

THE 8TH LIFE CYCLE CONFERENCE

Pathways to Greening
Global Markets



An LCA and carbon foot printing
conference hosted by the Australian
Life Cycle Assessment Society



The story behind the page – social-Life Cycle Assessment of Focus Press

Dr Fabian Sack

Fabian Sack & Associates

GRDC

Grains
Research &
Development
Corporation

Your GRDC working with you

SimaPro



PE INTERNATIONAL
SUSTAINABILITY PERFORMANCE



ecospecifier global

GREEN TAG

green product certification
trust brands



The story behind the page a Scoping Level Social & Environmental LCA of Focus Press

Dr Fabian Sack & Louise Pastro
(with Dr Maartje Sevenster)



With support from



Sevenster Environmental
Contract Research and Consultancy

Who are we?

- Australian owned print and communications company
- 4 sites across Sydney/Wollongong/Canberra



An Australian Government Initiative



Our Vision

To provide the worlds most innovative
communications solutions



Why s & e - LCA?

- Lead the industry
- Discover new and emerging fields of impact research and mitigation
- Social inequity and dislocation are the root cause of much environmental degradation

Goal of Focus Press s & e-LCA

- Describe in overview the international supply chain and identify key social and environmental impact ‘hot spots’ within an internationally recognised framework, taking into account the views of stakeholders;
- Inform internal strategies to reduce negative social and environmental impacts in the Focus Press supply chain; and
- Apply for the first time a full LCA indicator approach to social impact along the supply chain

UNEP/SETAC Guidelines for s-LCA

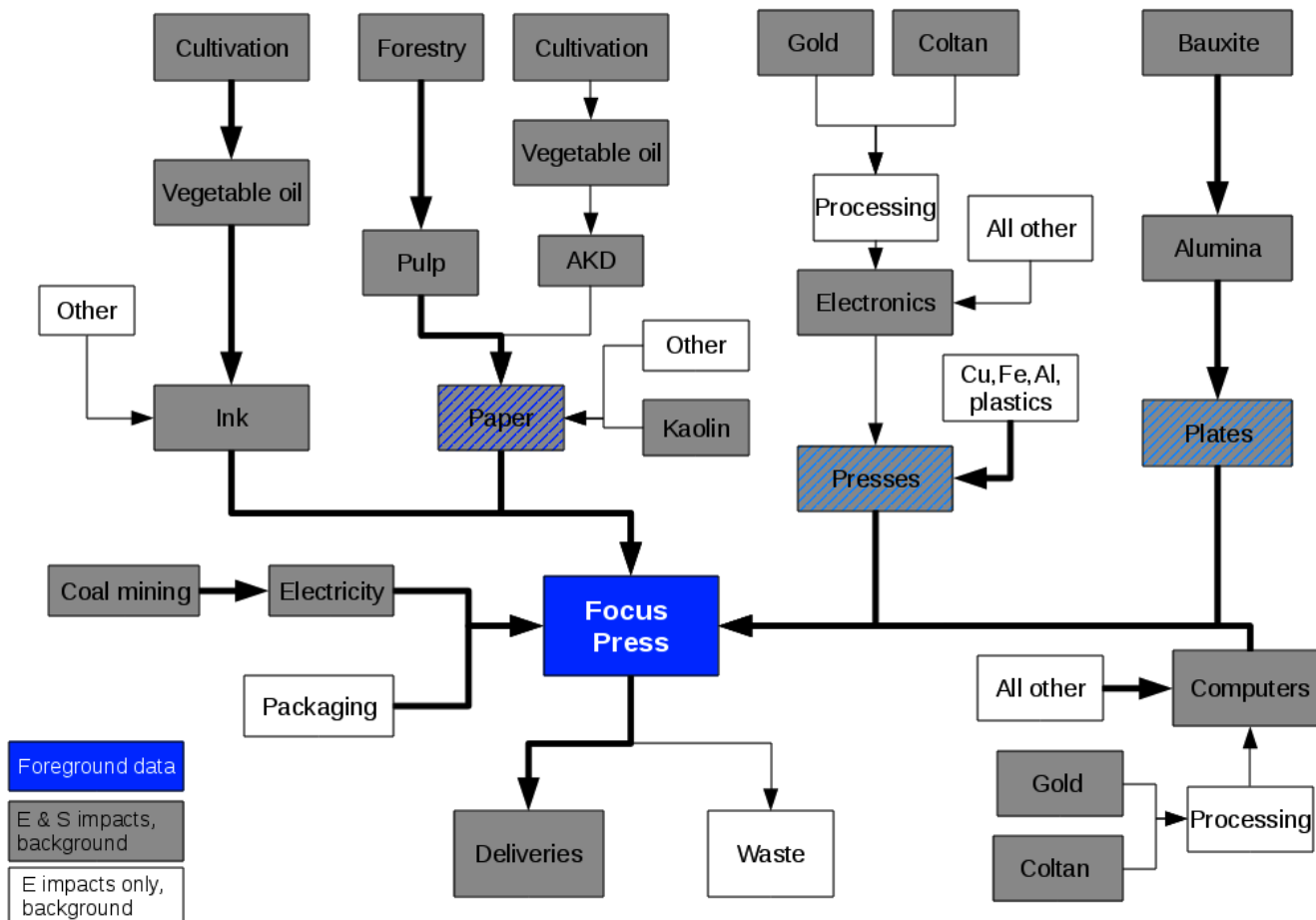
- Promotes improvement of social conditions and overall socio-economic performance of a product throughout its life cycle for all of its stakeholders.
- Achievement of minimum benchmarks or thresholds of performance is recognized by the methods, but so are positive impacts that go beyond compliance.



