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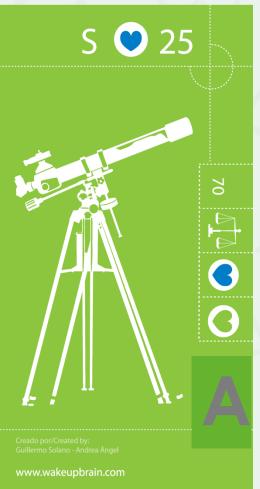


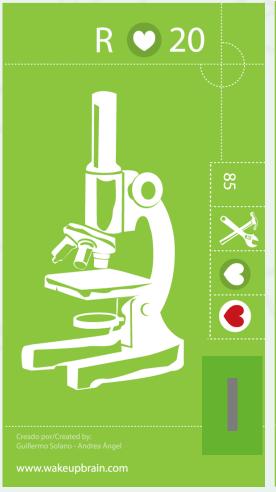


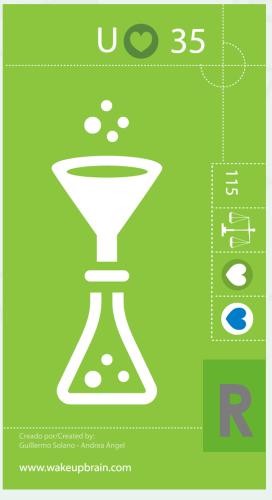












ECO-ENTREPRENEURSHIP: Steering the world towards **F.A.I.R 2** future















- Innovation and new ways to create powerful things from 2015
- 60 cities in Colombia to promote social innovation in rural communities
- Colombia, South Africa, Japan, Austria
- B.A Finance and International Trade
- Dissertating a M.Sc. in Sustainable Development
- Research lines: Innovation management, Circular Economy, Tripple Bottom Line, Agile and Lean
- Leader of the Eco-Innovation LAB WakeUpBrain in Austria new!
- in www.linkedin.com/in/dicaromonroy/





Introduction

- What is eco-entrepreneurship
- The importance of sustainability in business
- Two global examples related to sustainability
- Challenges and opportunities
- Tips and Best practices
- F.A.I.R Provide framework and some tips on how to get started
- Play a bit with the framework
- Wrap It Up! SBM Canvas
- Conclusion





What is eco entrepreneurship?

- Eco entrepreneurship is the practice of starting and running a business with the goal of creating positive environmental and social impact
- It involves identifying and solving environmental and social problems through innovation and entrepreneurship
- Start businesses that produce ecofriendly products/services, use sustainable production methods, and minimize their environmental footprint or amplify positive impacts







The importance of sustainability in business

Environmental: Businesses that are not environmentally sustainable may contribute to climate change, pollution, and other environmental problems

Social: Unsustainable business practices can have negative impacts on communities, such as displacement, loss of natural resources, and social inequality

Economic: Sustainability can help businesses save money by reducing waste and increasing efficiency

Sustainable and Unsustainable Practices from around the Globe





examples that has been connected to ECO-friendly:



