

The **PROJECT** aims to bring students from the technology and innovation region Baden-Württemberg together with students from South Africa so that they can benefit from experience and knowledge regarding real-time geomatics at the two institutions. Today, geospatial tools facilitate incorporating geodata when making decisions to the extent that the use of geospatial tools has become natural to many. At the same time, ubiquitous use of smartphones and the Internet prompts participation. The goal of the project is to explore the differences and similarities in relevance and acceptance of citizen participation considering geodata in Europe and in Africa, and to start a long-term partnership and student exchange programme. Differences in the two university systems will be handled with the required flexibility.



Five **PROJECT GOALS** have been identified:

- **Promoting the partner universities** (UP, HsKA), their settings and profiles by means of summer schools.
- **Drawing up, signing and living an official partnership agreement** (HsKA – UP) for long-term manifestation of the project at both institutions.
- **Adaptation of the curricula** at HsKA and UP for a problem-free student exchange (targeting Geoinformatics Honours students to spend time at HsKA, and International Geomatics Master students to spend time at UP).
- **Establishing an intern exchange programme** with the help of local organizations in the public and private sector.
- Working on a **standard for jointly supervised research projects** by students.

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Baden-Württemberg-STIPENDIUM for University Students

With the Baden-Württemberg-STIPENDIUM for University Students the Baden-Württemberg Stiftung enables some 1,200 students a year from all over the world to study in a foreign country for a period of three to eleven months. The objective of the Baden-Württemberg-STIPENDIUM for University Students is to promote the international exchange of highly qualified German and foreign students. The scholarships are divided equally between applicants from Baden-Württemberg and from abroad.

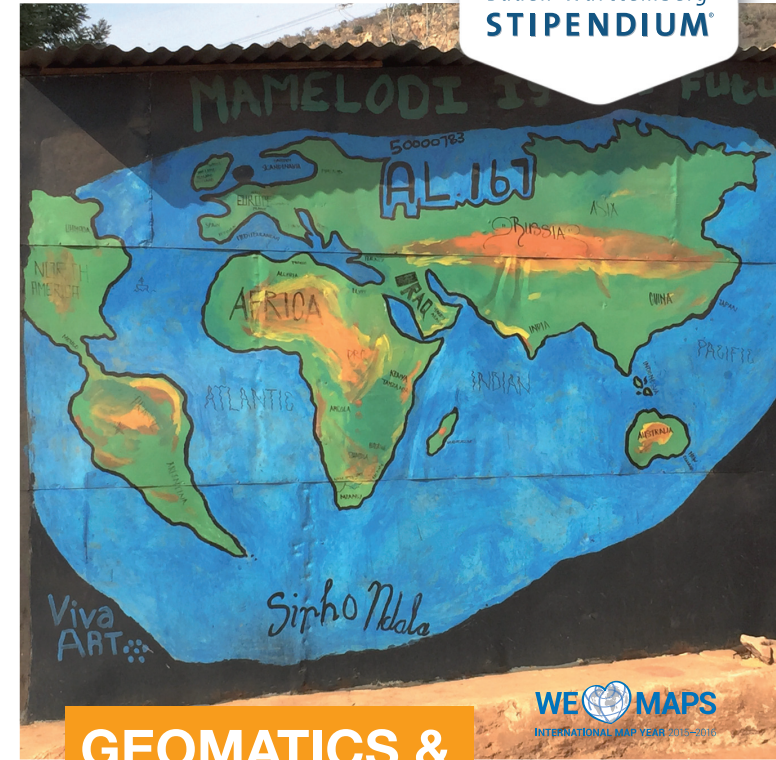
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Baden-Württemberg Stiftung

The Baden-Württemberg Stiftung advocates a vital Baden-Württemberg with a high quality of life for all its residents. It helps pave the way for advanced technological progress, high quality education, and a responsible relationship with fellow human beings. The Baden-Württemberg Stiftung is one of the major foundations in Germany. It is the only foundation which exclusively and above party lines invests in the future of the state of Baden-Württemberg – and thus in the future of its citizens.

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GEOMATICS & PARTICIPATION

study and research in the tension field between a European technology region and an African emerging country



PROJECT BACKGROUND

There is a need for geo(infor)maticians in Germany as well as in South Africa, that is, a need for professionals in the field of geodata processing with solid ICT and programming skills. As a rapidly developing field, Geomatics continuously presents new opportunities in engineering, management, economics and science. This includes the Web 3.0 development, which facilitates the use of geospatial tools and hence encourages citizens to participate and use those very tools. In the developed world, hypes tend to have a negative impact on citizen participation. In developing countries, however, there is a lot of potential for low-cost high-tech approaches. "Geomatics & Participation" is a project in the framework of the Baden-Württemberg-STIPENDIUM for university students – BWS plus, a programme of the Baden-Württemberg Stiftung.

