

# Africa-Europe Conference on Higher Education Collaboration, 25 October 2019, Brussels

## „Investing in people, by investing in higher education and skills in Africa“



# The Sandwich Model

International Science Programme (ISP) - Uppsala University, Sweden

## Programme Presentation

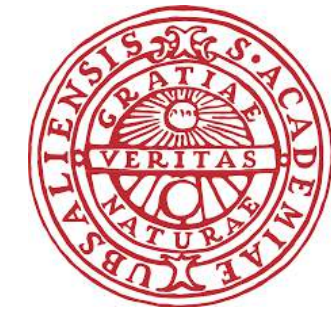
### Mission

Established at Uppsala University in 1961, ISP's mission is to strengthen the scientific knowledge, research capacity and postgraduate education in the basic sciences chemistry, mathematics and physics in countries where such capacity is non-existing or weak.

### The ISP model

ISP provides support to research groups and regional scientific networks at universities and research institutes in Africa, Asia and Latin America. The ISP model builds on:

- **Long-term funding** (decades) to enable capacity building and sustainability.
- **Local ownership** of the research agenda and the use of funds.
- Strengthening and establishing **sustainable local research environments**.
- **Research links** between supported groups and more resourceful research groups in the North or in the regions.
- **Sandwich postgraduate training** where the students travel back and forth between their home institution and the collaborating host institution abroad.



International Science Programme (ISP)

[www.isp.uu.se](http://www.isp.uu.se)



## The Sandwich Model - Features

The sandwich PhD is a middle way between the more commonly practiced full-time PhD programme carried out at home or abroad, with students moving back and forth between their home institution and a host institution in the North or in the South.

### Application of the model

The model aims to build human capacity and establish local PhD programmes. The model is applied as followed:

- When no degree program is available at the home university – students are registered with the host.
- Once the home university establishes a degree program – students register at home, but may still train at a better resourced host.
- When a degree programs is well established at the home university, most students train there.

### Pros with the model according to partners

- Provides students studying in less developed environments with access and exposure to more advanced training facilities, new cultures and international research collaborations.
- Provides a possibility to start up and continue research at the home university when returning from abroad and keeping the focus on local research problems.
- Creates enabling research environments at students' home universities by using allocated funds for equipping laboratories.

