

About Our DAC-U Projects

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INABA, Atsushi

Sub Program Director of DAC-U Projects



■ **Sub Program Director:**
Dr. INABA Atsushi
President, Japan LCA Facilitation Centre
(LCAF)

- As an LCA expert, I expect each project to perform well from an LCA perspective.
- I am in charge of 6 DAC-U projects.

Atsushi INABA

* one of co-chairs of ISO/TC207/SC5/WG6
(re-edition of ISO-14040:2006 and ISO14044:2006)

*vice director of the International Life Cycle Panel of UNEP/SETAC Life Cycle Initiative in the first phase in 2002-2008.

*chair of the pilot project of Carbon Footprint of Products in Japan, 2008-2011

*lead author of Chapter 12 (Human Settlement) expert of IPCC-AR5/WG3

Three Waves on LCA



1st: 1997 LCA for B to B

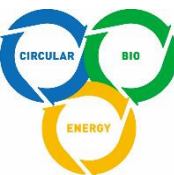
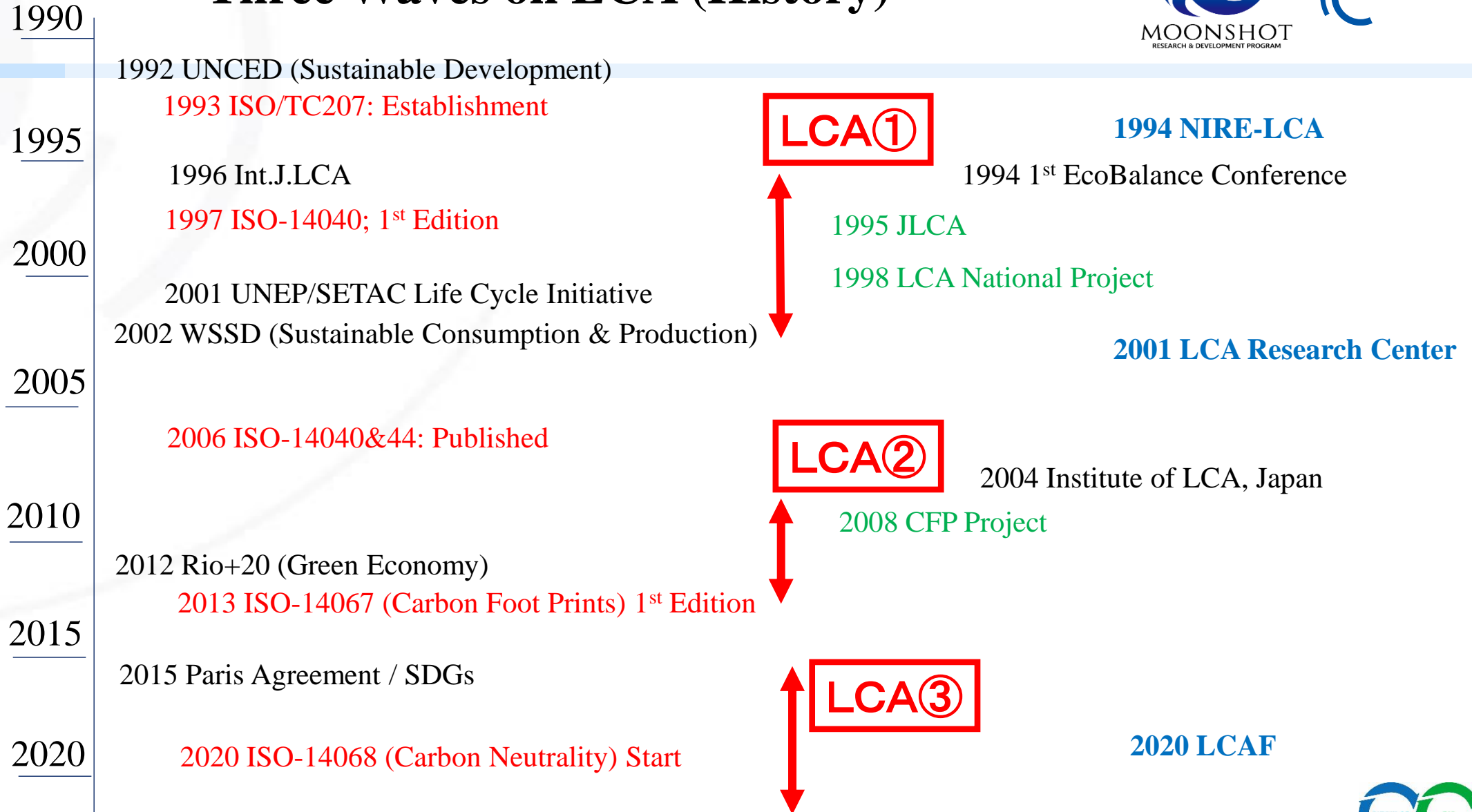


