# PROFILES 1st International Conference PROFILES on Stakeholders Views - Monday





Peter Gray – Norwegian University of Science & Technology Trondheim Inquiry Based Science Education in Europe: Setting the Horizon 2020 Agenda for Educational Research?

Ilmārs Rikmanis (Latvia)

A Teacher's views on Inquiry Based Science Education







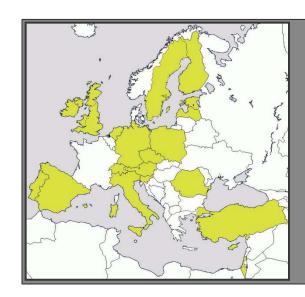








#### 1st PROFILES International Conference on Stakeholders Views



# PROFILES and the Philosophy of the Project

Claus Bolte and Jack Holbrook

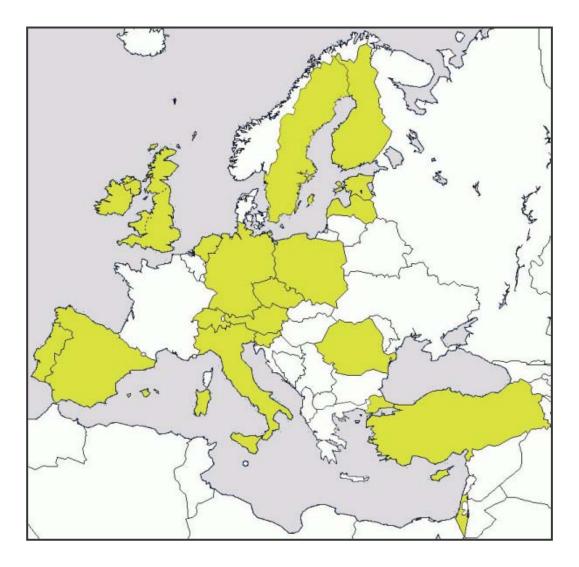




Berlin (Germany), 24th to 26th September 2012

### What is PROFILES?





### PROFILES is

- ... an European FP7funded project, and
- ... a co-operation in science education between19 institutions from 19 different countries









### Who belongs to PROFILES?





The PROFILES Consortium consists of Freie Universitaet Berlin (Coordinator, Germany); University of Tartu (Estonia); Weizmann Institute of Science (Israel); Universitaet Klagenfurt (Austria); Cyprus University of Technology (Cyprus); Masaryk University Brno (Czech Republic); University of Eastern Finland (Finland); University College Cork (Ireland); University of Universita' Politecnica delle Marche (Italy); University of Latvia (Latvia); Utrecht University (The Netherlands); University of Maria Curie-Sklodowska (Poland); University of Porto (Portugal); Valahia University Targoviste (Romania); University of Ljubljana (Slovenia); University of Vallalodid (Spain); University of Applied Sciences Northwestern Switzerland (Switzerland); Dokuz Eylul University (Turkey); Universitaet Bremen (Germany); International Council of Associations for Science Education (ICASE, UK).



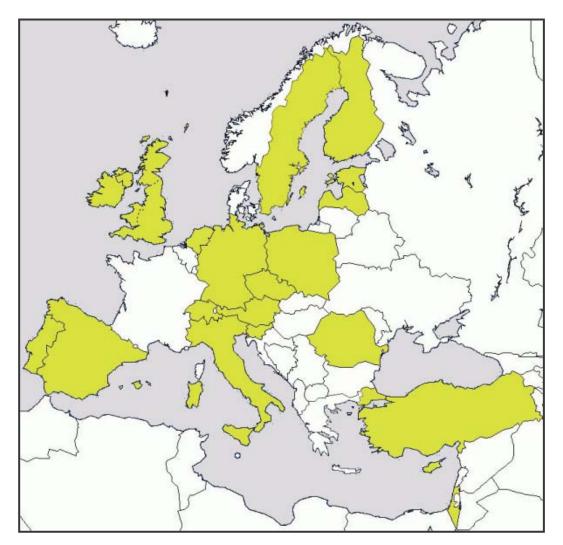






#### What is PROFILES?





- ... is an European FP7funded project, and
- ... is a co-operation in science education between 19 institutions from 19 different countries
- ... is the acronym for:
- Professional
  Reflection-Oriented Focus
  on
  Inquiry-based Learning
- and
- Education through Science









### The Philosophy of PROFILES The teacher and teaching



Professional Reflection-Oriented Focus on Inquiry-based Learning and Education through Science

P: Professional providing effective continuous professional development – CPD based on teacher needs.

