







Methodology

- Questionnaire sent to
 operations prior to visits
- Field visits:
 - Interviews with staff and management
 - Questionnaires to employees, outgrowers and contractor companies.
 - Questionnaires to local communities
- Three days of field work for each case study











Viluco S/A

- 22 fields located in the north-eastern Argentina, in the provinces of Tucumán, Salta, Santiago del Estero and Catamarca.
- Soy crushing and biodiesel plant in the town of Frias, Santiago del Estero
- 25170 ha of own land and 10 000 ha of rented land.
- 280 direct employees



Socioeconomic indicators: contribution to local economy		
J. Pilon S/A (Brazil)	Viluco S.A. (Argentina)	
 1.3 million tonnes of sugarcane produced annually: 85 000 tonnes of sugar 18 million litres of anhydrous ethanol 32 million litres of hydrous ethanol 	 580,794 t of soy were processed in the biodiesel plant: 413,600 t of flour 36,486 t of soybean husks 116.701 t of biodiesel 	
~10 million EUR paid to government annually in taxes and social security payments (2011)	n/a	
~3167 EUR for community investment	725,336 EUR for community investmer (Vicente Lucci Foundation)	
40-51% of sugarcane from outgrowers	72.58% of soy from outgrowers	
~17 million EUR paid annually to 150 suppliers of sugarcane (2011)	~ 72 million EUR paid to 242 suppliers of soy (2010-2011)	



Socioeconomic ir	ndicators: employment
J. Pilon S/A (Brazil)	Viluco S.A. (Argentina)
 Mean salaries: Agricultural division = 422 EUR Administration = 882 EUR Industrial division = 502 EUR 	Industrial sector: Administrative: 1695 EUR Storage: 1240 EUR Laboratory: 1973 EUR Agricultural sector: Tractor driver: 1615 EUR Farmworker: 537 EUR
20 % of the employees are temporary migrant workers hired for the harvest period (6 months/yr)	85% of employees are from local area (Tucumán/Santiago del Estero) Contractors carry out most of agricultural labour
The company provides workers with free transport, discounted medical care and housing to some employees	Agricultural sector: housing, basic services and transport (if not own a vehicle)
26 work related accidents/yr (2011)	Industrial sector: 13 accidents (2011) Agricultural sector: 4 accidents (2011)



Socioeconomic indicators: **Employment**

- · Direct vs. indirect labour:
 - · Difficulty of obtaining information about contractor labour - Viluco S/A uses ~20 contractor companies for agricultural operations
- Salary information relevant and easily obtainable - useful to link with information about number of workers in different categories and minimum salaries of the country
- · Information about accidents highly relevant
 - · More standardized format of collecting information (per workdays of years, lost workdays for accidents)



Environmental indicators			
J. Pilon S/A (Brazil)	Viluco S.A. (Argentina)		
11% of the land owned by the mill (558 ha) under protection)	Around 4% of the operations own lands (~1007 ha) are under protection		
573.33 ha land converted in 2011 – most from pasture, the rest from other cultures No native vegetation converted	No expansion of own/rented lands		
Sugarcane burned 182 days/year 32% of the area is burned	Burning not used		
Fertilizer use 20-05-20 (NPK) = 500 kg/ha/yr	Approximately 50kg of 'Super Fosfato Triple' [Ca(H2PO4)2•H2O] applied per ha/yr, (46% phosphate /14% Calcium)		
No reduced/no-till farming used	100% of production under no-till		
Soil analysis every 4 yrs	Soil organic material analysis carried out once a year, phosphorus analysis carried out every 3 years		















