

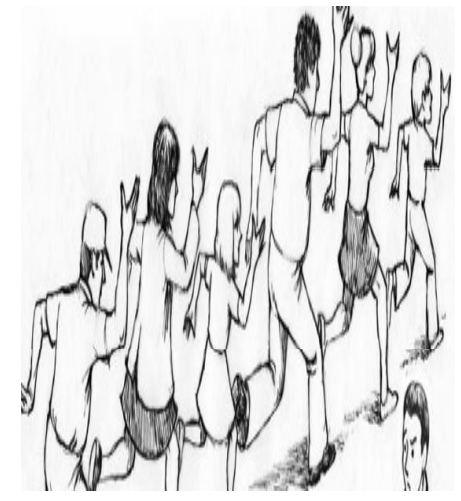
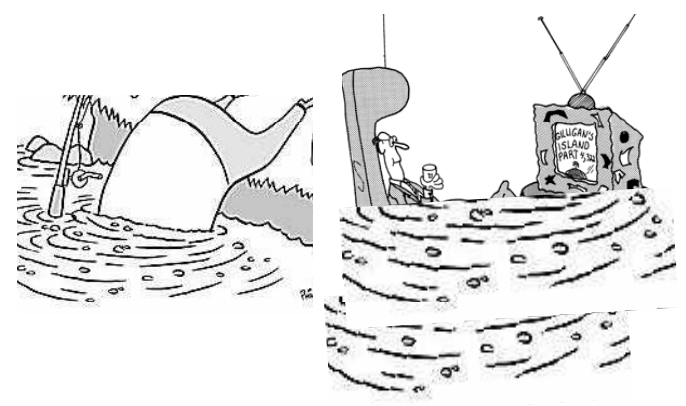
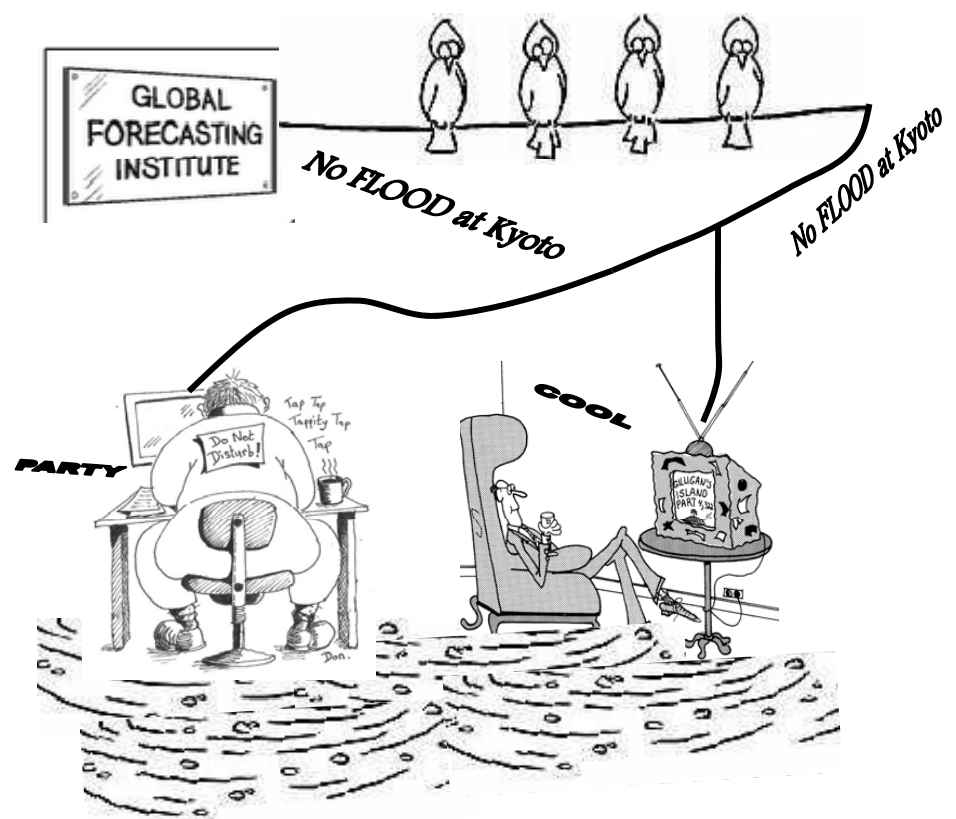
Some Thoughts on Fundamentals of Implementation Science for Disaster Reduction

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Issues to be discussed

- Fundamentals to explore and conduct in this new research domain
- The basic characteristics of “implementation” :
Okada’s interpretation

What are fundamentals about?

