



ESQUEL GROUP

Why is Computational Thinking Education Important as the Foundation for Innovation?

Marjorie Yang, Chairman of Esquel Group

July 13, 2017

Learning CTE in Different Ways

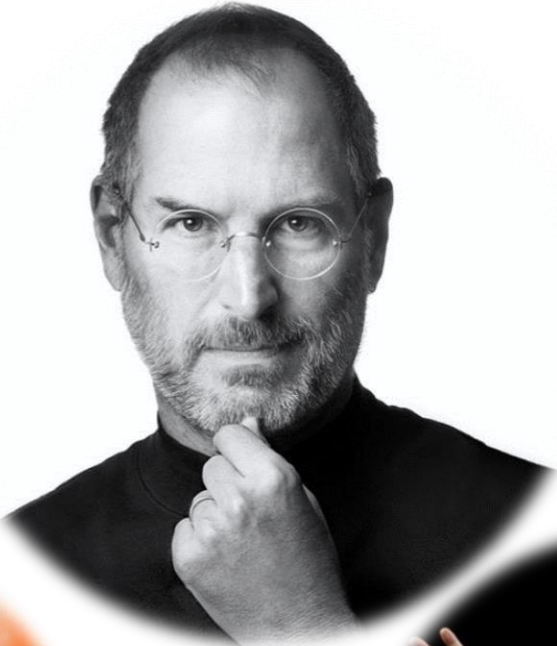


Technology in the Textile and Apparel Industry

Joseph Marie Jacquard created the first programmable loom in 1801, which became the basis for modern data computation.



Innovators



What is Innovation?

Fresh thinking that creates value.

Innovation should apply not just to invention, but also to problem-solving.



CoolThink@JC Mission

“This project is not only about coding and programming but about empowering students to become problem-solvers and creators in the digital world.”

Mr Anthony Chow
Deputy Chairman, The Hong Kong Jockey Club
November 15, 2016

Training young software engineers?



Embedding computational thinking in children



Helping teachers develop independent critical thinking



It is about Empowerment !

AppInventor is not about teaching coding. It is not even about Computational Thinking.

It is about **Empowerment.**

Professor Harold ABELSON



Empowered Leadership

Can we solve global social problems
with fresh ways of doing things?

Esquel Group

2 Problems We Try to Tackle: Climate Change and Wealth Gap



Out of the Box Thinking – Can this be a Factory Site?



Empowering Esquel Group

First, we must accept that
the Boss is not ALWAYS right!



Independent, Critical Thinking

Even the Customer is not ALWAYS right

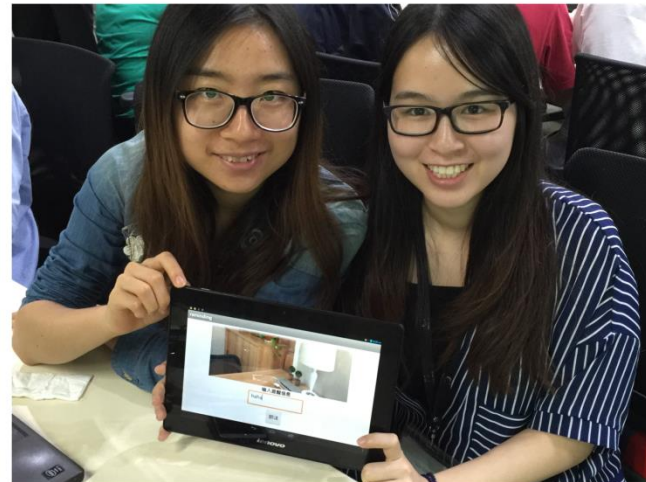
If people hide behind,
"the boss is always right" and
"the customer is always right",
they will not be independent critical thinkers!

They need to feel empowered !



Overcome Fear of Technology

Why not try to teach 45 year-old women technology!



