

Complexity, Simplicity and Results-based Management

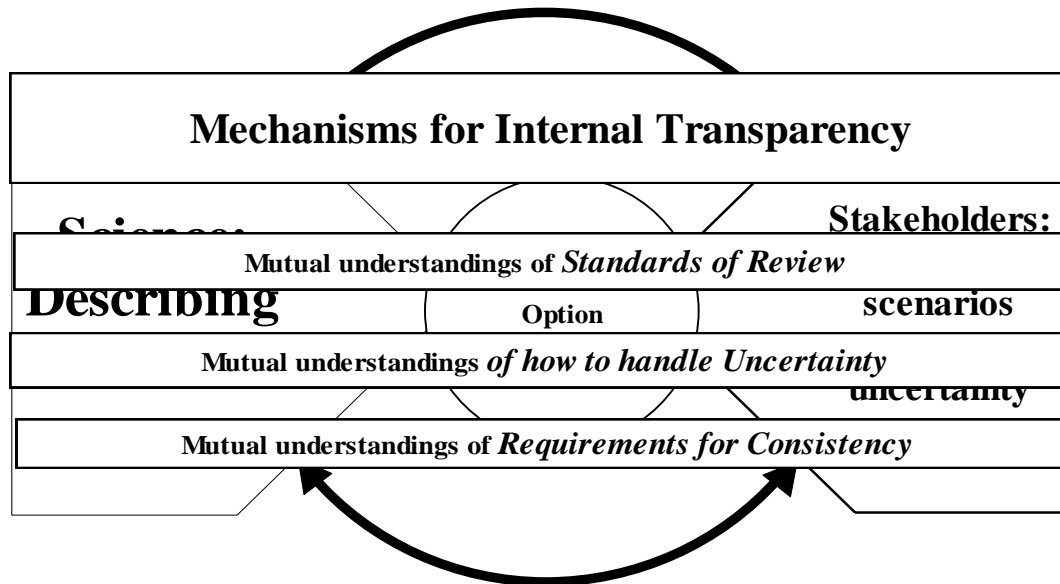
from The Paradoxes of Transparency:
Science and the Ecosystem Approach
to Fisheries Management in Europe

