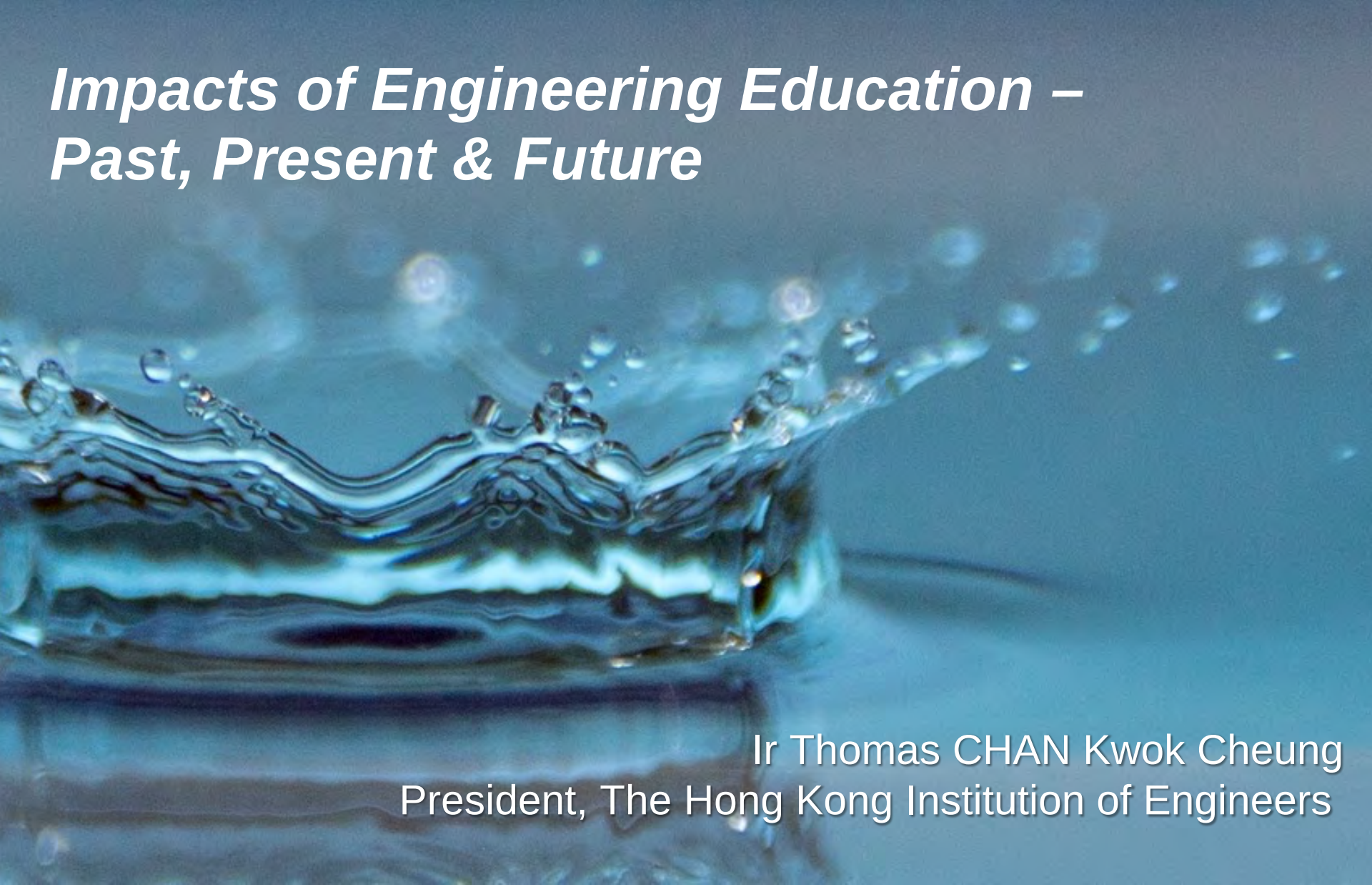
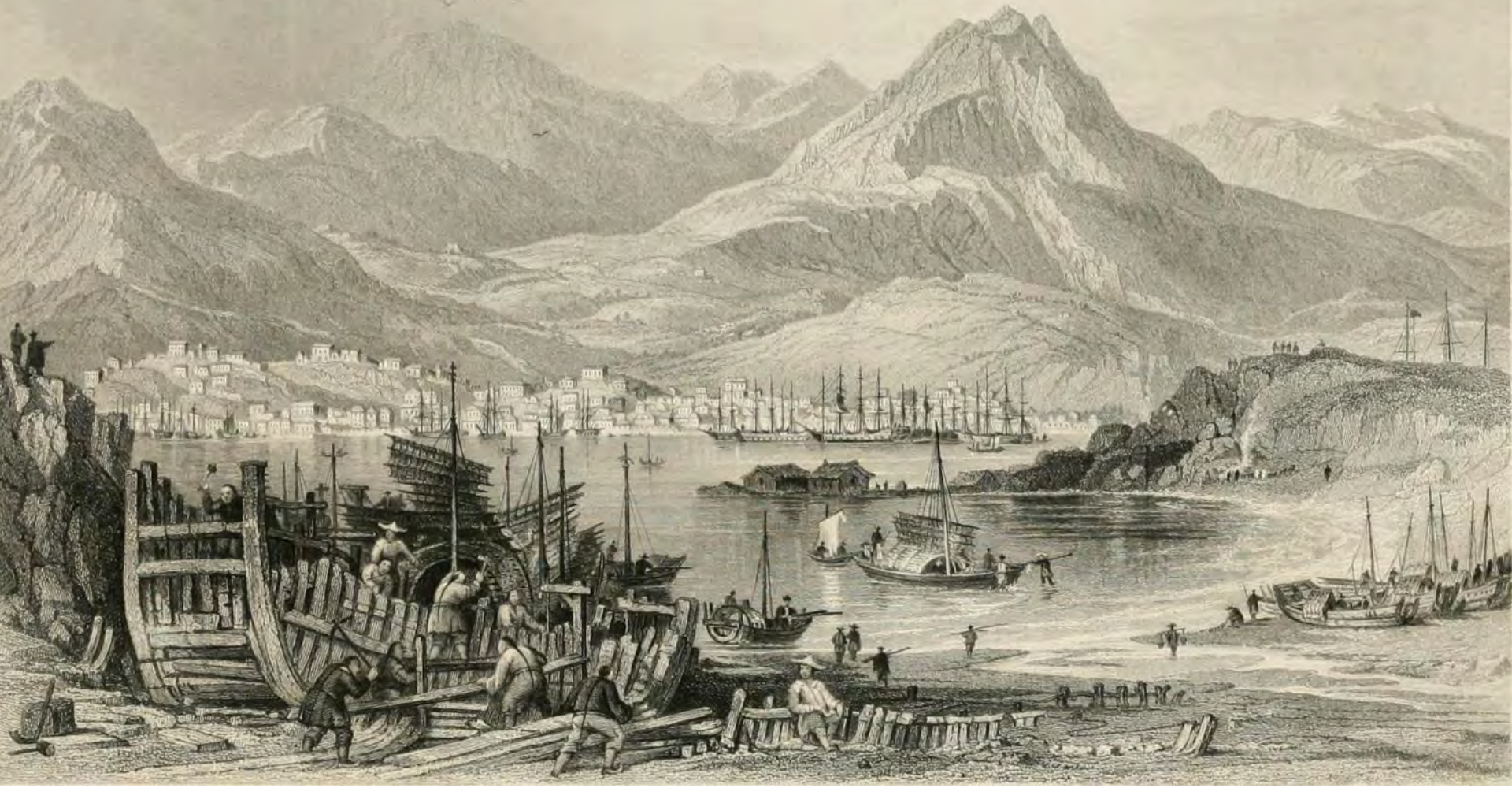
Impacts of Engineering Education – Past, Present & Future