Case Sharing 1

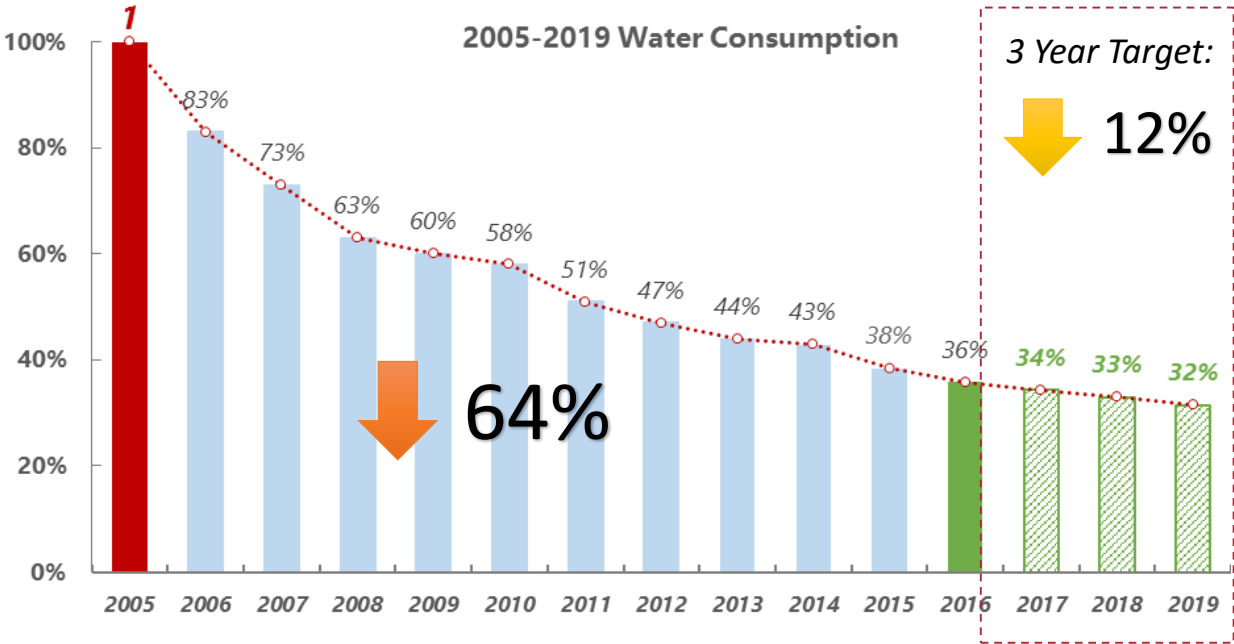
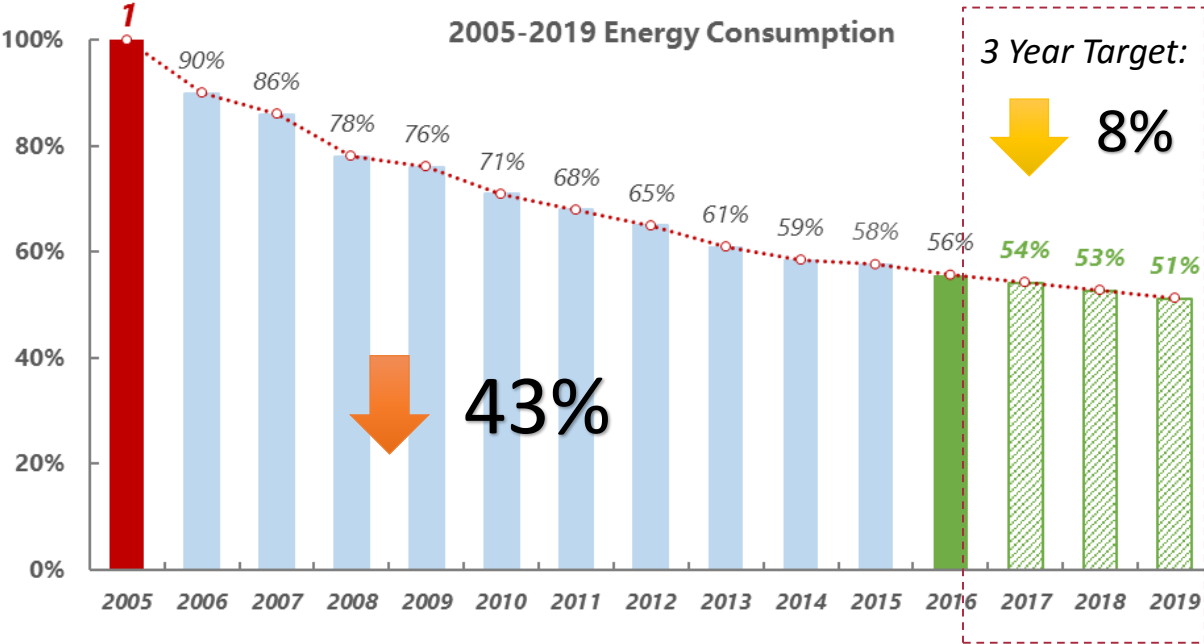
Esquel Carpool