Scope of Focus Press s & e-LCA

- “Cradle-to-customer”, with deliveries from Focus Press to their customers included, of the total annual production for the year 2011 to 2012 of Focus Press operations
- Does not include:
 - Disposal of print products by end consumers
 - Infrastructure process (roads, buildings, vehicles)

Zero Order Unit Process Model



Stakeholder views



social hotspots database

Access to Hospitals Beds

Access to Improved Sanitation

Children out of School

Smallholder vs. Commercial Farmer

Occupational Toxics & Hazards

Gender Equity

High Conflict Zones

Human Health

Child Labour

Forced Labour

Freedom of Association

Labour Laws

Migrant Workers

Poverty

Working Time



social hotspots database

&



Drinking water quality

Organisational reporting

OH&S

Indigenous world views

Unemployment

Rates of pay



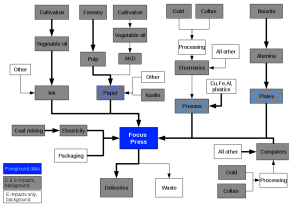
Charitable giving

Policy leadership

Community Education

Employee well being

Methodology



social hotspots database
country specific
Sector risk score



✗ allocation to reference flow

✗ Activity Variable

Focus Press

Other data

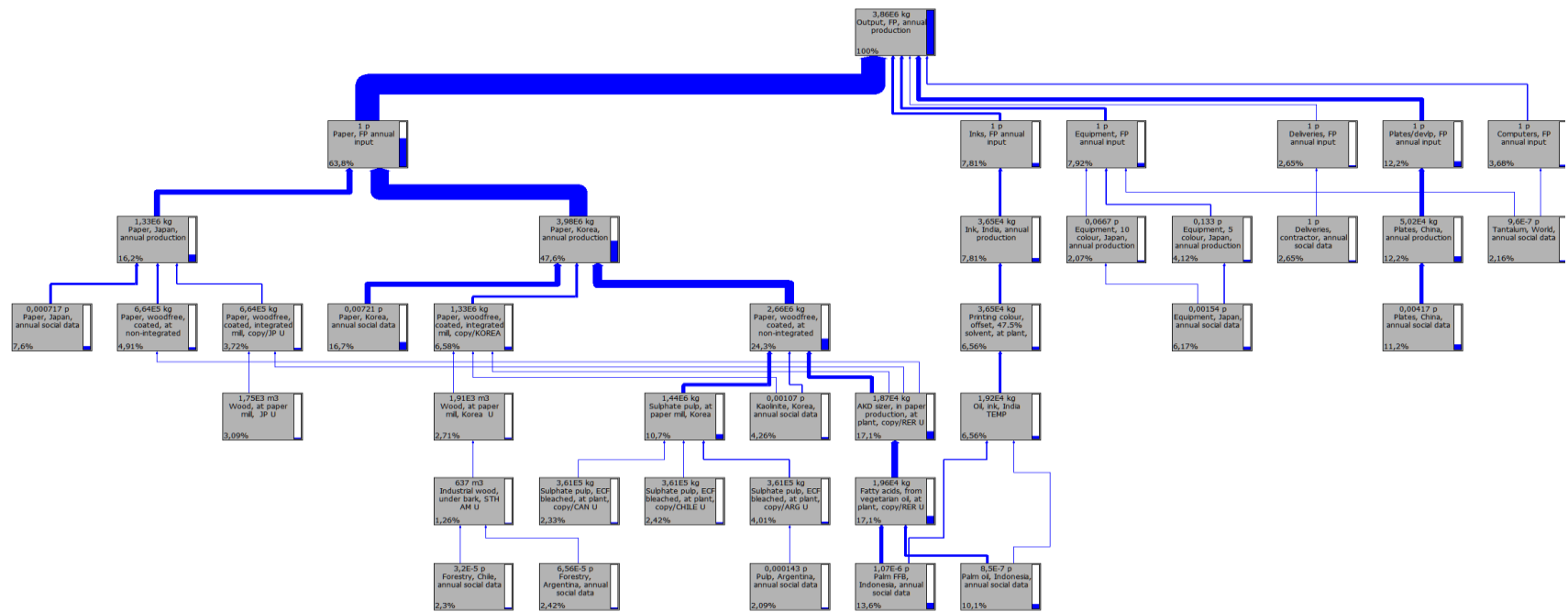


social
performance
data

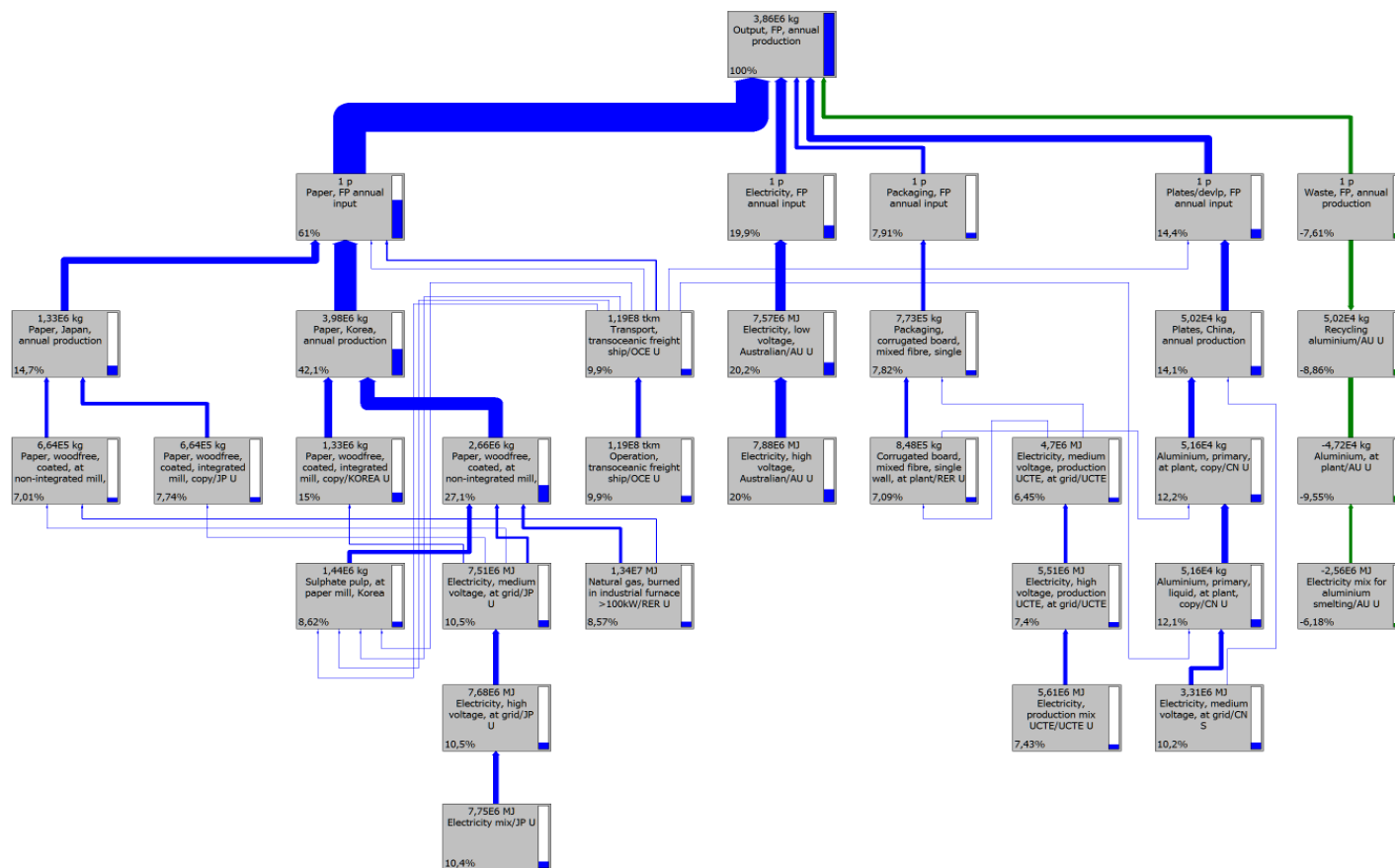


Risk mitigation

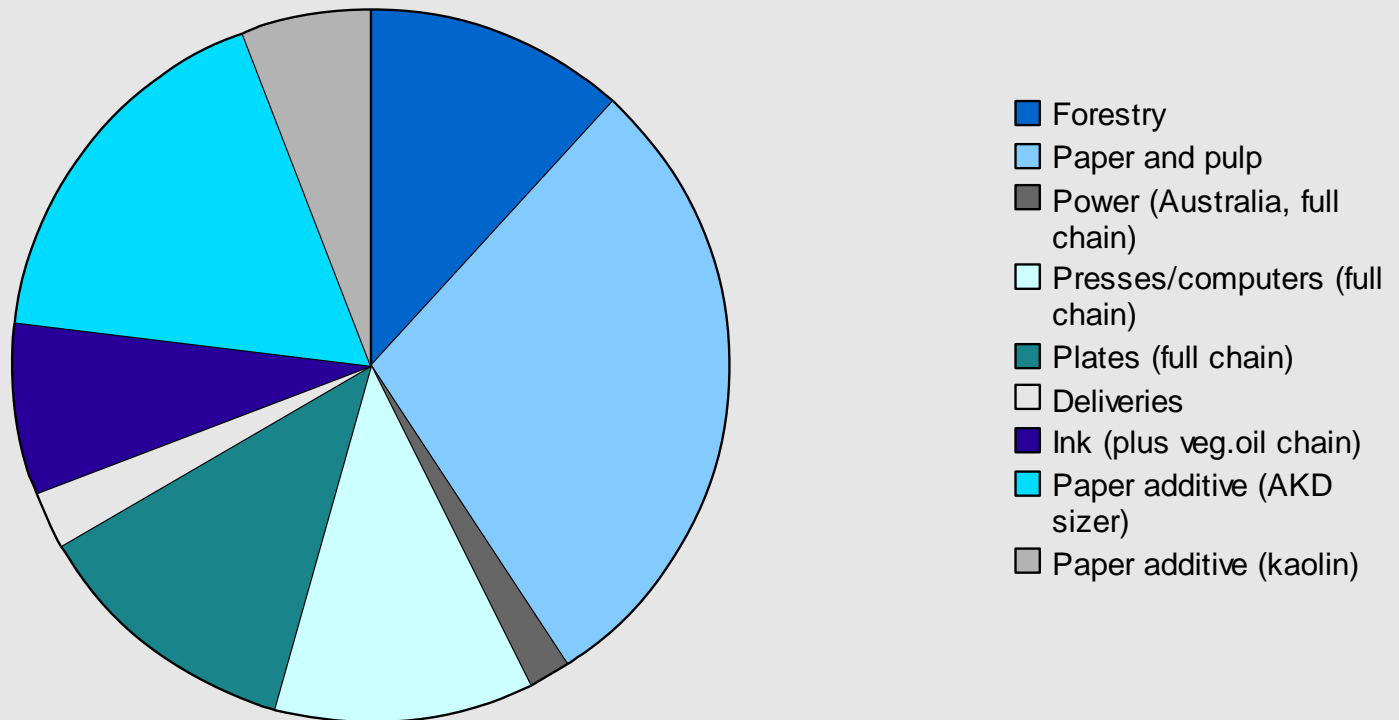
	Very likely	Acceptable risk Medium 2	Unacceptable risk High 3	Unacceptable risk Extreme 5
	Likely	Acceptable risk Low 1	Acceptable risk Medium 2	Unacceptable risk High 3
	Unlikely	Acceptable risk Low 1	Acceptable risk Low 1	Acceptable risk Medium 2
What is the chance it will happen?		Minor	Moderate	Major
		Impact How serious is the risk?		



CO2-equivalent flows



Contribution to social impact (excl Focus Press)



Key Social Hotspots for Focus Press

- Its own operations
- Pulp/paper production in Korea & Japan
- Chinese Production of printing plates
- Cultivation & prod. of veg oil for pulp/paper globally
- Electronics manufacture for office equipment globally
- Production printing presses in Japan
- Kaolin/kaolinite for pulp/paper production in Korea
- Cultivation oil palm for ink production in Indonesia



Key Environmental Hotspots for Focus Press

- 47 kt of raw materials input to Focus Press supply chain /year
- Total carbon footprint is 2.8 kgCO₂e /kg product
- Total global land use is 700 hectares annually, mostly forestry
- Contribution of palm oil to biodiversity impacts = 40%



Where to from here?

1. Engage in discussion with ink and paper suppliers to establish in more detail which oils are used in the supply chain
2. Engage in discussion with the suppliers of electronic devices around socially responsible and sustainable manufacture of electronic devices
3. Engage with the suppliers of Chain of Custody Forestry Certification products to encourage the improved assessment of social impact in pulp and paper processing
4. Continue to consider the employment impacts of business strategy, particularly the outcomes for security of employment
5. Consider the cultural diversity of the workforce in light of trends in national migration

THANK-YOU

Questions and Comments?