- Foundations, perspectives, communalities, conceptual models and methodological frameworks, tool kits, etc.
- In contrast with \Leftrightarrow Contexts (situational parameters), **differentials, specifics and uniqueness** to **make it special and living life which is at disaster-related risk and in need and at has coping capacity for collective action**

“Implementation”

Okada’s linguistic interpretation

- To put yet-un-identified something into yet-unspotted place
- Adaptation, Dynamic process, Mutual collaboration and co-learning (multilateral knowledge-linked-to action development)
- how to remove unseen “one last mile” obstacles (barriers) which divide between potential producers and customers for disaster reduction.

Implementation Puzzels

- A list of several fundamental questions which are yet to be challenged
- By researchers from natural, engineering, social and human sciences in collaboration with policy-makers, practitioners and citizens

Just to mention a few

(might have already been addressed and answered in other disciplines)

- i) adaptation to overcome mind-set issues,
- ii) tuning tricks based on perception, attitude and behavioral patterns,
- iii) innovative institutional design for enhancing contingent “win-win vital solution,”
- iv) spiral process of adaptive management for disaster reduction, etc

Conceptual modeling of Vitae System

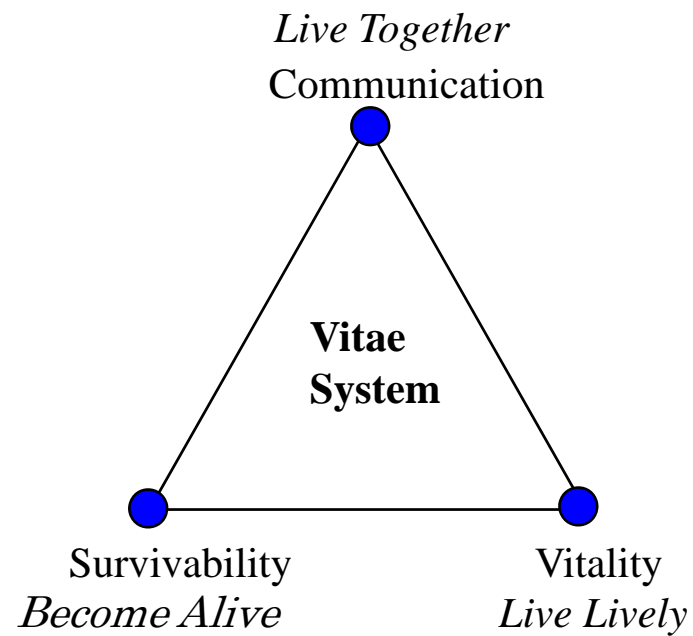
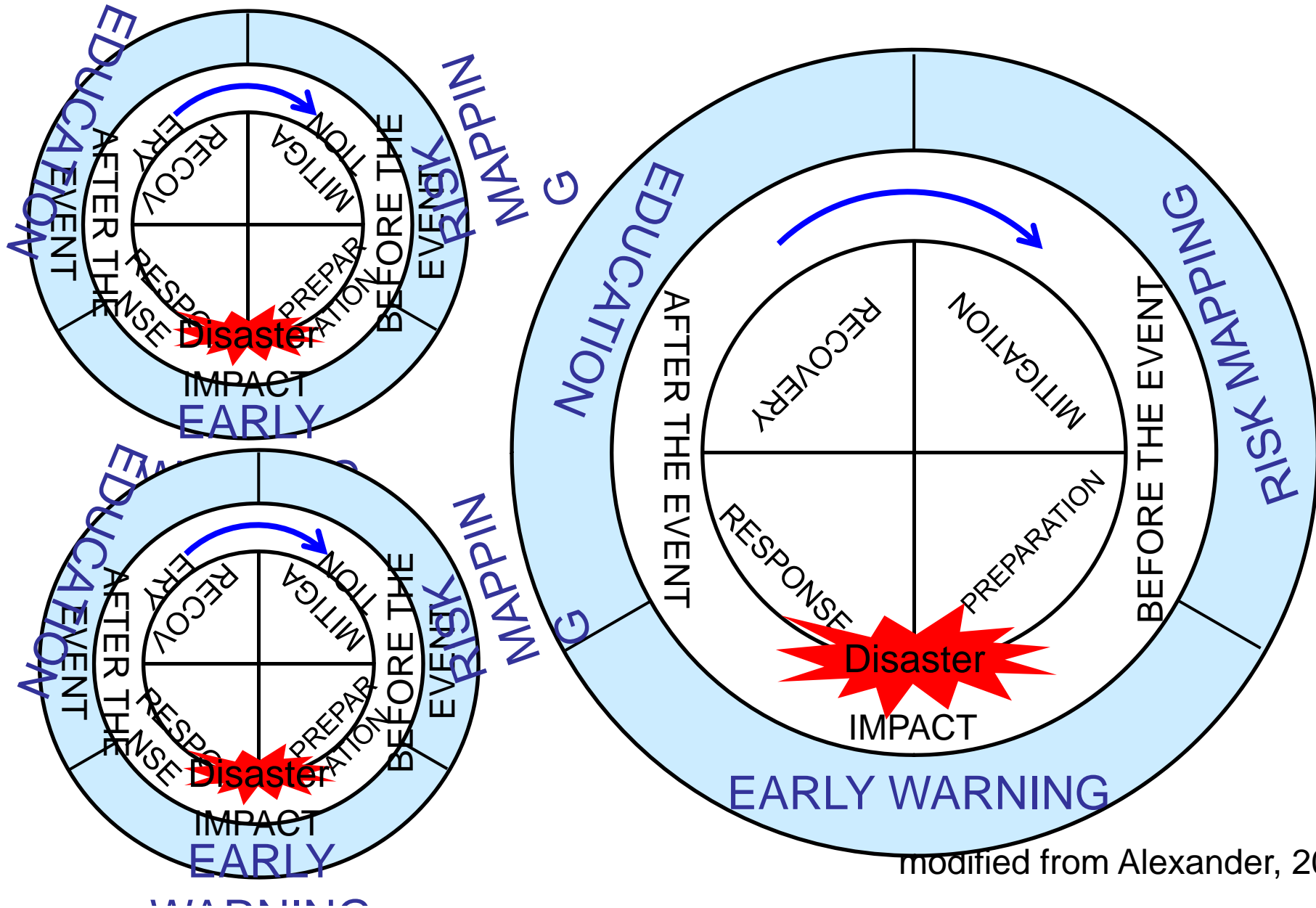


