## Advanced Methods in Impact Assessment Workshop 8-12 May 2017 WorldFish HQ, Penang, Malaysia

Day 1:	The Problem of Cause and Effect: How to Create Knowledge through Impact Assessments
8:00	Meet in lobby of Hotel Equatorial for shuttle to WorldFish HQ
9:00	Meet in WorldFish conference room for official program opening
	Opening introduction by Dr. Blake Ratner, Director General of WorldFish
	Statement of Workshop goals and acknowledgement of donor support by Dr. Mary Arends-
	Kuenning
9:30	Session 1A: Introduction to ex post impact assessment by Dr. Arends-Kuenning
	Topics: What are impact assessments?
	Why do we need impact assessments?
	Why is it important to get things right – cautionary tales
11:00	Morning coffee/tea break with snacks
11:30	Session 1B: The challenge of establishing a causal effect by Dr. Kathy Baylis
	Topics: The Fundamental Problem of Causal Inference
	Casual inference as a missing data problem
	Solutions to the problem: Randomization, Matching, Instrumental Variables, etc.
13:00	Lunch Break
14:30	Session 1C: Data workshop by Dr. Jeffrey Michler
	Topics: Introduction to Stata and R
	Comparison of treatment and the role of confounding factors
16:00	End of day, shuttle back to Hotel Equatorial
19:00	Welcome reception and dinner for all participants at Golden Phoenix in Hotel Equatorial
Day 2:	Constructing an Appropriate Counterfactual: Randomized Control Trials (RCTs) & Matching
8:30	Meet in lobby of Hotel Equatorial for shuttle to WorldFish HQ
9:30	Session 2A: The structure and design of RCTs by Dr. Michler
9.50	Topics: Why use RCTs?
	How to design a randomized experiment
	Concerns with randomization
11:00	
11:30	Session 2B: Why match and how not to do it wrong by Dr. Baylis
11.50	Topics: Different methods of matching participants and non-participants
	Necessary assumptions needed to apply PSM and what to do when these fail
	Introduction of the issue of heterogeneity
13.00	Lunch Break
14:30	Session 2C: Data workshop by Anna Josephson
14.50	Topics: Determine if an RCT "worked" and measure the impact
	Establish the appropriate counterfactual using matching
16:00	End of day, shuttle back to Hotel Equatorial
-	Measuring Program Impacts: Difference-in-Difference and Instrumental Variables (IVs)
8:30	Meet in lobby of Hotel Equatorial for shuttle to WorldFish HQ
9:30	Session 3A: How to construct a Diff-in-Diff estimator by Dr. Arends-Kuenning
	Topics: Conducting single difference evaluation and what this method misses
	How to construct the Diff-in-Diff estimator

	Potential violations of assumptions or nurdles to measurement
11:00	Morning coffee/tea break with snacks.
11:30	Session 3B: Using Instrumental Variables (IVs) to identify causal effects by Dr. Michler
	Topics: What is an IV and how does it work?
	Finding a good IV and how to identify a bad IV
	Calculating the LATE
13:00	Lunch Break
14:30	Session 3C: Data workshop by Ms. Josephson
	Topics: Calculate the ATE and LATE
	Develop an IV and test for validity
16:00	End of day, shuttle back to Hotel Equatorial
Day 4:	Challenges to Identification of Causal Effects: Panels, Spillovers and Heterogeneity
8:30	Meet in lobby of Hotel Equatorial for shuttle to WorldFish HQ
9:30	Session 4A: Causal identification using panel data estimators by Dr. Baylis
	Topics: Panel data models: Pooled, Fixed, Random, Correlated Random, etc.
	Spillover and network effects
	Introduction to spatial econometrics
11:00	Morning coffee/tea break with snacks.
11:30	Session 4B: Moving beyond the average treatment effect by Dr. Arends-Kuenning
	Topics: Regression discontinuity design
	Measuring distributional effects
	Accounting for heterogeneity
13:00	Lunch Break
14:30	Session 4C: Data workshop by Dr. Michler
	Topics: Implement a variety of panel data estimators
16.00	Regression discontinuity design
16:00	End of day, shuttle back to Hotel Equatorial
18:00	Field trip to historic George Town for street food dinner
-	Survey Design, Data Collection, and Challenges to Identification
8:30	Meet in lobby of Hotel Equatorial for shuttle to WorldFish HQ
9:30	Session 5A: Survey design and data collection by Ms. Josephson
	Topics: Introduction to computer aided personal interview (CAPI) software
	The costs and benefits of using CAPI software
11.00	Using ODK to build a survey
11:00	Morning coffee/tea break with snacks.
11:30	Session 5B: Survey Challenges and Challenges to Identification by Dr. Michler
	Topics: Sampling Methods for Violations of the standard assumptions
	External validity and internal validity
13:00	Lunch Break
14:30	Session 5C: Building a survey in ODK by Anna Josephson
14.30	Topics: How to use ODK Build by Ms. Josephson
	Using Excel to build an ODK survey
16:00	End of day, shuttle back to Hotel Equatorial