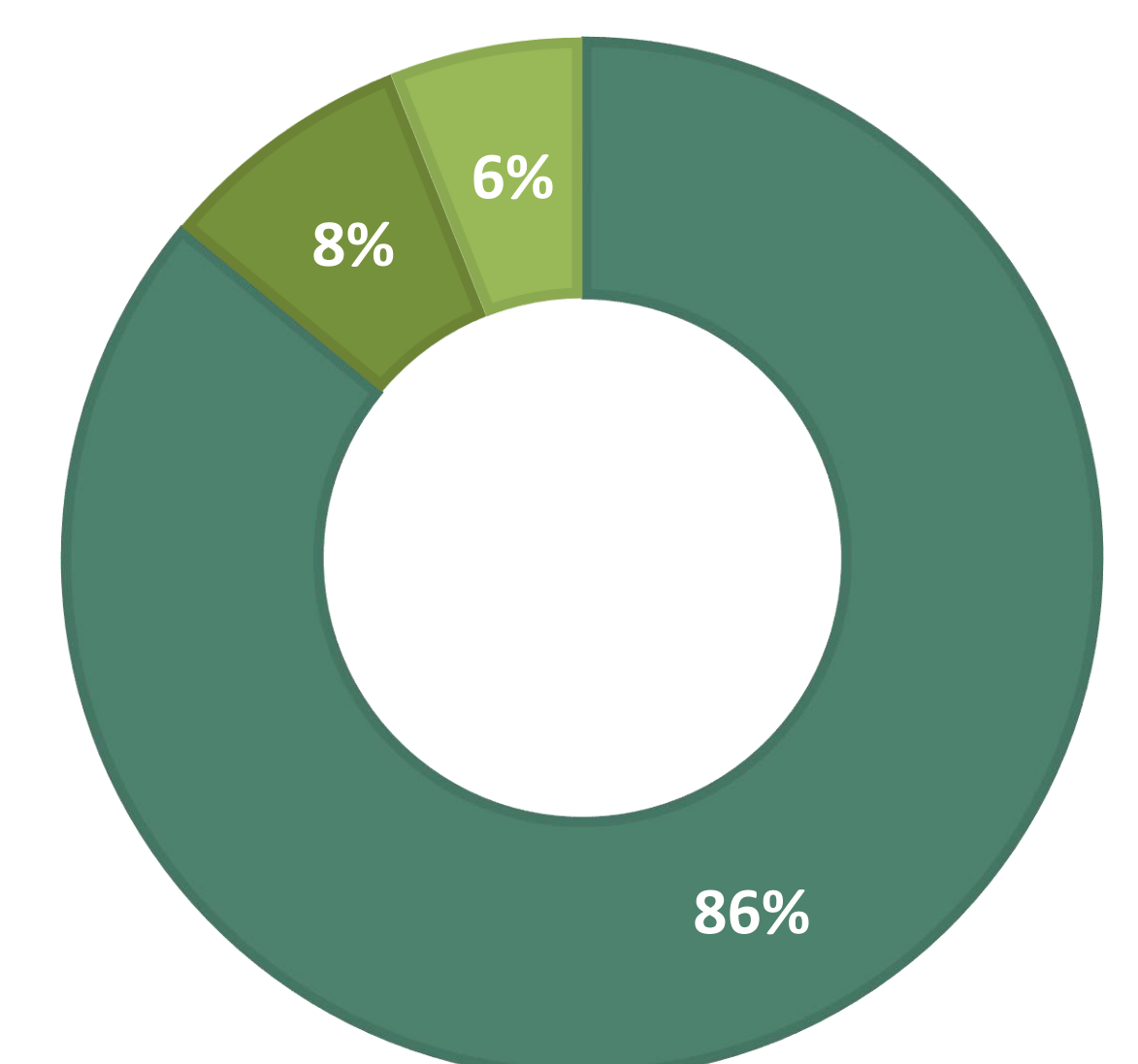
## Results of the Sandwich Model

### High return rate

In terms of developing domestic capacity for research and higher education, the retention of graduates at universities and research institutes in the home countries and regions is essentially the same for graduates from sandwich training programs as for those from local programs.

Recent ISP studies shows that 94% of the 404 PhD's graduated from ISP supported groups and networks 2008-2017 are working in their home countries (86%) and regions (8%). A majority are employed at universities or research institutes, actively conducting research.

■ Home countries ■ Home regions ■ OECD countries



### Success factors

Continued contact with the home institution throughout the postgraduate training, in combination with support to improve local facilities, are considered to be the two main contributing factors to why a large majority of the students from ISP supported groups and networks have remained in their home countries and regions after graduation.

### Establishment of local postgraduate programmes

Many ISP supported groups and networks have, through the sandwich model and the international research collaborations, successfully established quality MSc and PhD programmes at their departments.

## The Origin of the Sandwich Model

The initial idea of the sandwich program started to develop at ISP already in the late 1960s.

Year	Africa	Int. Seminar in Uppsala	Actions
1968	Stick figure	Come to International Seminar	Prof. contacts int. Sem. resp. Physics Dept. "Project Manager", No. 1, prepared, also No. 2 in the project. Ex-research leader and future expert.
1969	Theoretical and administrative preparations	Research and planning	No. 1 joins the Seminar No. 2 starts preparations at home department.
1970	Experimental preparations	Research and equipment inspection	No. 2 joins the Seminar and the Africa equipment is set up. No. 1 joins the Seminar No. 3 in the particular field, mainly literature studies.
1971	Research training	Research training	No. 3 joins the Seminar and No. 2 receive the equipment and start to set it up.
1972	Stick figures	Stick figures	Swedish expert joins the group in Africa and research can start.
1973	Stick figures	Stick figures	Research and degree studies under way in Africa. No. 1 back to Uppsala for development studies.

## Meet Sandwich PhD Graduate Stella Kioko from Kenya



## Learn More

### The Sandwich Model - A Successful Case of Capacity Building



## Contact Information

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