Ir Thomas CHAN Kwok Cheung
President, The Hong Kong Institution of Engineers

IMPACTS OF ENGINEERING EDUCATION OVER THE YEARS



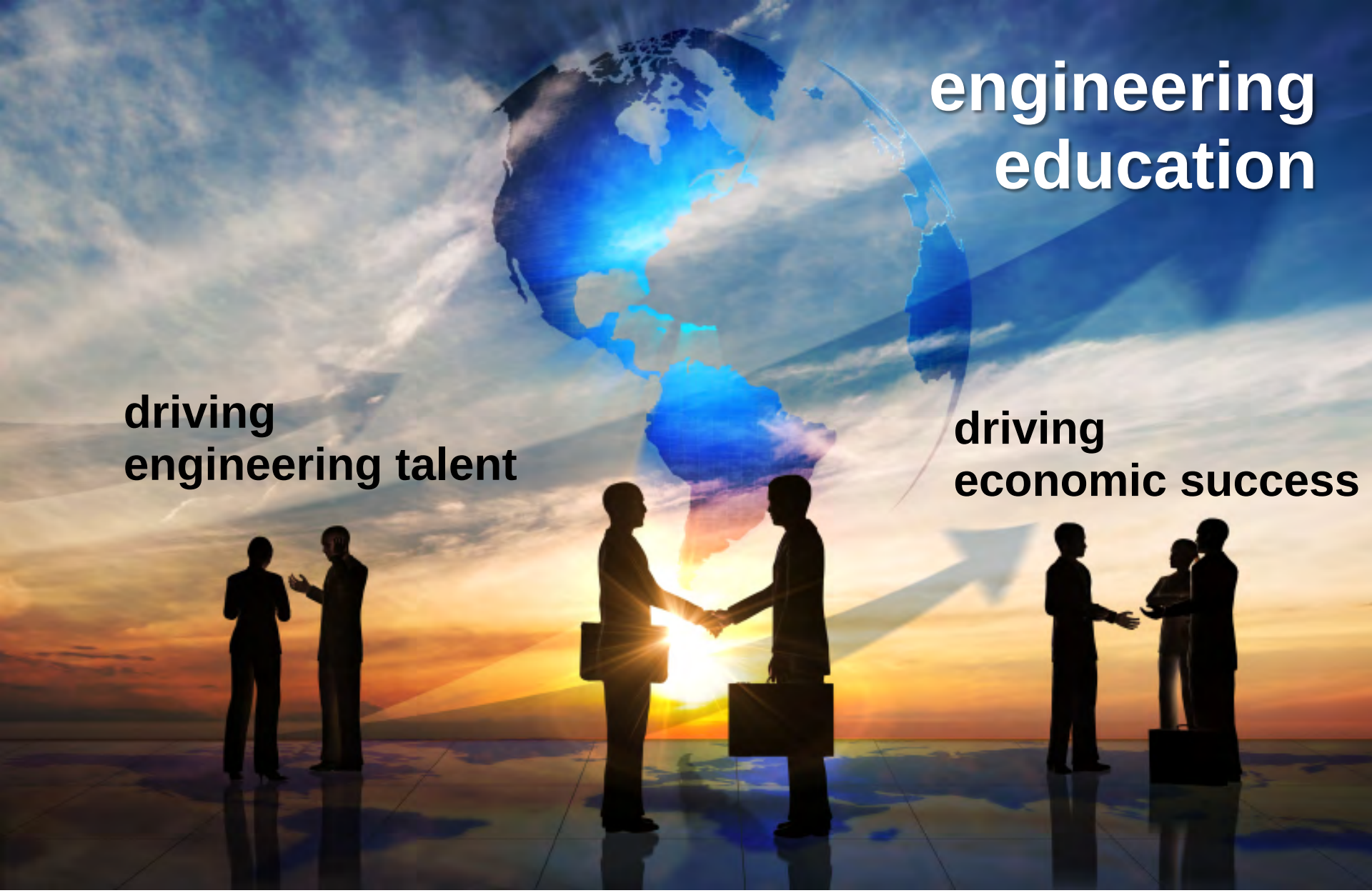

Military & naval construction


Roads, reservoirs & housing