ROF: Reflection-Oriented Focus
giving emphasis not only to science teachers
implementing PROFILES, but also reflecting on
their practices collaboratively









### The Philosophy of PROFILES The student and learning



Professional Reflection-Oriented Focus on Inquiry-based Learning and Education through Science

- **IL:** Inquiry-based Learning IBSE initiated from a science question and enac-ted as structured, guided or open inquiry learning
- ES: Education through Science recognises the need for student to develop in cognitive, practice, person and social aspects (science education is more than science content).



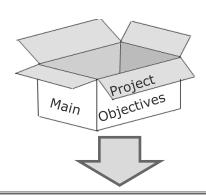






### Aims and Objectives of PROFILES





**Dissemination** of **IBSE** through innovative **Learning Environments** and (long-term) **Teacher Training** courses to raise self efficacy of science **Teachers** to take **Ownership** of more effective ways of science teaching to enhance **Students Gains** – supported by **Stakeholders**.

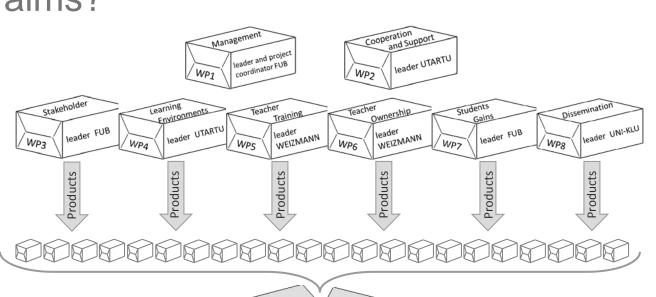


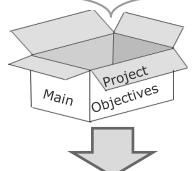






# How does PROFILES try to reach its aims?





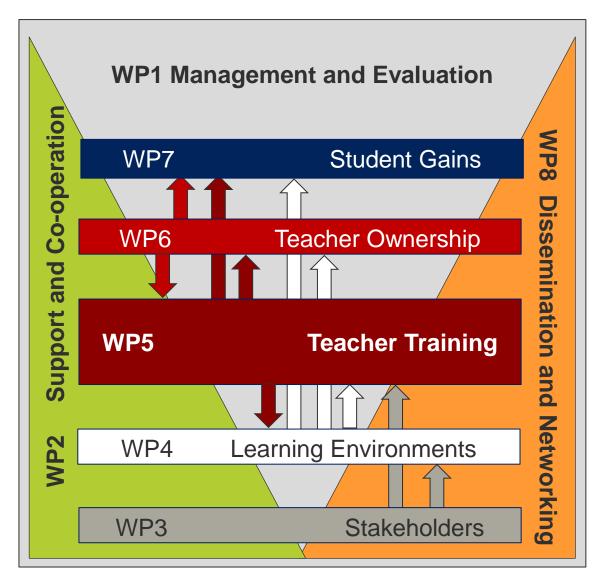
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- dissemination of
- Inquiry BasedScience Education(IBSE)
- learning environments and
- (long-term) teacher training courses
- raising self efficacy of science teachers to take ownership of more effective ways of teaching
- enhancing studentsgains
- supported by stakeholders.

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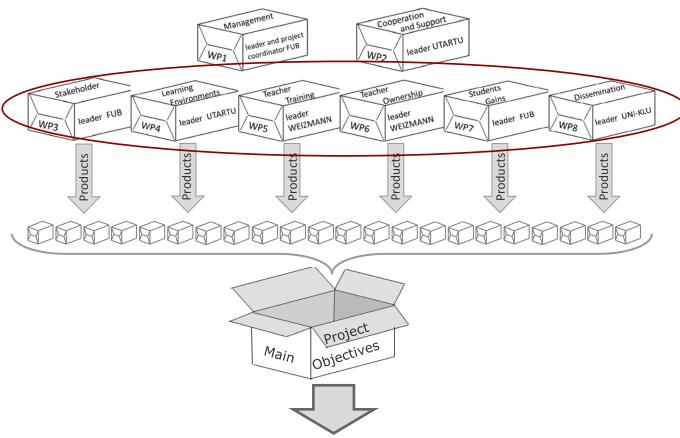