Sustainability – Energy and Water Consumption

Responding Actively to Environmental Challenges

Building on the significant reduction in energy and water consumption achieved over the last decade through technical innovations and effective management, Esquel is set to continue its efforts in both areas with an ambitious 3-year target.



Esquel Carpool



Carpool and Carbon Reduction

2016.6.23-2017.6.5



14,115 Trips



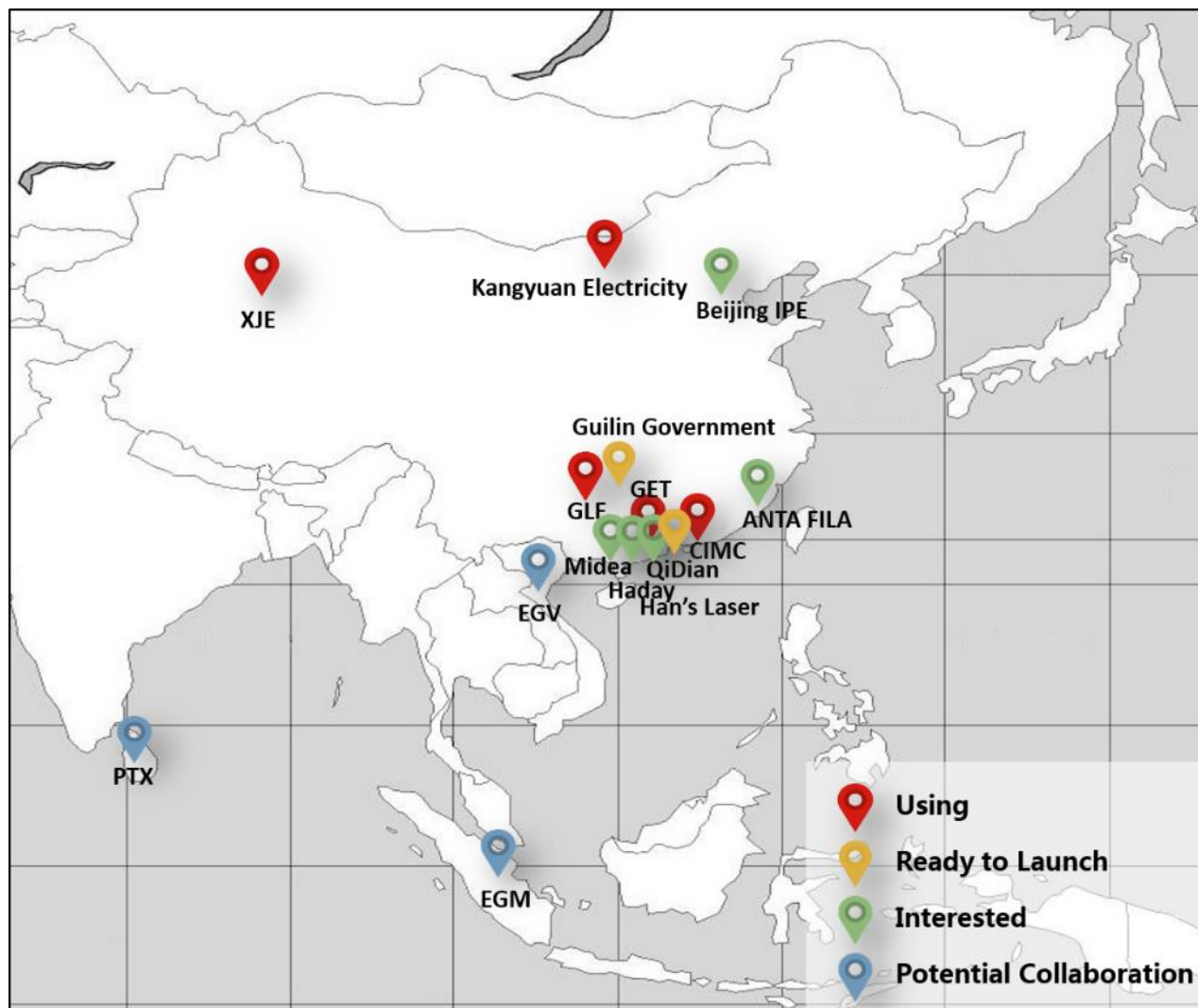
