

Evaluation in 2014-2020: Challenges and Opportunities

First annual conference of the National Coordination Authority's Evaluation Unit



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Dealing with complexity in evaluation: challenges and practical solutions

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Outline

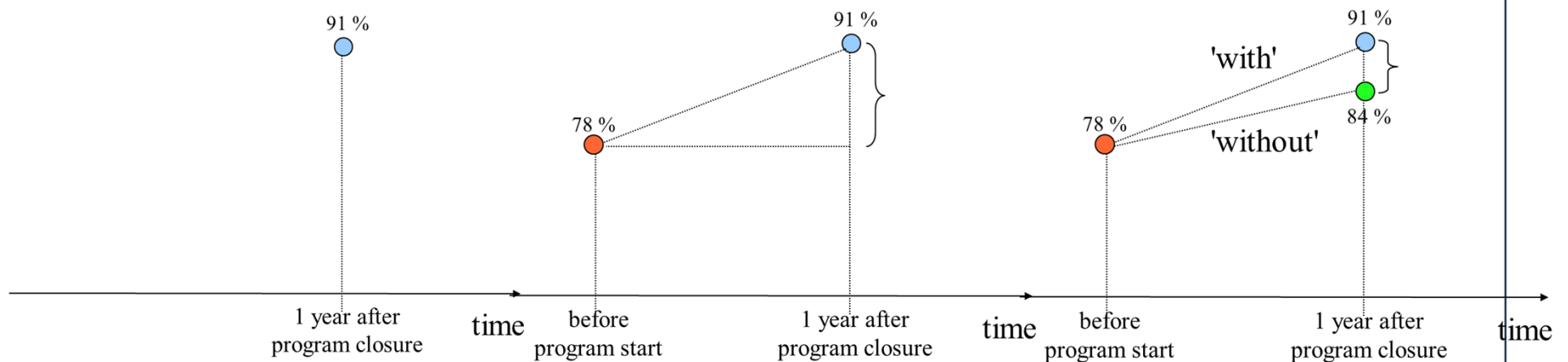
- Three prevalent methodological challenges in evaluation
- A 'practical' approach to dealing with complexity in evaluation
- Concluding remarks

Intervention bias and confirmation bias

- Commissioners of evaluations and program managers often have a narrow program perspective on reality: program is the focus of planning, implementation and evaluation processes
- This affects the ToR and the type of evaluation approach that is used in practice
- As a result, insufficient attention is paid to the influence of context, history, and unintended effects

