

A not-for-profit association with the aim that all data, software and algorithms to produce “product footprints” are maintained as **open source**

## The challenge

Current sustainability information on products – “product footprints” – is:

- Seriously incomplete
- Lacking in detail
- Generally out-of-date
- Difficult to access

We need to radically rethink the way data is created and made available

## The **BONSAI** strategy

- Automation (scrapers, data mining & advanced algorithms for disaggregation, reconciliation and extrapolation)
- Social media and gaming technology
- Openness and community engagement
- Low costs enables open access

# The **B** **N S A I** work plan

- From raw data to sustainability information:
  - Automated data harvesting using scrapers and text mining
  - Focus on completeness by use of national and international statistical data
  - Advanced, science-based algorithms for disaggregating global totals, reconciling with local data points, extrapolating using time series and calculating product “footprints”
  - Where human involvement is needed or more efficient: Supplement with community involvement via social media and gaming
    - Collective authorship with audit trail
- Cross-examination & reconciliation of data:
  - Automatic data reconciliation and balancing with a transparent audit track
- Review:
  - Social media and gaming approach
  - Review of single data triplets rather than datasets
  - Collaborative non-profit Wikipedia-like environment
- Quality requirements:
  - Ensure low barriers for contributions from non-experts and for cross-dataset editing
  - Flexible nomenclature & low format requirements: Many more data sources become available for processing
  - Quality is ensured via subsequent review



Working  
groups



Input-output framework

Big data harvesting

Data provider interface

Global impact assessment

Uncertainty



Validation

Data review

Product System Algorithms

Data access

User communities

Get involved in a working group or support us at

[www.bonsai.uno](http://www.bonsai.uno)