

Developing Cybersecurity Human Resource

-My experience from CS projects-

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Japan International Cooperation Agency (JICA)

◆ ODA executing agency in Japan

- 96 overseas offices, Approx. 2000 staff members
- 150 countries and regions received assistance (Technical cooperation project, ODA loan, Grants)



<https://www.jica.go.jp/english/>

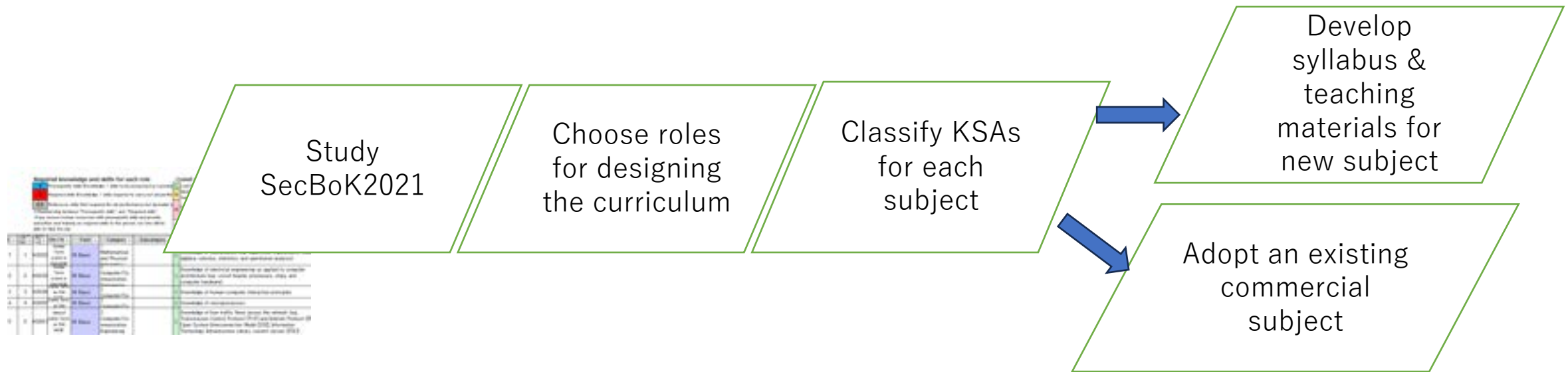
◆ **Cybersecurity** (CS) is one of the priority issues

- Two (2) JICA projects are on going for CS HR dev with
‘Universitas Indonesia’
‘Mongolia University of Science and Technology’



Dev. of CS curriculum in the Projects

Use 'SecBoK2021' as a curriculum framework to provide 'comprehensive knowledge'



- 16 roles and 1145 KSAs developed by JNSA
- Linking to NIST SP800-181 rev.1 (NICE Framework)

