



Inclusive Business Models - Promoting SMEs In The Water Sector

Main Objectives



One of the main objectives of DEMOWARE is:

- ∞ Market Access and business development for <u>SMEs</u> in the water sector.
- ∞ **To Design and deliver an online tool** to support <u>SMEs</u> in the development and exploitation plans. This will include:

- > Business vision creation
- Market insights
- > Access to finance

- Adaptation of products to markets
- Product positioning
- > Partnership strategies

Why Innovate on Water Reuse Business Models?

- ∞ Water Reuse faces global barriers
 - Lack of sustainable business models
 - Lack of correct pricing of the resource
 - Regulatory challenges
 - Poor public perception due to a lack of public understanding
- ∞ DEMOWARE has investigated to help companies define:
 - New markets that present opportunities for the services
 - Providing business model strategies promoting technologies linked to water reuse.
 - Demonstrating the full benefit of water reuse schemes based on a Cost Benefit Analysis
 - "innovative financial engineering" of water reuse schemes (through pricing, taxes, incentives etc.).
 - Tools for SMEs to define new business opportunities.

How are Water Reuse Schemes currently Financed?

- ∞ In broad terms three principle models exist for financing the construction, operation and maintenance of wastewater treatment:
 - Public financing
 - Private financing or
 - Joint Ventures Public Private Partnerships (PPP)
- ∞ Within these principle models of financing the following variances exist:
 - > Private Responsibility
 - Fully Private Provision
 - Service Contracts
 - Build, Operate, Transfer
 - Concession Contracts
 - Passive Public Investment

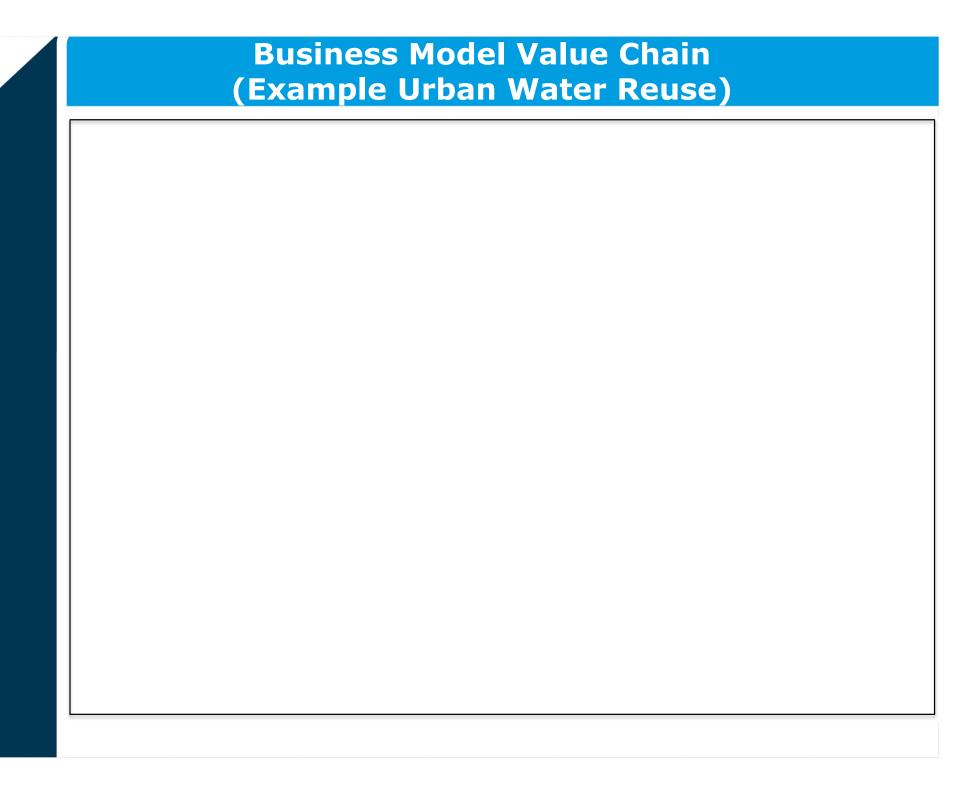
- Public Responsibility:
 - Fully Public Provision
 - Passive Private Investment
 - Design and Construct Contracts

Cost Recovery for Water Reuse Schemes

- ∞ The most common models for recovering operational costs for wastewater treatment operations are:
 - 1. Water Pricing for Cost Recovery
 - 2. Water Rights Trading
 - 3. Payment for Ecosystem Services (PES)
 - 4. Financing