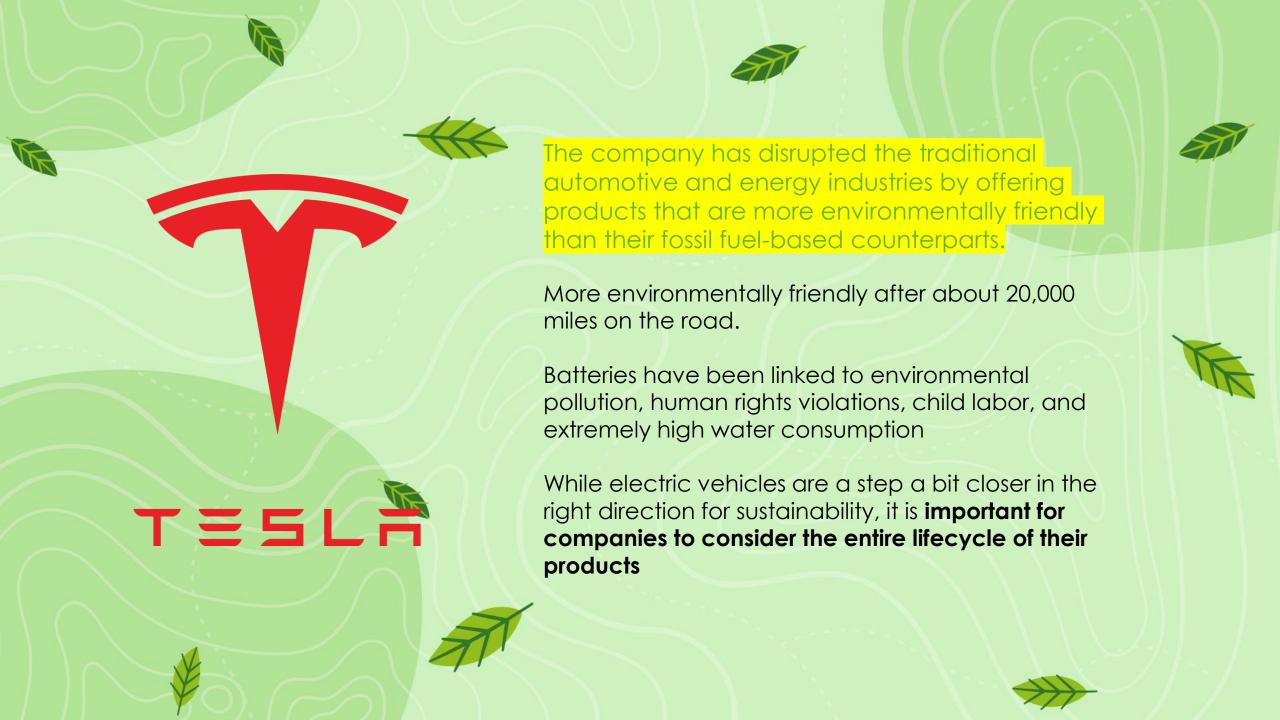






- 100% renewable sources energy in US and 76% globally.
- Recycled fibers that reduce emissions by as much as 80% vs virgin fibers
- Denim is dyed using Advanced Denim technology, which uses 50% less electricity emitting 25% less CO2 into the environment

While no company is perfect, from what we can tell whenever Patagonia's supply chain has been pointed at for poor practices their response was to make the required change.





Challenges of starting an ecofriendly business

Lack of access to funding and capital (private): Ecoentrepreneurs often face difficulty in securing funding from traditional sources such as banks and venture capitalists, due to the perceived high risk and lack of understanding of their business models.

Difficulty in scaling and commercializing: Ecoentrepreneurs may have a hard time scaling their businesses and commercializing their products or services, due to a lack of a ECO-Friendly infrastructure in the market

Regulatory and policy challenges: Ecoentrepreneurs may face challenges related to government regulations and policies, as well as navigating complex and constantly changing environmental laws.





 Growing consumer demand for sustainable products and services: As awareness of environmental issues continues to rise, consumers are increasingly looking for products and services that are environmentally friendly and sustainable.

Government incentives and funding: Governments around the world are recognizing the importance of environmental sustainability and are offering various incentives and funding opportunities to support ecoentrepreneurship.

Collaboration and partnerships: Eco-entrepreneurship
often requires collaboration and partnerships with other
businesses, organizations and individuals to develop and
bring sustainable products and services to market.

Sectors of huge opportunity





Renewable energy



Organic farming

Eco-tourism

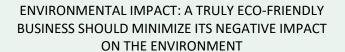


Green building











SOCIAL RESPONSIBILITY: ECO ENTREPRENEURSHIP ISN'T JUST ABOUT THE ENVIRONMENT - IT'S ALSO ABOUT BEING SOCIALLY RESPONSIBLE



PROFITABILITY: IT'S IMPORTANT TO REMEMBER
THAT ECO ENTREPRENEURSHIP IS STILL ABOUT
RUNNING A SUCCESSFUL BUSINESS





TIPS AND Best practices in eco-entrepreneurship



Conducting a thorough environmental AND social assessment

Sustainable practices and intentional circularity from early states on the value chain.

Staying informed about environmental regulations and industry trends

communicating your commitment to sustainability to build trust and loyalty.



