

EFORWOOD

Sustainability Impact Assessment of the Forestry-Wood Chain

M1 - Sustainability Impact Assessment

WP 1.2 - Data coordination and validation

EFORWOOD Database Client Software Tool for Internet Based Data Collection

Clients (Module experts) The EFORWOOD Database Client is a software tool designed to allow EFORWOOD partners to enter data into the common EFORWOOD database and to design chains

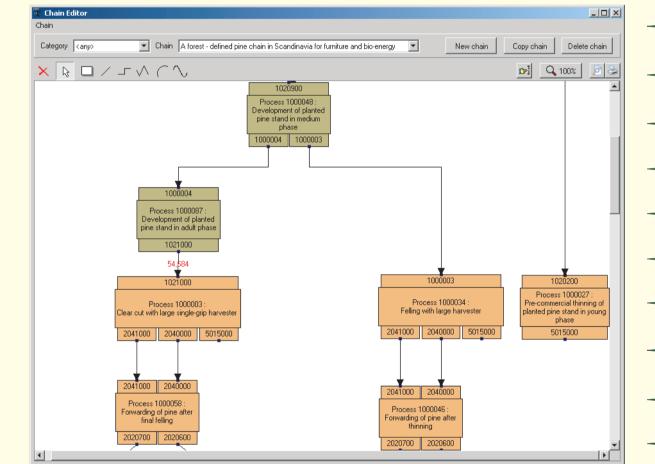
Data Editor

Modules Ch	nains	Process: 1000003 Clear cut with large single-grip harvester
Chain		Attributes of process Indicators of process
	Category <any></any>	Indicator data
A forest de	fined pine chain in Scandinavia for furniture and bio-er	Time validity 2005
Jenoiescoe		Period Indicator name
		N 2005 U7 Employment when the second se
	🗇 EFORWOOD Database Client	
	Connection Data Apply Updates	
	Modules Chains	Process: 1000030 Harvesting of planted eucalyptus with small single-grip ha
		Attributes of process Indicators of process
	Colorent	
	Category basic	Time validity 2005
	Country 0 - anywhere	Mean value
	a diginities	
	Region <any></any>	
	Logisti (City)	2005 IOF Employment that Minimum value
	Module M3 - Forest to industry interactions	2005 U22 Production and of access insults f
		2005 102 · Production cost of process inputs in Mean Error
	Stage <anu></anu>	
Proc Develo	stage (tariy)	2005 I05 · Employment female
pine sta		2005 I08 - Wages and salaries male Indicator units m3 sub
·	ID Process name	2005 IO0 Microso and caloriza female
	1000003 Clear cut with large single-grip harvester	2005 II0 - Energy generation (from process in: Reporting unit year
	1000018 Forwarding with medium forwarder after 1st. Thinning	2005 I11 - Energy generation (from other wood Representativ. high
	1000025 Final measuring and sorting of pine logs	2005 I12 - Energy use (renewable)
	1000027 Pre-commercial thinning of planted pine stand in young pl	2000 TTO - Energy use (non-nenewable)
	1000030 Harvesting of planted eucalyptus with small single-grip ha	/ester 2005 I14 - Energy use/ share self-sufficiency Contact person Diana Votter
Proc Clea		2005 I15 - Carbon sequestration in woody livin
single	1000039 Full-mechanized cutting of planted spruce forest with mec	um harvester, de 2005 I16 · Carbon sequestration in woody dea Used algorithm
2041000	1000042 Transport by truck for short timber with crane	2005 I17 - Carbon sequestration in forest soils
2041000	1000046 Forwarding of pine after thinning	2005 I18 · Carbon sequestration in harvested v
	1000047 Precommercial thinnings in planted spruce forest	2005 IT9 - Total greenhouse gas emissions pe
	1000054 Thinnings in planted spruce forest (1st. Thinning) 1000058 Forwarding of pine after final felling	2005 120 - Hesources and material use (wood
	10000061 Motor-manual cutting, debranching measuring and sorting	2005 121 - Resources and material use (non-w Note
	1000063 Forwarding with medium forwarder after 2nd. Thinning	
_,	1000066 Transport of pine logs	2005 I23 - Occupational accidents (non-fatal)
•	1000069 Thinnings in naturally regenerated spruce forest (1st. Thin	ing) 2005 I24 - Occupational accidents (fatal) Indicator attributes
onnected to	1000070 Harvesting of coppice eucalyptus with small single-grip ha	
	1000073 Final measuring, grading and sorting	Vester 2005 126 - Education time per person-year wor 2005 127 - Education expenditure per person-year wor
	1000074 Transport by truck with crane	2005 127 - Education expenditure per person-y
	1000075 Skidding with double-winch wheel skidder	2005 120 - Transport distance road transport
	1000076 Final measuring and sorting, long timber	2005 130 - Transport distance water transport (
	1000079 Transport by truck for long timber with crane	
	1000080 Forwarding by medium forwarder	Construction In Desta indicates Chamin function