Airport & Tsing Ma Bridge


Hong Kong-Zhuhai-Macau Bridge

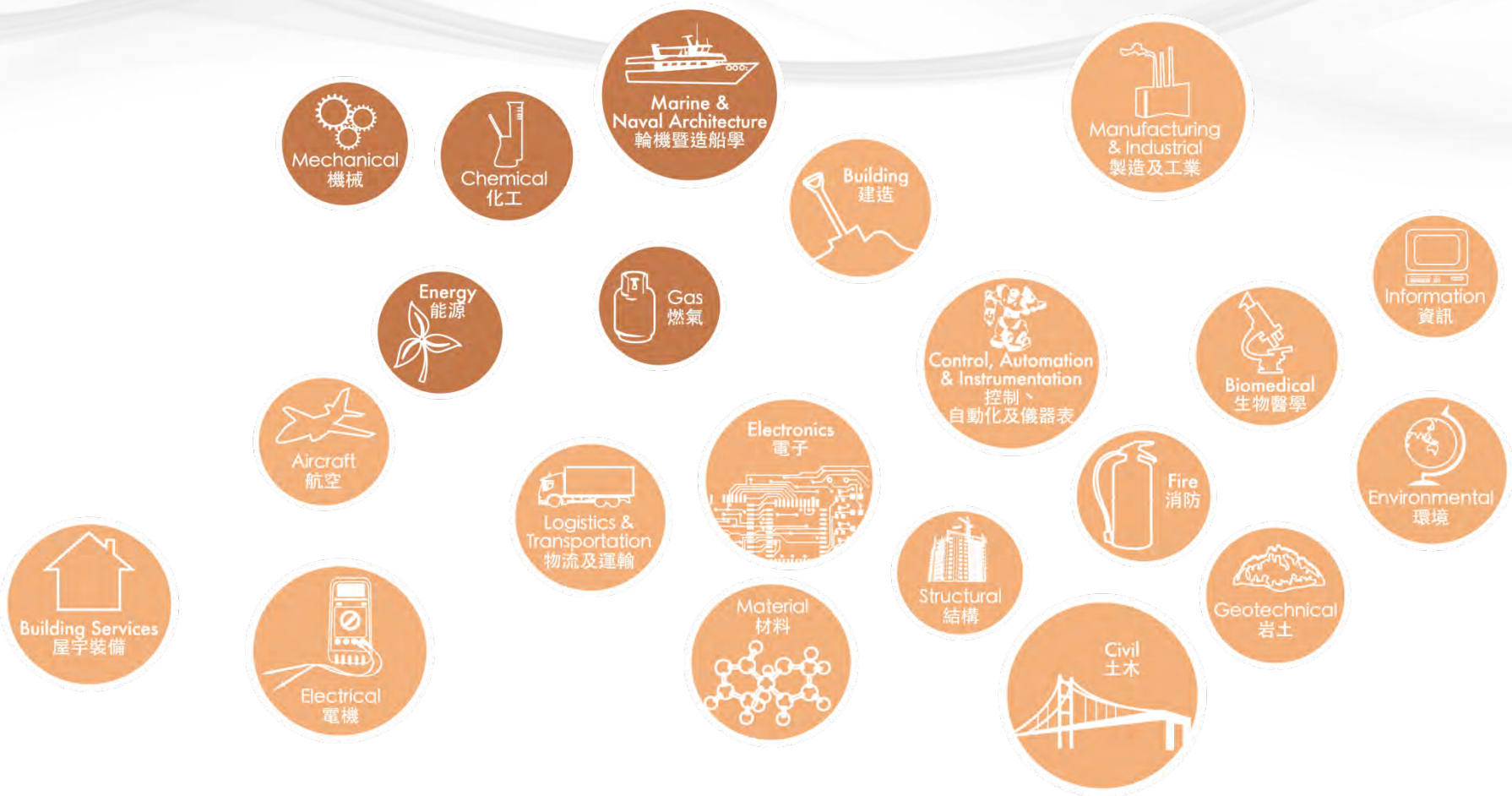
Guangdong-Hong Kong-Macau Bay Area


engineering
education
driving
engineering talent
driving
economic success

Engineering education past