Monitoring and evaluating your business operations

Collaborating with other firms (whole system)

Continuously learning about the latest developments

Building a strong **ethical** and **value-driven** culture

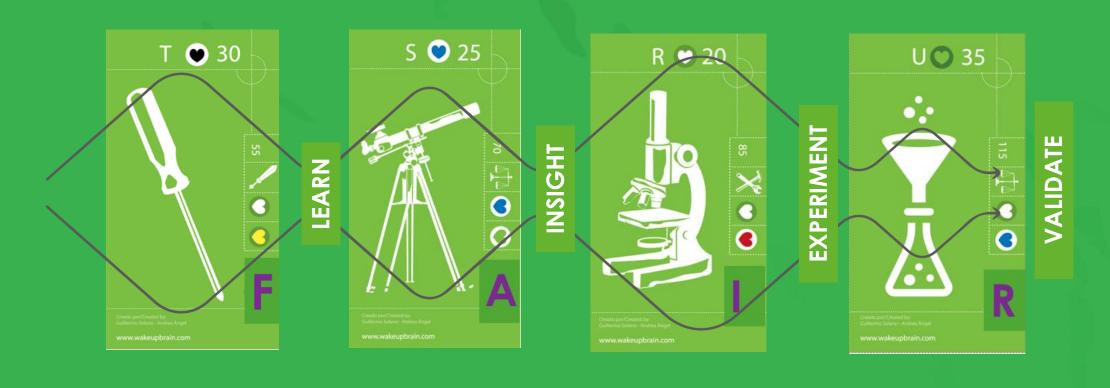


Supporting and participating in sustainable initiatives

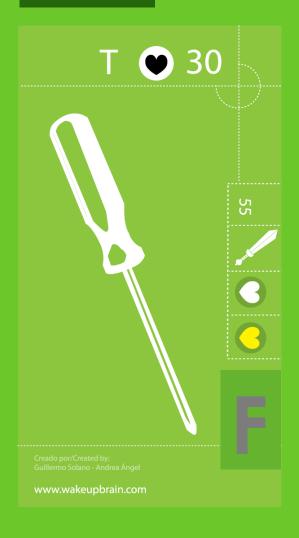
Consider the triple bottom line of people, planet, and profit.



F.A.I.R² ECO-ENTREPREURSHIP



Formulate a Frame





Define what you want to achieve with your entrepreneurial venture, whether it's a specific product or service, a certain market or customer base, or a specific environmental impact or social cause.

SUSTAINABLE GALS DEVELOPMENT GALS



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND























Formulate a Frame





PURPOSE

The SDG Industry Matrix aims to inspire and inform greater private sector action to drive inclusive, sustainable prosperity.

B

OPPORTUNITY

Through the lens of "share value" the private sector of identify opportunity in addressing social and environmental challenges.



SDG INDUSTRY MATRIX



New Sustainable Development Goals

Produced jointly by



KPMG



- ☐ Financial Services (English)
- Food, Beverage & Consumer Goods (English)
- ☐ Climate Extract (English)
- ☐ Healthcare & Life Sciences (English)
- Industrial Manufacturing (English)
- ☐ Transportation (English)
- ☐ Energy, Natural Resources, Chemicals (English)

C

METHODOLOGY

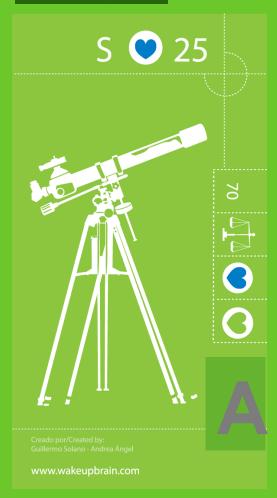
The SDG Industry Matrix has been compiled through a participatory three step process:

n

SYNERGIES

The SDG Industry Matrix draws on the commitment that companies have already expressed to the UN Global Compact's ten principles.

Amplify Your Analysis





Activities

What do members do? what are the activities?





Roles

What are the roles of the members?



Ecosystems

What is the ecosystem you are building?



Value Model

What are the exchanges and value model?



Identity

Why does the ecosystem exist? What is the story?





Amplify your Analysis



Ecosystem mapping is an important tool for identifying and connecting the innovation and entrepreneurial assets in a community, and for identifying and addressing any obstacles or limitations to the growth and development of the ecosystem