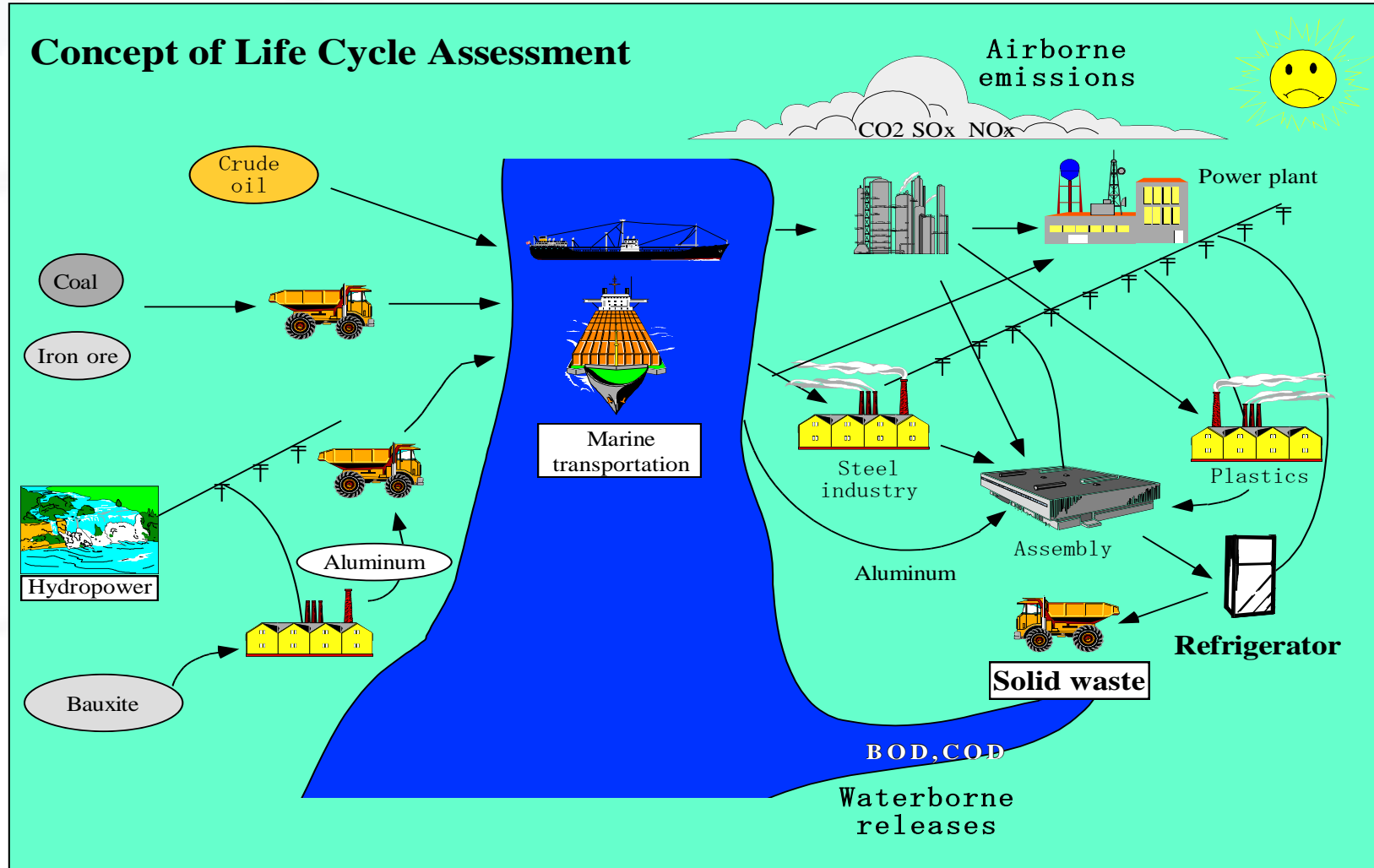
2nd: 2010 Carbon Foot Print of Products
GHG for B to C

