

# Implementation Science: The Role of Field Campus and Case Stations

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# Key Concepts of Implementation Science

1. Complexity
2. Uncertainty
3. Contingency
4. Vitality
5. Feasibility VS. Viability
6. Case-study Stations
7. Prototype Technology
8. Sustainability
9. Open System
10. Governance
11. Mutual Acceptance
12. Cultural Calibration
13. Urban Diagnosis
14. Vulnerability

# Implementation Science: Five Essential Components

- Collaborative Action
- Process Sustainability
- Disseminability
- Vitality
- Viability

# Five Essential Components

1. Collaborative Action

Proposals for implementation must be acceptable to the multiple stakeholders.

2. Process Sustainability

Dynamic sustainability that allows for sustained improvements in the state of knowledge.

3. Disseminability

Ability to successfully disseminate implementation strategies.

4. Vitality

Dynamic surge of embedded human energy that can be readily used for implementation.

5. Viability

Ability for quick, practical, and innovative management and decision-making.

# Field Campus and Case Stations

- Successful IDRM hinges on integrating implementation science into research and higher education. Field campus and case stations are powerful tools in achieving this objective.
- Case Stations will continually monitor information, allowing for the incorporation of changes, as and when they occur. Discontinuities in the flow of information are minimized; local, national, and regional differences are accounted for; and accessibility is ensured. Under conventional case studies, this is difficult to achieve e.g. January 2001 earthquake in Gujarat, India.

# The Case for Case Stations and Field Campus

1. Continual monitoring of information.
2. Instant access to information.
3. Not temporally and spatially constrained.
4. Enhanced diversity and range of information including social, cultural, political, and institutional.
5. Ability for comparative analysis of data.
6. Field-based information bridges the gap between researchers and policy-makers.
7. Overall implementation viability and effectiveness significantly enhanced.