



Business models generation in forest sector: exploring innovation potential

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Methods

Cases

Tentative results

New business models in the European forest sector?

Digitalization, urbanization, climate change, forest ownership structure,...

Extended canvas & core values CIMO-analysis

Twelve cases from eight countries totally Six cases from six countries implemented

Traditional forestry adopts new models



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Urbanization

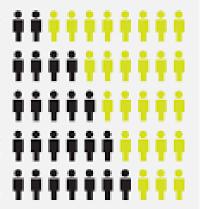
1900 | 2 out of every 10 people lived in an urban area

1990 | 4 out of every 10 people lived in an urban area

2010 | 5 out of every 10 people lived in an urban area

2030 | 6 out of every 10 people will live in an urban area

2050 | 7 out of every 10 people will live in an urban area



Defined by UN HABITAT as a city with a population of more than 10 million

Customer Behavior





Forest Ownership Structure

Business Models 4

Key concepts to improve business performance



1950 - 1970

1970-1990

2000-2010

2010-

Each network member relies on the others to foster growth and increase value

Business Models

Examples of changing business models

- media company don't print
- hotel service provider don't own real properties (hotels)
- taxi company don't own vehicles





What in Forest Sector?



What is Business Model?

- Academic discussion quite new, since approx. yrs. 2000-2001
- No common and shared definition. Here are some.
 - Osterwalder, 2004: Business model is a simplified model and representation of how a company buys and sells goods and earns money. It contains the set of elements and their relationships and allows expressing company's logic of earning money.
 - Zott & Amit, 2010: The business model is an activity system that should be seen as a whole.
 - Frankenberger et al., 2013: closed business models (focus primarily on internal value creation) and open business models (focus on external resources as key contributors to a firm's value creation process)
 - Wu et al., 2013: There is some consensus that business model describes the design of the value creation, value delivery and value capture mechanisms of the firm.
 - Teece, 2010: The essence of a business model is in defining the manner by which the enterprise delivers value to customers, entices customers to pay for the value, and convert those payments to profit. It thus reflects management's hypothesis about what customers want, how thay want it, and how the enterprise can organize to best meet those needs, get paid for doing so and make profit.



Main Elements of a Business Model?

- Business Model describes the key components of given business.
- Main elements are:
 - Value Proposition
 - The Customers
 - The PerformedActivities andTransactions

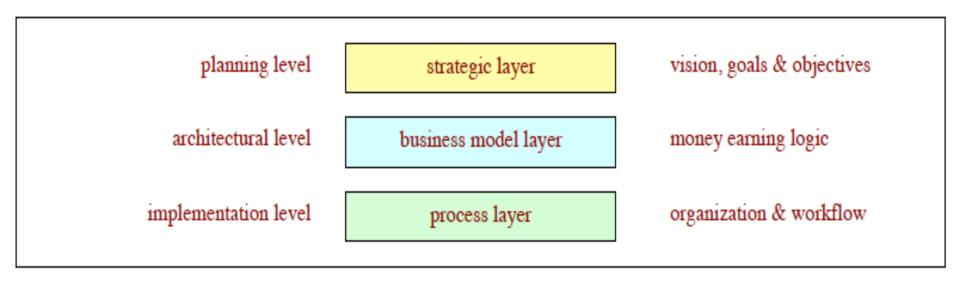
(Frankenberger, Weiblen, Gassmann. 2012.)

- Customer Value Proposition
- Profit Formula (revenue model, cost structure, margins, inventory turnover)
- Key Resources (people, technology, products, ...) and Processes

(Johnson, Christensen, Kagermann. 2008.)



Business Models in between strategy and implementation



Osterwalder, 2004.



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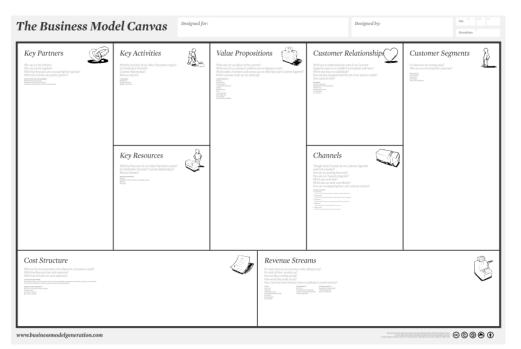
Extended Business Model Canvas and Core Value Analysis