107,274 Km



10,727 Liters



24.7 Tons



Innovators



You can think



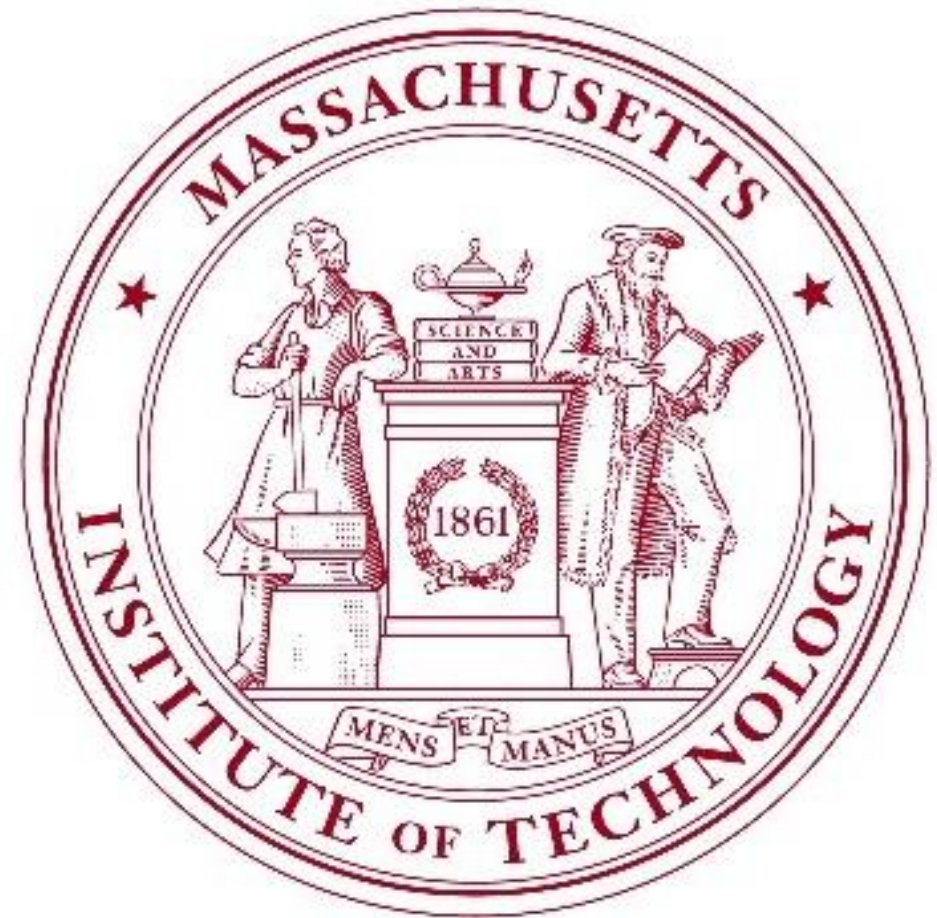
You can innovate

Innovators



Mens et Manus – Mind and Hand

- We cannot send everyone to MIT, but we can try to teach them computational thinking
- How can we make them feel Empowered ... without having gone to the Boot Camp on the Charles?



Thank you

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