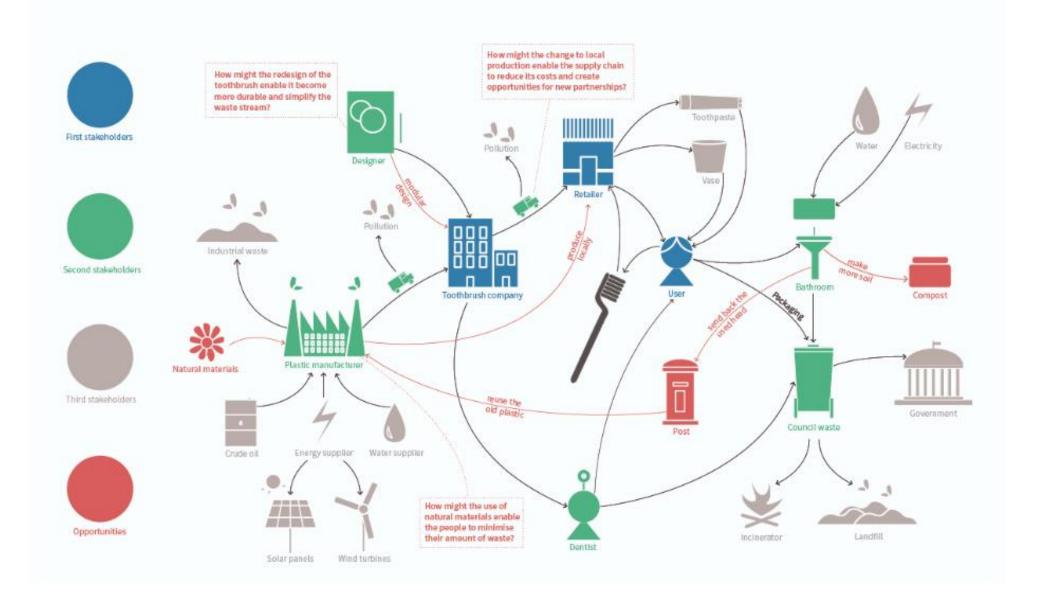
As an ecosystem builder, it's crucial to regularly refer back to your mapping and use it as a reference when proposing ideas



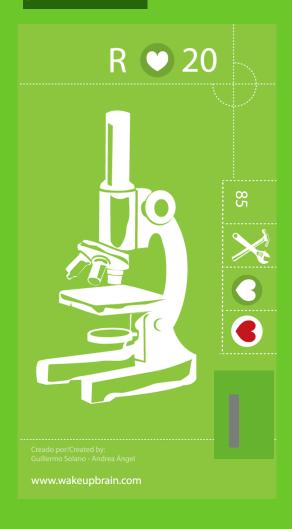
To get started with ecosystem mapping, you should first define the ecosystem you are working on and identify the key actors with the necessary capabilities to help it thrive

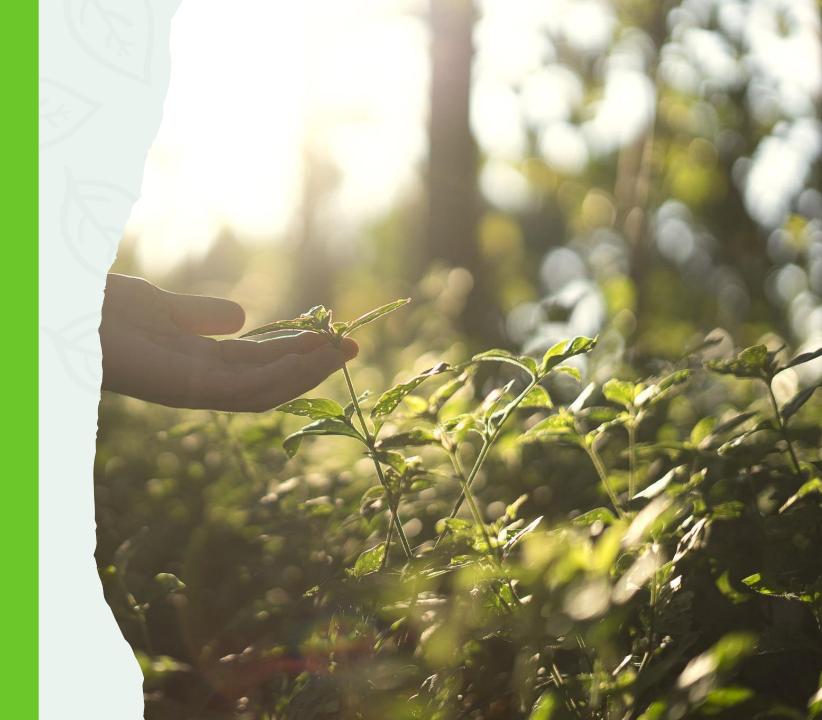
Toothbrush

by Ambra Dentella, Joseph Rouse and Kenneth Arnold



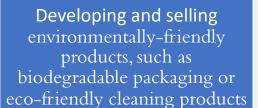
INSTIGATE WITH IDEAS





Instigate with Ideas

- Ideas can be formed by combining existing knowledge, experiences, and observations. They can also be the result of creative thinking or imagination.
- Ideas can be simple or complex, and they can be used to explain or understand the world around us, to solve problems, to create new things, or to inspire action.



