

# InLCA/LCM 2006

## Diagnosis of LCA in Brazil (or: LCM Brazilian Project)

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**October 4-6, 2006  
Washington DC  
USA**

# SUMMARY

- **History**
- **Brazilian Project**
  - **Motivation**
  - **Work shop**
  - **Identification**
  - **Construction of Brazilian DB**

# LCA IN BRAZIL “HISTORY”

- **1993 – GANA – Environmental Standards Support Group**  
Similar to ISO TC 207 (SC 05 - )
- **1998 – “Análise do Ciclo de Vida de Produtos” – J.R. Chehebe.**  
“Products LCA”
- **1999 – “Análise de ciclo de vida de embalagens para o mercado brasileiro” – CETEA/ITAL**  
“Packaging Brazilian market LCA”
- **2001 – Publication of NBR ISO 14040**
- **2002 – “Avaliação do Ciclo de Vida: princípios e aplicações” – CETEA/CEMPRE.**  
“LCA – Principles and applications”

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## MOTIVATION

### Kuala Lumpur ISO Meeting – ISO 14025

- **2002** – Creation of Life Cycle Brazilian Association – **ABCV**.
- **2004** – **Work shop**: Strategies for LCA consolidation in Brazil

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## WORK SHOP

- **Organization: ABCV/Ekos Institute**
- **Participants:**
  - **Industries: BASF, Nestle, Daimler, MWM, Petrobras, Natura, Polibrasil**
  - **Consulting: Geoclock, Bureau Veritas.**
  - **Academy: UnB, USP, UFSC, UFBa, UNESP, UNICAMP, CEFET/PR, IPT, ITAL.**
  - **Government: MCT, IBICT.**

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## WORK SHOP

➤ **Conclusion: “To consolidate LCM in Brazil it will be necessary:**

- ❖ Human resources.
- ❖ Databases availability.
- ❖ Commitment of economical sectors involved.

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## WORK SHOP

### ➤ Decision: “Brazilian project”

#### ❖ Human resources:

⇒ Identification of *what we have now*

⇒ *Programa de capacitação de human resources*

#### ❖ Databases availability:

⇒ Construction of Brazilian database

#### ❖ Commitment of economical sectors

⇒ ???

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## WHAT IS GOING ON

- ❖ Identification of *what we have now*.
- ❖ Human resources capacitation.
- ❖ Building of a Brazilian data bank.

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## IDENTIFICATION

### Sources

- ❖ Langer, T.; Rodrigues, D.  
⇒ “LCA public documents in Brazil”  
accepted for publication: *Meio Ambiente Industrial*
- ❖ Lima, A.M.F.; Kiperstok, A.; Caldeira-Pires, A.  
⇒ “LCA in Brazilian Academy”  
will be presented in “I Simpósio Nordestino de Saneamento Ambiental” – Nov., 22-24, 2006  
Joao Pessoa/Brazil
- ❖ IBICT  
⇒ [www.ibict.br](http://www.ibict.br)

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## IDENTIFICATION

### 3 Books

- ❖ “Análise do ciclo de vida de produtos” - (*Products LCA*)  
⇒ J. R. Chehebe.
- ❖ “Avaliação do ciclo de vida: princípios e aplicações” – (*LCA – Principles and applications*).  
⇒ CETEA/CEMPRE.
- ❖ “Avaliação do ciclo de vida na América Latina” – (*LCA in Latin America*).  
⇒ A. C. Pires.

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## IDENTIFICATION

101 documents

- Universities: 82
  - University of São Paulo: 49
  - University of Campinas: 7
  - Others: 26
- Research institutes and centers: 7
- Others: 12

Langer, T.; Rodrigues, D.  
“LCA public documents in Brazil”  
accepted for publication: *Meio Ambiente Industrial*

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## IDENTIFICATION

64 documents:

- Dissertations: 47
- Thesis: 17

- University of São Paulo:  $13 + 4 = 17$
- University of Campinas:  $1 + 5 = 6$
- Others:  $33 + 8 = 41$

Lima, A.M.F.; Kiperstok, A.; Caldeira-Pires, A.  
“LCA in Brazilian Academy”  
to be presented in “*I Simpósio Nordestino de  
Saneamento Ambiental*” – Nov., 22-24, 2006

# LCA IN BRAZIL “BRAZILIAN PROJECT”

## BUILDING OF BRAZILIAN DB

❖ IBICT/EMPA

❖ MCT

# LCA IN BRAZIL “BRAZILIAN PROJECT”

- **ABCV**
- **CILCA 2007**

# InLCA/LCM 2006

# THANK YOU

**GIL ANDERI DA SILVA**

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