Engineering education now

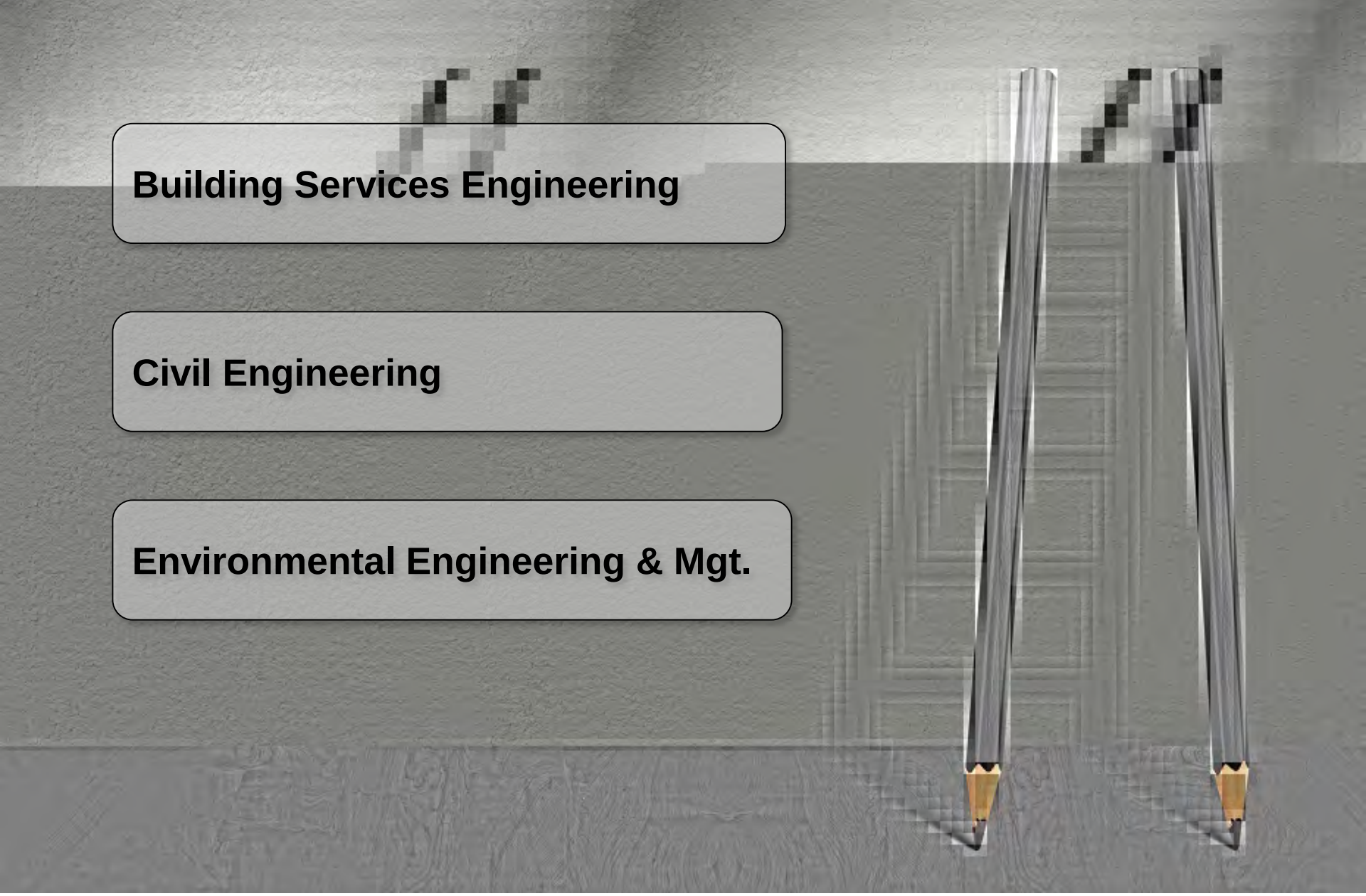
The HKIE Disciplines



Building Services Engineering

Civil Engineering

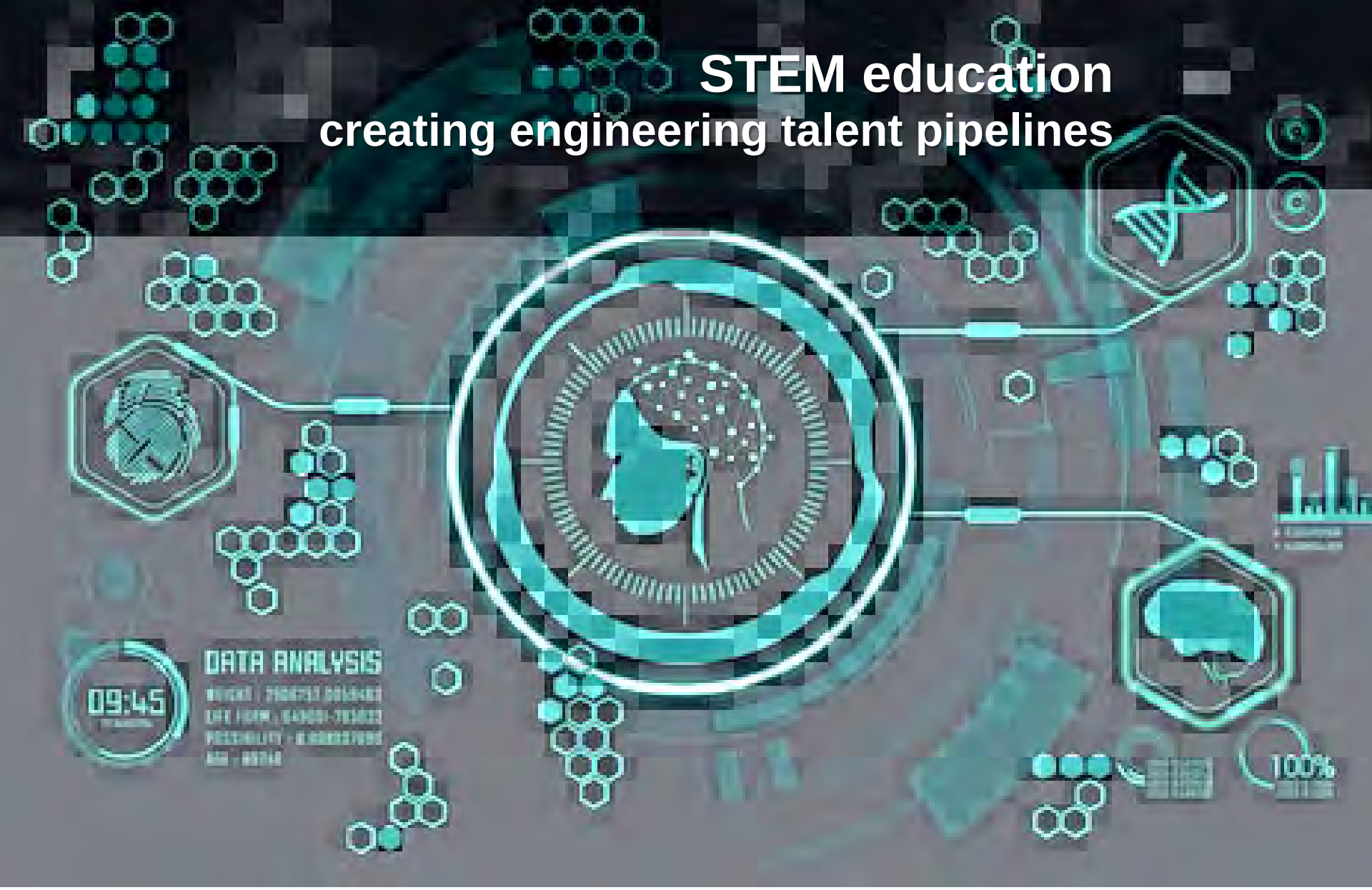
Environmental Engineering & Mgt.



