

Task 25/38 Workshop, Canberra, Australia - 29th March, 2001.

AN INTERNATIONAL FOREST CARBON ACCOUNTING FRAMEWORK

*A system for measuring, reporting and trading
of forest carbon from an operational to
international scale*

By Zoe Harkin and Gary Bull

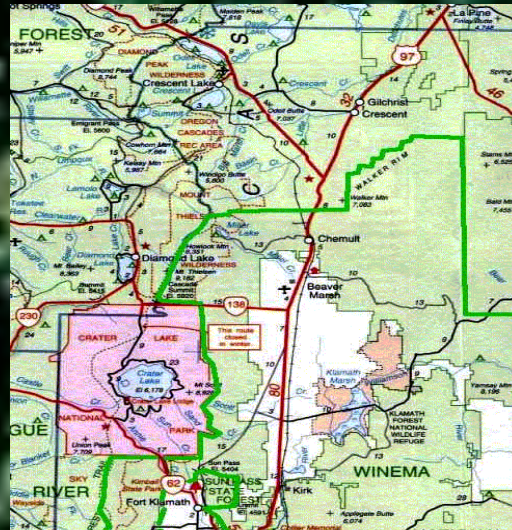


Ministry of Forests



The need for a forest carbon accounting framework

- At present, there is no formal methodology of scaling up operational level forest carbon estimates to a national and international level...



The need for a forest carbon accounting framework

- The Challenge is to produce a forest carbon accounting framework that...
 - **Encourages genuine reductions in GHG's**
 - **Promotes sustainable forest management**
 - **Alleviates the 'Carbon Confusion'**

The Framework

- 3 phases, 11 steps.