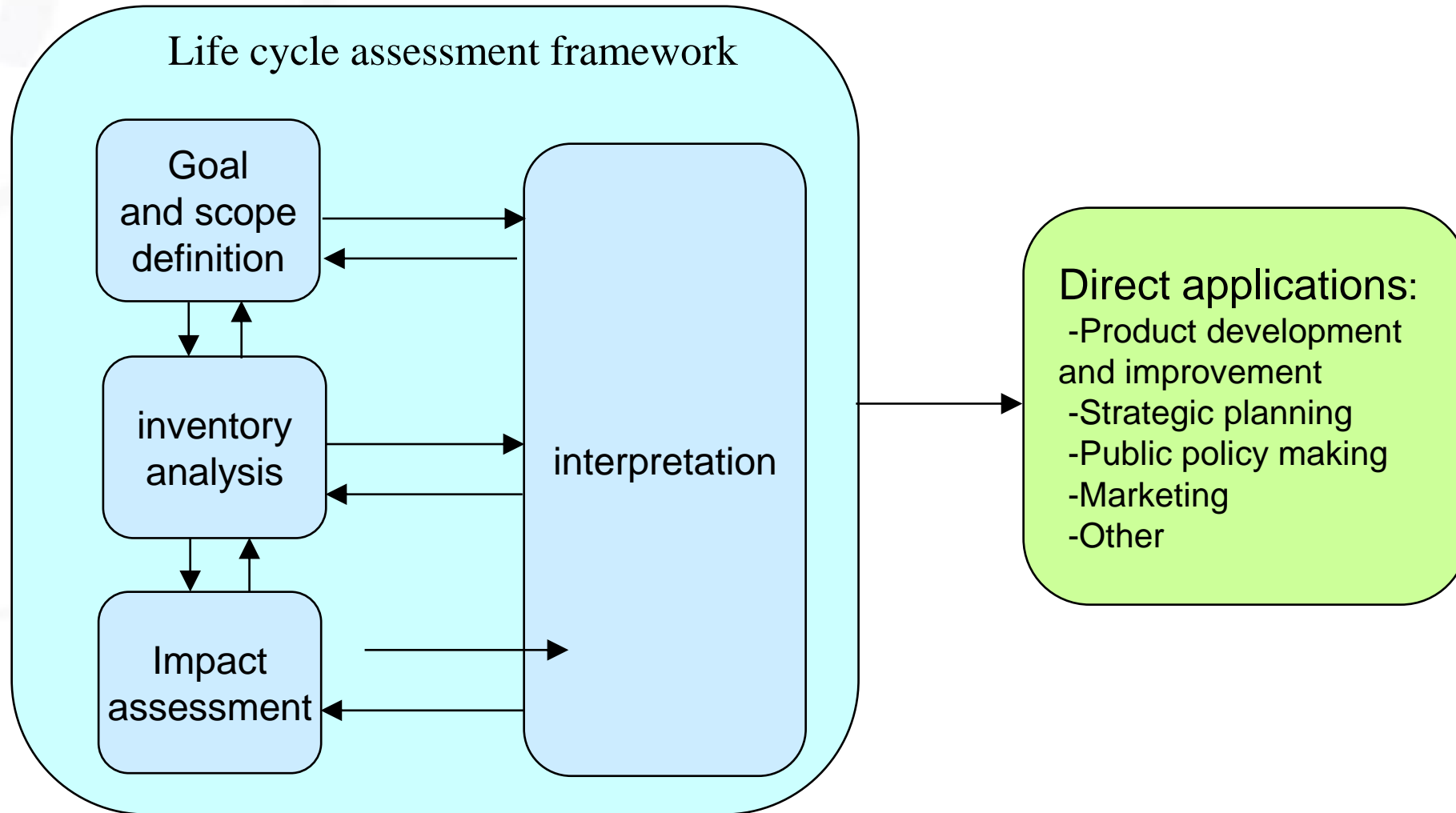


3rd: 2022 Carbon Neutrality

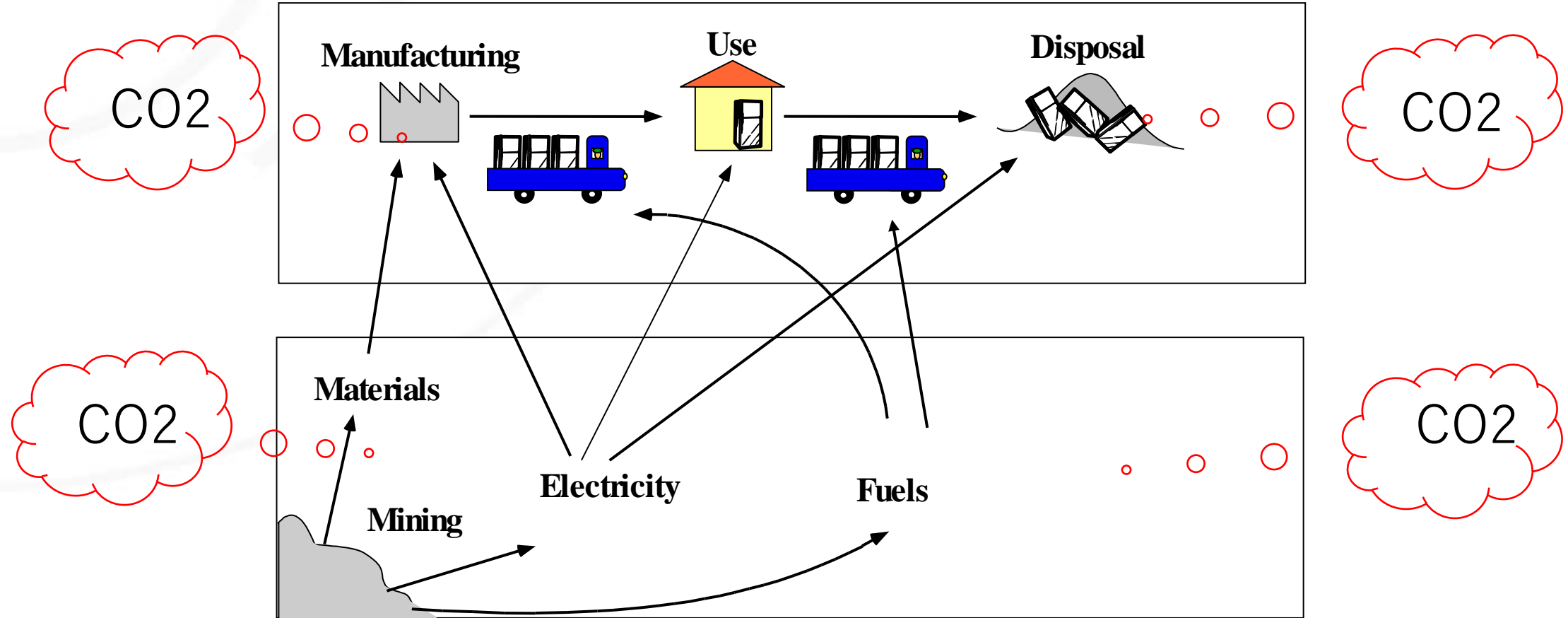
Three Waves on LCA (History)







Foreground Data = Primary Data



Back ground Data = Secondary Data

CFP

2007 Jan.; Walker's Chips with CFP in UK



followed by TESCO



ISO14067:2018 (Carbon Footprints of Products)



➤ Example of canned beverage

Company will find the point of GHG reduction



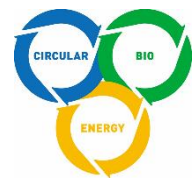
15% 25% 35% 15% 10%

All figures are assumptions.

