

Experience in tailoring test approaches in delivering “Megaprojects” – Sydney Metro Northwest

Presented by: Michelle Ho
Company: UGL
4 Sep 2018

Coverage

- Brief overview of Sydney Metro Northwest (SMNW).
- Megaproject characteristics.
- Tailoring test approach.
- CALC behaviours during the tailoring process.

SMNW Brief Overview

- First fully-automated metro rail system in Australia.
- 8 new railway stations, 5 existing railway stations to be upgraded.
- 4000 commuter car parking spaces.
- Trains will run every 4 minutes in the peak – won't need a timetable.
- End to end 36km → 4km above ground skytrain, 15km twin tunnels, 13km existing railway.
- Open in 2019.
- <https://www.sydneymetro.info/about>
- <https://www.facebook.com/SydneyMetro/videos/2013658932255072/>

Some characteristics of this megaproject

- Many systems to integrate.
- Many stakeholders involved.
- Many requirements (vs expectations).
- Many processes (vs competency).



Adobe Acrobat
Document



Adobe Acrobat
Document

ISTQB definition of test approach

“the decisions made...based on the project's goal and the risk assessment carried out, starting points regarding the test process, test design techniques to be applied, exit criteria and test types to be performed.”

Does this need tailoring?

- Elements of the test approach such as the exit criteria and test types to be performed have already been determined at an early stage of the project.
- Test process for certain test types can be tailored.
- During the process...CALC behaviours.

Collaboration

- Different organisations to work together to achieve a common goal – opening safe and reliable railway in 2019.
- Acknowledge the diversity in skills, cultures and talents.
- Provide opportunities to learn from each other.
- Be flexible.

Adaptability

- Changes are constant.
- Reactions to changes.
- Dynamic.
- Be flexible.

Leadership

- Authorised parties making appropriate decisions.
- “best for the project” attitude.

Competence

- Years of testing experience vs knowledge of a fundamental test process.
- The know-how and know-why to tailor any test approach where needed.

The End