Attribution / contribution

- Consider the classical attribution problem



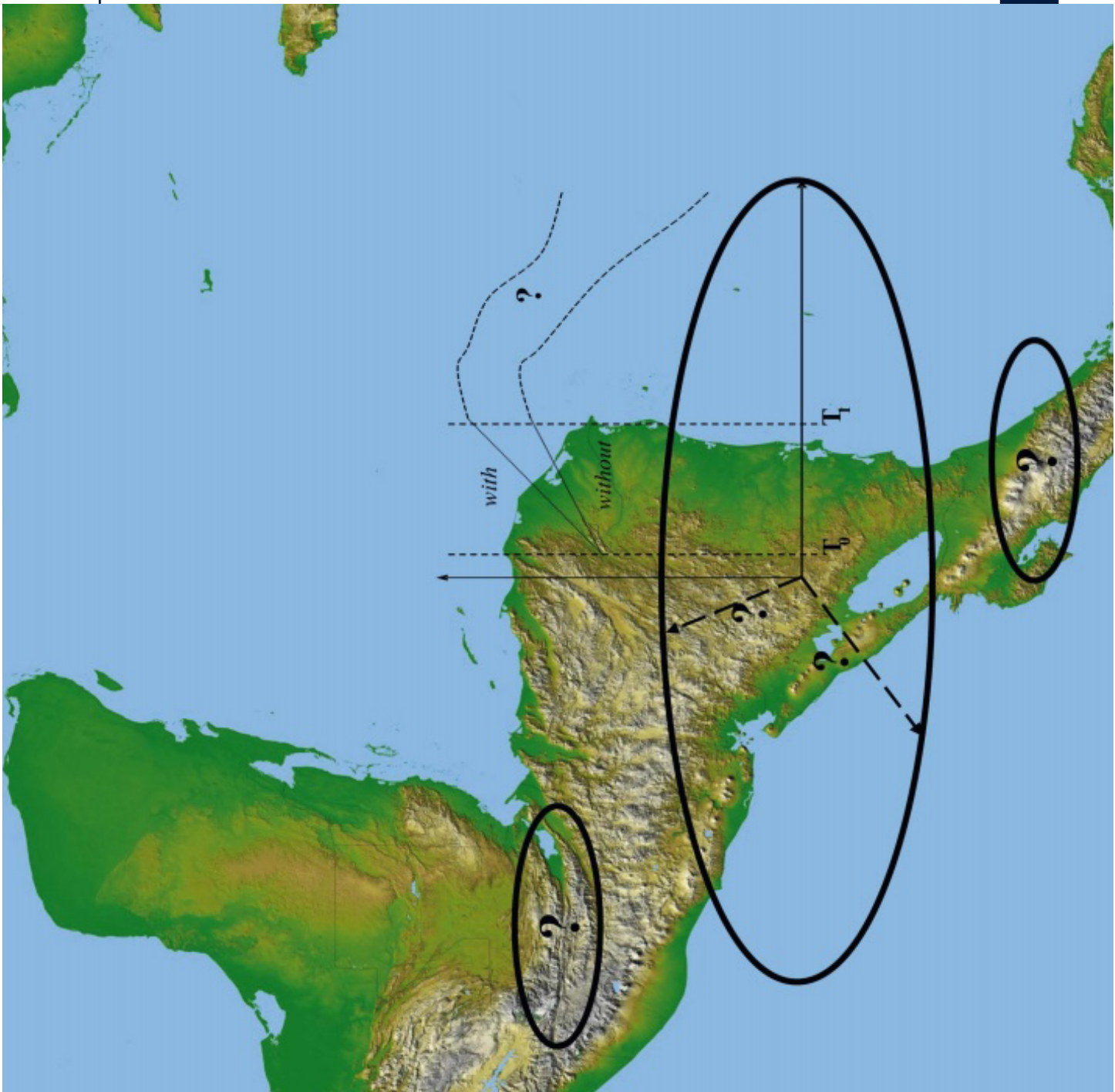
Attribution / contribution

Do (quasi-) experimental designs really satisfactorily address key validity issues?

◦ **construct validity**: How do we make sure that the variables that we are measuring, adequately represent the underlying realities of interventions linked to processes of change?

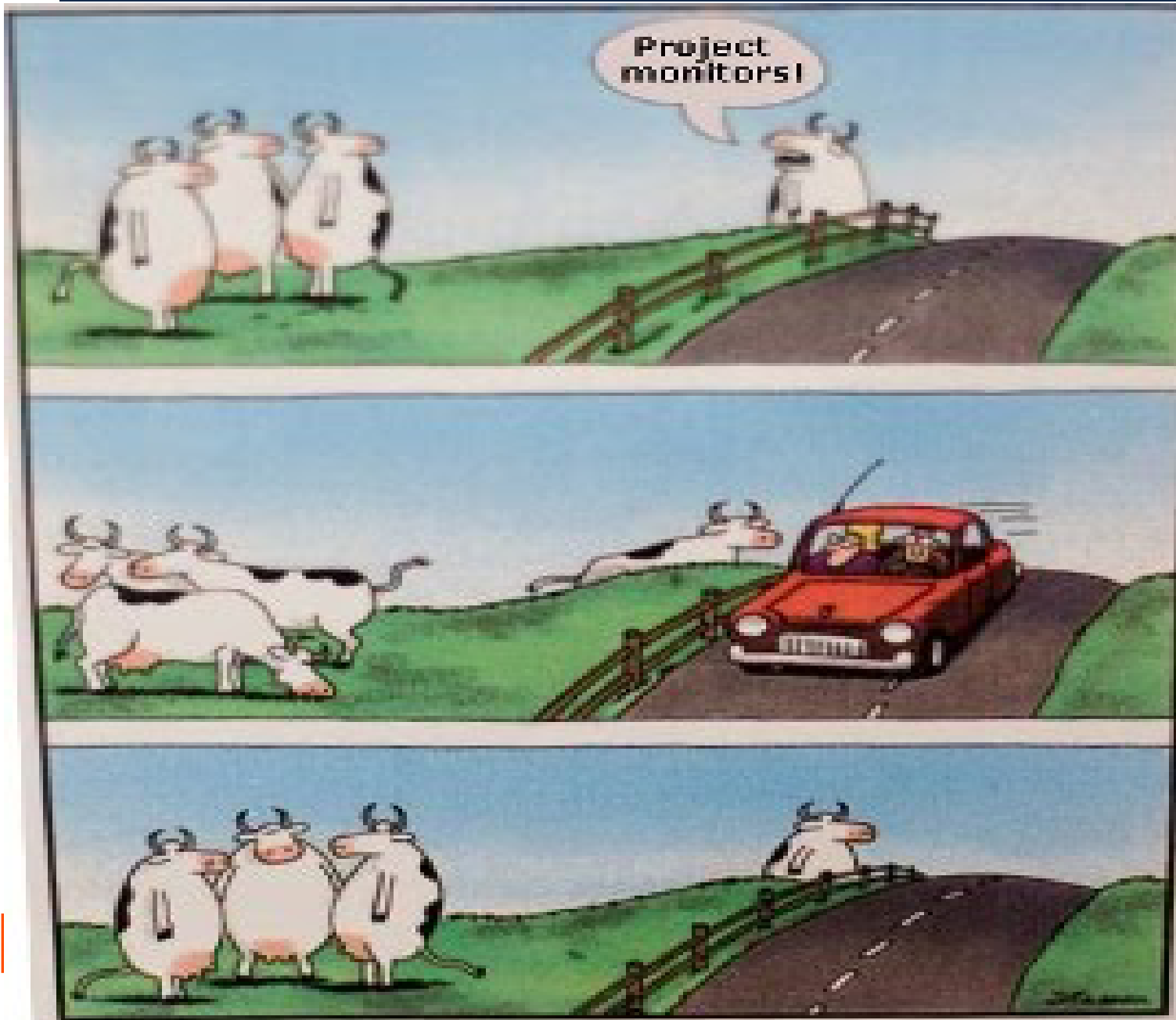
◦ **external validity**: How do we (and to what extent can we) generalize about findings to other settings (interventions, regions, target groups, etc.)?

◦ **internal validity**: How do we establish that there is a causal relationship between intervention outputs and processes of change leading to outcomes and impacts? (!)



