



**Presented at the FIG Working Week 2017,  
May 29 - June 2, 2017 in Helsinki, Finland**

# ***Land Surveying Education in Sweden***

***Märit Walfridsson  
Director of studies***

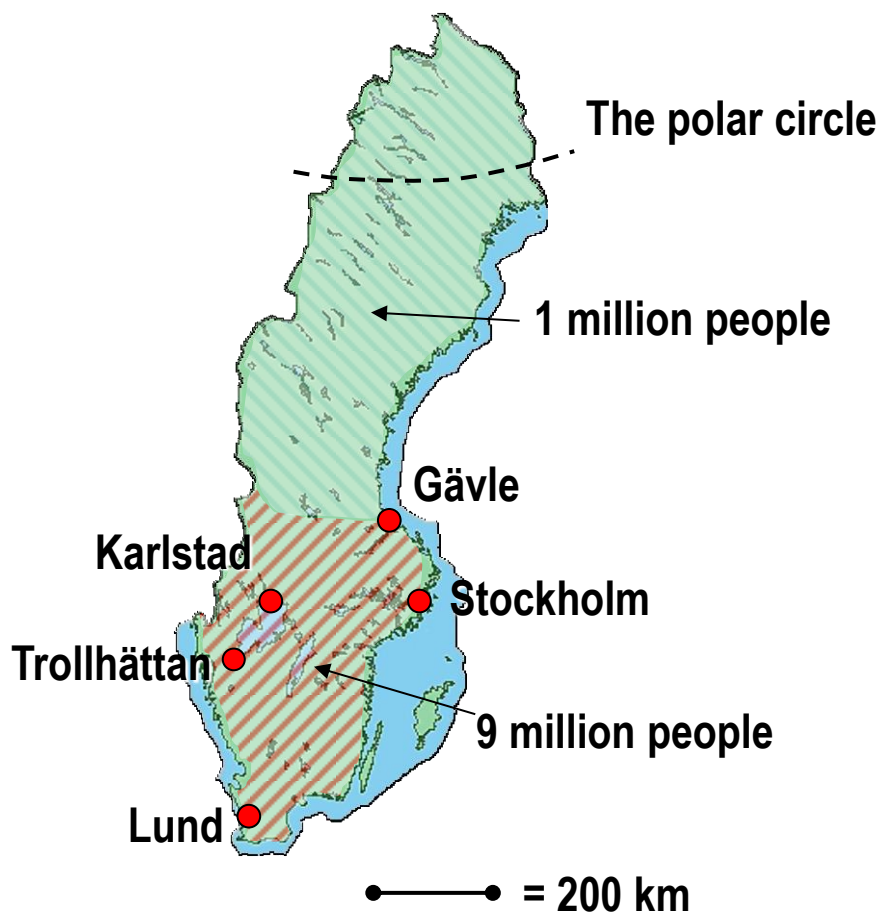








# Land Surveying – Academic Education in Sweden



- **5 Universities with Land surveying**
- **Stockholm and Lund with master of civil engineering**

# Academic education in Sweden – Land Surveying

**The markets need for higher education is far above the supply**

- **Growing population, urbanisation, housing supply, lack of land resources in hot areas**
- **Need for deeper skills in some areas as well as overview**
- **Ongoing need for professionals further education**
- **Focus on sustainable development, democracy, ethics etc.**
- **Globalisation**

**Students**

- **Number of young people decreasing**
- **Unfamiliar branch of occupation**
- **Residents – no moving, no commuting**



# Curriculum Gävle – Land Surveying

**On-going since 2009 , 180 credits, 12 study periods, three year full-time**

**Two different education curriculums and both with two degrees, bachelor and engineer**

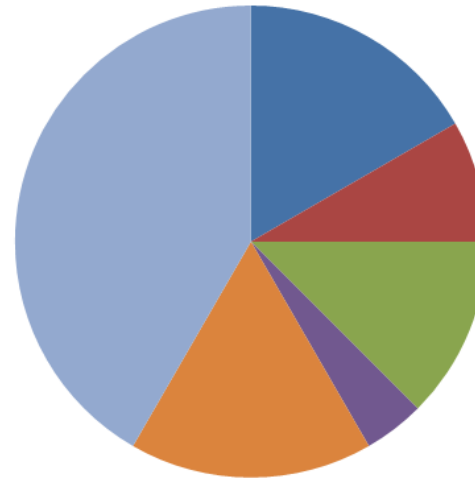
- **Land surveying**
- **Land management/Cadastral surveying**

**Two revised curriculums started 2015**

- **Only one degree each, bachelor**
- **Less mathematics**
- **Even more specialised tracks**
- **Management and development of the built environment**
- **International land administration (LM)**
- **Communication, professional personas/alt functions, processes (LM)**

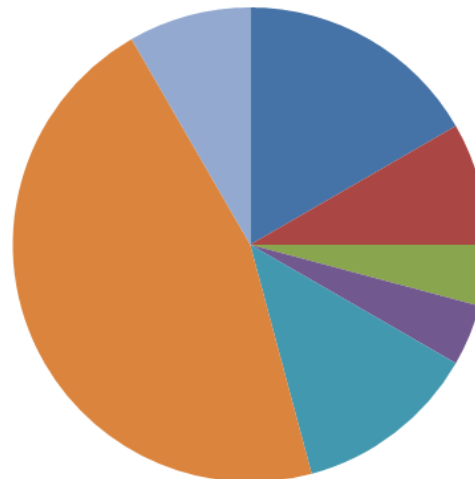


# Curriculum Content Land Surveying



- Science (project)
- Mathematics
- GIS
- Earth Science
- Valuation
- Land management
- Geodetic surveying

# Curriculum Content Land Management



- Science (project)
- Mathematics
- GIS
- Earth Science
- Valuation
- Land management
- Geodetic surveying

# Questions to be raised/discussed

<b>How long education?</b> <ul style="list-style-type: none"><li>• 3/5 years?</li></ul>	<b>Make courses available for professionals?</b>
<b>The need for certain degree?</b> <ul style="list-style-type: none"><li>• Engineering/bachelor?</li></ul>	<b>How to promote throughput?</b>
<b>Mathematics needed?</b> <ul style="list-style-type: none"><li>• Advanced algebra, multidimensional analysis, statistics</li></ul>	<b>How to promote quality and ongoing development?</b>
<b>Diffrent tracks</b> <ul style="list-style-type: none"><li>• Land surveying, GIS, land management, real estate economics?</li></ul>	<b>How to cooperate with adjacent study programmes?</b> <ul style="list-style-type: none"><li>• HiG, other universities</li></ul>
<b>Distance courses/e-learning?</b> <ul style="list-style-type: none"><li>• Quality, control, resources</li></ul>	