Co-management

v

Co-operative management

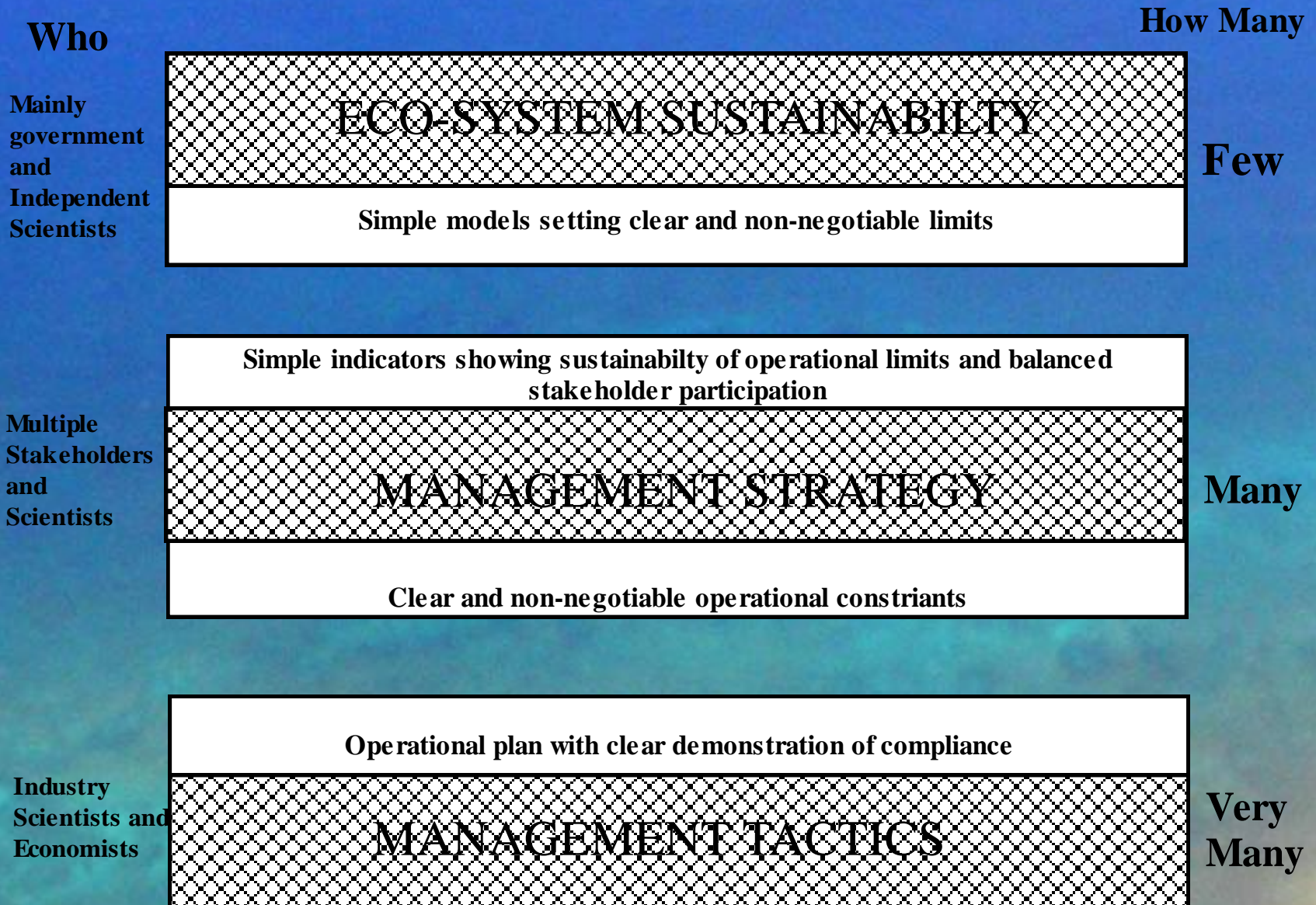
A sub-culture of mutual accountability



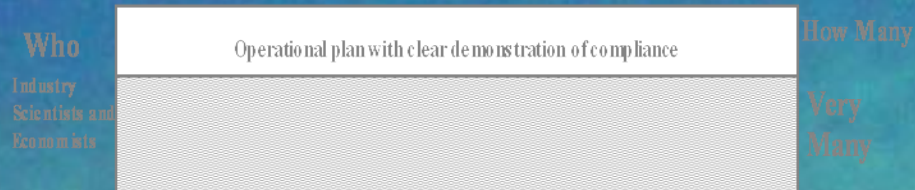
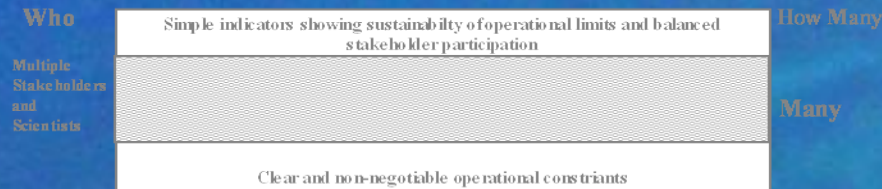
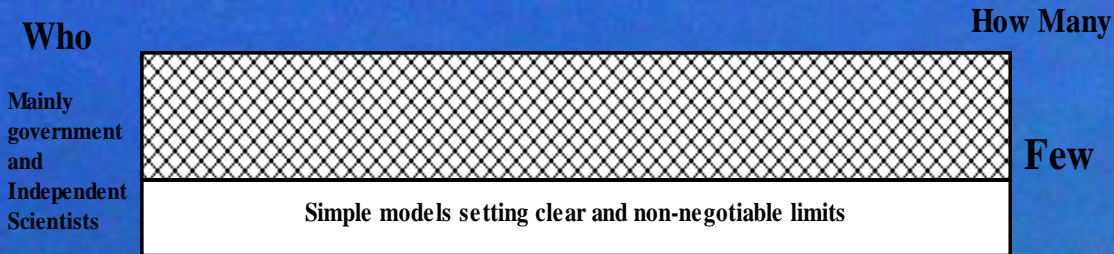
Collaborative Research / Participatory Modelling

