From NWFP to wild forest products: the secondary member of the forest family becomes adult

Results of the WP on Economics and Marketing of the StarTree project

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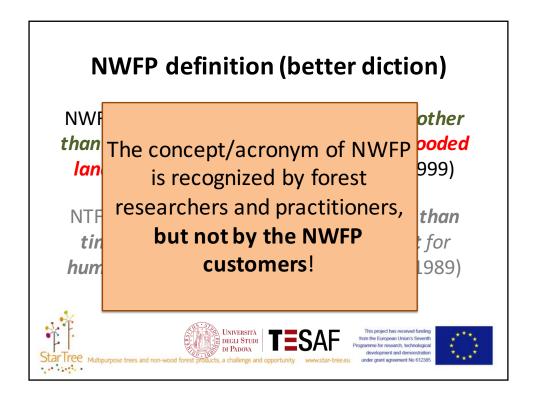


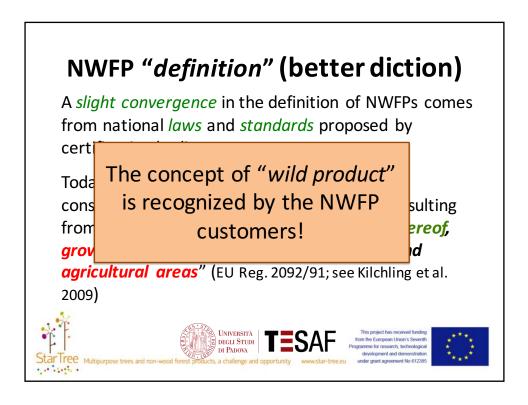
- Product and context definition
- Theoretical framework
- Methodology
- The main results

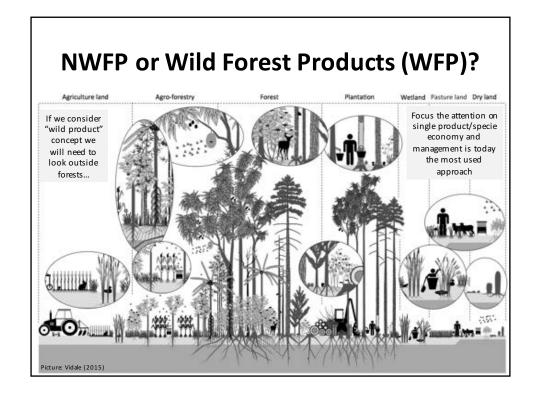


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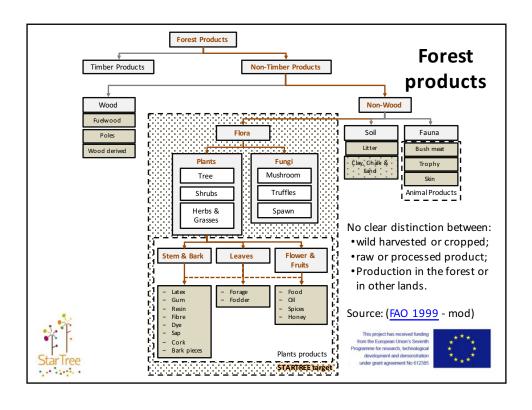


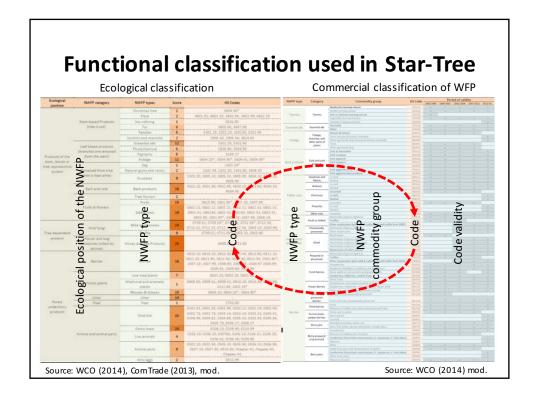


NWFP classification

- Product/commodity classification system (HS, SITC, CN, FAO, WB etc.)
- Aggregation level of the product information
 - By species
 - by level of processing (raw, processed, end product)
 - by commercial categories (size, fresh, dry, purity, etc.)
 - by origin (wild, cultivated, forest, agriculture, physical or chemical extract)
 - By commodity refinement
- · Functional classification
 - ecological, trade, market behaviours, property right, etc.