Business Model Investigation: Methodological Approach

- ∞ 3 Demonstration sites were considered (Reuse schemes for Urban, Industrial and Agricultural)
- ∞ Analysis of the business model value chain from the identified sites
- ∞ Positioning strategy for the near future (up to 2017) and the core
 mission strategy up to 2017; desired markets taken into
 consideration; and the expansion goals for products/services
- The level to which inclusive and sustainable business
 management concepts are relevant to the companies were
 analysed:
 - relevance of inclusive and sustainable business management;
 - major initiatives on sustainable management
 - major initiatives on inclusive business management



Recommendations to improve business models of the sites analysed

- ∞ **Recommendation 1**: Expand the identification phases of the services delivered (Partnerships)
- ∞ **Recommendation 2**: Improvement of the production phases (emerging contaminants)
- ∞ Recommendation 3: Improving the sustainability impact (maximizing the re-use of by-products)
- ∞ **Recommendation 4**: Expanding the access to markets
- ∞ **Recommendation 5**: Expand the use of strategic tools to improve the business model value chain
- ∞ **Recommendation 6**: Developing awareness for building in mentality changes (engage the civil society)

Current Business Models that can be adapted to the Water Reuse Market.

- ∞ Strategyzer/Business Model Canvas
- ∞ Business Model Innovation Tool Kit For Emerging Markets
- ∞ SME Toolkit
- ∞ Business Model Architect
- ∞ Start-up Strategy Framework
- ∞ The Lean Start-up Methodology
- ∞ The LaunchPad for Enterprise

The Adapted Water Reuse Business Model Canvas

Kev Partners

- Who are our Key Partners through the value chain?
- Which are the Key Resources that we require from our partners?
- Which Key Activities do our partners perform?
- What M&E framework we use to evaluate partnership performance?

Key Activities

- What are our Key Activities based on revenue %?
- What are our Key Activities based on diversification and long-term goals?

Key Resources

- What Key Resources do our Value Propositions require?
- Are we missing key resources to provide water reuse value to the sector?
- Our Distribution Channels?
 Customer Relationships?
- Revenue Streams?

Value Proposition

- What is the value our company provides:
- For our clients
- For our shareholders
- For our community
- For our employees
- For the environment

Customer Relationships

- Define the typology of customer relationships we adopt?
- Define costs per type of customer relationship
- What M&E framework we use to evaluate customer relationships?

Channels

- Which Channels are we using to reach the clients in the urban setting?
- Define each of these channels per product (water, energy, sludge etc)
- What is the performance success ratio from each channel?
- How do we integrate the Channel distribution into our customer strategy?

Customer Segments

- Define all the potential customers for urban water reuse
- Of these, who are our most important customers?
- Categorize clients by % of type of customer relationship
- Define strategy to engage priority clients

Cost Structure

- Define all costs associated to the value chain of activities
- What are the most relevant costs based on the key activities?
- Define how the costs are aligned to value generation per each activity phase

Revenue Streams

- What value are customers really willing to pay for water reuse and associated products (energy, nutrients etc)?
- How much does each Revenue Stream contribute to overall revenues?

Tools for SMEs for Business Promotion: Methodological approach

Methodological process:

- Demand assessment among SMEs
- Piloting with selected SMEs
- Identification of existing tools
- > Development of specific tools
- Programming of beta platform, piloting and testing with a few SMEs
- Programming of platform and launch

Based on the needs from potential target audience (SMEs and corporations) identified with the survey, some of the preliminary results from the survey analyses processed so far are described based on:

- a) sector representativeness;
- b) information about the companies: mission, main products and customers; and
- c) analysing the engagement of companies through the Business Model Value Chain.

Sector Representativeness

The SMEs represented in the study performed are the main ones of traditional sectors related to wastewater treatment and management