Measurement

- Sources of data
- Data gaps
- Reliability



- How to deal with these (and other) challenges?
- A 'complexity' perspective in evaluation is needed

Dealing With
COMPLEXITY in
**DEVELOPMENT
EVALUATION**
A Practical Approach



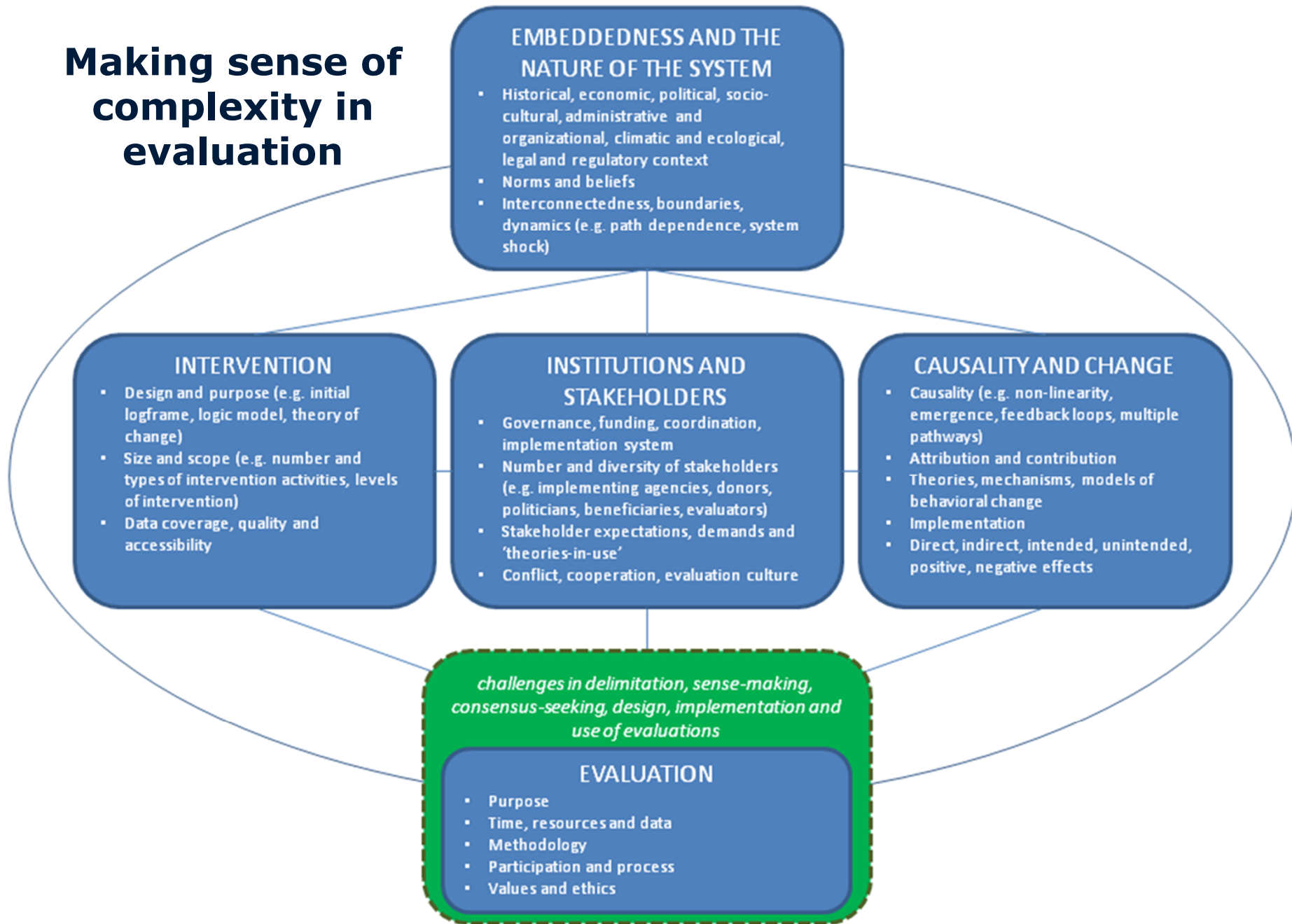
Michael Bamberger | Jos Vaessen | Estelle Raimondo
Editors



Seven manifestations of complexity in evaluation (Pawson, 2013)