Main features

- Editing attributes of a process
- Editing main process attributes

Chain Editor



Main features

- Creating new chains
- Copying and deleting existing chains
- Zooming the chain structure

- Editing conversion factors
- Editing indicator values
- Copying indicator values
- Pasting indicator values
- Cleaning indicator values
 Possibility to select a process by filtering a list of processes or using the graphical representation of a chain

- Printing the chain structure
- → Moving processes within chains
- Creating new processes
- Adding existing processes into chains
- Removing processes from chains
- Editing input / output products to an existing process
- Adding / deleting links

Data access permission

Module data editing permission

permission to edit data of a certain module

Chain editing permission

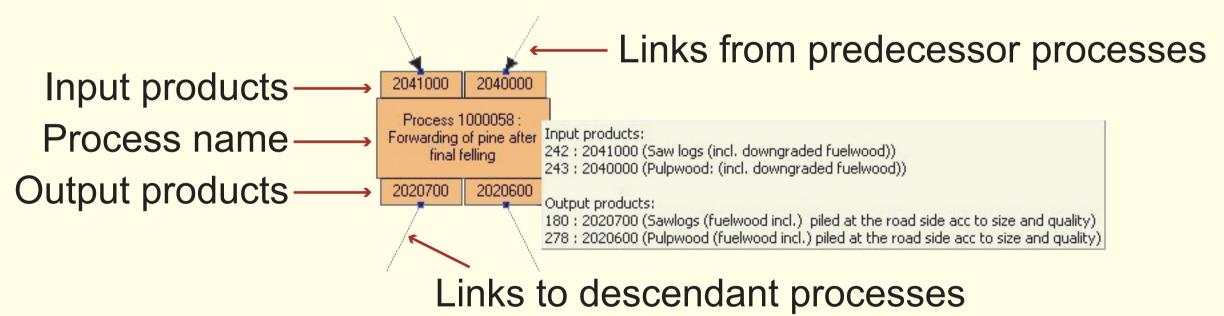
permission to open the chain editor and work with chains according to their "Chain category permission" and "Process category permission"

Chain category permission

permission to create, delete and modify chains of a certain category

- Process category permission
- permission to create and modify processes of a certain category
- Lookup list editing permission permission to edit lookup lists

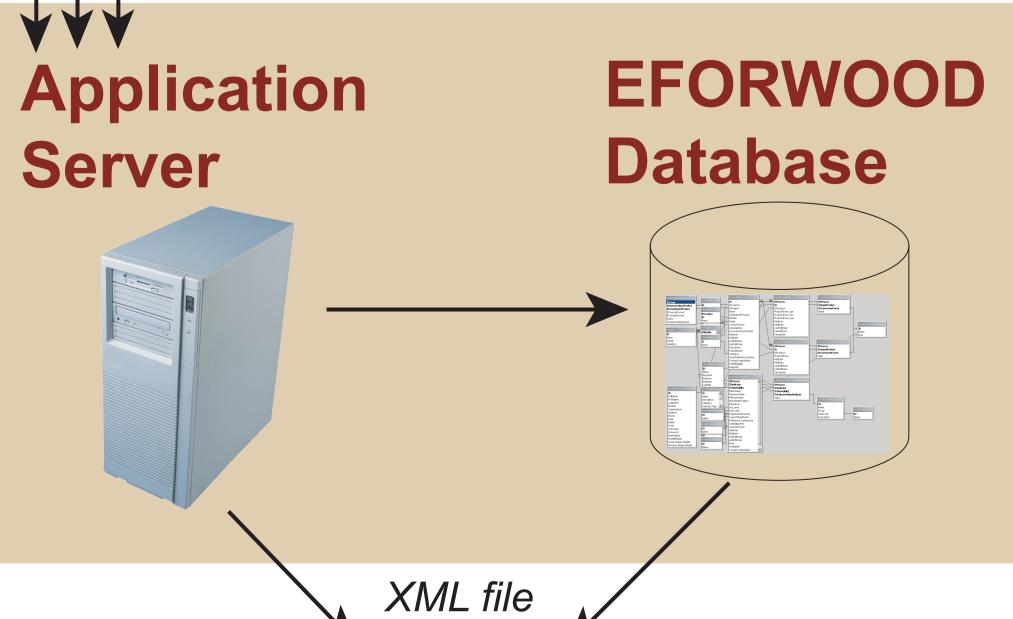
Graphical representation of a process



Coloring of processes

	-		
Module M2	Module M3	Module M4	Module M5
1000004	2041000 2040000	4001000	6006000
Process 1000087 : Development of planted pine stand in adult phase	Process 1000058 : Forwarding of pine after final felling	Process 1000093 : Chair production	Process 1000035 : Consumption, energy heat production
1021000	2020700 2020600	4002000 5007000	5004200 5006000

Internet connection



ToSIA, Scenarios, ...

Application server is an application that provides connection between the clients and the database
 → runs on a dedicated computer located in IFER
 → accessible via the Internet
 → connected to the actual EFORWOOD database

handles multiple simultaneous connections of client applications
 manages the user permission for each user
 exports contents of the database in XML format for ToSIA