Education adapting with industry

- **Product Analysis & Engineering Design**
- **Enterprise Engineering & Management**
- **Electronic Commerce & Internet Computing**
- **Technology & Management**

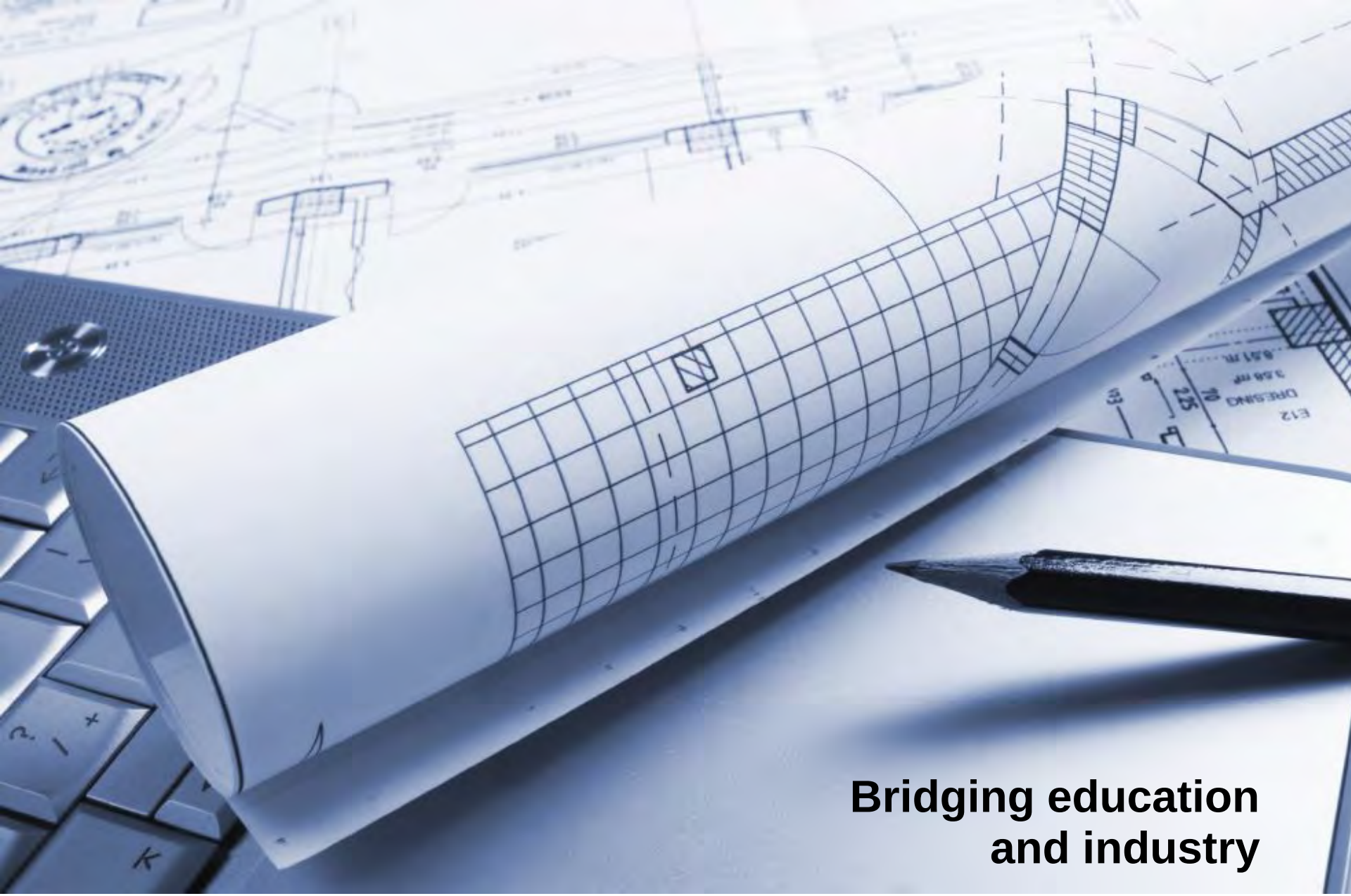
STEM education
creating engineering talent pipelines