- Volition
- Implementation
- Context
- Time
- Outcome
- Rivalry
- Emergence

Making sense of complexity in evaluation

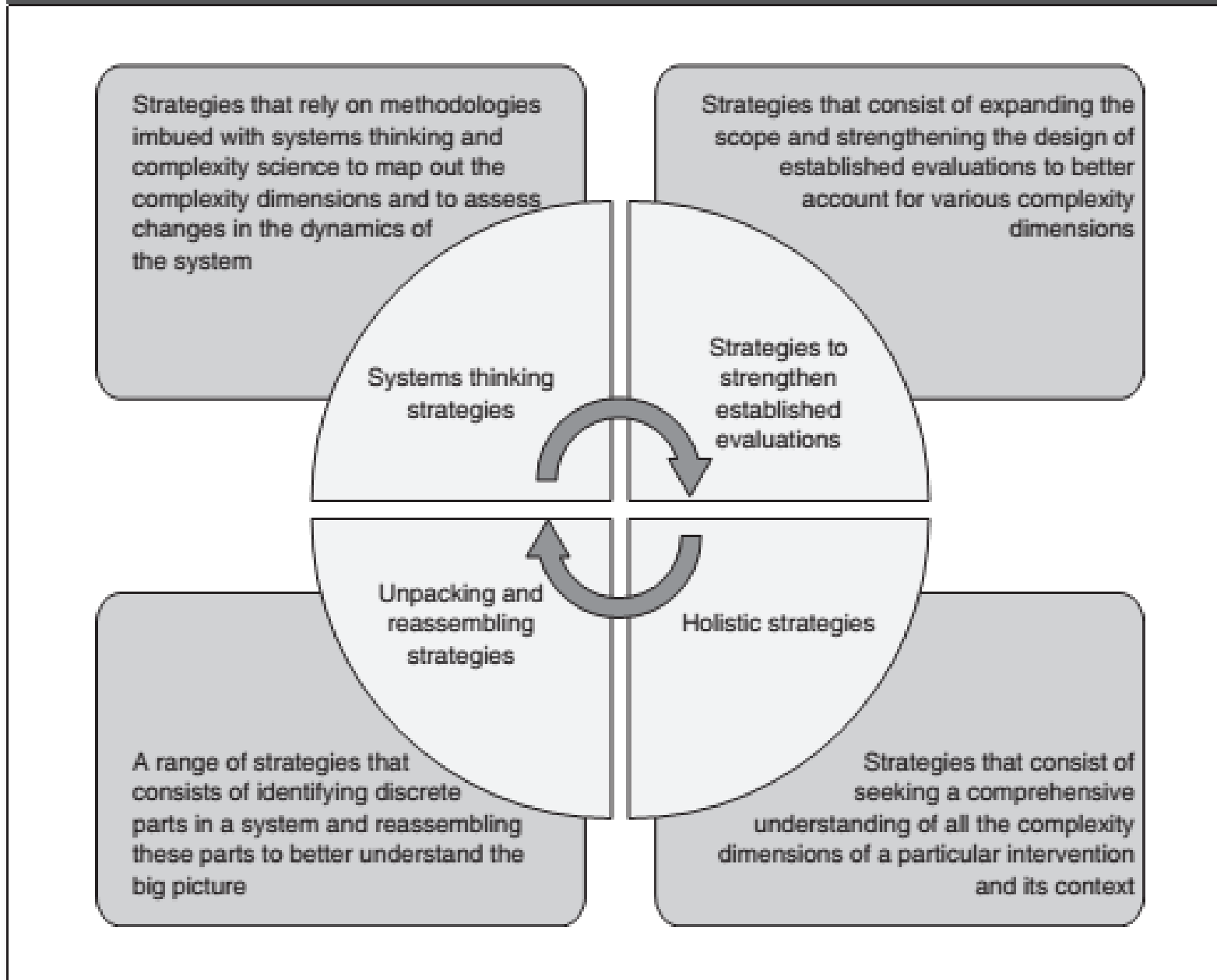


Source: Bamberger, Vaessen and Raimondo (2015)

Complexity-responsive evaluation

- “An evaluation that explicitly addresses complexity issues. It usually builds on (a combination of) established evaluation approaches, methods from complexity science, and principles such as unpacking”
(Bamberger, Vaessen and Raimondo, 2015)

Figure 2.3 Four Strategies for Complexity-Responsive Evaluation



Source: Bamberger, Vaessen and Raimondo (2015)