Fig. 1.1 Prototype Model of Vitae System

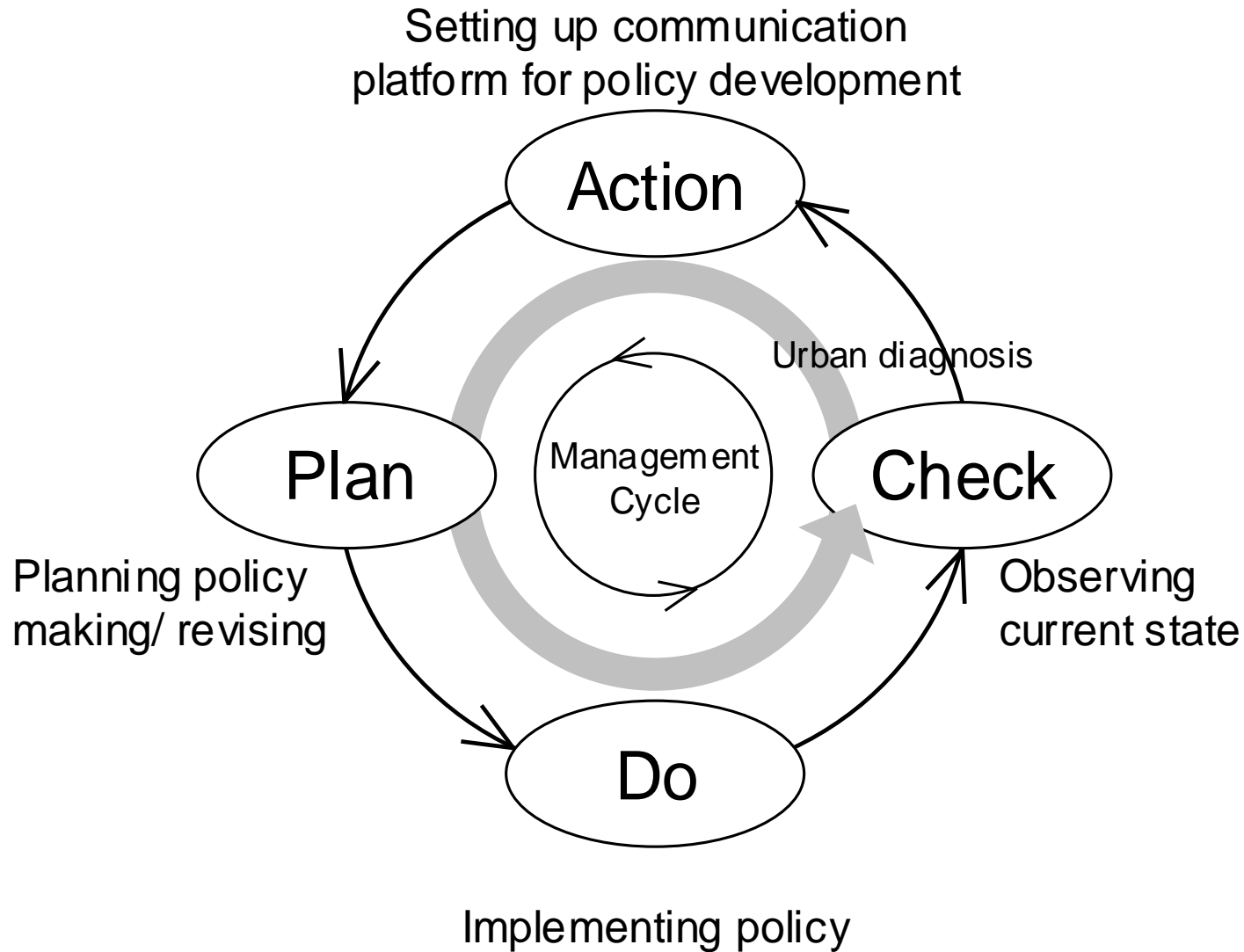
Managing Multiple Disaster Clocks



