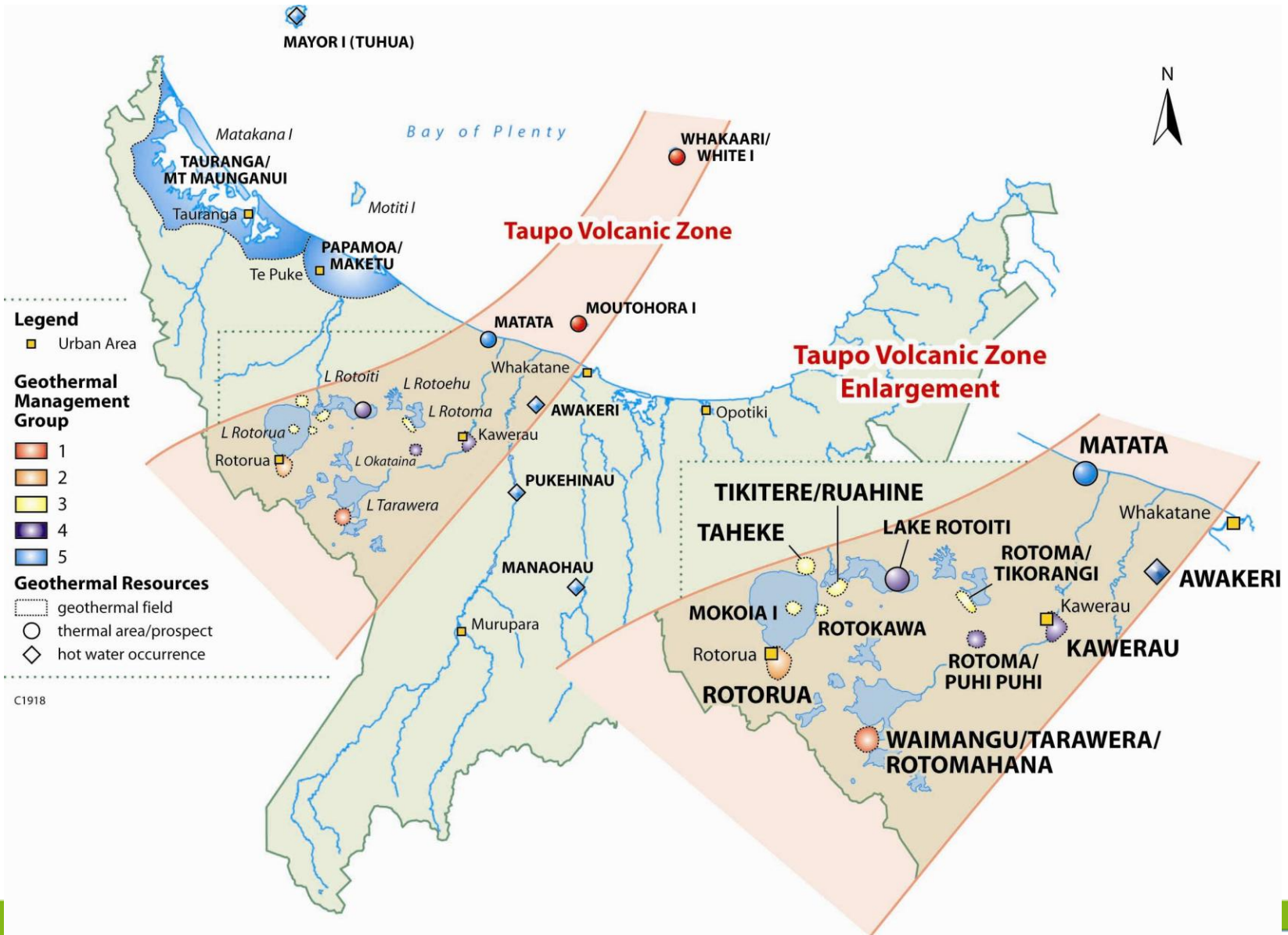


# Bay of Plenty Geothermal Activity

2012



C1918

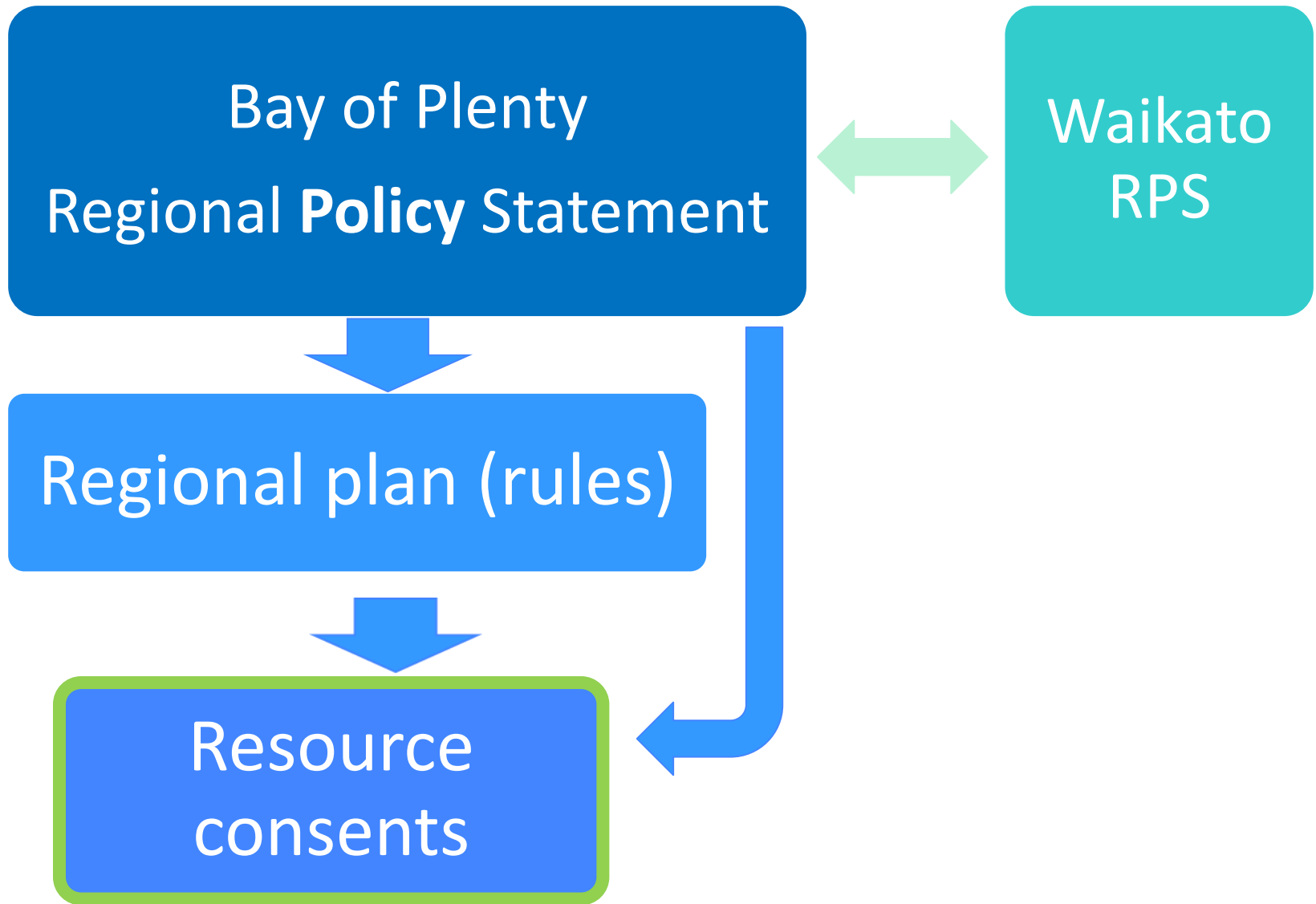
# Resource Management Act

## Regional Council

Allocate geothermal heat and fluid

Sustainable use principles

Optimise long term use



**Waikato – single user on each system**

**BOP – multiple users on each system**

**Rotorua = 160 commercial users**

**Kawerau = 3 industrial users (+2 pending)**

Tragedy of the commons?

Or optimal long term use, through collaboration?

How do several users

- collaborate
- optimise use

in one geothermal system?