Unpacking and reassembling

Level 1: Mapping the complexity dimensions

Level 2: Selecting a unit of analysis

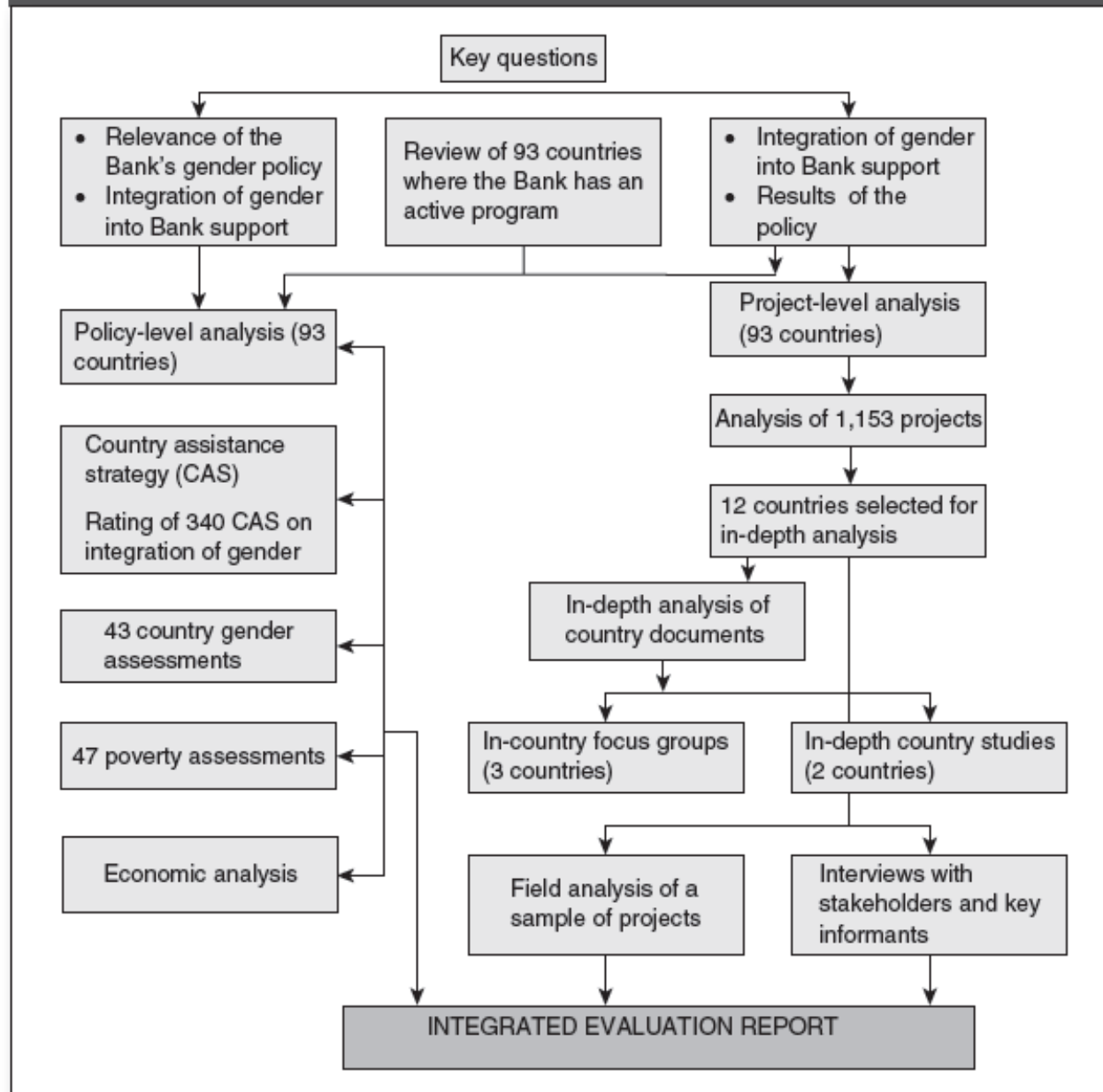
Level 3: Unpacking the system into various parts

Level 4: Reassembling the parts into a whole

Level 5: Going back to the big picture

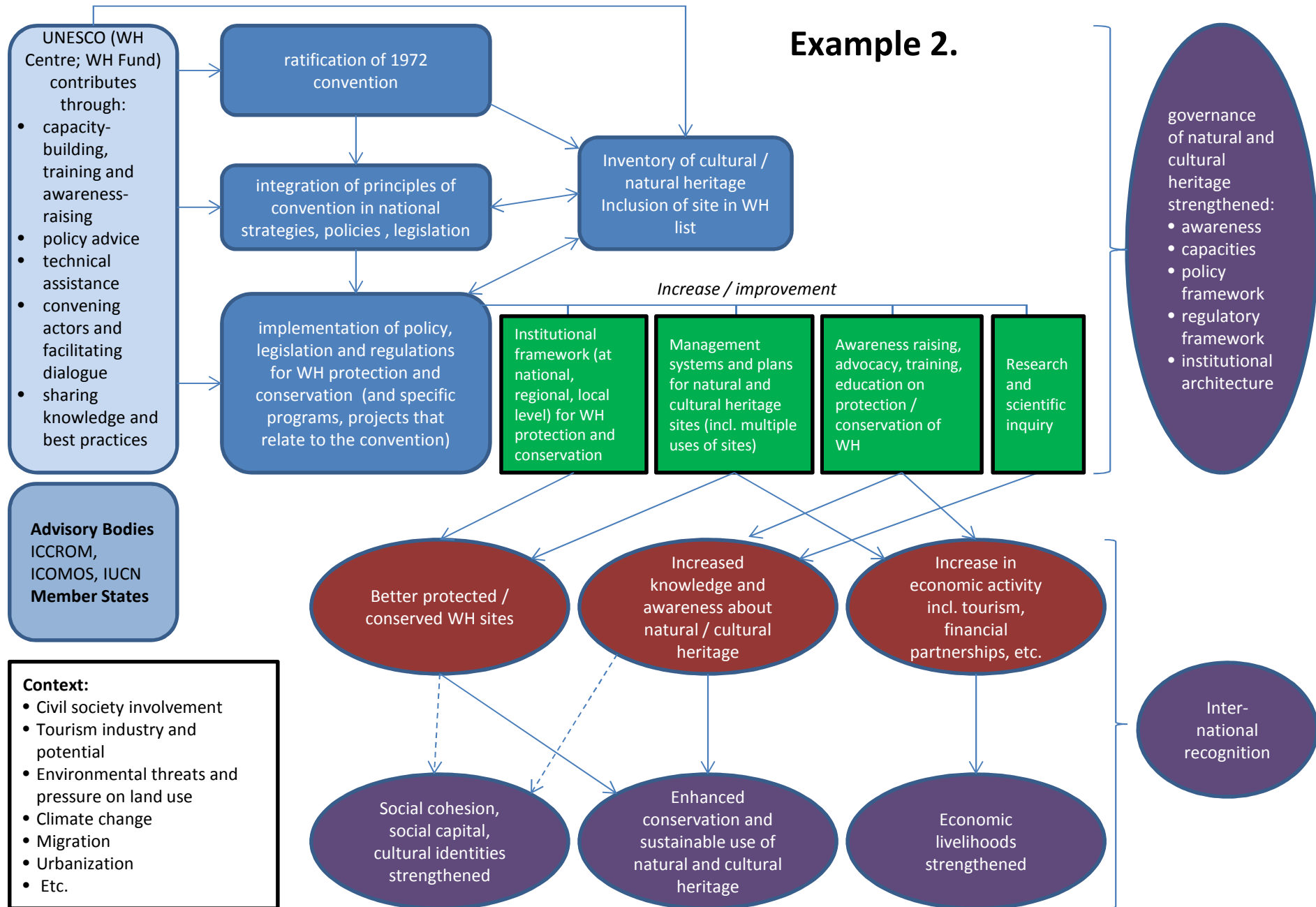
Example 1.