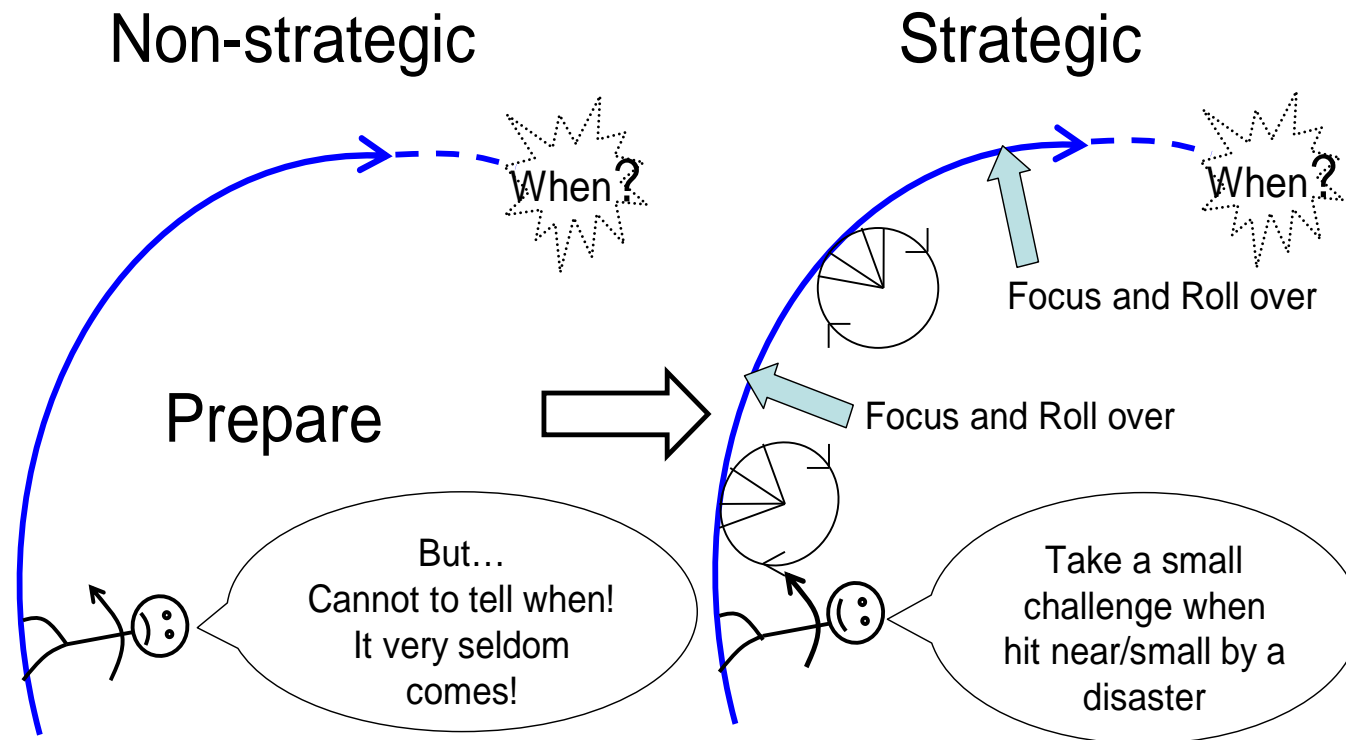
modified from Alexander, 2002

Plan-Do-Action-Plan Process

Small but Complete by