MAIN PROJECT ACTIVITIES AND OPPORTUNITIES FOR STUDENTS

For initiating a sustainable cooperation between HsKA and UP we focus mainly on two measures:

- **Study and research trips for 8 under- and post-graduate students**, 4 from each university: to extend and train students' professional competencies, to promote inter-cultural experiences and thus stimulate appreciation for other societies.
- **2 summer schools on participatory sensing** with 16 participants: advertising the respective strengths in the geomatics field of the two institutions and testing of latest developments.

BENEFITS FOR THE STUDENTS

- **Raising interest among German students for study visits in Africa:** i.e. diminishing biased opinions about living and working in Africa.
- **Financial means for students from South Africa:** to experience Baden-Württemberg as an excellent study and research location with much know-how and great living conditions.
- **Individual support and programmes tailored to the needs of the individual student.**

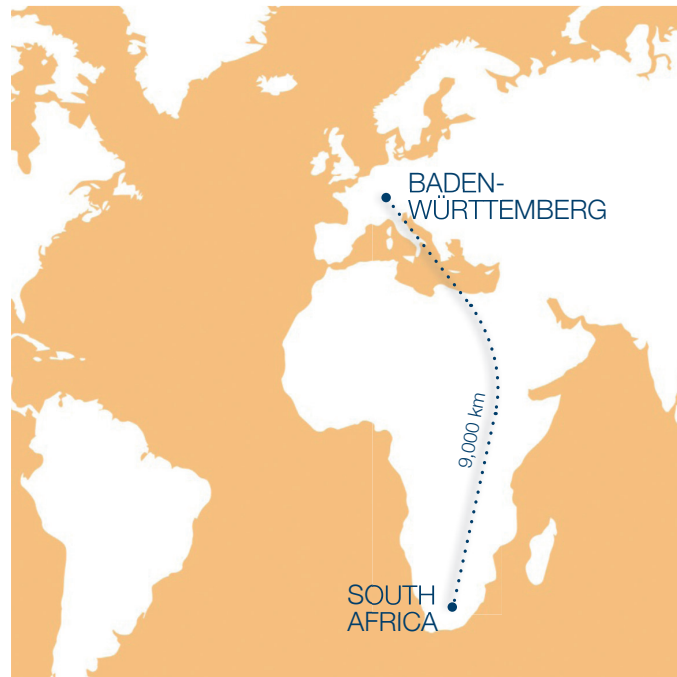
BADEN-WÜRTTEMBERG – SOUTH AFRICA

Baden-Württemberg is the most southwestern state of Germany, bordering France and Switzerland. It promotes itself as a European technology and innovation region. **South Africa** is the most southern country in Africa. It is commonly referred to as an emerging country on the Sub-Saharan African continent.

KARLSRUHE UNIVERSITY OF APPLIED SCIENCES (HsKA) – UNIVERSITY OF PRETORIA (UP)

HsKA is renowned for application-oriented education which leads to readily employable graduates. The Faculty of Information Management and Media (IMM) has particular strengths in the integrated application of GIS, remote sensing and visualization, e.g. in the environmental field.

UP is ranked among the top 10 universities in Africa and is a leading research-intensive university in Southern Africa. The Department of Geography, Geoinformatics and Meteorology, and more particularly the Centre for Geoinformation Science (CGIS), focuses its research on spatial infrastructures, addressing and geovisualization.



SUMMER SCHOOLS ON PARTICIPATORY SENSING

1st summer school in Karlsruhe

- Topic: **Environmental protection through citizen integration**
- Aim: to support opportunities for stronger citizen participation and active learning
- In Karlsruhe, **17-31 July 2016**
- 16 participants, incl. 6 students and 2 staff members from UP
- 1 week of field work in the nature conservation area 'NSG Rußheimer Altrhein'; 1 week of lab work at HsKA (EDC)
- Socializing programme, incl. a visit to Heidelberg and its famous castle

2nd summer school in Pretoria

- Topic: **Planning in informal settlements**
- Aim: to empower citizens to take responsibility through active participation
- In Pretoria, **second half of July 2017**
- 16 participants, incl. 6 students and 2 staff members from HsKA
- 1 week of field work in the 'Alaska' informal settlement in Mamelodi, Pretoria East; 1 week of lab work at UP (CGIS)
- Socializing programme, incl. a visit to Soweto and the Apartheid Museum or to the Pilanesberg Game Reserve