PHASE ONE: DESIGN AND EVALUATION



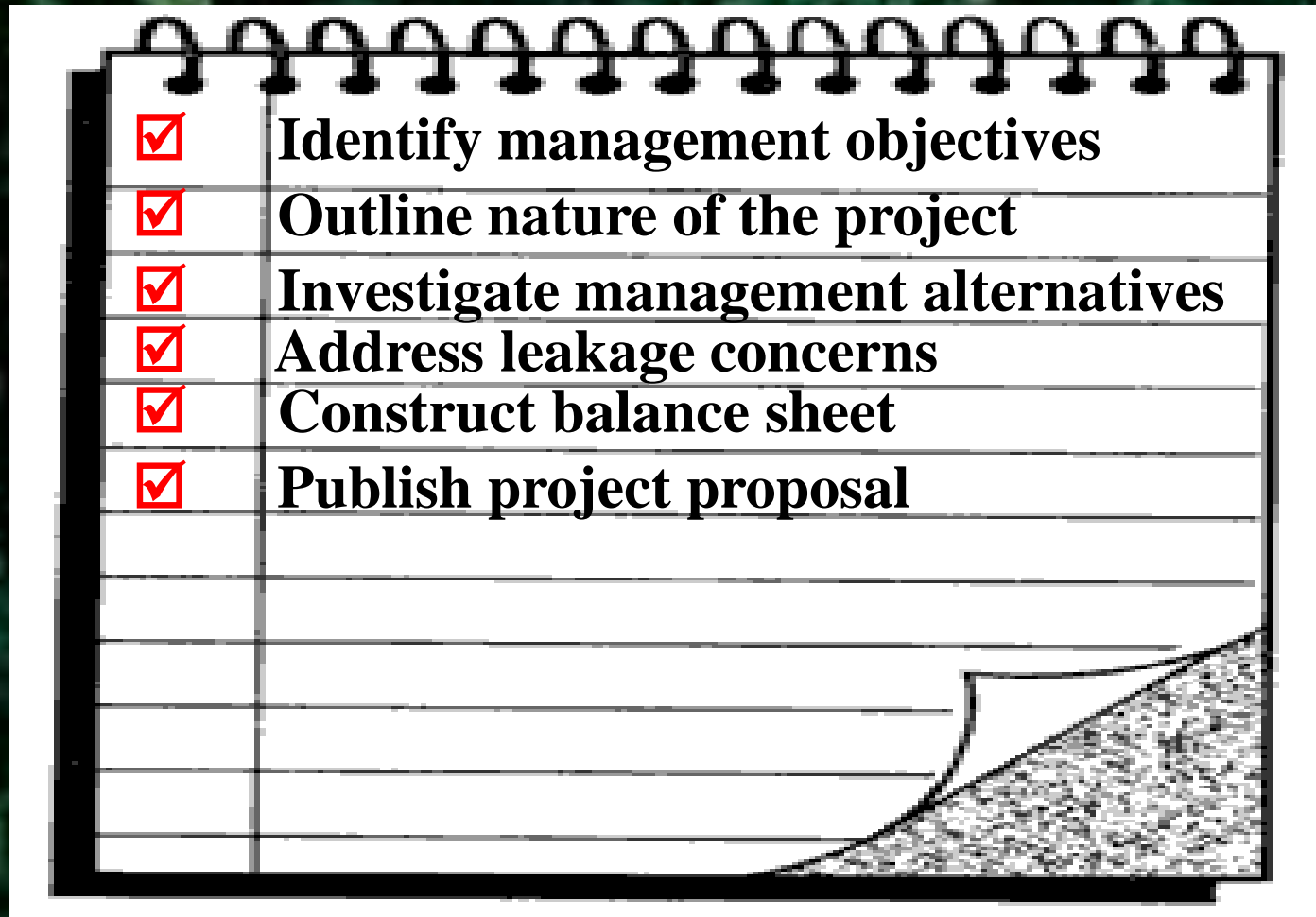
**PHASE TWO: IMPLEMENTATION -
INVENTORY AND MANAGEMENT**



PHASE THREE: EMISSIONS TRADE

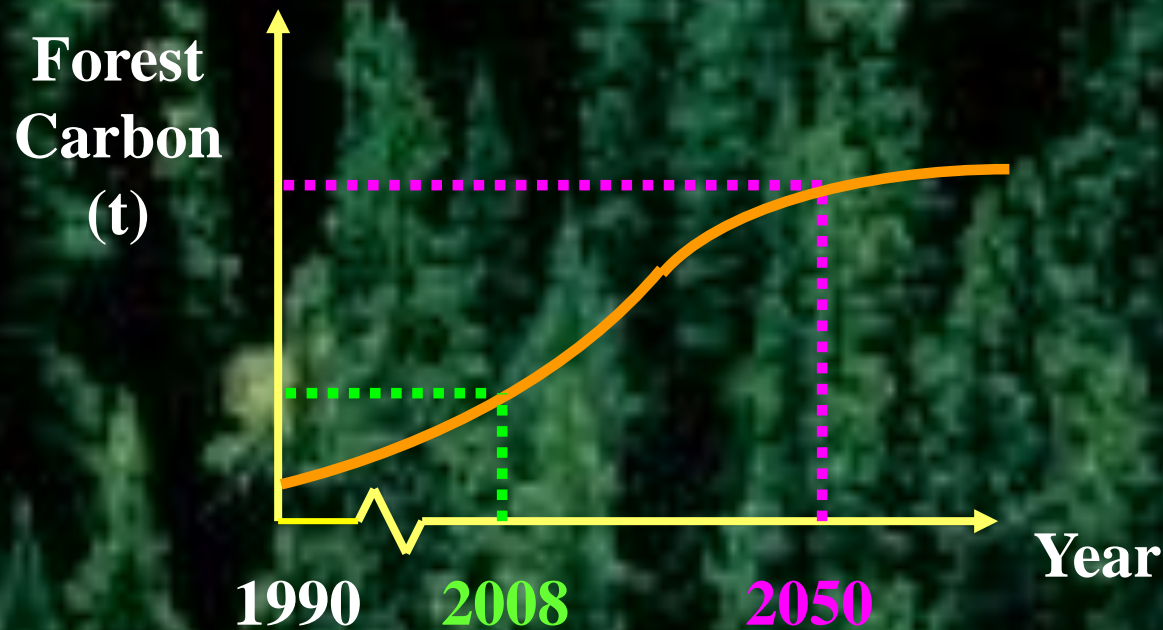