WFP data sources

- Scale of data source
 - International (ComTrade, FAOStat, EuroStat, US Bureau, World Bank, etc.)
 - National/Regional (national statistical agency, category associations, etc.)
 - Local/SME (public or private accountability)
 - Case study (ad-hoc data collection)
- Production (supply), consumption (demand; from an inventory to a sample survey approach), trade



Theoretical framework: definitions

NWFP economy, market, sector, value or **supply chain** are terms frequently used in our works as synonymous, but each one have different meanings.

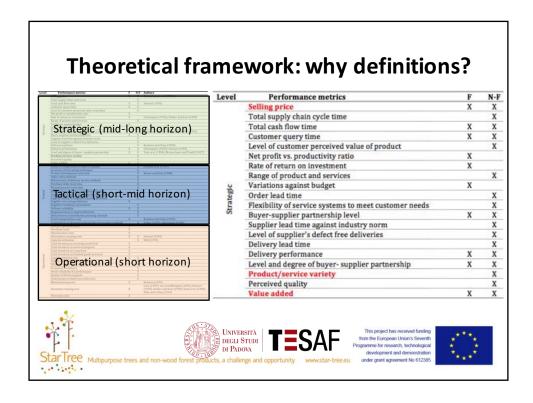
Anyhow they have some common features that help the comparability:

- a) to the considered products;
- b) to the end user distribution and the suppliers boundaries and barriers;
- c) to the **legal status** of the market, which allows formal or informal transfer of the products from the production site to the end user;
- d) to the **economic and non-economic actors** directly or indirectly involved;
- e) to the contextual framework



Theoretical framework: SC and SCM definition

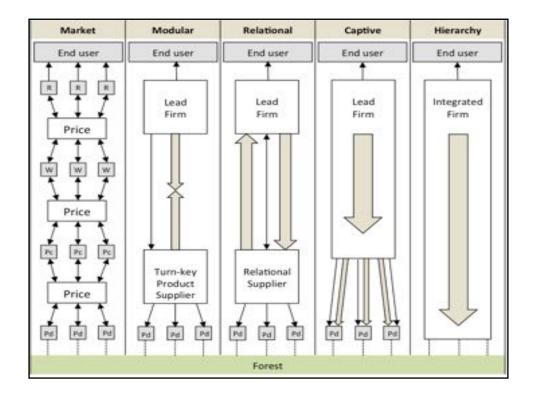
Definition	Source
Supply chain is a system whose constituent parts include material suppliers, production facilities, distribution services and customers linked together via the feed forward flow of materials and the feedback flow of information.	Gunasekaran (2001) based on Steven (1989)
The supply chain is the network of organisations that are involved, through upstream and downstream linkages, in the different processes and activities that produce value in the form of products and services in the hands of the ultimate customer.	Stevenson and Spring (2007) based on Christopher (1998)
Definition	Source
"Supply Chain Management is the integrated planning, implementation, coordination	(Van Der Vorst et al., 2007) based on
and control of all business processes and activities necessary to produce and deliver, as efficiently as possible, products that satisfy market requirements"	Christopher (1999)

