

## Terhorst, Andrew (Data61, Sandy Bay)

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**From:** Mark Holton <holton.mark@gmail.com>  
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**To:** Digital Economy  
**Subject:** Some Comments on Questions 14-20

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Hi  
Some background. I have been doing PhD research at the [Centre for Mechanised Mining Systems](#) in Johannesburg (as an Australian). The South African mining industry, like many Australian sectors, is holding back adoption of technology

Part of the problem is not fully understanding their own system processes at work and fearing the disruption of their systems by a tsunami of new tech systems. A.W.E. Deming said; "If you can't describe what you are doing as a process then you don't know what you are doing". This also applies to changing systems and embracing new technology.

Business process and universal modelling languages have been attempted by many to improve understanding and communication about systems. BPMN, UML and ARIS are leading languages which unfortunately introduce language barriers. We challenged the idea that complicated system processes needed a commensurately complicated language.

I am a recent participant of the Perth startup community with a unique solution to the language and collaboration problem that has been successfully tested on a large engineering project to innovate a mining ore flow system.

Please see answer to selected questions

### QUESTIONS

14. What is holding Australian businesses back in terms of benefiting from digital technologies?

Stakeholders need a shared visual model of how people and tech processes interconnect and how things flow. Decision makers decide when they can clearly see how it will work at the detailed level and at higher levels of abstraction.

15. What would help Australian businesses to embrace digital technologies?

As above

16. What efforts are you or your organisation making to respond to digital transformation? Why?

Provide cloud collaboration tools and techniques for capturing, creating and designing systematic knowledge models that visually describe perspectives of changing systems over time.

17. What opportunities do we have to use digital technologies to improve linkages into export markets and global supply chains?

18. What opportunities do small and medium-sized businesses have to embrace digital innovation to drive customer value, improve their services and unlock their potential?

A key feature of our solution is the ability to employ programming concepts without the need to know any programming languages. The tool effectively produces softer software code that shows how people work with technology according to process as well as describe how software and IoT things work. The idea is that programmers translate people code for computers rather than the other way around.

Regards

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