Phase 1: Evaluation and Design

Step 1. Develop Project Proposal



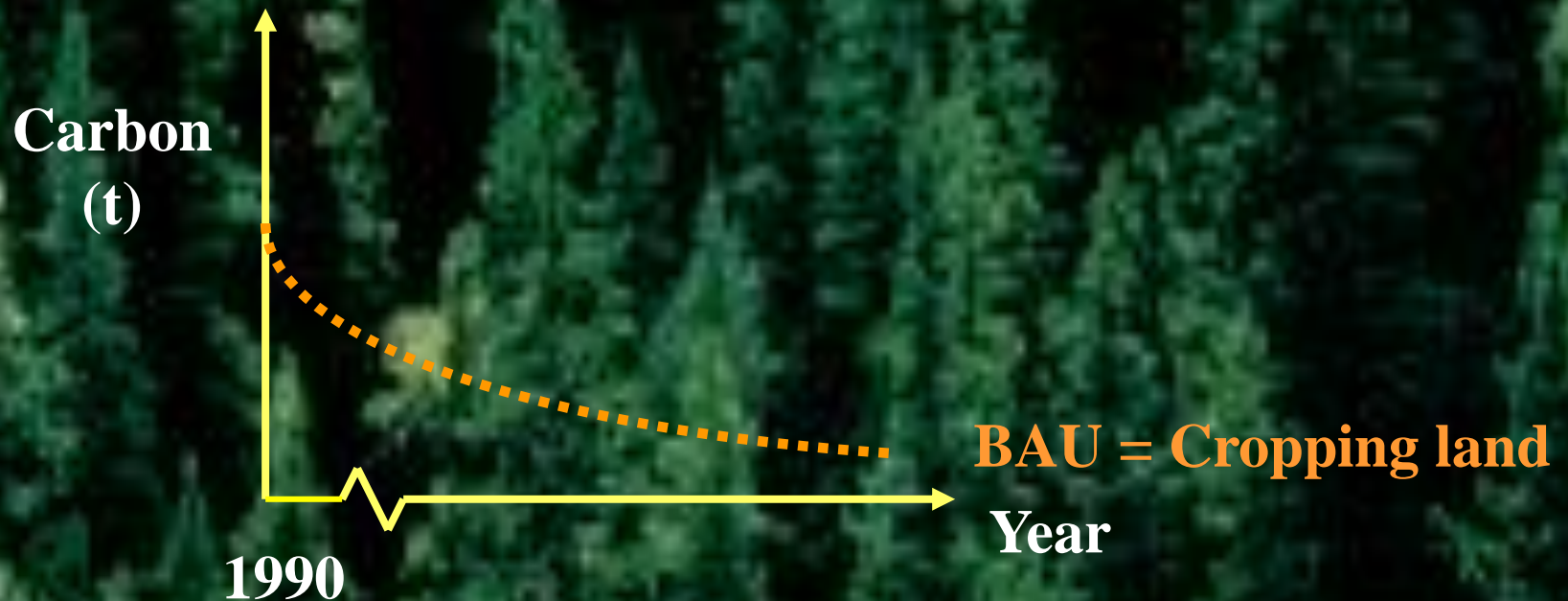
Phase 1: Evaluation and Design

Step 2. Preliminary Carbon Yield Projections



