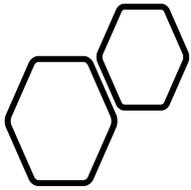


Institute of Quarrying New Zealand (Inc)

Innovation for Future Proofing



**Out of
interest..... who
sees themselves
as an innovator?**



**The
workshop
will cover
the
following.....**



External drivers impacting on our industry



Co-collaboration



Basic rules of innovation



Four innovation techniques

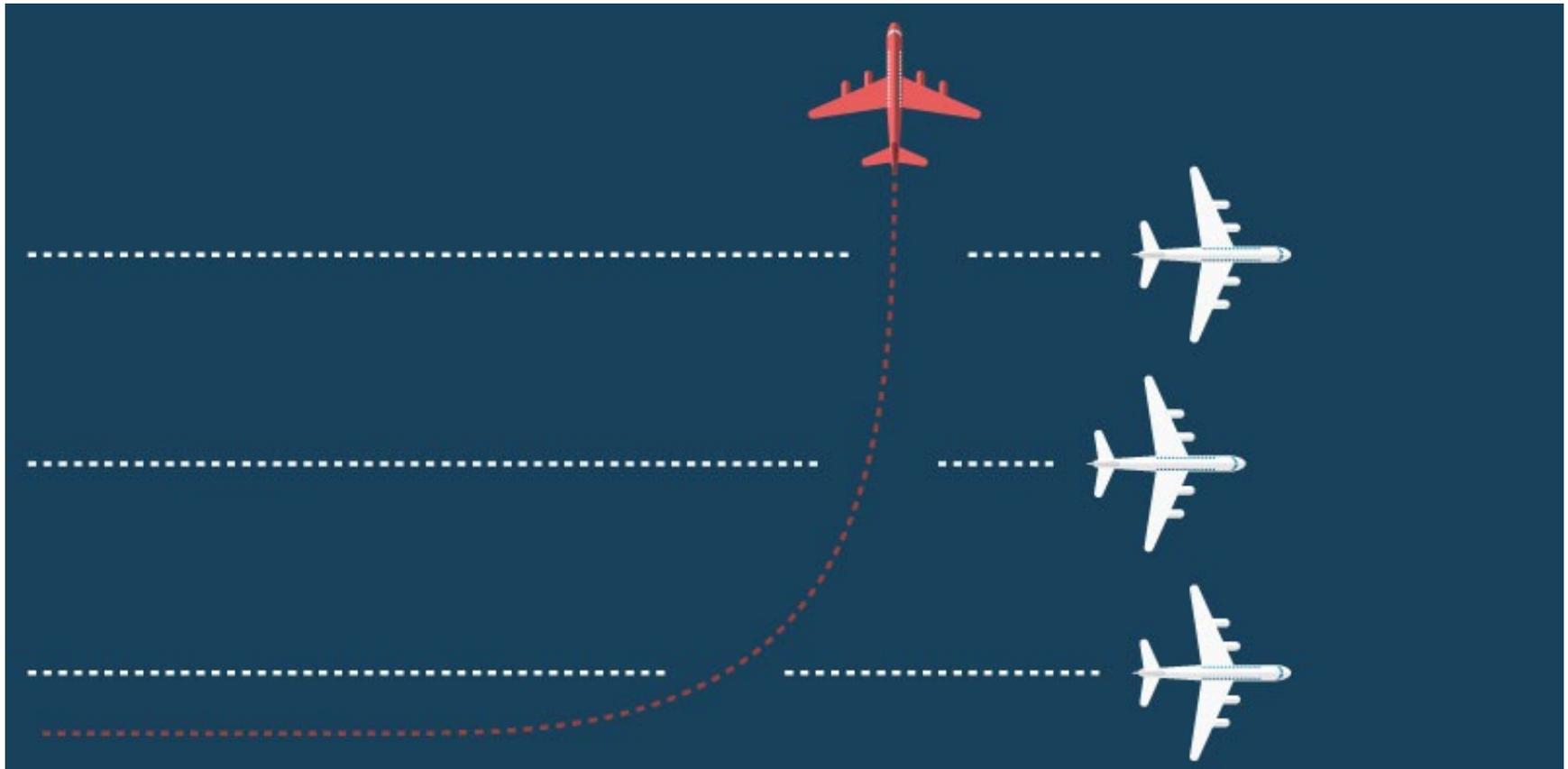


Two innovation group activities

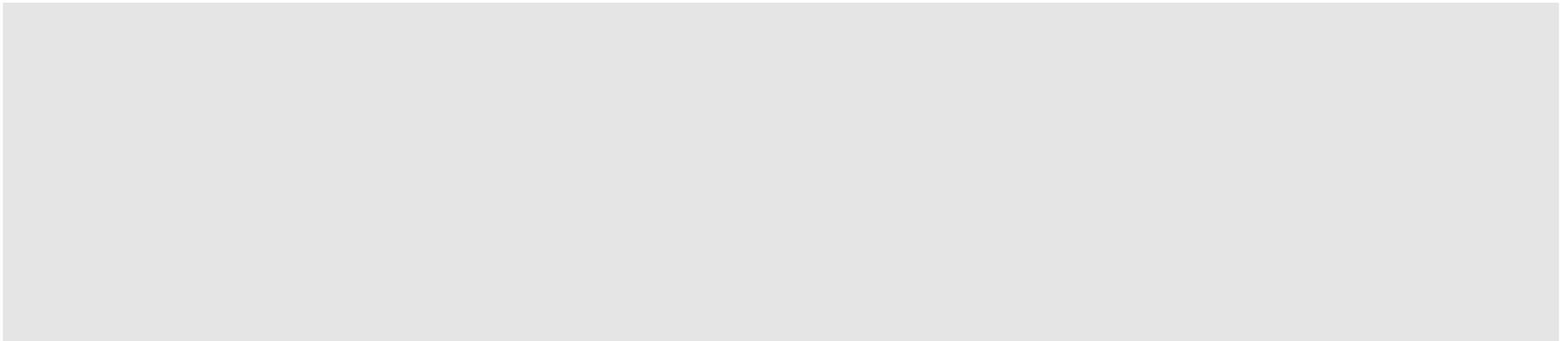
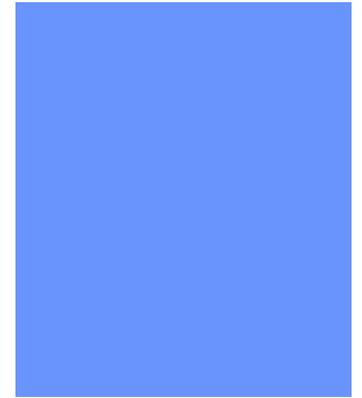


Conclusion

Which plane is your organisation?



Over recent years, our industry has identified a number of champion innovators through the annual Rocktec Innovation Award.



