

**VPET Conference Series in  
Learning and Teaching Expo 2017**

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VPET Theatre  
Hall 3CDE, HKCEC, Wan Chai, HK



**Presentation on  
What Can VPET Learn from  
Software Engineering in Higher Education?**

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# What can VPET learn from Software Engineering in Higher Education?

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“May you live in interesting times”

“May you live in interesting times”

Joseph Chamberlain? Austen Chamberlain?

“May you live in interesting times”

Joseph Chamberlain? Austen Chamberlain?  
Chinese curse?



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## Overview

- History
- Parallels
- Challenges & Opportunities
- Agility



## History

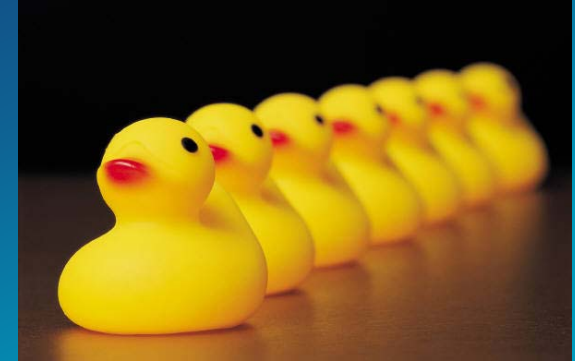
- Software Crisis
- NATO conference
- Lifecycle and processes
- Light-weight and agile
- Software engineering education
- Vocational and professional education & training
- Dirty tricks



[https://en.wikipedia.org/wiki/NATO\\_Committee\\_on\\_the\\_Challenges\\_of\\_Modern\\_Society#/media/File:Flag\\_of\\_NATO.svg](https://en.wikipedia.org/wiki/NATO_Committee_on_the_Challenges_of_Modern_Society#/media/File:Flag_of_NATO.svg)

## Parallels

- Goal: equip students with appropriate skills
- Students: how similar are they?
- Teachers
- Stigma
- Practical



## Challenges

- What to teach/learn
  - and how
- Alternatives
- Funding
- Attracting students
- Producing what?
- Ambiguity



## Opportunities

- Ambiguity
- Coding as a blue-collar job
- Champions
- Agile approaches



[https://cdn.pixabay.com/photo/2014/07/18/08/38/opportunity-396265\\_960\\_720.jpg](https://cdn.pixabay.com/photo/2014/07/18/08/38/opportunity-396265_960_720.jpg)

## Manifesto for Agile Software Development

We are uncovering better ways of developing software by doing it and helping others do it.  
Through this work we have come to value:

Individuals and interactions over processes and tools  
Working software over comprehensive documentation  
Customer collaboration over contract negotiation  
Responding to change over following a plan

<http://agilemanifesto.org>

- Increase interaction, discussion, ... participation of stakeholders
- Expect to need to change things
  - Embrace change (ambiguity)
- Implement/adapt in short controlled spurts
- Reflect
- Constantly try to improve (改善)

# Thank you!