Figure 7.3 Using Portfolio Analysis to Evaluate the World Bank's Worldwide Gender Policies

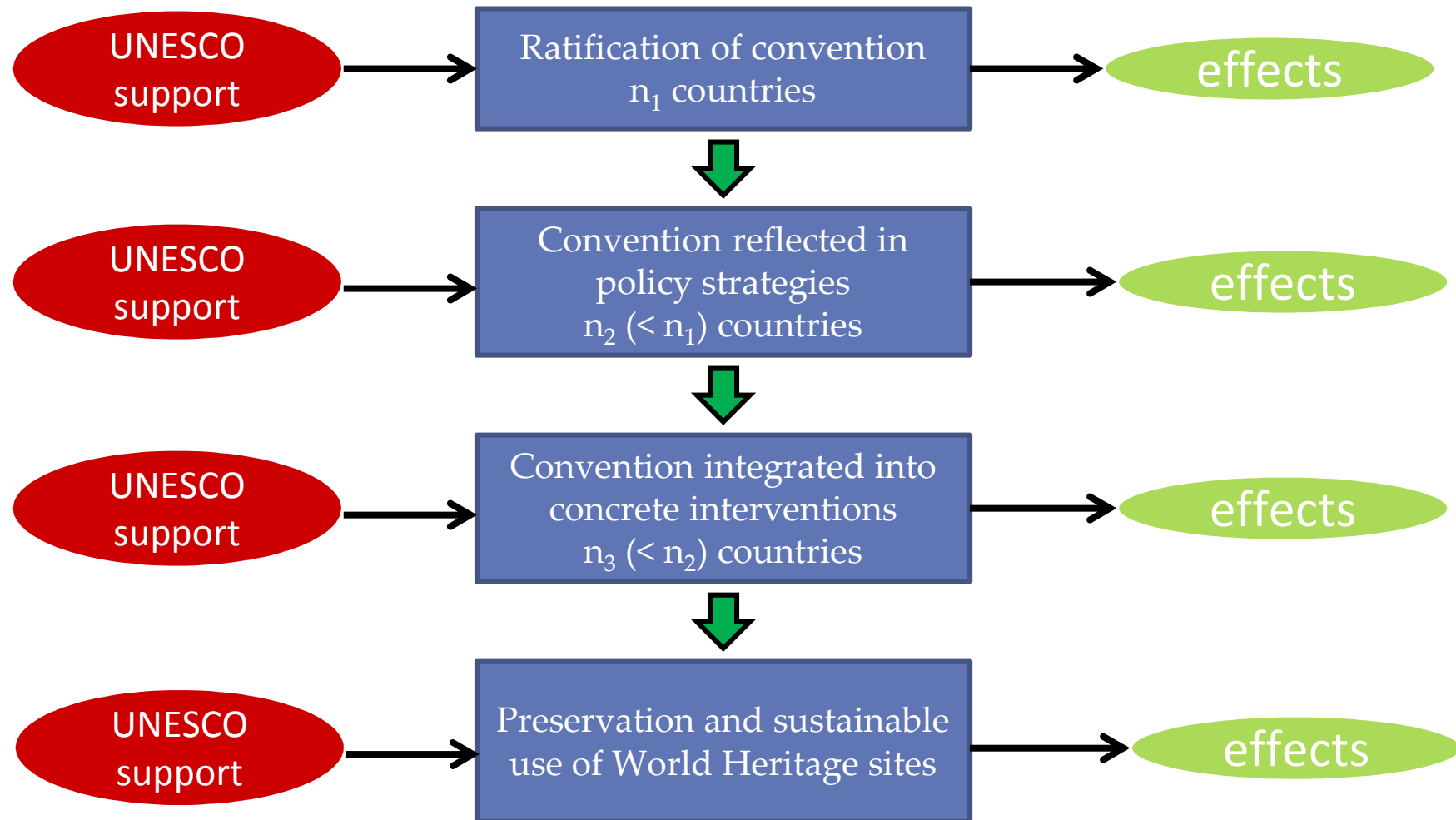


Source: Bamberger, Vaessen and Raimondo (2015)

Example 2.



Example 2. Simplified structure of the ToC of the UNESCO 1972 World Heritage Convention



Example 3. UNESCO's Priority Africa

- Strategic priority of the Organization based mostly on (implicit) strategy
- The evaluation was a classical multi-site evaluation
- Data collection and analysis at different levels of intervention: HQ, institutional entities, Region, regional and country programmes

Evaluation questions

- Does the fact of having a Priority Africa make a difference in comparison to business as usual?
- What are the practical implications of Priority Africa and how do they affect the performance and effectiveness of UNESCO's work in the African Region?

Rationale

- Conclusion from 2005 World Summit: Sub-Saharan Africa is the region the furthest away from achieving MDGs and EFA goals
- Africa is the region with the largest number of LDCs, countries in PCPD, countries with low human development indicators, etc.

