

CRC ORE execution and implementation accelerator

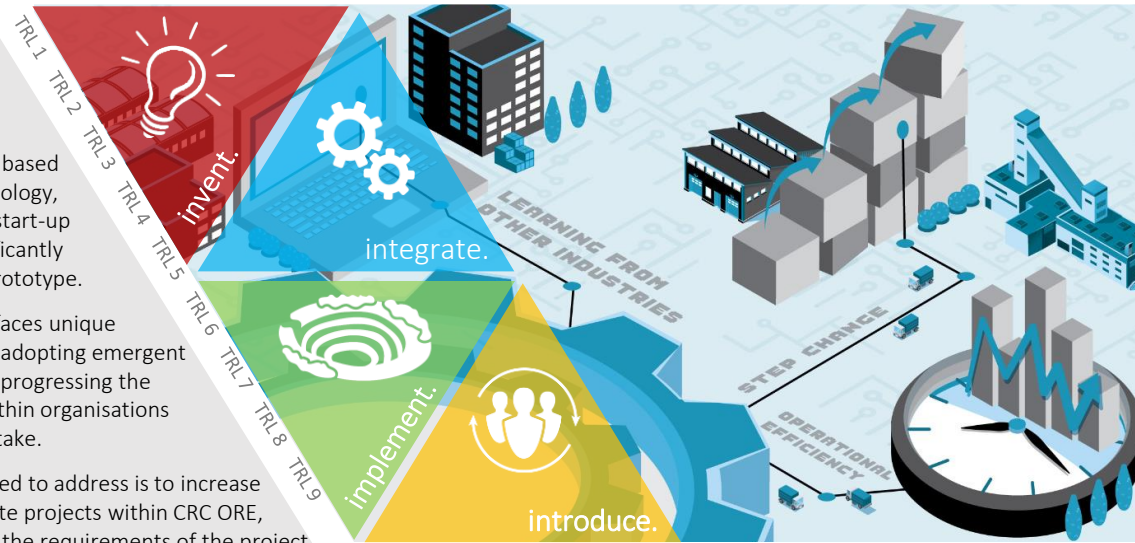
PROJECT P4-004

This project aims to develop a methodology for a rapid and effective means of fast tracking CRC ORE's implementation processes. This will be based upon Clareo's proven FastPath methodology, which incorporates principles of LEAN start-up and learning. This project aims to significantly reduce the cycle time for projects to prototype.

It is recognised that the mining sector faces unique hurdles with respect to identifying and adopting emergent technology. This includes challenges in progressing the subsequent management of change within organisations that is triggered by new technology uptake.

The key challenge this project is designed to address is to increase the speed and agility of research and site projects within CRC ORE, and to ensure outputs are aligned with the requirements of the project evaluation processes that are utilised by METS and Mining end-users.

Once demonstrated internally within CRC ORE, the Accelerator program will then be promoted to Participants for use in their own technology implementation programs.



Research collaboration

Other industrial sectors have achieved significant reductions in implementation timelines, and simultaneously improved the quality of outcomes, by undertaking a dedicated program to examine and then streamline the business processes that control the research and implementation pipelines.

In order to gain the best mix of insights and proven methodologies, CRC ORE has engaged the services of well known service provider in this space, Clareo.

Clareo has significant exposure across mining and other industrial sectors, and is well connected to Northwestern University who undertake fundamental research into these industries and related business processes.

Clareo's FastPath model has already been utilised by several of CRC ORE's mining participants. FastPath applies LEAN startup approaches to accelerate a concept from idea to adoption.

The program is structured as follows:

1. Context setting.
2. Benchmarking.
3. Optimising to incorporate proven techniques of LEAN start up, learning plans and agile decision pathways.

Program Coordinator: Paul Revell, CRC ORE

Project Leader: Satish Rao, Clareo

Timing: Nov 2017 – Nov 2018

Participants: Selected Essential Participant/s will be involved later in the project for the demonstration component

Background & aims

The mining industry is criticised for slow adoption of new technology and taking longer than other sectors (typically 10 years) to bring projects through the development pipeline from concept to full scale implementation. Other industries routinely undertake implementations of comparable scale in less than three years, and in some cases (e.g. advanced manufacturing, motor racing, consumer electronics) only months are required.

Some of the key reasons for the long timeframes within the mining sector have been identified as a cultural resistance to change, inadequate risk management tools, and implementation practices by technology providers that result in a disproportionate amount of the project risk being carried by the process owner. In addition, the act of implementing new technology places short term risks on the mining company's daily operation.

The objective of this proposal is to translate the "Silicon Valley" approach to both project execution for research and site implementation into the mining context by developing and embedding a rapid and effective means of fast tracking CRC ORE's implementation processes, based on principles of LEAN start-up and learning.

Focus on outcomes

The outcome will be a re-designed execution and implementation plan for use with new research and site implementation projects. Existing research and site projects will be examined to understand the opportunity to incorporate accelerator aspects within existing commercial agreements. The result will be to:

- Move faster through the research program pipeline, and increase its effectiveness by improving the optionality and agility of project management.
- Decrease the time required to implement technology with end users.
- Deliver value to CRC ORE's end user and Research Participants by significantly shortening the time frame to implementation of technology related projects and initiatives. This will have the effect of bringing forward the associated value uplift and increasing the effective NPV of each project.