Main sectors represented by companies engaged in the study

Wastewater Treatment

Water

Engineering & consultancy

Water consulting

Environmental and civil engineering

Nanotechnology Applied to Water Remediation

Manufacturing

Pump industry

ICT

Chemical & Petrochemical

Water and wastewater technology supplier

Capacity building

Policy support

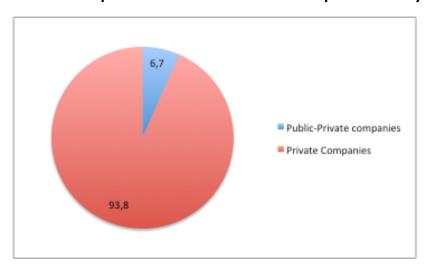
WATER + ICT

Services

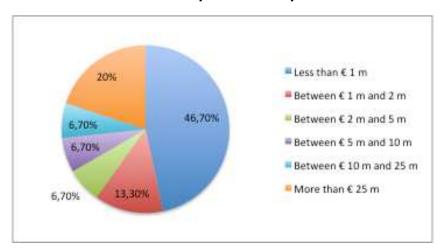
Innovation consultancy

Sector Representativeness

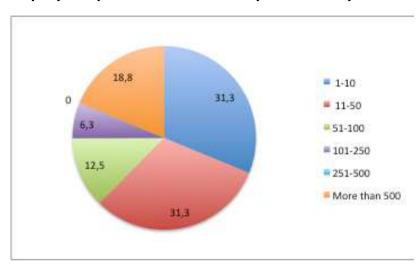
Private and public constituencies of companies analysed



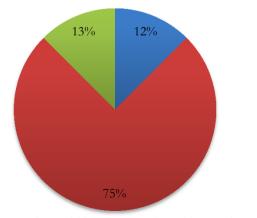
Annual turnover of companies analysed



Employees per each of the companies analysed



Regions of business activities of companies analyse



■ Within Europe only ■ Within Europe and outside ■ Only outside Europe

Company strategic information

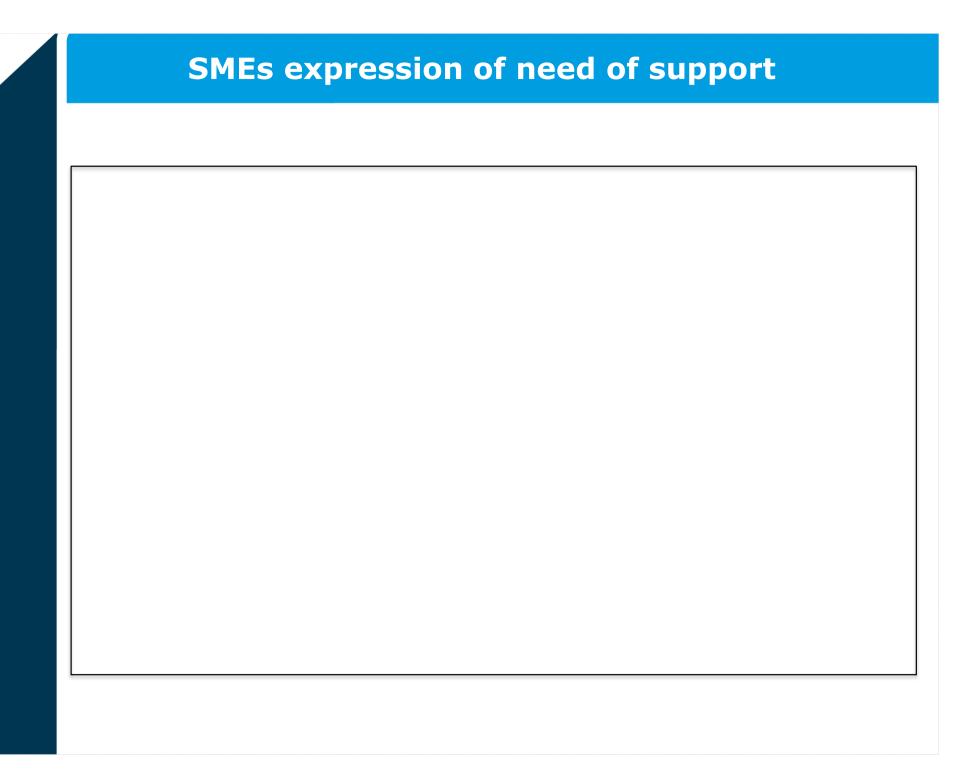
About the company's missions: Most of the companies see their mission with regards to the bigger picture and their goal is to provide sustainable solutions for the world's growing water demand and the growing water shortage. Some companies focus on optimizing their specific product/service, such as capacity building or pump manufacturing.