THE HONG KONG INSTITUTION OF ENGINEERS
香 港 工 程 師 學 會

Outcomes-based accreditation

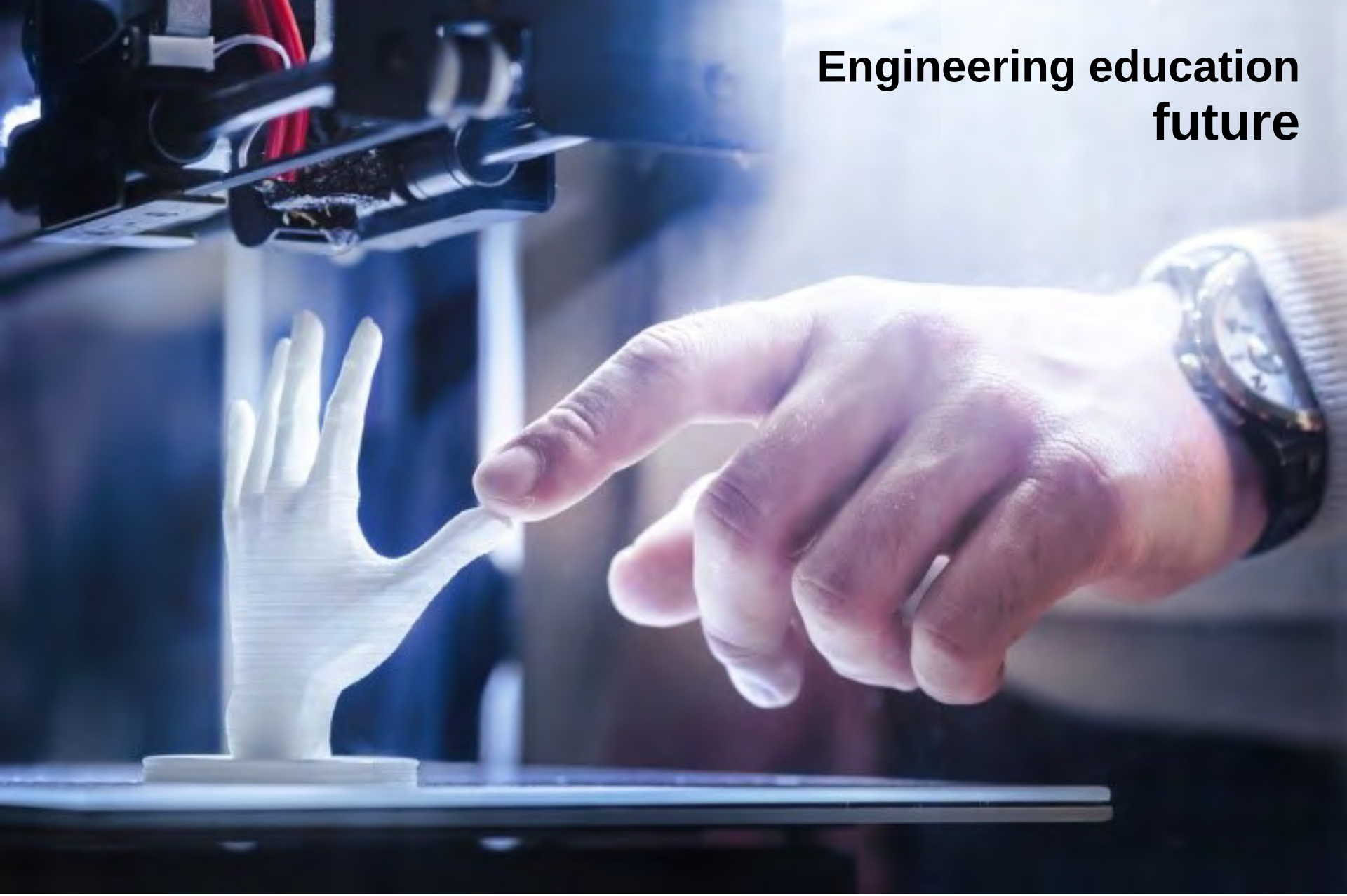

International
benchmarking


Bridging education
and industry

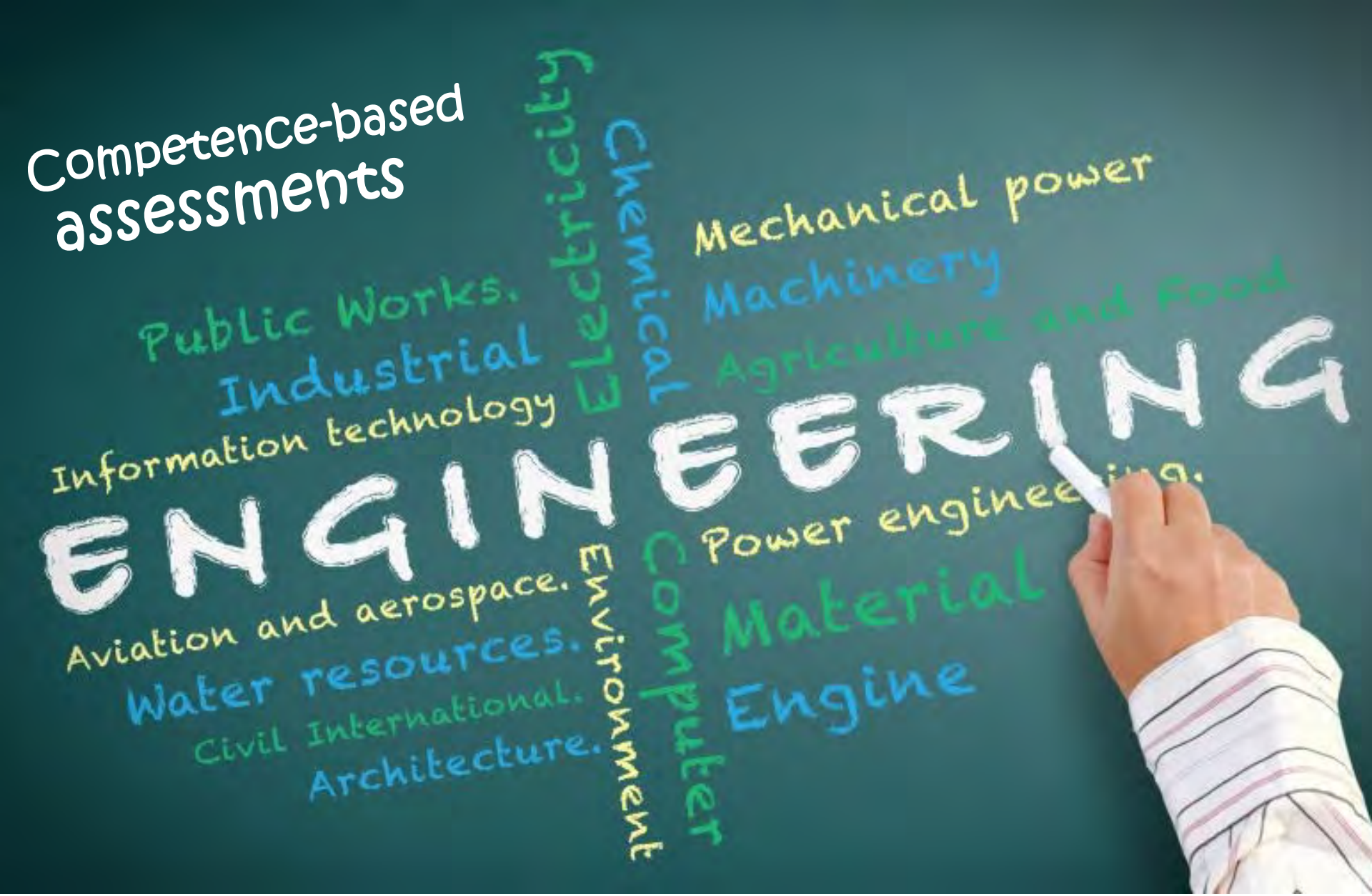