Adaptive Management



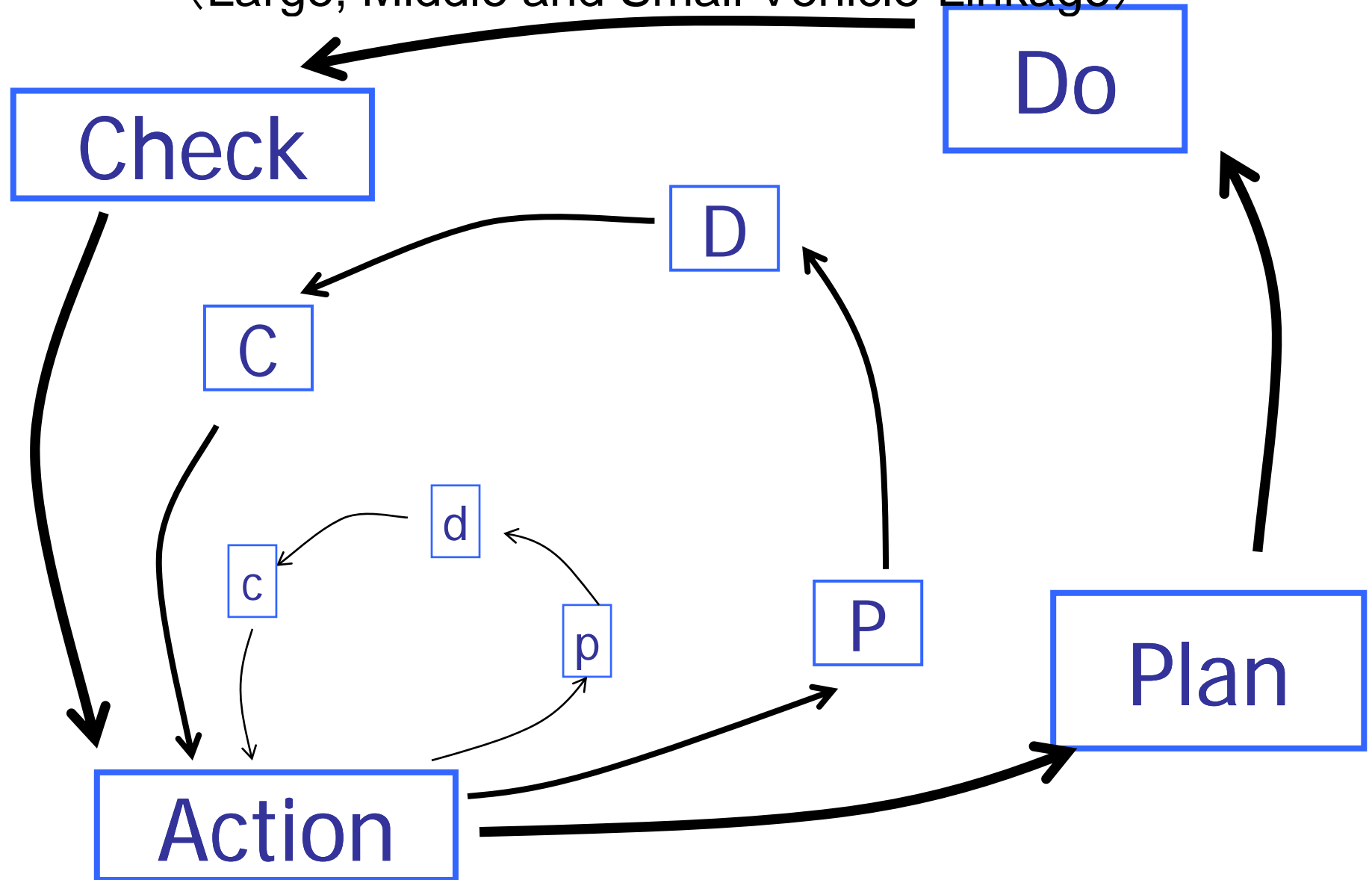
Strategic Shift towards Sustainable Disaster Cycle Management