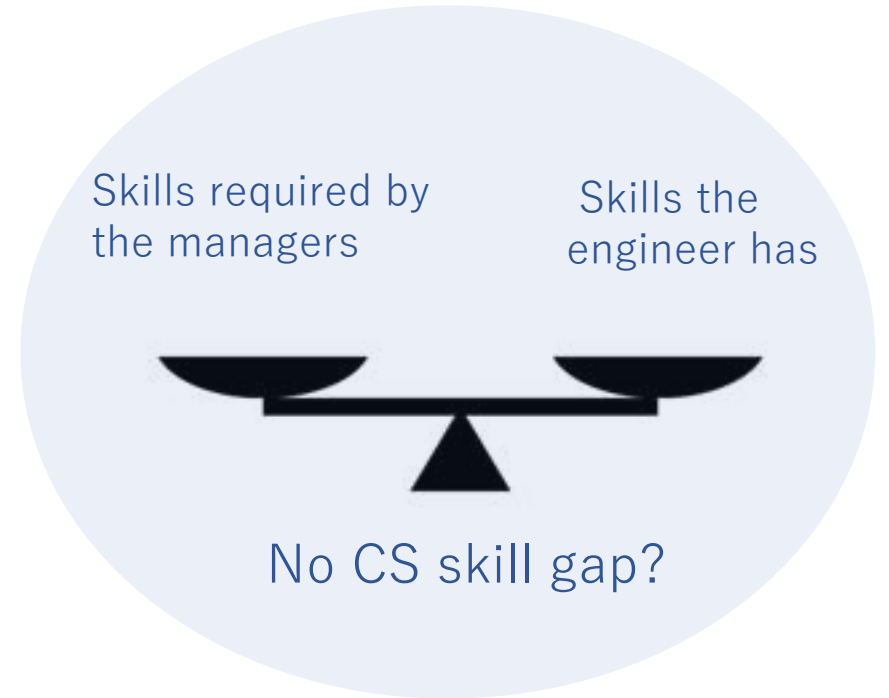
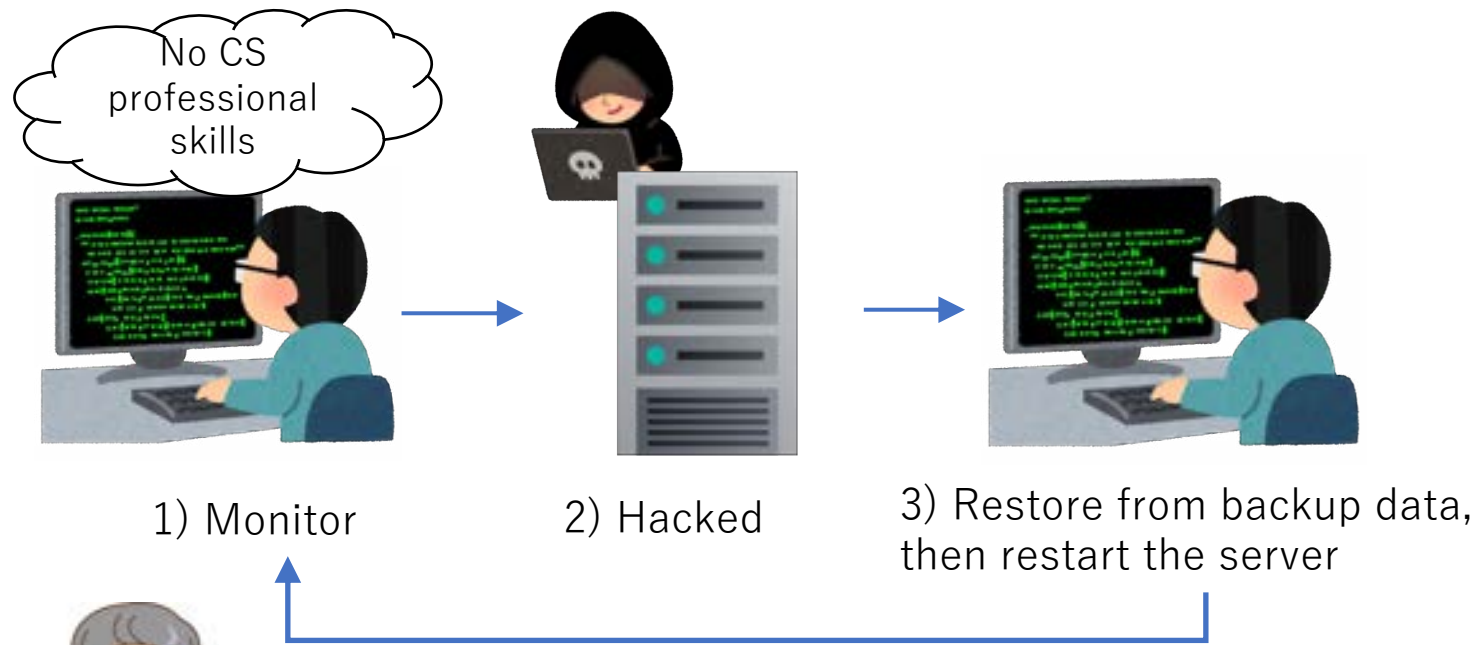
Message (1)



Choosing an appropriate CS skill framework is a key to developing a comprehensive CS curriculum