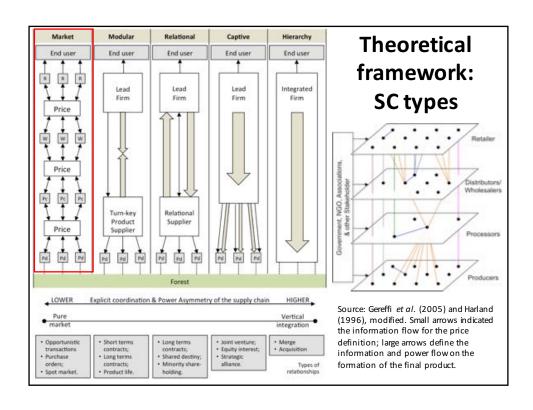


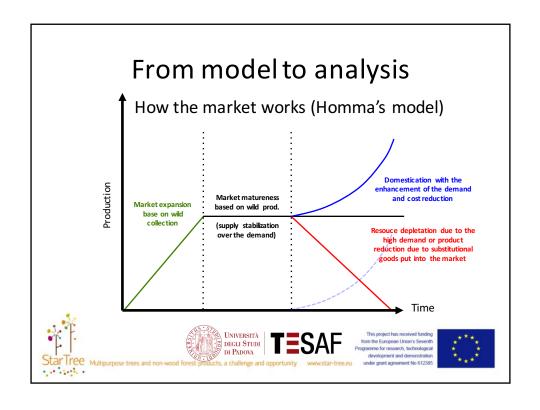
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		ramework: indicators for e performance in the S
Phase		Performance measure
,	Financial	Non-Financial
Plan	Selling price of good and services	abour efficiency Perceived value of product Product development cycle time, Bidding management cycle time Compliance to regulations Forecasting accuracy Supply chain response time
Source	crap/obsolescence cost nventory cost felling price of goods and service Indicators used for	Labour efficiency Product development time Lead time for procurement including supplier development time Delivery reliability Product and service variety
Make	measuring the FINANCIAL performances	abou Indicators used for measuring the conformance or production policies code time for manufacturing roduction flexibility rocess cycle time tecuracy of scheduling roduct and service variety cause added
Deliver	Overhead cost Value added Inventory cost Stock-out cost Transportation cost Warranty cost	abour efficiency Delivery reliability Perceived value of product Value added Product and service variety Perceived quality

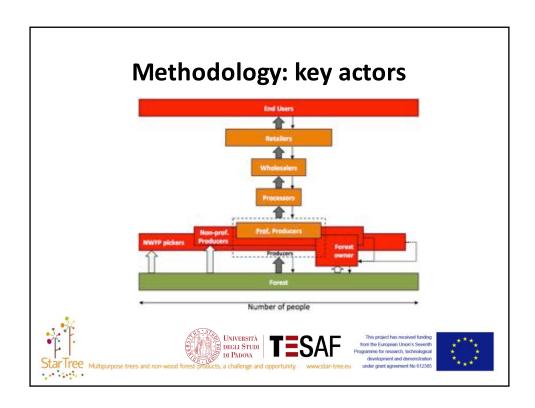


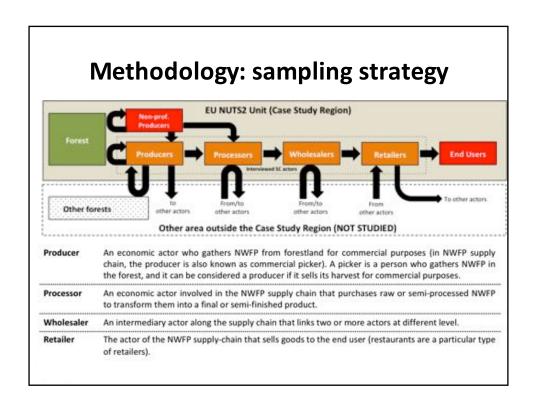


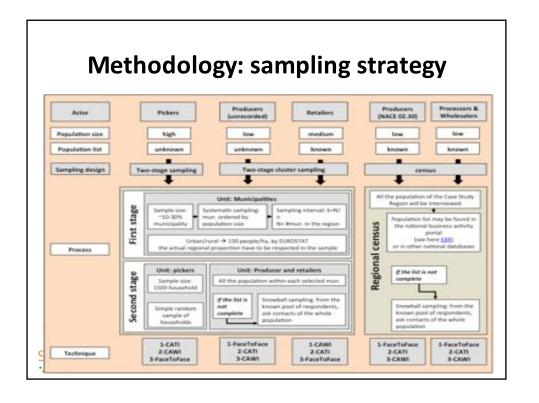


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Methodology: questionnaire

- An introduction: general information about companies and individual actors were aimed to be collected;
- a specific part on the raw (fresh and sorted) products: detailed information about the two most important species collected in the wild:
- a part on traded and processed products: detailed information about the two most important products;
- and the final part, where the respondent is asked to provide information about other enterprises conducting the same type of activity in the region.