# Coordinated use needs

an agreed way of working together

- a cunning Plan

# A System Management Plan

- Common Information on the system for a coherent view of the system
- Common Protocols and processes for gathering and using data/ models and reviewing information (peer panel)



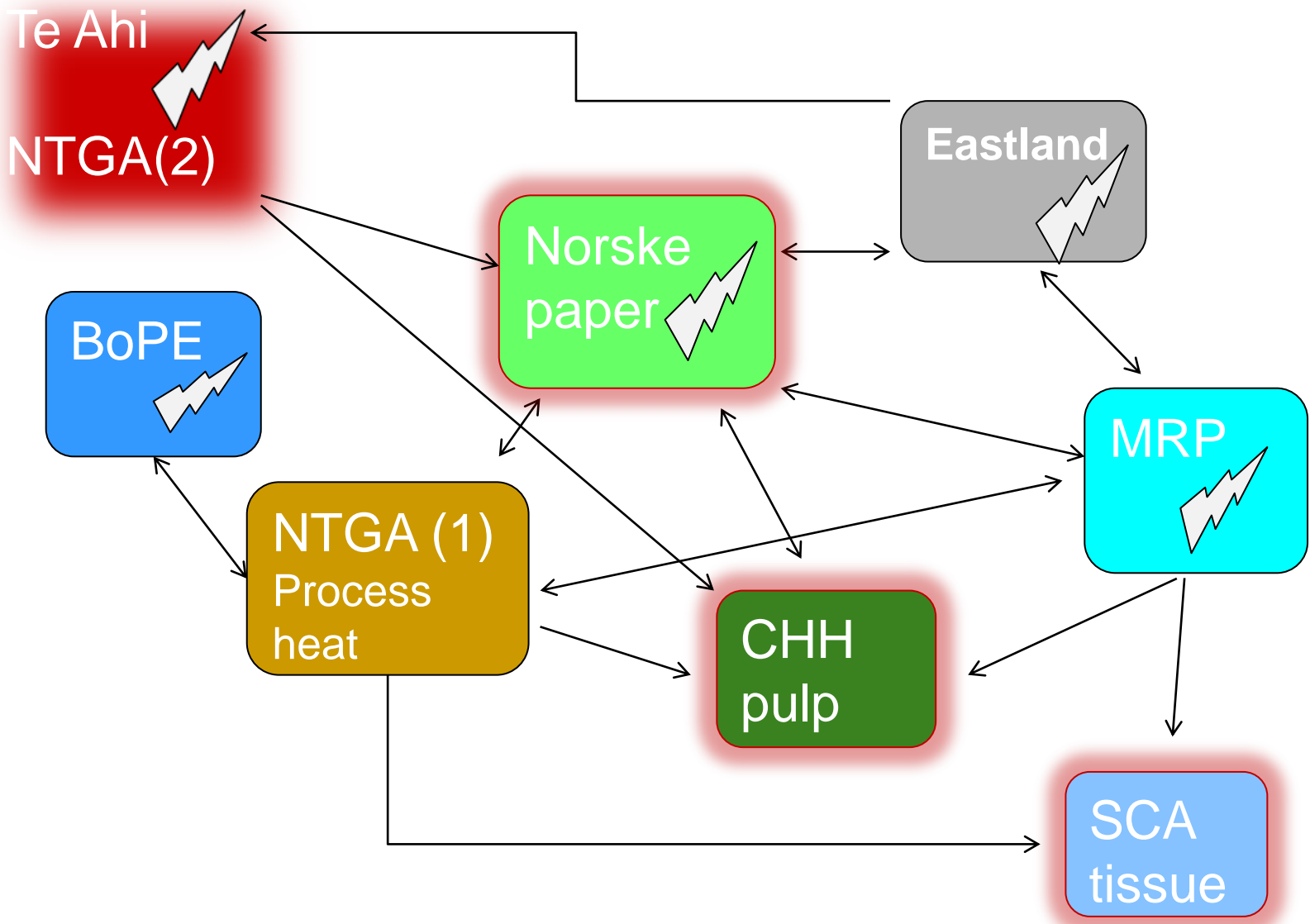
# The best time to develop such a plan?

A plan to cover adaptive management actions  
and contingencies?

Before you need to use it.

