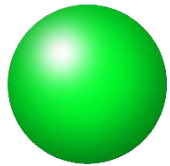


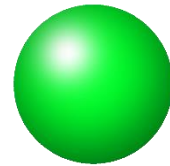
Chapter 9

Drawing Policy Lessons



Tim
Nees

Common Mistakes



Benedikt
Gottschlich

Generalizability



Jenny
Chen

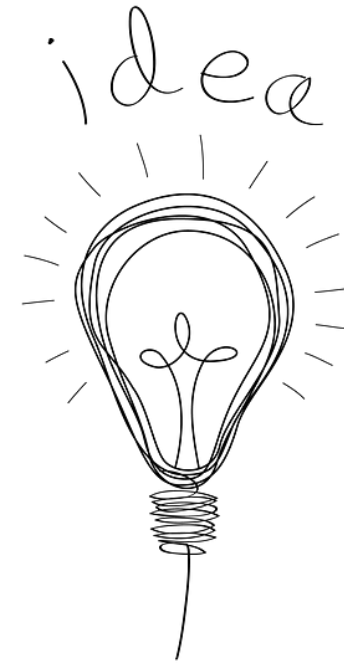
Cost-Effectiveness
Research to Policy

Common Mistakes

Design

Designing an underpowered study

- Confidence Interval too large
- Sample size too small



Forgetting to cluster when calculating sample size

- Different levels of randomization

Ignoring Spillovers

- Information gets passed on to control group

Implementation

Allowing high levels of attrition

- People drop out of experiment

Failing to monitor compliance

- Monitoring of implementation

Using unreliable outcomes measure

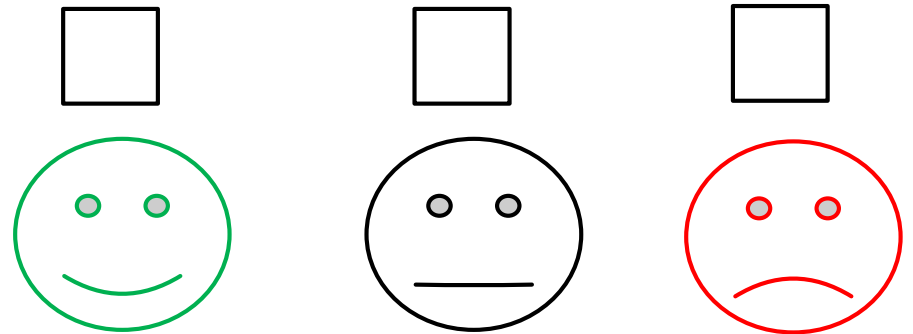
- Trusting people's self-assessment

Collecting data differently in treatment and control groups

- Different time or circumstances

Questionnaire

Has your ability to focus on the presentation increased?



Analysis



Having too many subgroups or outcome measures

- Failure to group outcome measures into families

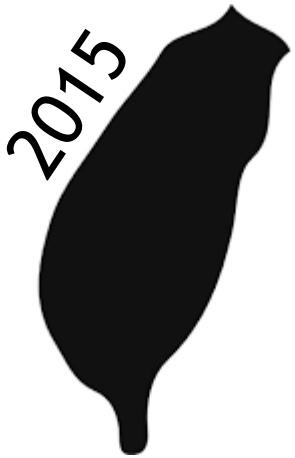
Dropping non-compliers

- Assigning non-complier to comparison group
- Not taking non-compliers into account

Generalization

Internal validity

- ▶ With randomization:
unbiased estimate of the true
impact in this context



necessary
sufficient

External validity



Do large-scale, multinational studies generalize easier? Not necessarily.



Solutions:

1) Paying attention to representativity when designing the experiment (at least on a local level).

COMPARING results from multiple randomized evaluations

DECIDE whether a particular program is right for a given context.



Cost Benefit Analysis (CBA)

Cost Effectiveness Analysis (CEA)

Improved Public Health:

In fiscal year 2013, users traveled almost **2.5 million miles**

and **b** Cost Effectiveness Analysis Over 25 percent Cost Benefit Analysis

respondents indicated that they **had lost weight and felt**

healthier since joining Capital Bikeshare. Health benefits (\$) / Cost (\$)

A study conducted in Portland, Oregon, found that significant investments in bicycling infrastructure could, over the next 30 years, have **health care cost savings of \$400-\$600 million.**

Capital Bikeshare in Washington DC

	Cost Effectiveness Analysis	Cost Benefit Analysis
Cost	Dollars	Dollars
Consequences	Non-monetary units	Dollars
Calculation ratio	Total Cost/ Units of Effectiveness	Total Benefit/Total Cost (Net Benefit)
Number of Outcome	Single	Multiple
When to Use?	<ul style="list-style-type: none"> • Know the desire outcome • Major outcomes are difficult to monetize 	<ul style="list-style-type: none"> • Single Program: Whether $B/C > 1$ • Multiple Program: Comparing which one achieves the greatest benefit
Output	Subject judgment	Absolute judgment



How are we to decide which to invest in ?



However...

CBA:

- ▶ Requires a number of **assumptions**
- ▶ Different organizations or people may have different views.
- ▶ Time-Consuming

CEA:

Good starting point

- ▶ Leaves the **RELATIVE** valuation of different outcomes up to the user
- ▶ Allow those using the information to impose their own relative values on different outcome.

From Research to Policy Action

Many governments and NGOs around the world **charge user fees** in an attempt to prevent resources from being wasted, believing that **charging encourages use.**

But does it work? The balance of evidence is that it does not.



Will those who receive a **FREE** long-lasting insecticidal bed net be more or less willing to pay for a bed net one year later?

Free Bed Nets: Long-term effects of free distribution

Phase 1

- ▶ Subsidy levels for bed nets were **randomly assigned** across households within **six villages**.
- ▶ Prices varied from \$0 to \$3.80

Phase 2

- ▶ A year later, all households in **four villages** were given a second opportunity to acquire a bed net
- ▶ But this time everyone faced the **same price** (\$2.30).

Those who had been offered free nets previously were **41 percent more likely to buy a bed net** than those who had been offered nets at a subsidized price.



These results suggest that individuals may not resent having to pay after having received a product for free in the past.

What did we learn?



- ▶ Overall goal of policies: improving people's life.
- Correct randomization and reliable generalization essential for conducting “right” policies
- Cost Effectiveness Analysis and Cost Benefit Analysis essential for evaluating and revising policies