Reliability
Process
ACCREDITATION
Productivity
Innovation
Repeatability

Discipline matching
…even harder than dating

Engineering education future

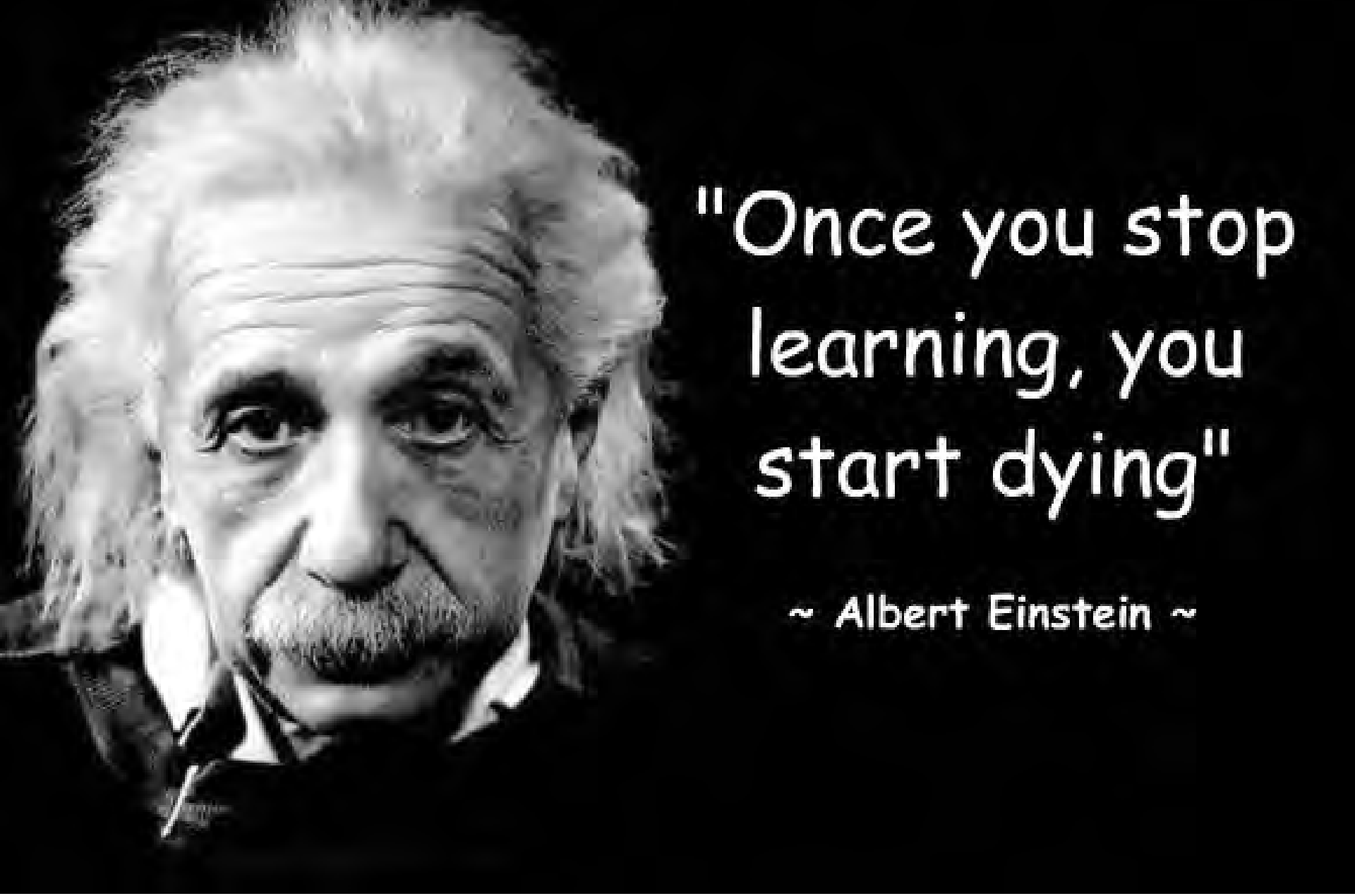