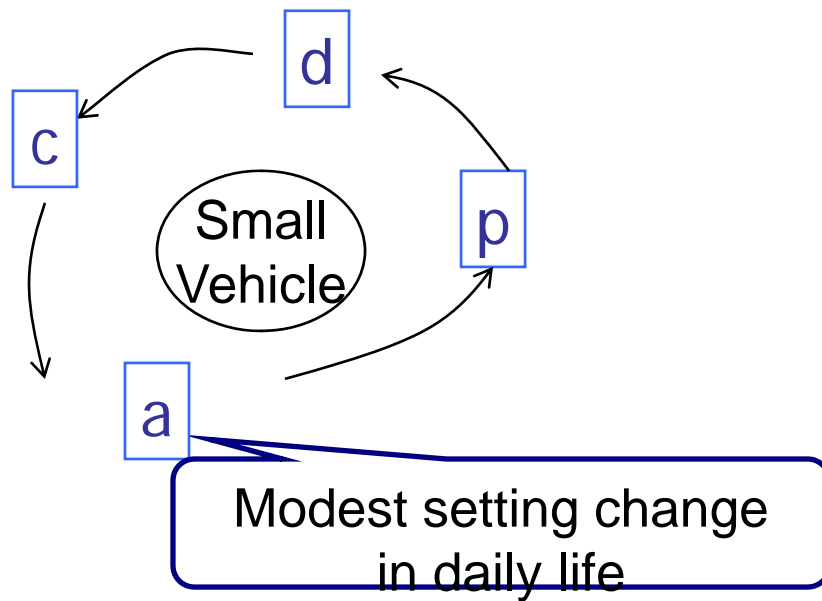


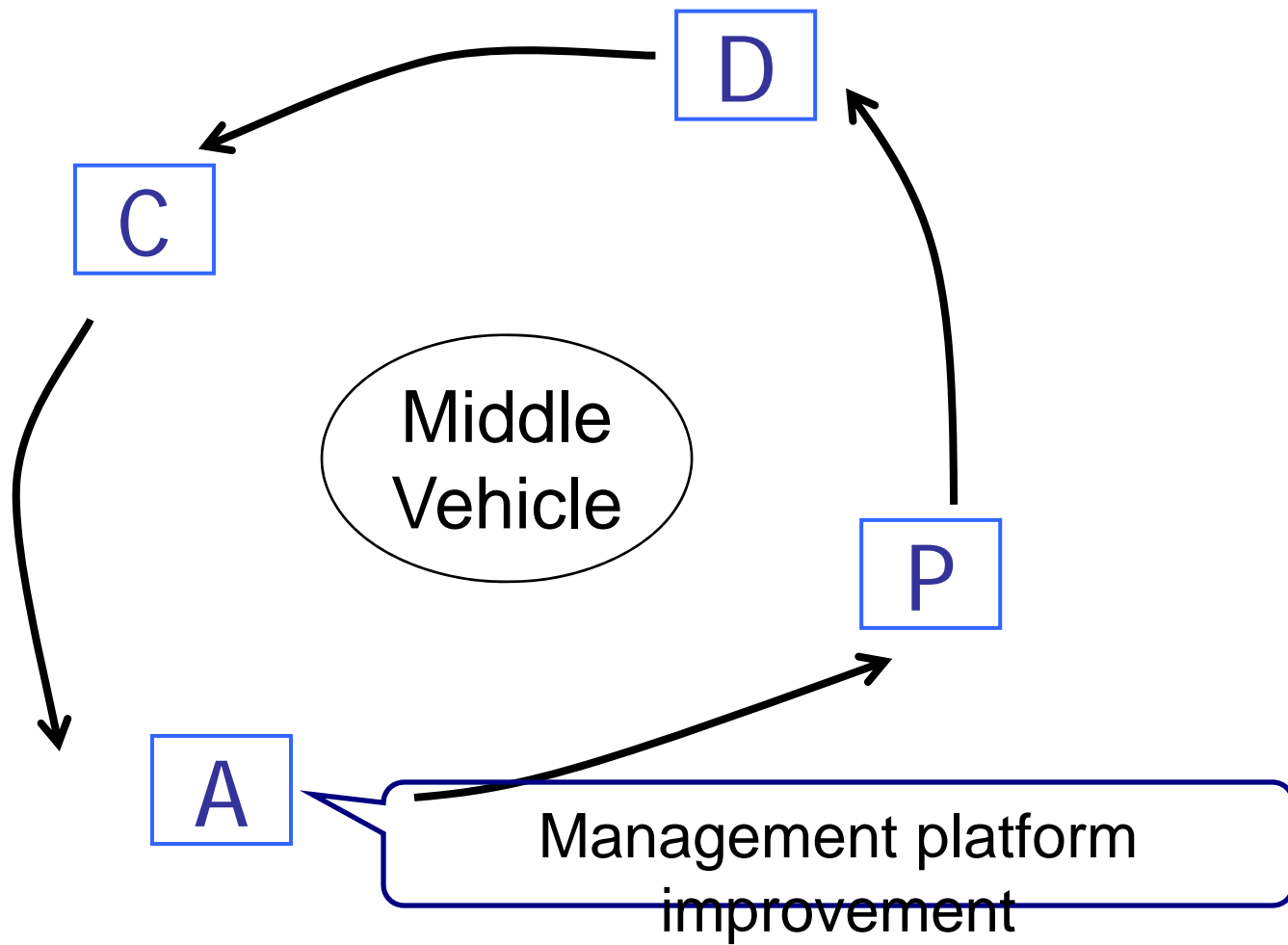
- Not easy to maintain awareness for long
- Not easy to bring it into motion from inside
- Not easy to become rhythmical between tension and relaxation in a day-to-day pace mode
- Not to be encouraged and rewarded by the effort