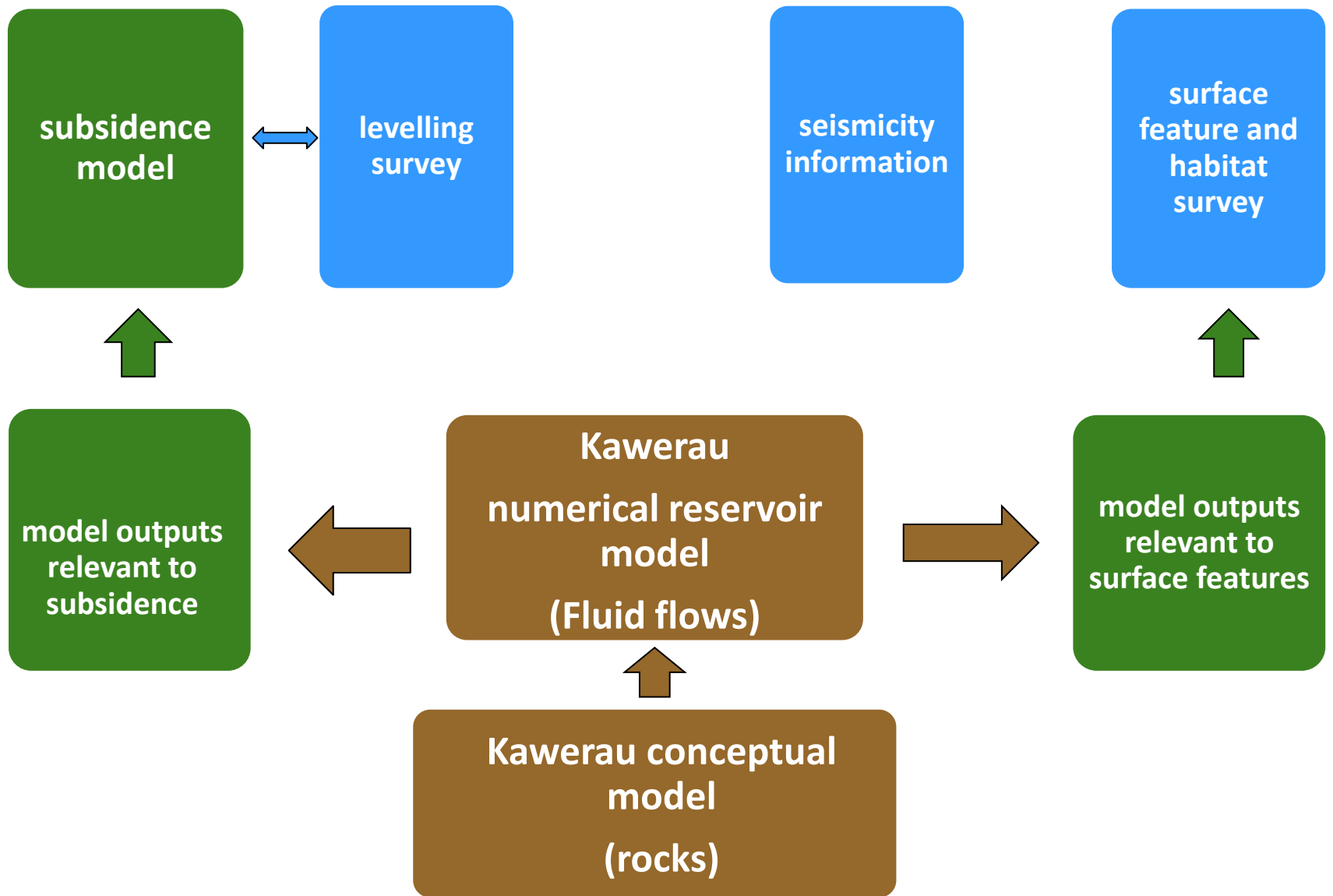
# Kawerau – largest geothermal industrial site in the world





# What sort of information do we need?

- Reservoir
- Surface effects – subsidence, seismicity, surface features



# Managing allocation

- for long term use

- in brownfield multi-user systems

Requires a cooperative and innovative mind-set

We are

1. adding allocation (moving target) and
2. retrofitting the system management plan onto existing allocation

It's a learning experience for all of us.

