



Co-funded by the
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DOCKSIDE
Training Session

Performance Analysis

Thomas Vallée (UN)
4 December 2018

RULE, Phnom Penh, Cambodia,
Room G24 (new building, first floor, near the cafeteria)
Time : 9.00- 12.00 / 13-16.00

Contact for information and booking:
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Short Description (aims and objectives)

The course is designed to give relevant tools for conducting performance analysis. The course covers methods and applications related to the measurement analysis of productive efficiency. The course will also show how to measure performance with the DEA (Data Envelopment Analysis) methodology, and will discuss specific examples dealing with environmental and maritime issues.

Training Methods

It will be a combination of lectures, discussions, hands on exercises, and numerical applications will be done with Excel.

Training Objectives

- Understand benchmarking concept
- Understand productivity concept with multiple inputs and multiple outputs
- Analyze Environmental Performance issues
- Compare Efficiency of ASEAN Ports
- Develop Excel and R numerical solutions

Expected Participants (maximum 30 person)
<p>Researchers both juniors and senior Students (Master Degree and/or PhD) External stakeholders of Dockside is welcome if interested in blended learning.</p>

Basic Knowledge Requirements
<p>Basic Microeconomics concepts (Profit function, Cost function, Productivity), and, if possible, some mathematical knowledge on Linear Programming Methods (optional).</p>

Competences and Abilities the Participants will acquire
<p>Ability to conduct benchmarking with nonparametric method. Ability to compare performances of some Decision Maker Units (like environmental performances of firms, or production performances of Ports).</p>

Materials Needed
<p>A video projector and screen 1 computer laptop preferably pr. Person – sharing is also possible for 2 persons. The participants are allowed and encouraged to bring their own computer. R Software (free to download at https://www.r-project.org/, the library “Benchmarking” will be used) Excel or equivalent software with a solver.</p>

Duration
1 day

Evaluation
Oral feedback

Agenda of the Training	
Time	4 December 2018
9-12	Introduction to benchmarking and efficiency measures Performance Analysis with Data Envelopment Analysis
12-13	Lunch
13-16	Applications from Maritime (Ports) and Energy Management. Environmental Performance Analysis

Coffee break will be included both morning and afternoon.