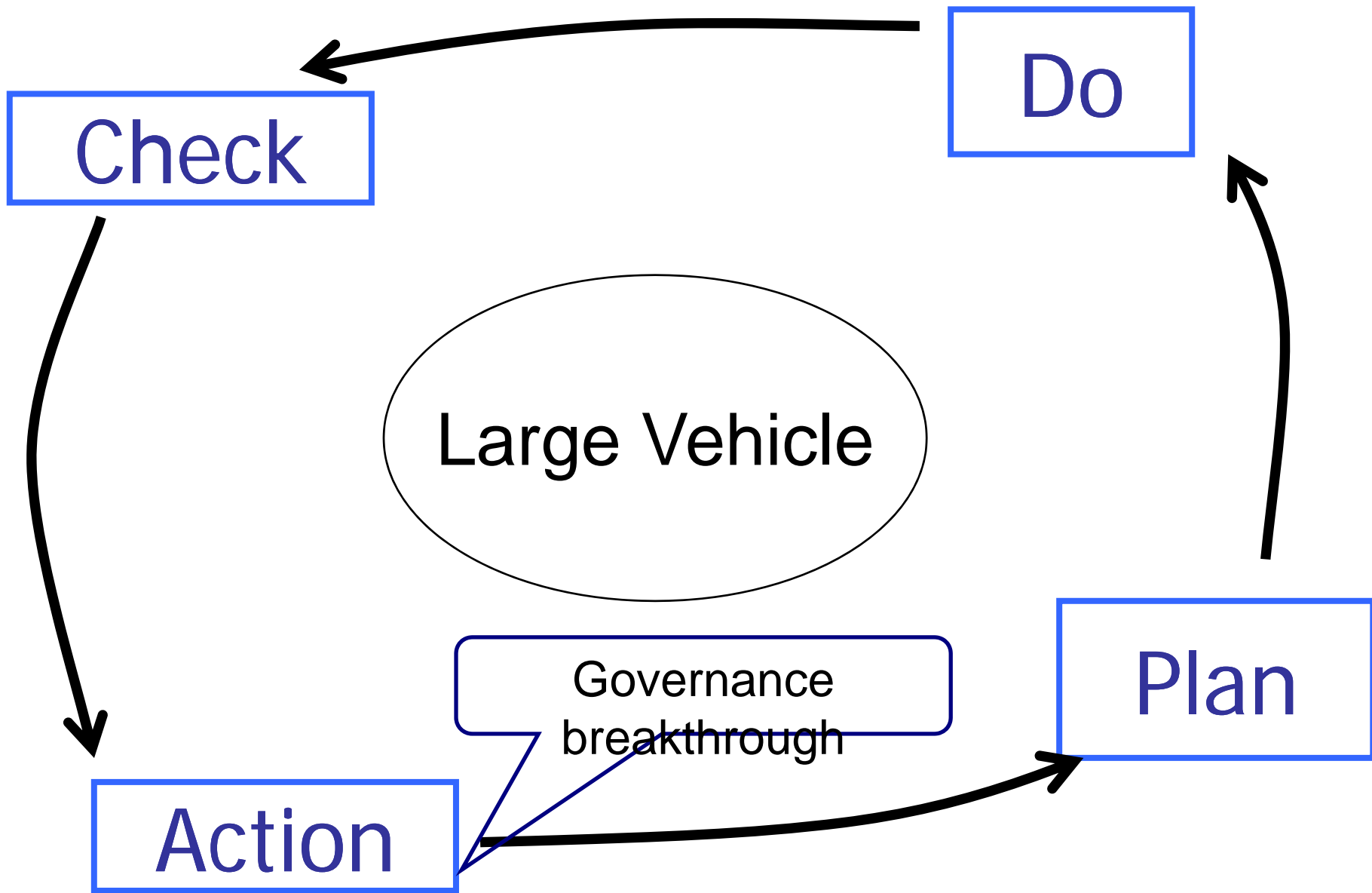
- To put in PDCA small cycles as fliers
- To catch the timing and external moment (shock)
- To beat the time with tension and relaxation
- To encourage and motivate people by making it visible and rewarding

Nested Structure of PDCA Cycles (Large, Middle and Small Vehicle-Linkage)









What science(s) are about?

- Changed and Unchanged
(Traditions/Conventions)
- Past, Present and Near Future
- Here, There, Over there in Discipline
- From the standpoint of science
professionals, users, critics
- Atsumi's presentation

Younger generations!
Why not Challenge!