that is opaque to outsiders

Simplicity and Complexity on Three Levels

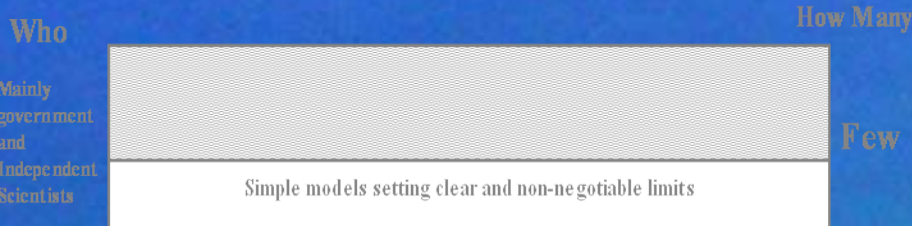


The Outer Level: Ecosystem



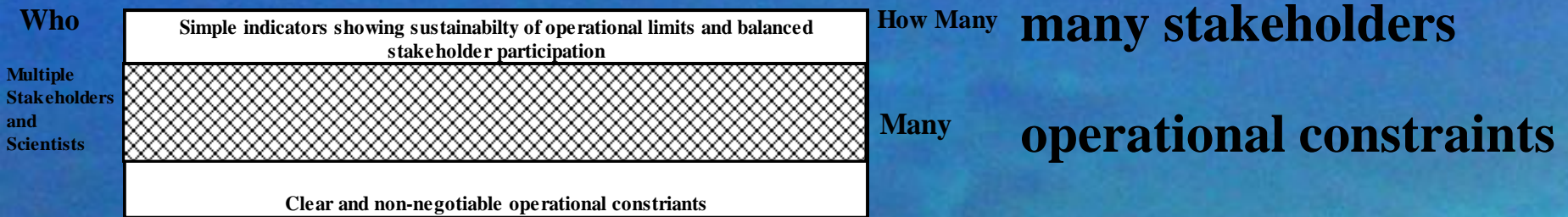
- regional level
- broad participation
- public process
- ecological limit setting
- balance at lower level
- ecosystem integrity
- simple models

The Middle Level: Management Strategy



fishery / area level

wide process



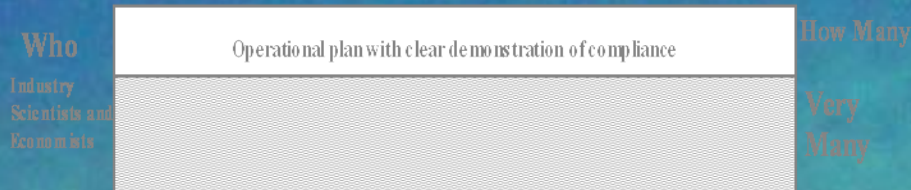
many stakeholders

operational constraints

contingency based

scenario modelling

shared scientific literacy



The Inner Level: Management Tactics

user level

limited group

scientists, economists, industry

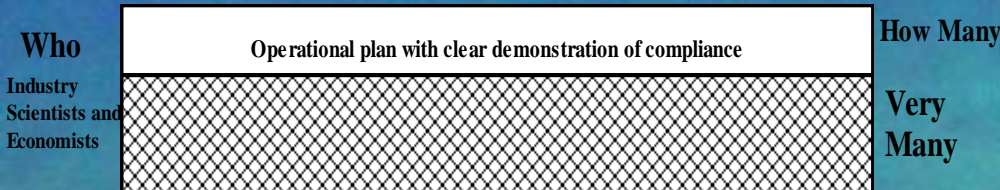
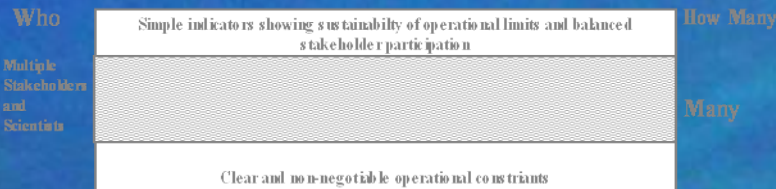
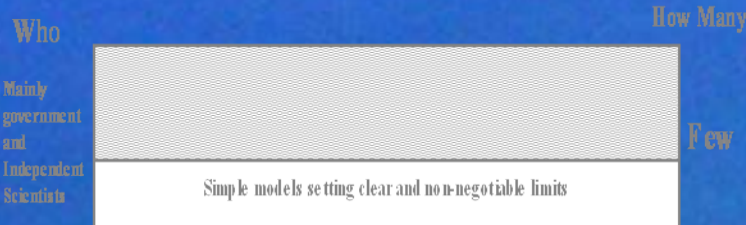
plans for meeting constraints

shared scientific literacy

heavy participatory modelling

responsibility for demonstration

high quality rights



Problems

- **Defining fisheries as a political problem**
- **New forms of allocation**
- **The "responsibility for demonstration" (i.e. reversed burden-of-proof)**
 - **The "drug company" problem**
 - **Narrowing of scientific capacities**