- **Design curriculum with a CS skill framework → Supply driven approach**
- **Design curriculum based on the CS skill gap in workplaces → Demand driven approach**

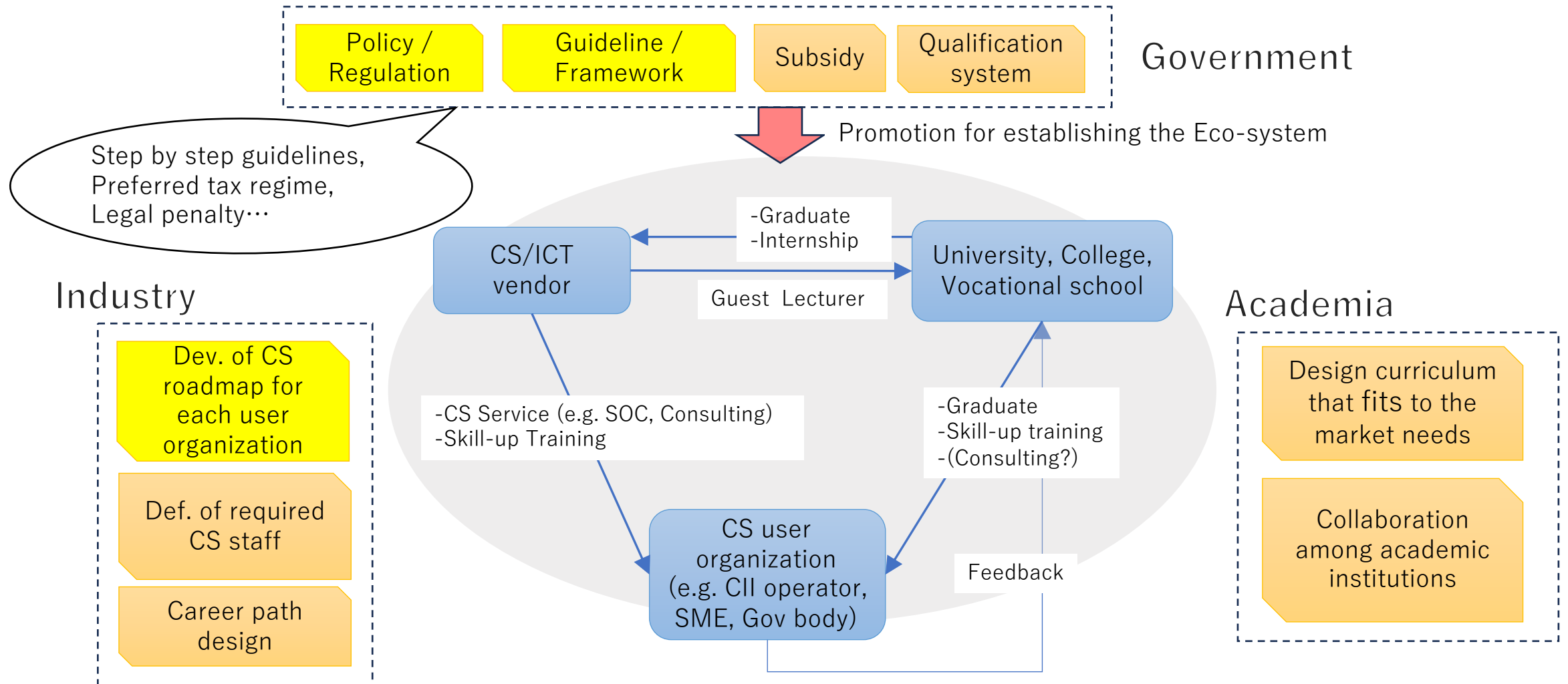
In an organization..



One day system down?
Legal penalty /Social sanction?
Why investment to CS?

Identifying the CS skill gap in an organization, a **CS roadmap (Action plan, Policy)** should be in place, but how?

CS HR dev. eco-system



Message (2)

- Once the eco-system established, required skilled CS HR will be developed continuously.
- Rotating the cycle of eco-system, stimulating CS user organizations is crucial because they have information assets to protect.

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