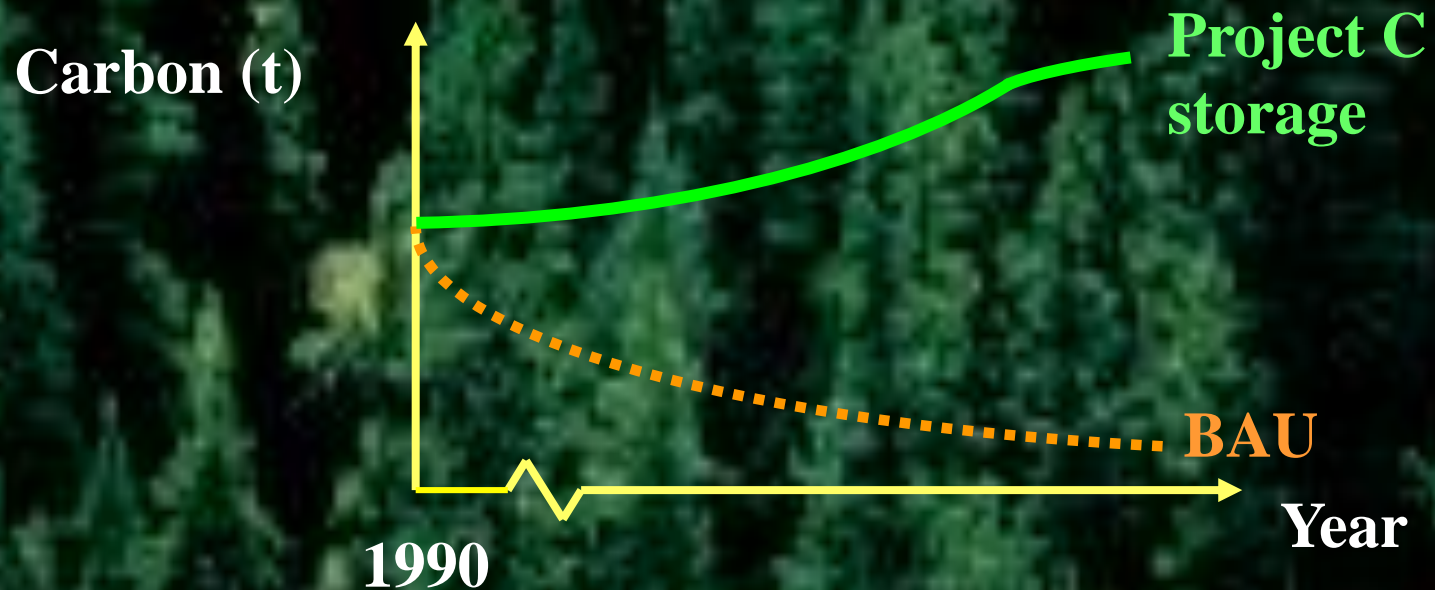
Phase 1: Evaluation and Design

Step 3. Define and Measure BAU Baseline



Phase 1: Evaluation and Design

Step 4. Project Evaluation and Registration – ‘Kyoto compatibility’