**External
Drivers.....
no escaping!**



Political



Economic



Social



Technology



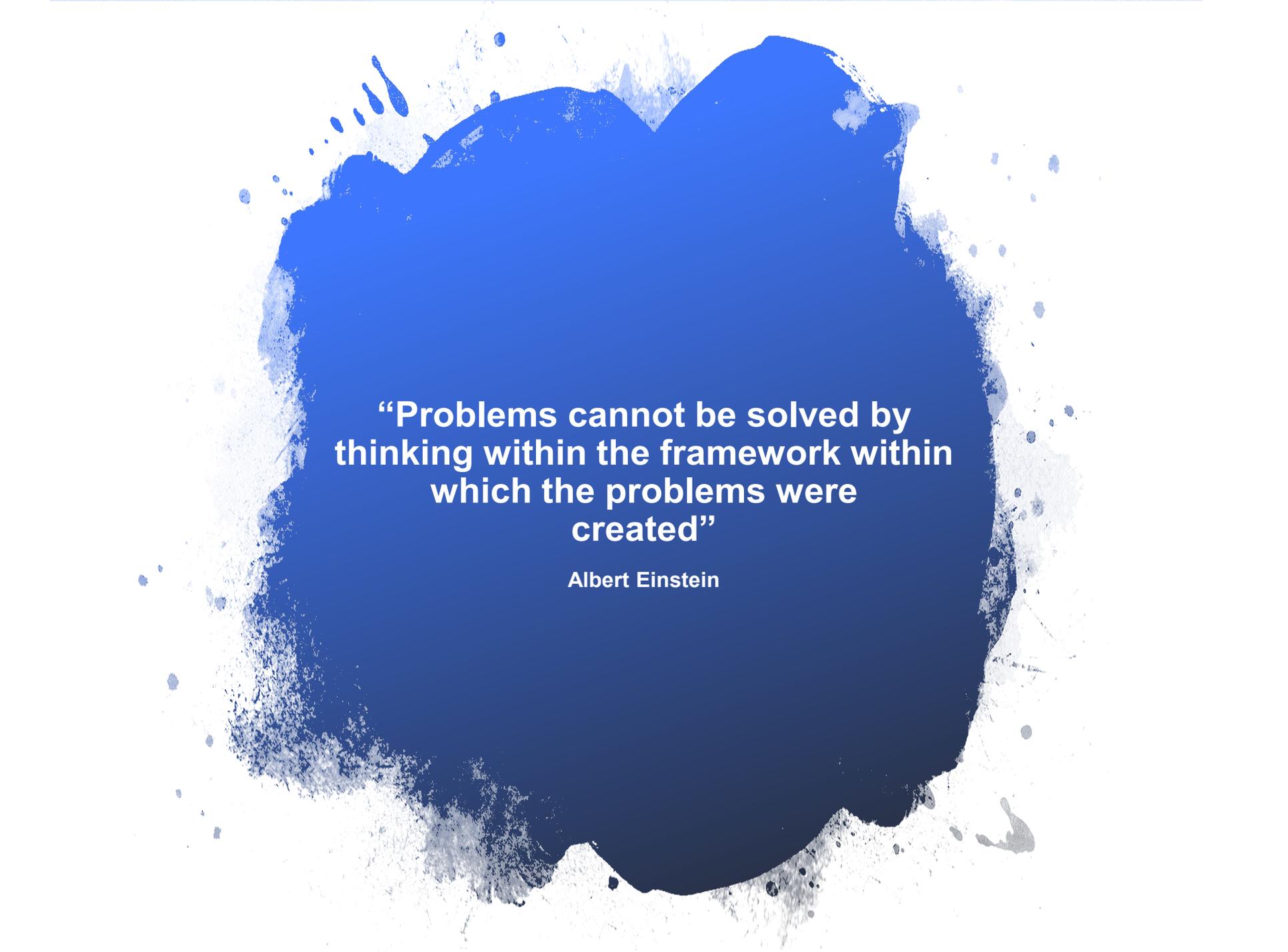
Environmental



Legal

**Co-
collaboration
will save the
day! Gone
are the days
of 'fixing this'
yourself!**





**“Problems cannot be solved by
thinking within the framework within
which the problems were
created”**

Albert Einstein

Innovation can be learned

Basic Rules of Innovation



No criticism whatsoever. Everyone contributes without fear or favour.



Free-wheeling is welcome. The crazier/wackier the idea, the better!



The more ideas, the better. Building on others' ideas is encouraged.



If you don't find the innovative solution the first time, then try again.



Ask 'What if?' to engage the team.



Believe in yourself. Your idea matters.



Warning!

**Premature evaluation of an
idea will prevent conception!**

Four (4) Innovation Techniques.....

Technique

Description

- **Problem/Need/Issue identification** **What is the problem/need/issue?**
- **Attribute listing** **Why is this happening? Why is this important?**
- **Brainstorming** **What are the ideas to address the problem/need/issue?**
- **Lateral thinking** **Discuss and explore each idea that is unique i.e. hasn't been done before**

Complaints Innovation Activity.....

Background: Concerns about the impact of quarrying are hardly new. Complaints about quarrying activities were voiced as far back as the 1890s. The issues of concern haven't changed over time – visual intrusion, damage to landscapes, traffic, smoke, noise, dust, loss of land, and a deterioration in water quality.

Situation: You have just been appointed as Quarry Manager of a quarry where your immediate task is to address community complaints regarding noise, dust and traffic. The previous manager has tried strategies such as meeting individually with the complainants to try and resolve their issues with very little success. Worksafe NZ has made contact with you to advise that they will be visiting your quarry next week to discuss the complaints they have received. You have contacted your head office for advice only to be told that you are now earning the big bucks and you need to get this problem sorted.

Task: You need to develop an action plan to resolve these complaints (community and Worksafe NZ). Using the methods of the past are not an option as the problems are still there. What innovations will you introduce and include in your action plan?



**Believe in
your self!**

**No more self talk, “I’m not an
innovator”.**

**Now, out of
interest..... who
sees themselves
as an innovator?**



Innovation conclusions.....



Innovation can be
learned!



You are not alone!



Keep your eyes
and attitude wide
open!