Providing consulting or advisory services to help businesses reduce their carbon footprint and adopt sustainable practices

Starting a business that focuses on the conservation or restoration of natural resources, such as forests, rivers, or wetlands

Developing and selling renewable energy technology, such as solar panels or wind turbines

Business that helps individuals and organizations recycle and compost waste

Sustainable transportation options, such as electric or hybrid vehicles





BIOMIMICRY

thinking process:

From Biology to Desing: Finding inspiration in Nature and apply to a design space



From Challenge to Biology, where you go out and look for a specific biology to a very specific need



Biomimicry Institute:

1.700 strategies of living things that can serve as inspiration for human innovation.



EXAMPLE FOR INSIDES-OUT

 Take apart an everyday product to build empathy and understanding around the implications of disassembly and recovery of materials and parts



 Digital Systems: As more and more software developers use an agile process, digital systems are designed inherently to evolve, scale, be feedback-rich, and iterate characteristics that are circular by nature





TEN TYPES OF INNOVATION

THE DISCIPLINE OF BUILDING BREAKTHROUGHS



Analyze the Marketplace

Look at trends, drivers, and current dynamics in the marketplace according to the 10 Types of Innovation.



Identify overall Opportunities

Analyze the Competition

Look at strength & weaknesses of main competitors according to the 10 Types of Innovation.



Strength Weak-ness

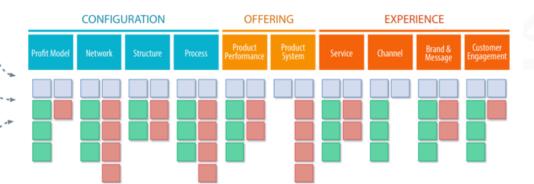


Analyze SDL

Look at our own strength & weaknesses according to the 10 Types of Innovation.

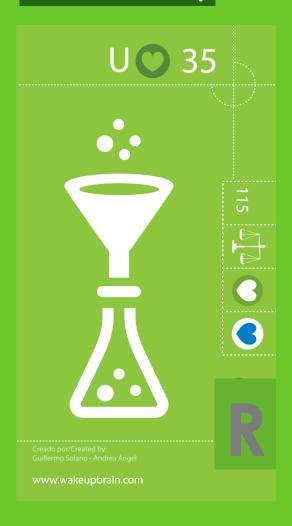






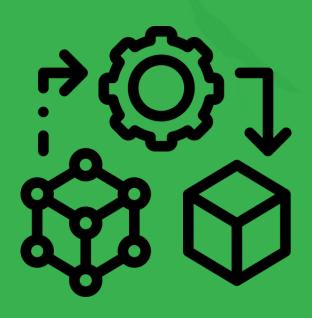


Release and Recovery





Release and Recovery

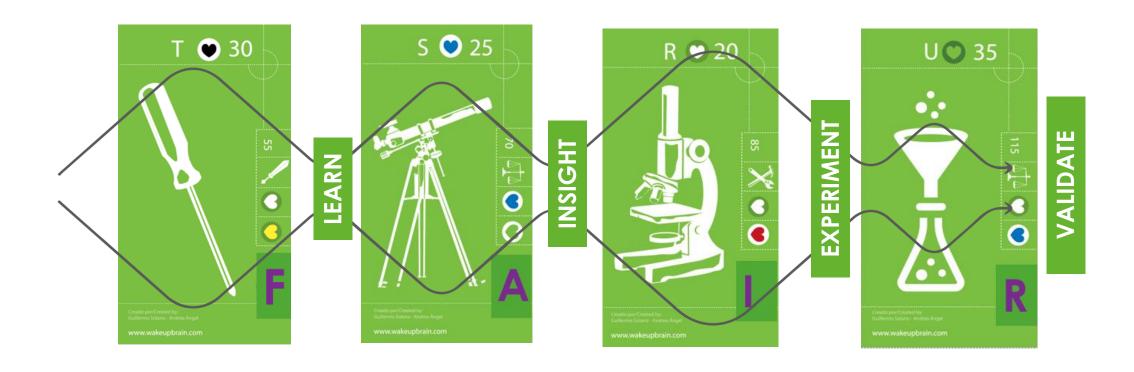


We can gather valuable feedback and make adjustments to make sure our solution is practical, works well and is economically viable. This step is important for **creating a sustainable business model** that makes a positive impact on society and the environment

We want to prototype the following things:

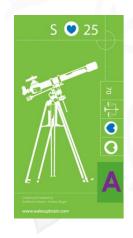
- The solution itself, like a new type of packaging.
- The value proposition, which means the benefits our solution provides to different stakeholders.
- The business model, how we plan to make money and pay for our solution.
- The implementation plan, the steps and resources needed to bring our solution to market.
- The monitoring and evaluation plan, how we measure the impact of our solution and improve it over time.

