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List of Abbreviations (in order of appearance in the text)

CMU Chiang Mai University

PPP Polluter Pays Principle

UPP User Pays Principle

PP People Participation

PRA Participatory Rural Appraisal

OECD Organization for Economic Cooperation and Development

AREA Design principles of PPP and UPP, which are

1. Assign responsibility to an "owner" with direct control over a consumption activity.

2. Reward the owner for increase in efficiency (consumption per unit of service or function), and penalize for reductions. Rewards may include compensation, recognition or other tangibles and intangibles.

3. Empower the owner to decide whether and how consumption is to be changed.

4. Allow the owner to freely reduce or increase consumption, while continuing to provide the functions that the consumption is intended to serve.

TCM Transportation Control Measures

TSM Transportation Systems Management

TDM Transportation Demand Management

VMT Vehicle Miles Traveled

SOV Single Occupancy Vehicle

HOV High Occupancy Vehicle

NOx Nitrogen Oxides

OBEA Observer Based Assessment

TEA Technical Based Assessment

SSI Semi Structured Interviews

BA Bachelor (degree)

MA Master (degree)

3Ds Sit-planning concept: Density, Designation and Design

TMU Traffic Management Unit

P.T. Fee Pigouvian Taxation Fee