Methodology: data collection

Case Study	Actors	Population list	Sampling	Final Sample	Interview technique	Reliability
	Prod	All chestnuts producers (both small and big ones) belong to associations or consortiums. There are 10 Associations in Trentino and 3 in Alto Adige, with 40-200 producers each.	nall and big ones) to associations or ums. There are 10 tions in Trentino n Alto Adige, with producers each.		Face-to- face	Representative
Trentino Alto Adige (chestnuts)	Proc	Few bigger producers are also processers: no formal list. Big processors are out the Region	Snowball sampling	3+7	Face-to- face	Unknown the representativeness (but it should be good), and data is reliable.
	Whol	In formal registers, nominated by producers.	Census	5+13	Face-to- face	Representative
	Ret	Selection of municipalities, and the list has been created directly in the field	Two-stage cluster sampling: all small retailers within selected municipalities have been interviewed + 2 big supermarkets	21+18	Face-to- face	Representative



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		Level of	Part of wild World	World	From EU28	To EU28	EU28	World-EU28	
	Code	processing	harves t?	2011	2011	2011	balance	Exp. %	Imp. %
Honey	040900	Raw	Yes	1906	616	1019	-403	32.34	53.48
	060410	Raw		58		37		55.98	62.61
resh foliage	060491	Raw	Yes	1210		887		60.29	73.28
Dry foliage	060499	Raw	Yes	367	170	231	-61	46.33	63.06
iesh & fiozen Agaricus	070951	Raw	No	1302	1102	972	129	84.63	74.68
resh & fiozen truffles	070952	Raw	Yes	-	-	-	-	-	-
resh & frozen mushrooms	070959	Raw		785		480	-66	52.69	61.12
reserved Agaricus		Processed		101		53		32.07	52.99
reserved mushrooms	071159	Processed	Yes	119	17	85	-68	14.45	71.68
Oried mushrooms	071230	Raw	Yes No	-	-	-	-	35.52	49 94
Oried Agaricus		Raw		116		58	-17		
Oried Auricularia		Raw Raw	Yes Yes	196 55		16	-12	1.95 2.30	8.12 3.08
Oried Tremella			Yes	1370		170	100		0.00
Oried mushrooms	071239	Raw Raw	Yes No	1043	36	55	-100 -19	5.17 3.41	12.44
Almonds	080211	Processed	No No	3369	671	1710	-1938	19 93	50.75
ihelled almonds	080212	Raw	No No	180	25	41	-1038 -17	13.61	23.00
fazelnuts	080221	Processed	No No	1782	296	1342	-1046	16.60	75.32
helled hazelnuts	080222	Raw	No	987	164	308	-144	16.61	31.23
Valnuts	080231 080232	Processed	No	1545	219	678	-459	14.15	43.88
helled walnuts	080232 080240	Raw	Yes	299	153	121	31	51.05	40.60
istachios	080240	Raw	No	3013	524	1287	-763	17.38	42.70
ristaenios riesh strawberries	080250	Raw	No	2579	1604	1533	71	62.18	59.41
resh raspberry	081010	Raw		1173		442		34 97	37.70
resh curants	081020	Raw	No			-	-	-	-
resh canbenies	081030	Raw	Yes	1428	345	488	-143	24.14	34.18
resh other	081090	Raw		2948		914		24.19	30.99
rozen strawberries	081110	Raw		1090		706		43.95	64.73
rozen raspbenies	081120	Raw		951		694		43.72	73.00
rozen fruits and nuts	081190	Raw		2530	1033	1484		40.82	58.66
repared Agaricus	200310	Processed	No	1179	572	568	4	48.48	48.17
repared truffles	200320	Processed		29		17	6	82.02	59.62
repared mushrooms	200390	Processed	Yes	228	84	87	-3	36.77	38.20
Quebracho tannins		Raw		85		32	-25	8.27	37.07
Vattle tannins		Raw		130		24	-19	3.37	18.25
Other tannins	320190	Raw	Yes	195	92	57	35	47.05	29.12
Vatural Cork		Raw		147		132	- 8	94.88	89.67
Ork in piecies		Processed	Yes	93		69	10	84.94	74.10
Ork squared	450200	Processed		72		42		87.82	58.45
Ork Stopper	450310	Processed	Yes	743		406	299	94.92	54.71