Phase 1: Evaluation and Design

Step 4. Project Evaluation and Registration

– Economic feasibility



Phase 1: Evaluation and Design

Step 4. Project Evaluation and Registration

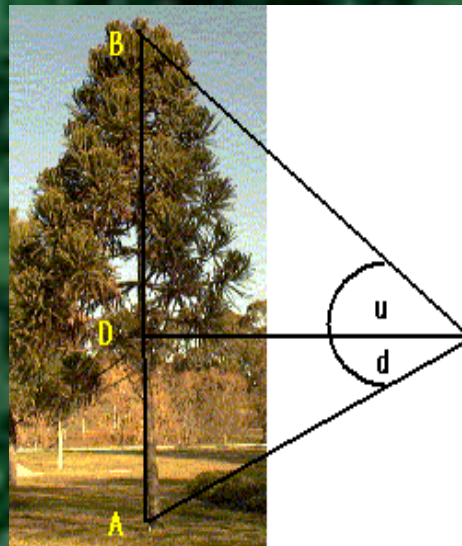
– Impact on other forest values



Phase 2: Implementation

Step 5. Design Sampling System

Step 6. Conduct Forest Carbon Inventory



Phase 2: Implementation

Step 7. Detailed Modeling of Future Carbon Yield

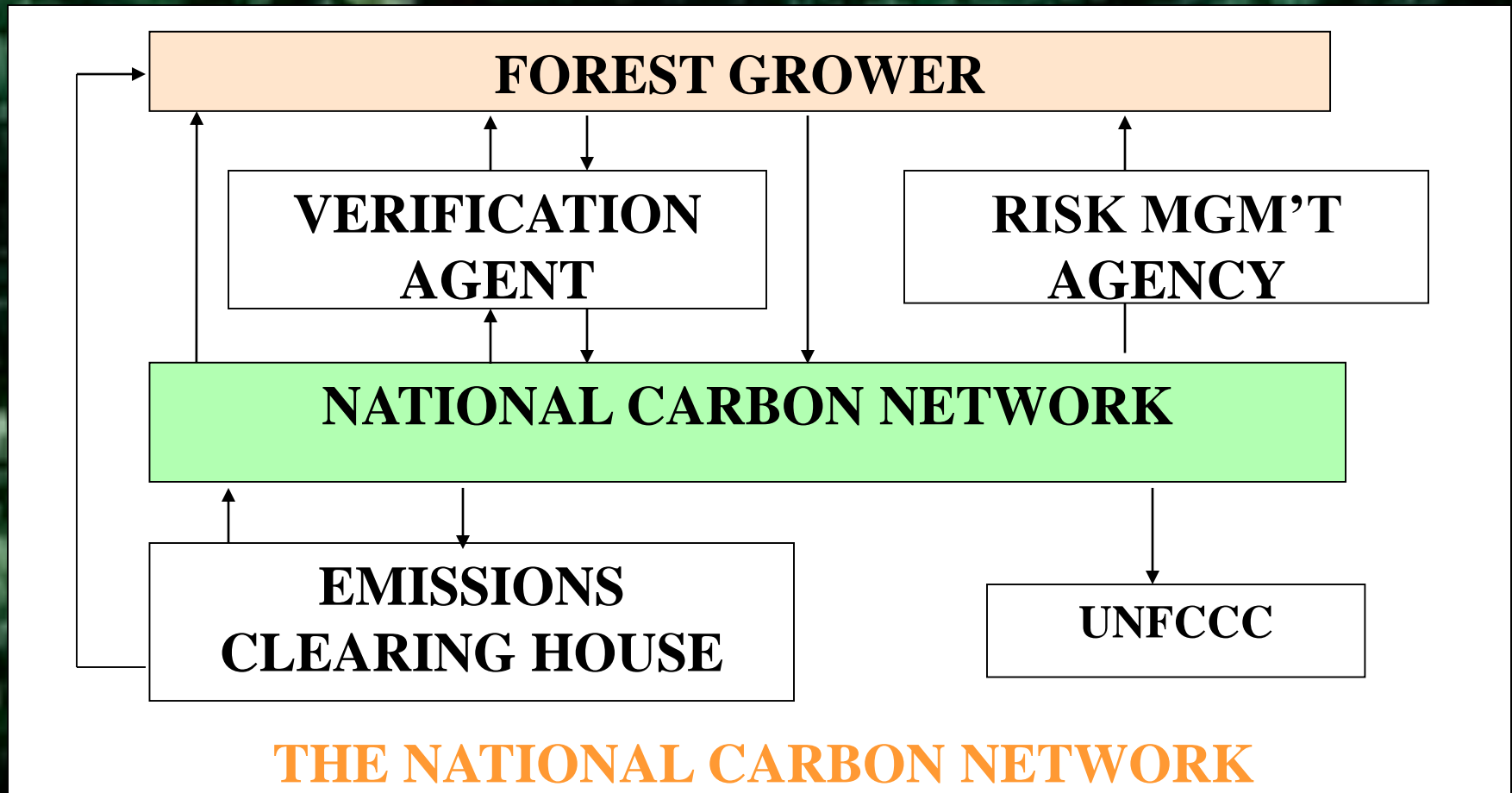
Step 8. Monitoring, Verification and Certification