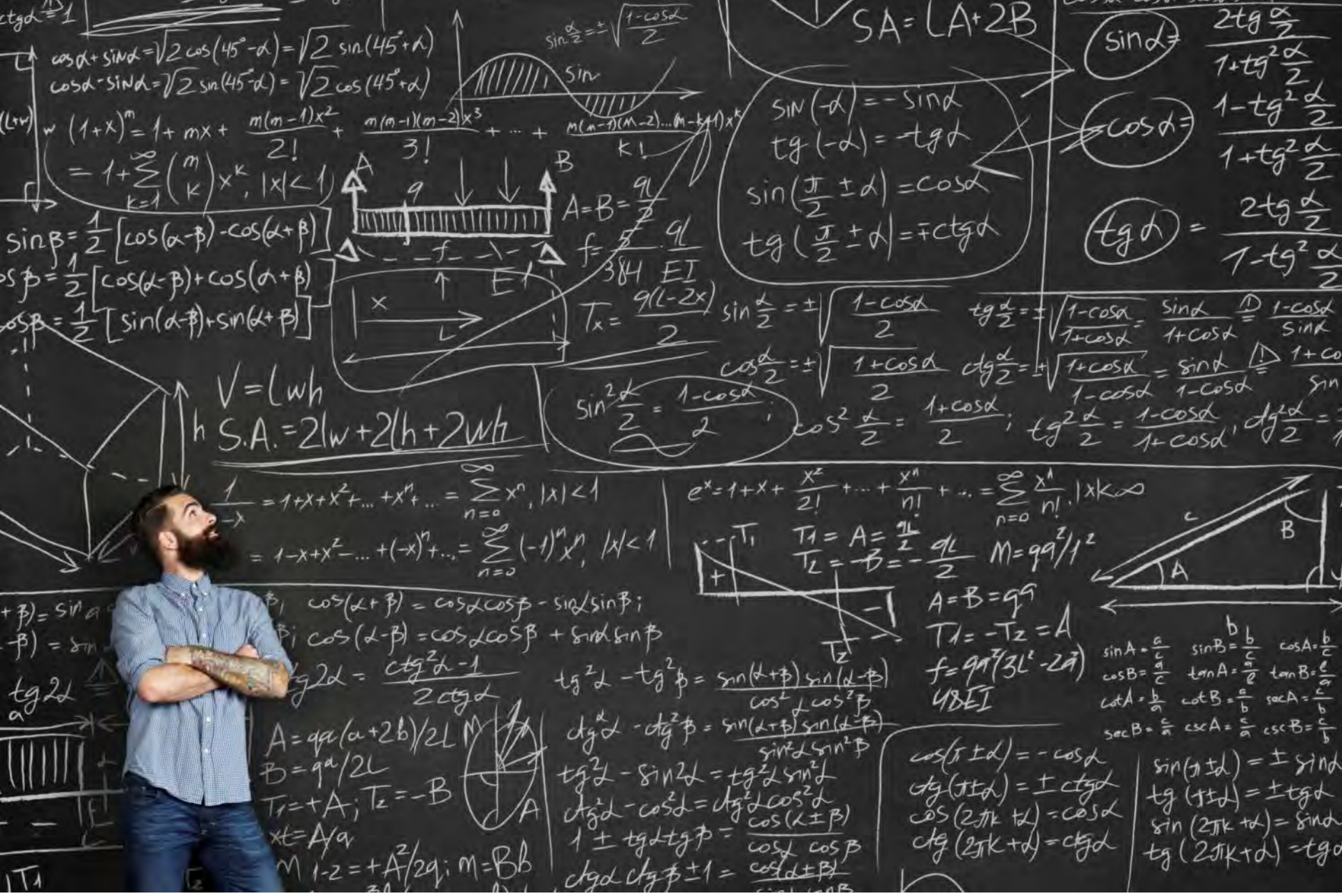
Competence-based assessments

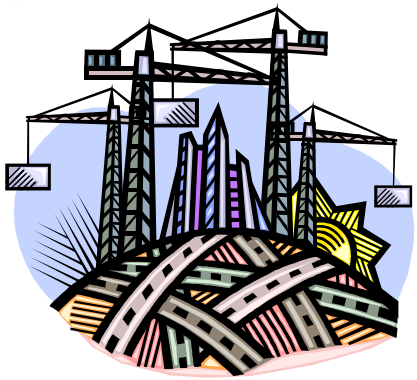



Looking ahead

6 + 4 = 10


"Once you stop learning, you start dying"
~ Albert Einstein ~





Thank you!