Building Blocks

Special Institutional mechanisms

- Africa Department
- Intersectoral Platform
- Liaison Office
- Special Committees

Higher share of resources

- % of RP budget decentralised
- Mobilization of XB
- Human Resources

Specific programmatic considerations

- Programmes only in Africa
- Intersectoral Programs
- Specific Expected Results

Specific commitments

- Alignment with AU priorities
- Emphasis on CB and policy formulation
- Contribution to regional integration
- Stronger partnerships

Expected Outcomes

- UNESCO's activities in Africa are increasingly relevant, effective, and sustainable
- Stronger relevant partnerships are built and maintained
- More resources are decentralised and efficiently allocated
- UNESCO's contribution to regional integration and South-South cooperation is enhanced

Example of a nested theory

Establishment of a Department dedicated to the Region with earmarked human and financial resources

Enhanced quality and frequency of interaction with African MS and donors

Improved coordination of programmes and projects in the Region

Improved monitoring, evaluation and reporting

Increase in external resources

Improved focus and higher relevance of programmes and projects

Increased effectiveness of programmes and projects

Improved collaboration and coordination with political and implementing partners

Increased level of activity by Organization in the Region

Improved delivery upon UNESCO's mandate in the Region

- Clear assignation of roles between institutional entities
- Capacities in place
- Balance between centralization and decentralization

Going back to the big picture...

- To what extent did the evaluation account for the possibility of emergent, spillover, or displacement effects?
- To what extent did the evaluation take due account of coordination issues?
- To what extent did the evaluation take due account of policy coherence?

Returning to our three challenges...

- How does a complexity perspective deal with:
 - Measurement
 - Intervention and confirmation bias
 - Attribution/contribution

Measurement

- Employ a mixed method strategy
- Understand the 'social reality' behind the data (collection)
- Explore new technologies
- Explore the potential of big data

Intervention and confirmation bias

The importance of theories of change, but:

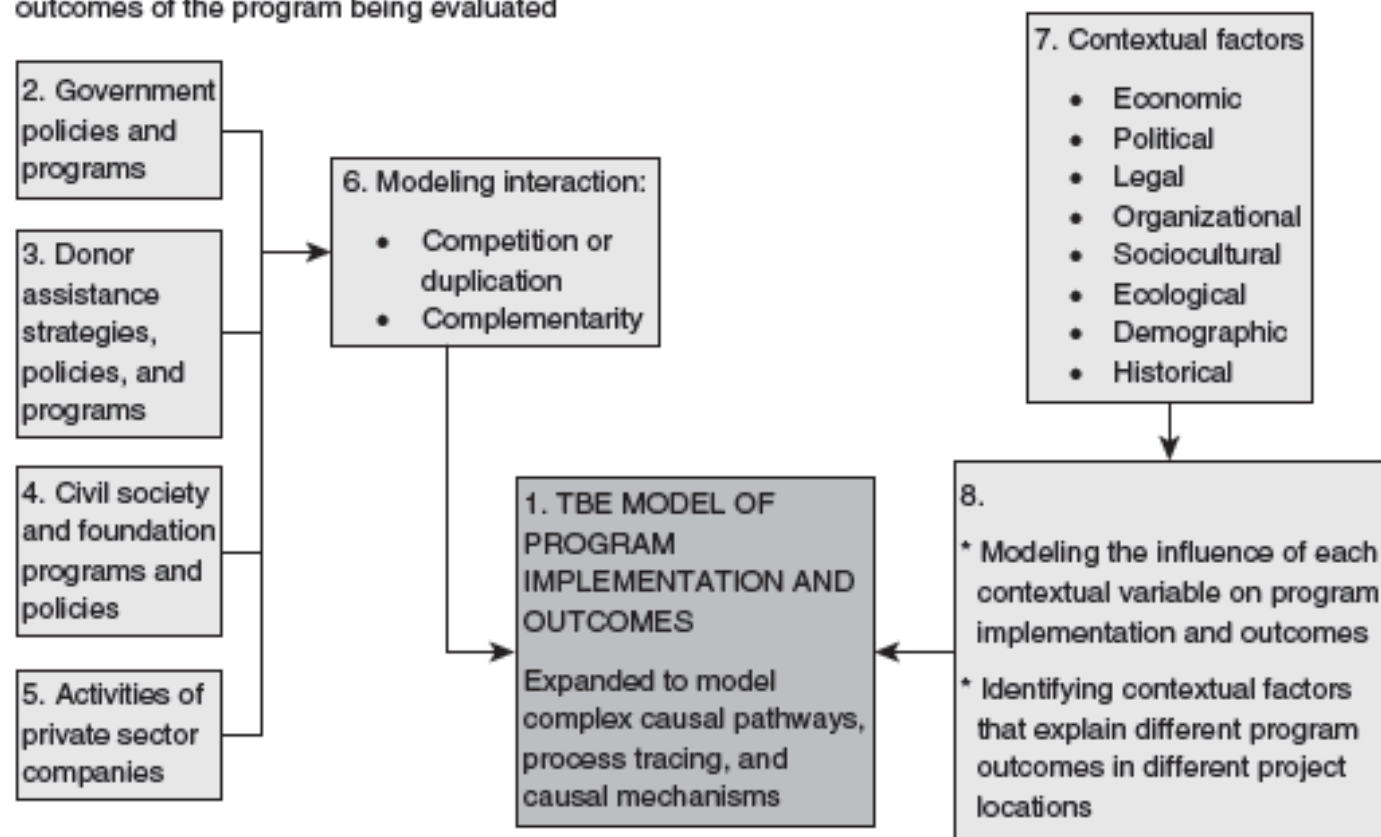
- Theories are biased
- The importance of unintended effects
- Without proper empirical analysis theories may reinforce cognitive bias
- The stronger the 'paradigm' or 'cognitive bias' the stronger the need for rigorous empirical analysis

Solutions....