1. Critical business issues added:

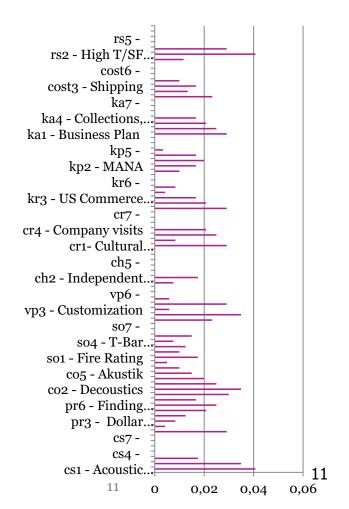
- Customer needs
- Competition
- Proposed solution

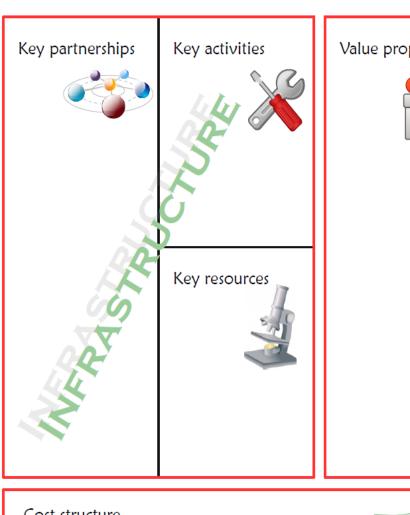




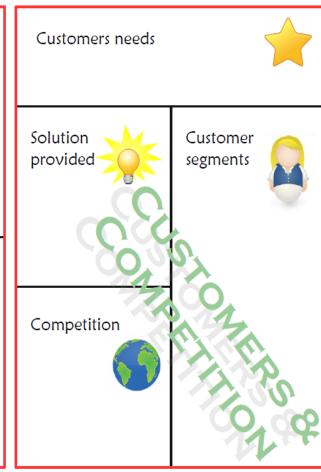


2. Analytically assessed prioritization of the elements











Revenue streams





Business Model Design Phases

1. Setting up the Context

- Problem area pain chain
- Who, how and when?

2. Identifying ideas

- Interviews (face-to-face, phone)
- Small group interviews
- Brainstorming (different methods)
- Input by net link

5. Co-creation workshop

- => Business Model
- => Action Plan

3. Evaluating the identified items



4. Core value analysis



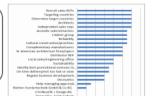
Selecting key items to Business Model (BM) by core value calculations

- BM can be seen as a portfolio of items connected and interrelated with each others
 Method identifies the best portfolios by calculating a big number of alternative
- criteria weights
- · Core value calculation helps identifying the most preferable set of key items
 - Core items included in every effective portfolio = BM (core index =1)
 - Borderline items included in some effective BM (o < core index = o < 1)

 Extension items not included in any effective BM (core index = o)









CIMO-analysis

Context



Intervention



Mechanism



Outcome

Context[s] C **Business Models** Problem[s] Including Intervention[s] I challenges and opportunities The "what" part Generative mechanism[s] M The "how" part Output[s] O Results of the MCDS Evidences of the The "results" of analysis are included causalities between the business[es]

interventions and

outputs

that solve the

problem[s]

as a post-hoc BM

design analysis



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Twelve cases from eight countries totally

Finland: Forest berry map, eShop of PFOA, Virtual Forest

Estonia: Invest Forest Sweden: Permaculture

Czeck: small forest owner, municipal forest

Latvia: former state forest based limited company

Serbia: SERBIO, PFOA

Slovenia: New auction based wood market Croatia: Private forest company "Šuma"

Six already implemented cases, tentatively analyzed

Identification	Country
Permaculture based forestry and education	Sweden
Forest Owners e-Shop	Finland
Joint Investments to forest property	Estonia
High Quality wood auctions	Slovenia
Forest owners voluntary professional organisation	Czech Republic
Joint Stock Company Latvia's State Forests	Latvia

