

Value chains : Prime mover and Main Characteristics

- Stakeholder Type
- | | |
|---|--|
| <input type="checkbox"/> Farmer | <input type="checkbox"/> Agrarian Cooperative |
| <input type="checkbox"/> Public Institution | <input type="checkbox"/> Agro-Services |
| <input type="checkbox"/> Final Consumer | <input type="checkbox"/> Farmer Association |
| <input type="checkbox"/> ESCO | <input type="checkbox"/> Agro Industry |
| <input type="checkbox"/> Pellet Producer | <input checked="" type="checkbox"/> Biomass Supplier |

Location of Prime Mover

Municipality : Bulbunte

Latitude : 41.815338

Longitude : -1.604503



- Type of Residue used in value chain
- | | | |
|---|---|-------------------------------|
| <input checked="" type="checkbox"/> Pruning | <input type="checkbox"/> Plantation Removal | <input type="checkbox"/> Both |
|---|---|-------------------------------|
- Crop Species used in Value Chain
- | | | | |
|--|------------------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> olives | <input type="checkbox"/> vineyards | <input type="checkbox"/> apples | <input type="checkbox"/> pears |
| <input type="checkbox"/> peaches | <input type="checkbox"/> apricot | <input type="checkbox"/> nectarine | <input type="checkbox"/> plum |
| <input type="checkbox"/> cherries | <input type="checkbox"/> oranges | <input type="checkbox"/> tangerines | <input type="checkbox"/> lemons |
| <input type="checkbox"/> grapefruit | <input type="checkbox"/> hazelnuts | <input type="checkbox"/> chestnuts | <input checked="" type="checkbox"/> almonds |

Total Plantation Area involved in the Value Chain (ha) 150

Typical APPR biomass production (tonnes/year) 200

Start Date of the APPR value chain (Month-Year) 2012

Factor Group	Description	Check the influence in success:(0)-Not relevant;(1)-May have influenced;(2)-Important for success;(3)It was crucial;(?)-Unknown					Check the 3 most crucial factors in WHOLE table
		0	1	2	3	?	
Logistics Chain	There were pre-existent collaborations established between farmers sector and biomass cosumers/traders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	The introduction of new technologies (machine, handling systems, logistic chain) supported the implementation of new chains	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Private investment for entepreneurs was incentivised	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Short summary of the initiative (<100 words)

Summary of the value chain

Two farmers: one already manages woods LOGS from olive tree plantations since 25 years. In 2014:subsidies to use pruning for energy (300 euro/ha for farmers). They decided to buy a PICURSA mulcher. They produce 200 t/year and sell it to ONE consumer at 50 euro/t (transport not included).

Actors and Roles in Value Chain

VALUE CHAIN ACTORS		Farmers	Farm cooperative / agro productive organization	Agro services Company	Techno-logistics services in agriculture	Biomass energy plant builder /dealer	Energy service company	Biomass consumer / energy user
VALUE CHAIN PROCESSES	APPR biomass producer	1						
	Harvesting & conditioning	1						
	Biomass 1 st haulage/ Transport	↓						
	Pretreatment & Storage	1						
	Biomass further processing	1						
	Biomass transport	↓						
	Energy conversion	→						2

1 Antonio Heredia and Luis Antonio Garcia

2 Biomass consumer

Fuel Specifications

Final form of Biomass prior to Exploitation

- Bales of branches
 Hog fuel-shredded

- Wood chips
 Pellets

Moisture content (%) :

30%

Max Content of Ash (% a.r.) :

Min LHV (kj/kg a.r.) :

Value Chain Details and Prices of fuels

End-users

- Self-consumption
 Public-private buildings
 Biomass to Market

- Industrial heating
 Distributed heat networks

Distance between biomass production and its final use (km) :

Storage options

- On-farm storage
 Intermediate storage prior transporting to end user
 Direct delivery and storage at final user
 No storage

Ownership of the APPR harvesting machinery

- Farmer
 Leasing
 3rd party-private

- Farmer's community
 Municipality-public

Prices of fuels sold to final consumers

<input checked="" type="checkbox"/>	Price of APPR biomass (€/t)	50
<input type="checkbox"/>	Price of regular woodchips (€/t)	
<input type="checkbox"/>	Price of ENPLUS pellets (bulk-€/t)	
<input type="checkbox"/>	Price of domestic heating gasoil (€/l)	

Have you filled the questionnaire about mechanized pruning/plantation removal ?

Yes No

If yes, please provide the name or e-mail you have used on that questionnaire _____

Contact Data

Name : ANTONIO HEREDIA/ LUIS
ANTONIO GARCIA

Email : _____

Phone : 650442286/665975084

Company/Organisation : BIOTONOS/autonomous farmers

Website (of the company or the APPR initiative) : _____

Logo of the company : _____

Country : Spain



Photos

