students
- ▶ SEE professors to Germany, primarily to Bochum, Aachen, and Hamburg
  - ▶ get scientific contacts in Germany
  - ▶ have access to special literature
  - ▶ catch up on study curricula

### ▶ Young Researchers Exchange Programmes

- ▶ support of qualified Diploma and Master students within the DAAD „BiHSP“ programme (Sur-Place Scholarship Programme for Bosnia and Hercegovina)
- ▶ research stay in Germany for qualified students from Macedonia and Serbia & Montenegro with financial support through the Faculty of Civil Engineering, Bochum

### ▶ Financial Support for Materials

- ▶ technical equipment (laboratory tools, computer hardware, etc.)
- ▶ libraries (books, electronic journals, etc.)