Case studies	1 Customer and competition	2 Offering	3 Resources	4 Profit formula
Permaculture [Sweden]	Heligfjäll (holy mountain) ecosystem	By offering unique field trips	A personal commitment and openness to new ideas	Customers recognize the value
FOA eShop "Savotan Puoti" [Finland]	10 Forest owners, young with internet ability	20 Easy access for forest related products	31 FOA services ltd.	40 Product-based marging about 20%
	10 Older forest owners	Advantages of FOA members	32 Constructing the way of actions with other FOAs	40 delivery costs
	10 Distant forest owners	21 Marketing channel, Google	32 Marketing strategy and budget	41 Enought big product butches
	12 Hit products	Marketing forest journal		
		Marketing through a network of FOAs		
		22 Visibility in net searches		
Commercial association	11 Democratic decision making	20 Legal issues, impossible to sell the organisation	30 Good idea	40 Increase of biological assets
association [Estonia]	13 Possibility of regular payments		31 Leader with the clear vision	
HQ wood auctions [Slovenia]	11 Supply of high quality/rare wood	22 Professionalism and sincerity	30 Intelectual sources	41 Wood transportation and wood manipulation
	13 Assurance of supply and demand (i.e. market)	, , , , , , , , , , , , , , , , , , ,	32 Intelligible identified target market and customers	•
	()		32 Establishing of logistical system	
SFO [Czech Republic]	10 Residents living near the local forest property	20 Reliable and honest member of the community	30 Basic knowledge and willingness to learn	40 Income from sale of wood
	11 Cheaper raw material directly from the source	20 Wood in the place of delivery	31 Selected local forest owners	
	11 Flexibility and speed of delivery	20 Cheap firewood	31 Forest management Institute (FMI)	
	11 Good price and saving money for transport	21 Personal communication	32 Cooperation with other forest owners	
		22 Providers of forest services		
		22 Customer requirements		
		22 Good long term relation with licensed forest manager		
JSC [Latvia]	11 Stability and predictability	Stable and trustworthy enterprise	Forests and land	Incomes are much higher than costs
	13 Knowledges	No threats for wood flow	Adequate road network	
	13 Collaboration with researchers			



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Traditional forestry adopts new models

- Cases are grounded on traditional forestry businesses and mainly deliver either new service or organisational improvements.
- The business models analysed introduce new channels for reaching customers (e.g. Finland eShop), satisfies new customer needs (e.g. Sweden Permaculture), target new customers (e.g. Slovenia auctions), reduce transaction costs (e.g. Czech Republic SFOA), and improve customer relationships (Estonia Commerce and Latvia JSC).

- The most important areas of analysed business were the infrastructure and the offering
 - key resources (e.g. human resources, infrastructure),
 - customer relationships (e.g. uniqueness, personalization)
 - key activities (e.g. innovative services, reinforced cooperation).
- A difference was observed in the highly developed countries (e.g. Sweden, Finland) focused on service innovation ex-eastern bloc countries (e.g. Estonia, Latvia) concentrated on organisational innovations (related to Liviu's finding?)

- The main mechanisms recognized vary according to the context
- as a general result we consider the following design proposition:
 - in a context of changing forest ownership, emerging new forest owner types, changing Forest Owners Associations (FOAs) structures, membership decline, unstable legislative and business environment, ungrounded wood market,
 - in order to improve forest management, increase the FOAs turnover or forest owner profit, reach new forest owners, overcome the distrust to cooperation and improve the organizational environment (i.e. <u>outcomes</u>)

- Understanding the relationships between the interventions and the outcomes, namely the mechanisms.
- For example, a legally grounded joint ownership might represent a tool to ensure the democratic decisionmaking in order to eliminate or reduce the distrust.
- Another example is the legal entity (e.g. a company, FOA) that might offer to forest owners the possibility to sell their wood in an organized way and thus increasing the motivation to manage their forests in order to increasing profit;

Tentative recommendations

- enhance *reliability* and *honest* membership of communities (i.e. mechanisms) by increase the professionality of FOAs and promote consultancy (i.e. interventions);
- increase the *motivation* of forest owners by e.g. offering them the possibility to sell (high-quality and rare) wood through auctions;
- ensure democratic decision-making by ensuring the creation of legal structure for joint ownership;
- enhance efficient communication channels by building partnership with traditional FOAs;
- stimulate personal commitment and openness to new ideas by offering field trips to permaculture areas;
- increase the *awareness* and *education* of forest owners by performing demonstration on selected topics.
- Encourage and support newcomers to forest sector (new forest owner) to introduce something new to forest sector!

Conclusion 1

 Traditional forestry is adapting to changing world, reflecting to Value Network & Ecosystem Service approaches

=> Forest sector can be an active passenger in a school bus

Conclusion 2

- Business Model thinking is suitable in the European forest context
- It provides tools to generate new business model for exploring innovation potential
 - systematic co-creation among different actors
 - culture of fast experimenting

Conclusion 3

- Every case is context dependent. However, you don't need to change everything. It is enough to identify the vital 2% of behavior (e.g. wood auction) adding value for the whole value network and put efforts to change it by applying business model thinking approaches
- Motivate and enable the change at personal, social and structural levels

(see Grenny et al. 2014 Influencer, the new science of leading change)

	Motivation	Ability
=	1	2
Persona	Make the	
2	Undesirable	Surpass
	Desirable	Your Limits
Social	3	4
ŝ	Harness Peer	Find Strength in
	Pressure	Numbers
Structurel	5	9
	Design Rewards	
£	and Demand	Change the
-00	Accountability	Environment