

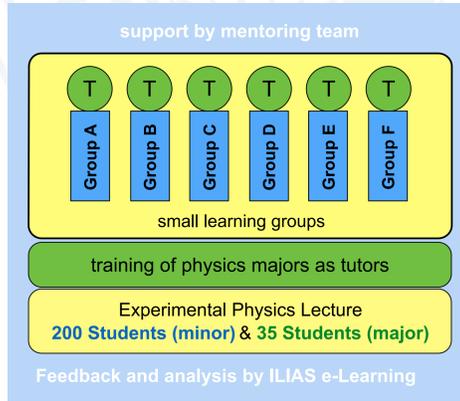
# Models and Perspectives of International Student Exchanges in Teacher Education

**Motivation/  
Foundation**

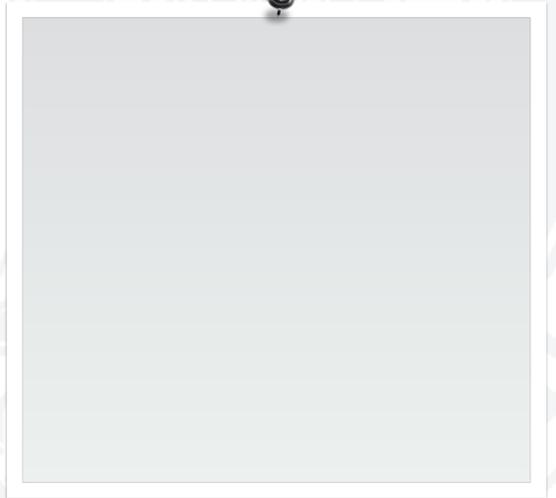


Our Goal is to establish a U.S.-German exchange program for STEM teacher preparation courses that implements a network of universities and their cooperating schools. Goals are to make STEM education a more attractive field of work, balance the supply and demand of qualified STEM teachers, and foster cross-cultural research in the PER community.

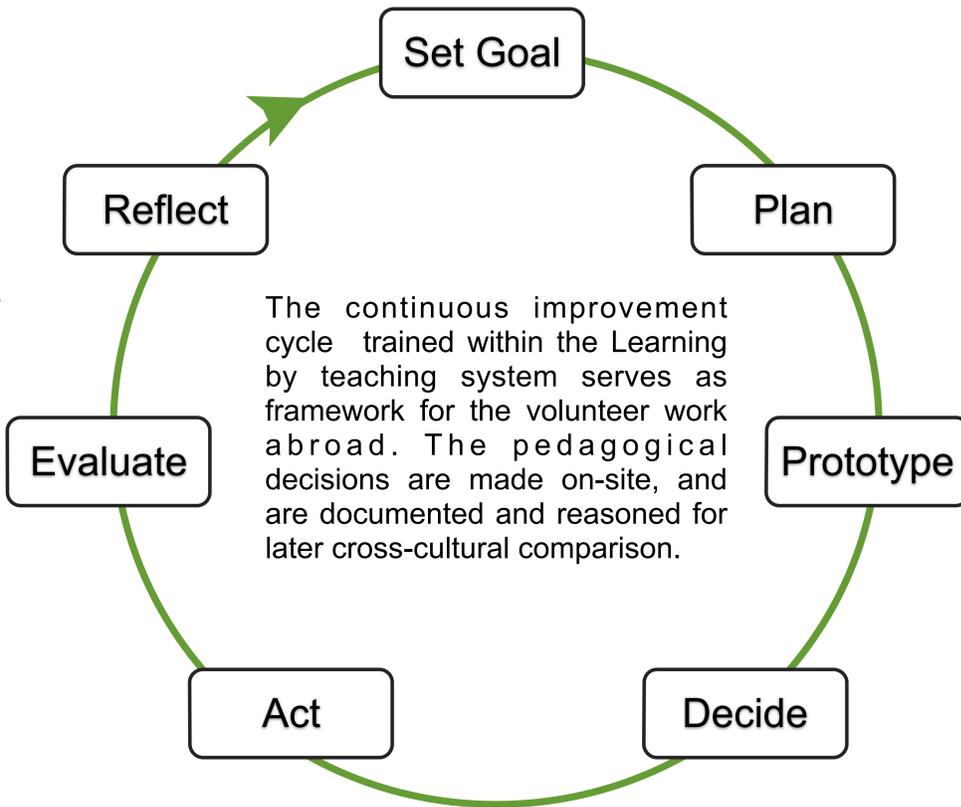
Physics Majors in University of Cologne are trained towards an **innovative and analytical attitude**. Within the blended-Learning environment „Learning by teaching“, they make evidence-based decisions, conduct lessons in small learning groups, document the process and discuss and analyze the outcome with a mentoring team. Their portfolios and reflections serve as selection criterium for a grant to volunteer in U.S. Schools



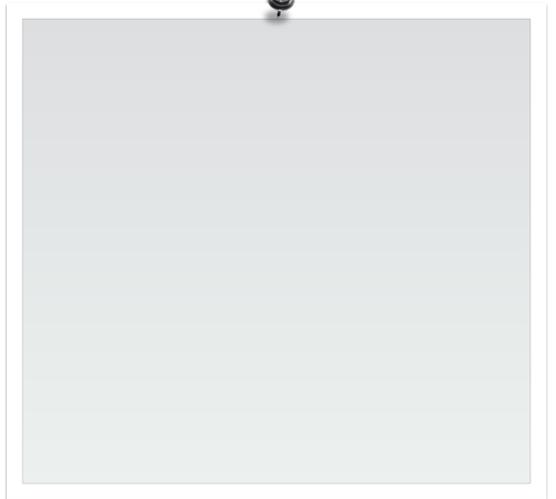
What would YOU expect from a transatlantic training and research network for PER?



**Constructive  
Framework**



What is your opinion towards Design Based Research in PER?



**Reflection**



Students in Cologne conceive video reports in „Internationalization@home“ seminars and work to support the student abroad with planning, prototypes, media, software and theory.

Students abroad send weekly video reports to University of Cologne, discussing actual demands of the next physic lessons and reflecting the outcome of former efforts.



Video-reports, Media, methods and analysis become part of the student's **international portfolio**.

In your opinion, what is the main advantage the students will gain of the exchange?

