



SWINBURNE
UNIVERSITY OF
TECHNOLOGY

SWE20001

Managing Software Projects

Lecture 2c KoST Analysis



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KoST Analysis



■ Knowledge

- ☐ knowing about the problem domain and solution domain

■ Skill

- ☐ Whether you have experience to do the work

■ Technology

- ☐ Whether a similar solution exists or not
- ☐ Has nothing to do with technology

Example 1 – Self-driving Car



- Want a software to "self-drive" a car in the road
- Knowledge
 - ☐ Problem domain – car industry, control engineering, robotics (?)
 - ☐ Solution domain – sensor technologies, control driving, ...
- Skills
 - ☐ Do you have experience in doing this (or, something similar) before?
- Technology
 - ☐ In year 1980, no existing "self-driving" car – So, a big gap in T
 - ☐ In year 2020, Tesla has some "self-driving" cars – So, no gap in T (someone has done it, but it may not be you)

Example 2 – PHP-SRePS – Synopsis



People Health Pharmacy is a small pharmacy based in Hawthorn. We offer various medicine, health care products and accessories for our customers.

Currently we are using a paper based system to record our sales. We find it difficult to gain a better understanding of our weekly and monthly sales. We also frequently run out of certain items that are in demand.

We are in need of an application that can analyse our sales data and produce a set of reports that would help our manager improve their product ordering decisions.

The application must offer a graphical user interface. However, the reports generated by the automatic analysis need to be in a format that can be easily translated into CSV (comma separated values) files for further processing.

Example 2 – PHP-SRePS – KoST Analysis



■ Knowledge

- ☐ Problem domain – business operations, pharmacy stores, ...
- ☐ Solution domain – sales invoicing / recording, inventory control, data analysis, trend analysis, ...

■ Skills

- ☐ Do you have experience in doing this (or, something similar) before?

■ Technology

- ☐ Any existing solutions (?)

Example 3 – GotoGro-MRM (standard project)



■ Knowledge

- ☐ Problem domain – business operations, grocery stores, ...
- ☐ Solution domain – record management, sales recording, inventory control, data analysis, trend analysis, ...

■ Skills

- ☐ Do you have experience in doing this (or, something similar) before?

■ Technology

- ☐ Any existing solutions (?)