Step 9. Reporting - Scaling up of Estimates

Phase 2: Implementation

Step 9. Reporting - Scaling up of Estimates

- Development of a National Carbon Network



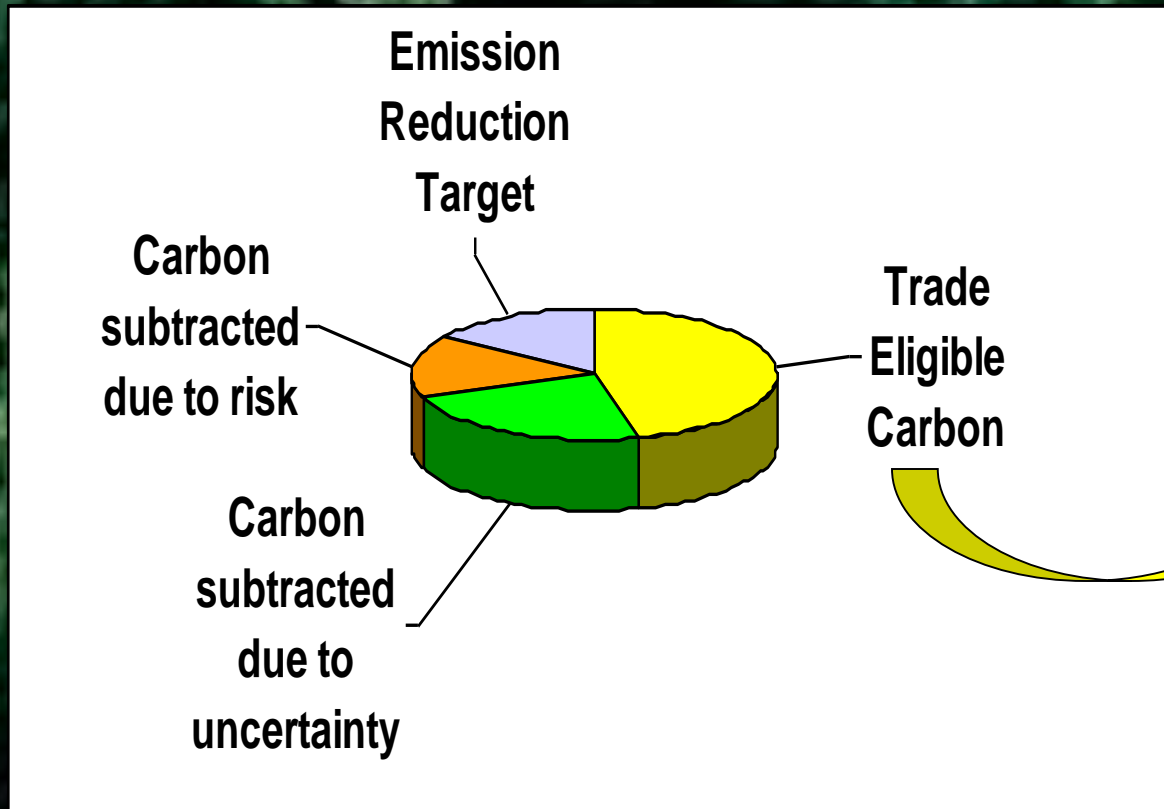
Phase 3: Emissions Trade

Step 10. Determine Number of Carbon Credits



Phase 3: Emissions Trade

Step 10. Determine Number of Carbon Credits



No. Carbon Credits =

$$\text{TEC (t)} \times \frac{44}{12}$$

Phase 3: Emissions Trade

Step 11. Commence emissions trade

- **Trading Unit (Credits, forwards sales, options)**

Conclusion

- A carbon accounting framework is required to:
 - **Meet the requirements of the Kyoto Protocol**
 - **Alleviate the confusion of carbon accounting**
 - **Provide a means of ‘scaling up’ carbon inventory**
- A simple, step-by-step carbon accounting framework is proposed.