Concerning main products: The main products that the companies analyzed provided are the following:

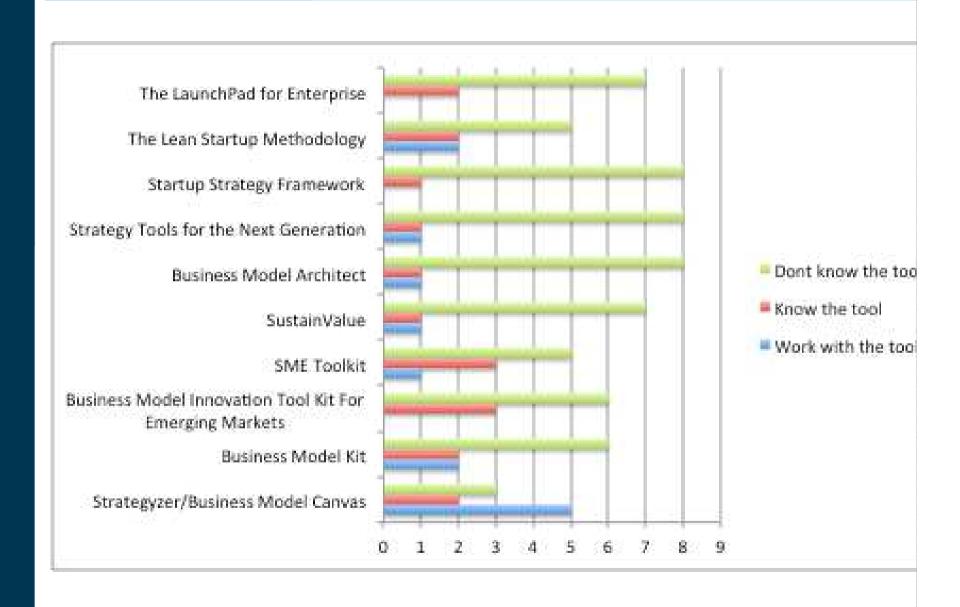
- Technology providers for the wastewater treatment management plants
- Developers of research on new technologies for the water sector in general
- Providers of consultancy services, which included feasibility studies, capacity building, project development and project management of water projects.

Concerning main customers of the sector: Some of the main customers that are more common for the companies analyzed are the following:

- Public administration and private companies
- Utility companies, wastewater treatment plant owners and operators (public & private)
- Water Engineering Firms, Industrial Wastewater Producers
- Innovation providers and demanders
- Products/services for different industries (aviation, mining, energy, infrastructure, etc.)



Main tools used by companies



Content Manual Proposed

Content of the Manual proposed for the Toolkit:

- Manual Content What to find on the platform
 - General description of the structure Phases, Development Categories and Tools
 - Detailed description of each phase with categories and tools
 - Phase I Identification
 - Phase II Design and Incubation
 - Phase III Life Cycle Management Process
 - Phase IV Post User
 - Different applications proposed and recommendations on how to use the manual

Preliminary Tool Production Matrix

<u>I IDENTIFICATION</u>	II DESIGN AND INCUBATION	III LIFE CYCLE MANAGEMENT PROCESS	<u>IV POST USER</u>
Product/service identification, its market and demand	Product/service development (business plan road map)	Business Management	Monitoring and development
a. Identification of demands	a. Access to financing	a. Supply chain management	a. Evaluation of resul and return on investment
b. Definition of the product or service	b. Design of the product or service	b. Eco-efficiency	b. Continuous improvements, re- orientation and modification
c. Customer Demand Planning	c. Business Model Governance Structure	c. Project Management Systems	c. Recycling Re-use and elimination strategy
d. Customer Development	d. Business Plan Development	d. Distribution	d. Replication and Uj scaling
e. Feasibility Study			

Moodle Online Knowledge Platform



DOCUMENTATION DOWNLOADS DEMO TRACKER DEVELOPMENT TRANSLATION MOODLE, NET Q





Español - Internacional (es)

Usted no se ha identificado. (Entrar)

Impulsado por la comunidad, soportado globalmente.

Bienvenido a la comunidad Moodle Descubra el valor de un esfuerzo abierto colaborativo por uno de los equipos de código abierto más grandes del mundo.

