## THE STINT SUMMER SCHOOL 2017 – WHAT DID WE LEARN?

#### Heidi Hansson, Deputy Vice Chancellor, Umeå University



## WHY DO UNDERGRADUATES NEED RESEARCH SKILLS?



- knowledge society
- fluid knowledge
- societal change
- lifelong learning

UMEÅ UNIVERSITY



scholarly mindset

#### DISCIPLINE-SPECIFIC RESEARCH SKILLS





# "THE HEALEY MODEL"

Student-focused Student as participants



Teacher-focused Students as audience  Mick Healey, "Linking research and teaching exploring disciplinary spaces and the role of inquiry-based learning," R. Barnett, ed., *Reshaping the university: new relationships between research, scholarship and teaching* (McGraw-Hill/Open University Press, 2005) 67-78



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# **CASE STUDIES**

- Bioengineering program at Nanyang Technological University
- curriculum organised from research-led foundation courses to progressively more research-based courses

 Student-led conference in clinical psychology at Örebro University



• developing "soft research skills"



# **EVALUATION REPORT**

- Insufficient familiarity with relevant methodology and formal requirements
- Insufficiently developed analytical skills and inadequately defined research questions
- Weaknesses in demonstrated ability to identify problems in a well-defined, scholarly manner and to address and discuss the selected issues and reach conclusions



## TOWARDS A DEFINITION OF RESEARCH-BASED EDUCATION

- current and relevant research results
- generic skills needed to perform scientific enquiries
- ability to understand, evaluate and use academic methods and knowledge
- ideally, all learning should take place in or close to active research environments



# CHALLENGES AND QUESTIONS

- Students tend to ask for links to their future professions rather than links to research. Professional and vocational programmes and the question of license in certain professions?
- Increased quality increased workload? How do we convince teachers to invest the time necessary to move towards a stronger research focus in their teaching?
- How do we meet the costs of including active research tasks in our courses?
- Students teachers administrators leadership who should be targeted? In what way? How are links between education and research promoted or blocked through policies on different levels?
- Who should be in charge of evaluating and or monitoring developments?
- What is lost if we fail to connect our teaching to research?



