



*The Hong Kong Polytechnic University*  
*Department of Land Surveying & Geo-Informatics*

## **Work-Integrated Geomatics Higher Education in Hong Kong**

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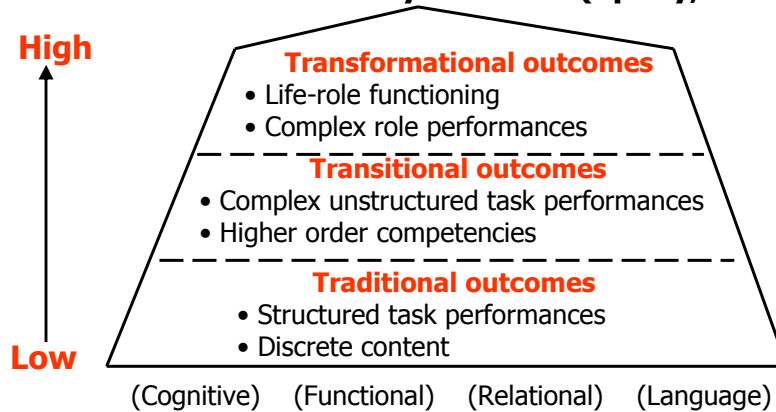
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### **Topics:**

1. Why Work-Integrated Education (WIE)?
2. Four phases of WIE programmes
3. WIE programmes for geomatics HE in HK
4. Collaboration model
5. Conclusions
6. Q & A

## 1. Why WIE? (1) OBE policy in HK HE; (2) transformational learning

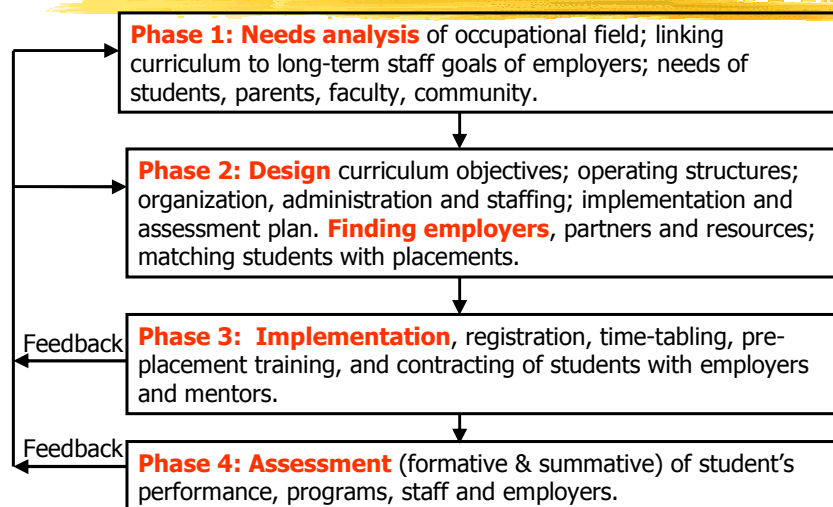
**OBE should aim at the highest learning outcomes which are achievable by students (Spady, 1994)**



Lam, S. (2009)

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## 2. Four phases of WIE programmes



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### 3. WIE programmes for geomatics HE

- ❑ Credit-bearing programmes for B.Sc. students:
- ❑ Summer Survey Training Scheme: employed by Government survey & mapping offices
- ❑ Preferred Graduate Development Programs (PGDP): employed by firms and government related to surveying and mapping
- ❑ Exchange Students for Technical Experience (IAESTE): in firms and government overseas
- ❑ Employed by staff's consultancy projects, together with M.Sc./M.Phil./Ph.D. students
- ❑ Community services: e.g. building schools and bridges in remote areas of China
- ❑ Pre-placement training programs organized by SAO and IC (site safety certificate).

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### 4. Collaboration model

- ❑ WIE benefits: (1) Transformational (collaborative) learning, both qualitative and quantitative; (2) workplace training for students, faculty, company employees; (3) promote research and innovation.
- ❑ Needs University-Industry-Government (UIG) collaboration, good collaboration management model (e.g. , Barnes et al., 2002), legal framework, and use of intermediaries
- ❑ To release faculty and staff from the burden of contract administration and other consultancy matters with firms, Institute for Enterprise has been established in PolyU, comprising:
  - ❑ PolyU Technology and Consultancy Company Ltd
  - ❑ Partnership Development Office
  - ❑ Innovative Technology Research Syndicate

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## 5. Conclusions

- The **success** of HE relies on **UIG collaboration** in developing (1) sustainable curricula of BSc, MSc, MPhil, PhD and WIE programmes, (2) pre-placement training programmes, (3) Institute for Enterprise, and (4) products of high commercial/societal values.
- Under UIG collaboration, **benefits** are found in the promotion of work-integrated teaching and learning, research/innovation, good citizenship and economic development to society.
- **Future challenges**: how to increase employment and to attract students/talents into geomatics engineering – marketing the programs/profession.

## 6. Questions & Answers

**Thank you.**