CO₂ emissions : 123g



Consumers will find how much their purchasing causes GHG emission



- TC207/SC7
- NWIP vote (13 Oct 2019~15 Jan. 2020)
member 60
 - Agree: 37,
 - Disagree: 5; Argentina, Egypt, France, Japan, Singapore
 - Abstain: 18
- Feb. 2020 **SC7/WG15 (Carbon Neutrality)**
- (Convener/Secretariat : GB)

● Carbon Neutrality

Residual Emissions = Removal enhancement + Offset

▪ DAC, **DAC-U**, CCS, CCSU, BECCS

● Transitional state: Hierarchy Approach

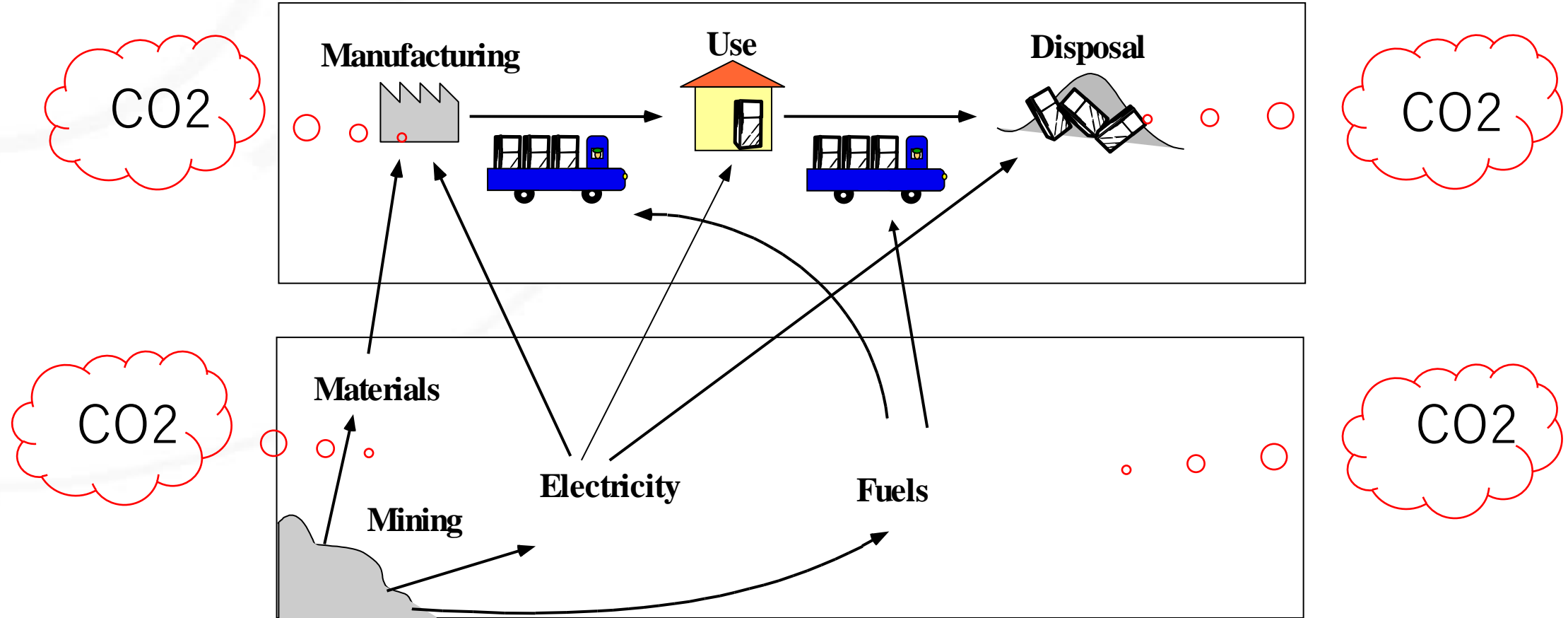
▪ NETs: Negative Emission technologies

- Avoidance: Change portfolio
- Reduction: Energy saving, Renewable, Purchase low carbon products
- Offset (purchase carbon credit)

Scope 3

● NO Avoided emissions

Foreground Data = Primary Data



Back ground Data = Secondary Data

Our DAC-U projects and LCA

We would calculate

- How much we can reduce CO₂ by our DAC-U.

At the start point of the projects,

We would establish the methodology to calculate CO₂ emissions.

- System boundary
- Secondary data etc...