



**ASEAN WORKSHOP ON THE CITY BIODIVERSITY INDEX
27-29 APRIL 2010, SINGAPORE BOTANIC GARDENS**



ASEAN WORKSHOP ON CBI

- ASEAN Working Group on Environmentally Sustainable Cities
- ASEAN Initiative on Environmentally Sustainable Cities

17 Participating Cities

- Phnom Penh
- Siem Reap
- *Bandung* (West Java Prov.)
- Padang
- Pekanbaru
- Kuantan
- *Sibu*
- Iloilo City
- *Puerto Princesa*
- Quezon City
- Bangkok
- Chiang Mai
- Luang Prabang
- Vientiane
- Xayaboury
- Hanoi
- Danang



Comments: Native Biodiversity in the City (1)

1: Natural/semi-natural areas

- Definition
 - City vs. urban
 - Natural, semi-natural
- What can be considered?
 - Dams
 - Secondary forests, reforested areas
 - Riverbanks

2: Diversity of ecosystems

- Difficulty in identifying ecosystems
- City officials do not have the relevant technical background

3: Fragmentation measures

- Definition – patch size
- Different cities may have different interpretation of this indicator

4: Native biodiversity in built-up areas (bird species)

- Definition – native, built-up areas (temples?)
- Not sure whether birds are native or otherwise



Chiang Mai, Thailand

Comments: Native Biodiversity in the City (2)

5-9: No. of native species

- Choice of 3 species instead of 2 (case of Danang)
- Are migratory birds included?

10: % of protected [natural] areas

- Is this indicator more appropriate under “governance and management”
- Should marine reserve/ area and freshwater ecosystem be included?

11: Proportion of IAS

- Definition – invasive
- 1 alien species – but causes extensive damage – is there any way to account for this?



Comments: Ecosystem Services ...

12: Freshwater services

- Most cities have their water sources outside the city – should we include them in terms of such services
- Suggestion – to incorporate costs per capita in the indicator

13: Carbon storage

- Definition – tree (girth size)
- Carbon storage in the sea?
- Do we calculate all trees or only native trees

14-16: Recreation and educational services

- Ind.14 – visit/ person/ week for parks
- Difference between parks and nature reserves
- What constitutes an educational visit – is a camping trip considered?



Comments: Governance and Management ...

17: Budget allocated for biodiversity projects

- Can we include programmes that are independent of government's involvement?

18: No. of biodiversity projects

- Conducted vs. organised

19: Existence of LBSAP

- Nil

20: No. of essential biodiversity functions

- Definition – herbarium
- Biodiversity related institutions

21: No. of agencies involved in inter-agency coordination

- Nil

22: Consultation process

- Explanation required for the difference amongst “considered”, “planned” and “implemented”

23: No. of partners in activities, etc.

- Nil

24: Biodiversity – school curriculum

- Can broader environmental programmes be included

25: Public Awareness Events

- Nil



Danang, Viet Nam

General Comments:

- **Definitions**

- **Data Collection**

- Availability
- Accessibility
- Reliability

- **Scoring**

- whether statistical analysis will be conducted to normalise the range of scores
- the score for the Index may not necessarily indicate the health of biodiversity