FOROS DE LA COMUNIDAD







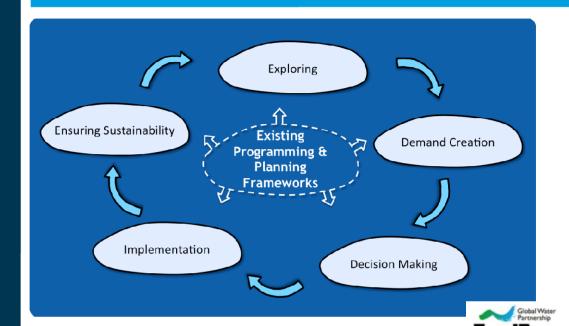
Sólida plataforma de aprendizaje de código abierto



Impulsando ambientes de aprendizaje en todo el mundo



Tool Development Framework





PRESS ROOM. CONTACT US

+ GWP Regional Websites

ABOUT TOOLS CASE STUDIES CRITICAL CHALLENGES PUBLICATIONS

+ The Enabling Environment (A)
+ Institutional Roles (B)
+ Management Instruments (C)

Enabling environment
Institutional
roles

Management
instruments

MA

Knowledge Centers IWRM in Education

To build a closer working relationship on knowledge



What is IWRM? IWRM Principles, Plans and Strategies Share: If 📓 🗑

Perspectives Paper Urban Groundwater -Policies and Institutions for Integrated



New GWP Policy Briefs on Urban, Transboundary, and Economic Water Issues

Latest Case Studies

Brazil: Integrated environmental assessment of agricultural production systems in the Toledo River Basin (# 441)

Pakistan: A Successful Model of the Urban Water Partnership in Karachi

Uruguay: Capacity building for climate disaster risk management at local level in Pantanoso watershed in Montevideo (#439)

Armenia: Local solutions for waste water management in Armenia village (#438)

Argentina: Drinking water supply system for rural population of Eastern Tucuman (#437)

How to contribute

You can submit case studies and references to this site.

Contribute to the IWRM Toolsox



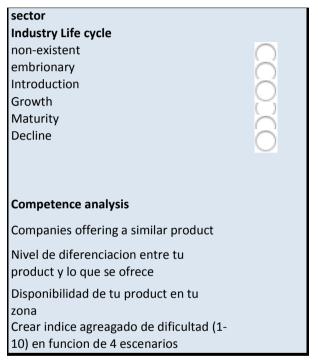
Tool 1 – Area priorization

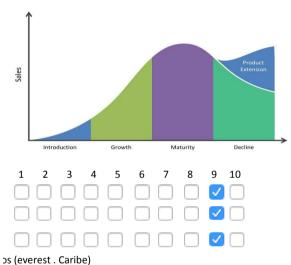
1	Do you have a Business Idea you want to implement	Yes No				
2	2 What are the business areas more relevant for you?					
	Economic turnover (growth) Profit Employee engagement Product quality Sustainability Other:	☐ Corporate Reputation ☐ Productivity ☐ Customer service ☐ Marketing ☐ Change Management				
3	B Define the social challenge you are targe	tting				
	Climate Change	Social inclusion				
	Poverty Erradication	Security				
	Water Access	Gender equality				
	Energy Access	☐ Health				
	Education	Human Rights				
	Other:					
4	Prioritize your selected areas/choice	es?				
l 1	Selección de las tres primeras					
2	•	Numerico o binario				
3						
	Social Challenges					
1	Selección de las tres primeras					
2	•	Numerico o binario				
3						

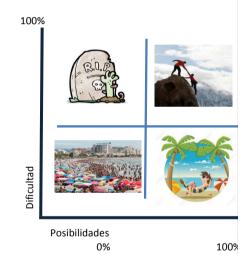
Tool 2 – Idea Selection

Write down 5 ideas that contribute to enhance your economic drivers	2. Write down 5 ideas that contribute to enhance your soci challenges	ial
Idea 1	Idea 6	
Idea 2	Idea 7	
Idea 3	Idea 8	
Idea 4	Idea 9	
Idea 5	idea10	
3. Idea prioritization model		
Idea/Name and Description	Potential impact to economic drivers	
Lilon d	ED1 ED2 ED	03
Idea 1		
Idea 2 Idea 3		
Idea 3 Idea 4		(1)
Idea 5		
Idea 6		
Idea 7		
Idea 8		1
Idea 9		5
Idea 10		
Idea/Name and Description	Potential impact to social challenges	
Idea 4	SC1 SC2 SC	23
Idea 1 Idea 2		
Idea 3		
Idea 4		(K)
Idea 5		
Idea 6		分
Idea 7		5
Idea 8		
Idea 9) (O
Idea 10		
Results:		
2) The three ideas with biggest impact on SC		
3) Ponderation approach		
4) Make your selection according to one of the		
Economic Drivers and Social Challenges		

Tool 3 – Product/Service viability







Thank You



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