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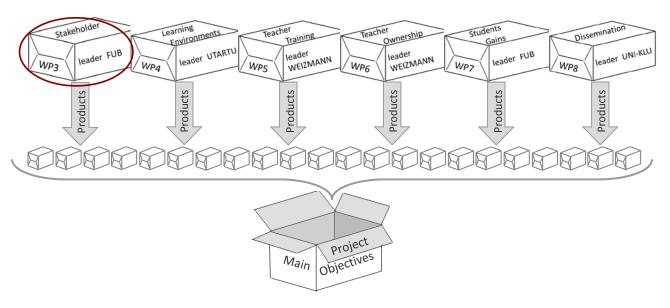






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Theresa Schulte and Claus Bolte European Stakeholders and Other Experts Views on IBSE

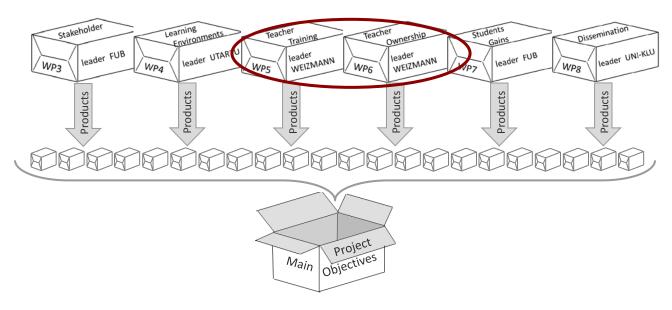








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Shirley Simon – Institute of Education, University of London (UK)

Effective Continuous Professional Development in Science Education

Funda Tunaboylu and Simge Akpullukcu (Turkey)

Being a PROFILES Teacher: A Teacher's view on Teacher Training and Continuous Professional Development

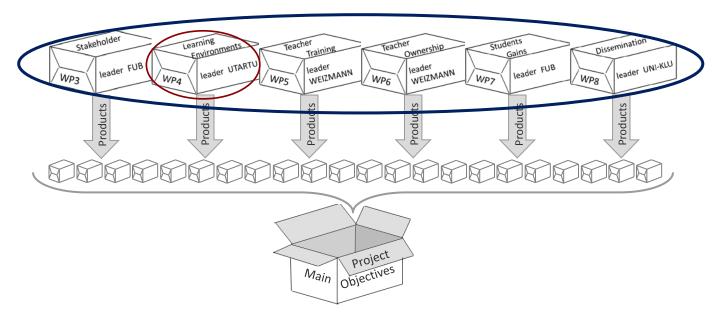








# PROFILES 1st International Conference PROFILES on Stakeholders Views - Monday



Miia Rannikmae and Jack Holbrook Innovative Inquiry-based Science Learning Environments in the Framework of PROFILES

Friends of PROFILES – 45 Posters reflecting Inquiry-based Science Education in Europe



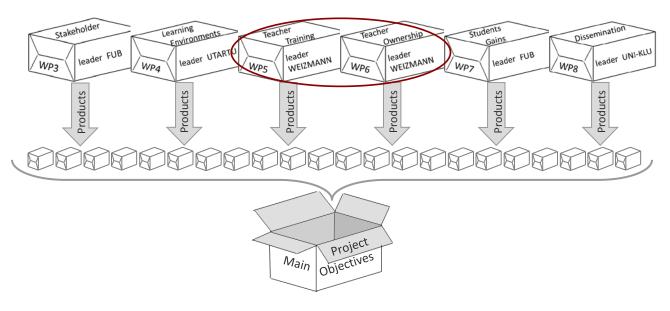






# PROFILES 1<sup>st</sup> International Conference on Stakeholders Views - Tuesday





Avi Hofstein and Rachel Mamlok Teachers' Ownership: What is it and how is it Developed?