- Include multiple stakeholder perspectives and data sources
- Connect behavioral assumptions to existing evidence
- Reconstruct rival theories of change
- Expand the theory of change

Figure 5.2 Expanding the Conventional TBE Model to Address Issues of Complexity

Activities of other agencies that may affect implementation and outcomes of the program being evaluated



Causal change

Causal process of change are more often than not:

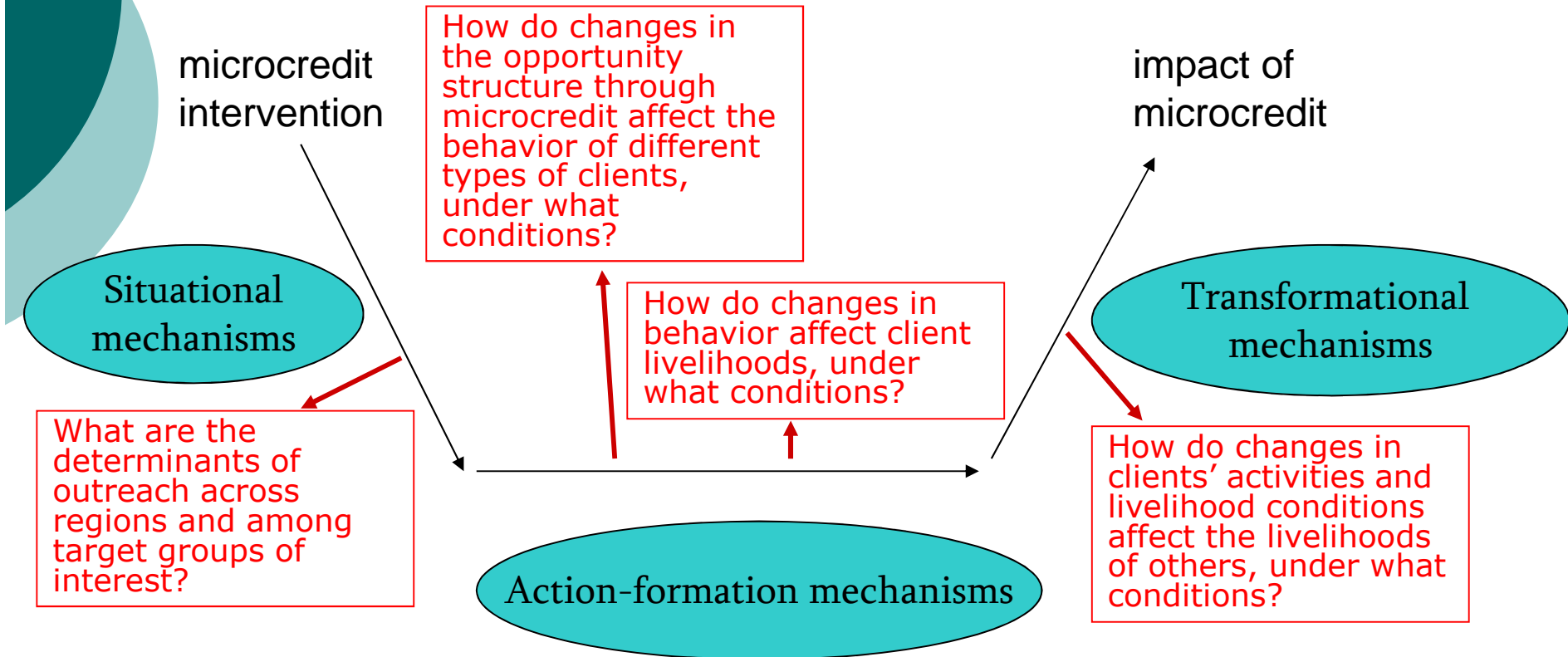
- Non-linear
- Emergent
- Interconnected at multiple levels
- Uncertain
- (sometimes) Irreversible

Solutions...

- Explanation: rival theories of change, systems perspectives of change processes: not just 'opening the black box' but thinking 'outside the box'
- Measurement: triangulation and multiple data points over time
- Method: deconstruct causal processes

Impact theory - microcredit

Based on Coleman (1986, 1990); Hedström and Swedberg (1998), see also Leeuw (2008)



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Concluding remarks (1)

- Evaluators make abstractions of reality
- These abstractions are often formalized as 'theories of change'
- 'Theories of change' can be traps of cognitive bias
- These have to be broken by adopting a broader 'complexity' perspective on interventions and processes of change

Concluding remarks (2)

- Adopt a pragmatic approach to complexity-responsive evaluation:
 - Context-specificity, emergence and historical embeddedness are important to understand...

Yet...

- Avoid the trap of *complexification*
- not all complexity needs to be unearthed for evaluation purposes
- There are patterns of semi-regularity on which evaluators can (and should) build

THANK YOU FOR YOUR ATTENTION

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