Friends of PROFILES – 10 Workshops recommending how to develope teacher ownership in line with PROFILES



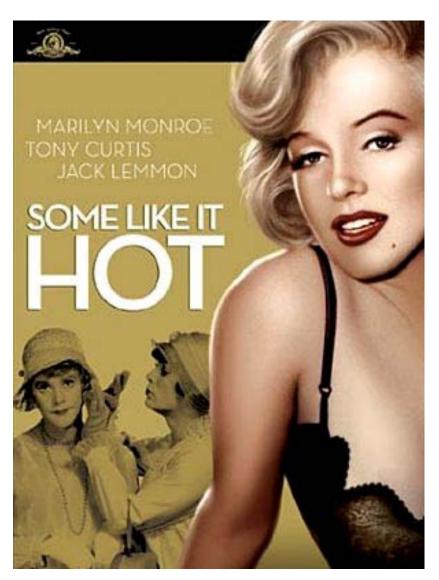






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Prof. Klaus Roth – Freie Universität Berlin – Germany



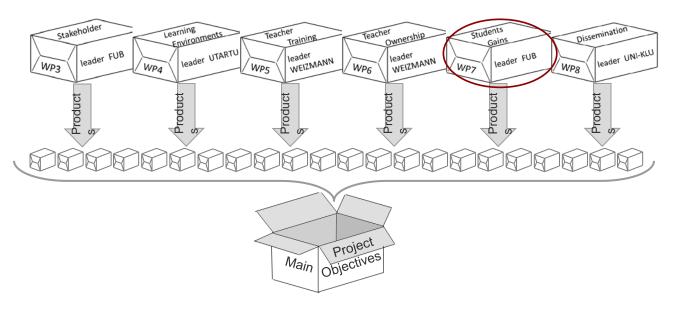






# PROFILES 1<sup>st</sup> International Conference on Stakeholders Views – Wednesday





Olaf Köller – Institut für die Pädagogik der Naturwissenschaften Kiel Towards Relevance, Students (Intrinsic) Motivation, Learning Outcomes and Student Gains

Chrystalla Lymbouridou (Cyprus)

Student s (intrinsic) Motivation, Learning Outcomes and Gains



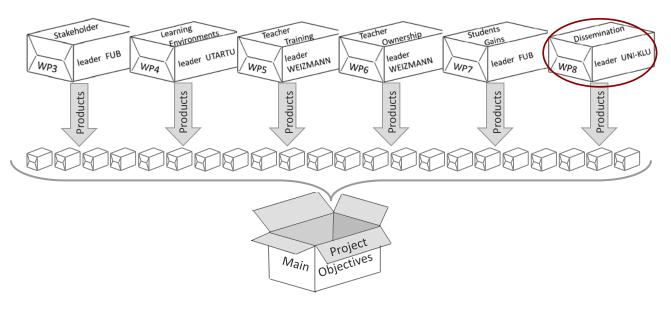






# PROFILES 1<sup>st</sup> International Conference on Stakeholders Views – Wednesday





Franz Rauch, Jack Holbrook, Claus Bolte How to Involve Stakeholders in IBSE Networks and Networking within PROFILES









# PROFILES 1<sup>st</sup> International Conference on Stakeholders Views - Wednesday





### Wolfgang Gräber

 Institut für die Pädagogik der Naturwissenschaften Kiel – Germany
 PROFILES: Some Ideas and Comments

#### Peter Childs

University of Limerick – Ireland
 Reflections on Advancement and
 Problems to Realize IBSE on a Large
 Scale





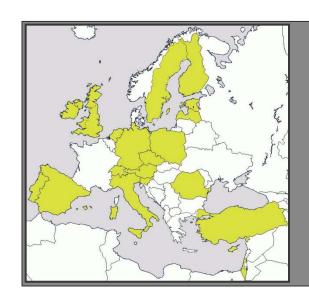








#### Claus Bolte and Jack Holbrook



# PROFILES and the Philosophy of the Project

### Enjoy the PROFILES Conference



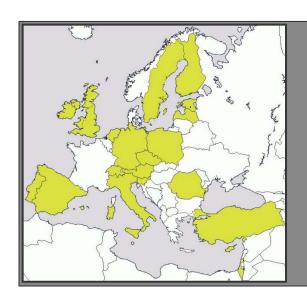


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Berlin (Germany), September 2012





### Coming next: Theresa Schulte and Claus Bolte



# European Stakeholders and other Experts Views on IBSE







Professional Reflection-Oriented Focus on Inquiry-based Learning and Education through Science

Professional

ROF: Reflection-Oriented Focus on

Inquiry-based Learning and

ES: Education through Science