F.A.I.R ECO-ENTREPREURSHIP



BRAINSTORMING

Instigate with ideas!



INSIGHTS

- Services that supply an easy and fast ways to prepare meals
- New packing material that biodegrade faster but allow the packings industry to satisfy the diverse demand of their products (size, functionality, resistance)
- Local initiatives to support the preparation of home-cooked meals. No needed for singleuse packing since it will return to the next service.



WHAT ARE SOME CREATIVE IDEAS FOR DESIGNING SINGLE-USE PLASTIC PACKAGING FOR READY MEALS THAT NOT ONLY PROTECT THE FOOD BUT ALSO REDUCE ENVIRONMENTAL IMPACT?













- Ready meals are packaged in plastic containers at the manufacturer, then transported in plastic pallets, and finally distributed to retailers in plastic wrapping.
- Cost of sustainable packaging solutions is higher than the cost of traditional packaging, so the ready meals manufacturers are not willing to pay more for sustainable packaging.
- Retailers are using plastic packaging for ready meals as it's cheap and it helps to keep the food fresh for a longer period.
- **80% of the packaging used for ready meals** ends up in **landfills** and only 20% is recycled.





ECOVATIVE: GROWING SUSTAINABLE PRODUCTS FROM MUSHROOM MYCELIUM TO SAVE THE PLANET

Design were inspired by the way mushrooms growing on wood chips bonded them together with their roots.

"We're using mushrooms to create an entirely new class of materials which perform a lot like plastic." Ecovative



PROTOTYPING



Summary of potential CE business model elements to consider



Key Partners



Circular materials supplier: Supplier of circular materials

Reverse logistics: Provided by a third party?

Technology: Partners providing key technologies.

Product design: Design-for-"X" (repair, maintenance; disassembly: remanufacturing: recyclability; material substitution;etc.)

Reverse logistics: Executed inhouse by organisation?

Service provision: Provision of 'product-as-service'; and/or valueadded services (e.g. preventative maintenance, asset diagnostics etc.)

Key Resources

Asset management platform: Booking, paying, tracking assets.

Specialised production process: Specialised processes and facilities (e.g. remanufacturing; 3D manufacturing; etc.)

Assets: Assets or product stock available to provide as a service. Lower (lifetime) cost: Lower cost of product, or reduced lifetime cost of ownership to an end-user.

Performance: Provides outcome and level of performance corresponding to a customer's 'jobto-be-done' (e.g. equipment up-time output; etc.). Includes productservice system models.

Access: Convenience of ondemand availability; flexibility; and greater range of choice. Models include: Pay-as-you-go; rental;

Sustainability: Provides a sustainability-related outcome that i valued by the customer (environmental, social, etc.).

Co-value: Value provided to a 'vertical customer' outside of the main value chain.

Customer Relationships

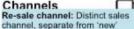


Long-term or recurring? Such as a subscription, part of a long term relationship service, etc.

Transactional? Single sale, oneoff transaction.

Channels

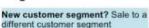
product sales



Return channel: Collection or return channel for product at end of life.

Secondary material market: Markets for sale of recovered materials (co-products; scrap; recycled, etc.)

Customer Segments



Vertical customer? Customer outside of main product value chain

Cost Structure



Labour: Labour cost (increase or reduction?)

Materials: Materials costs (increase or reduction?)

Waste Disposal: Cost of disposing waste outputs

(increase or

decrease?)

Financial Incentive: To incentivise take-back or return of product.

Financing cost: Cost of customer financing (e.g. for leasing solutions)

Revenue Streams



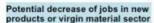
Product sale revenue: Sale of product, component, or material (customer-owned)

Bundled product-service sale revenue: Sale of product and service bundle (customer-owned)

Service sale revenue: Sale of service only (no ownership)

Waste-as-value: Revenue stream from waste or co-product being used instead of disposed

Social and environmental



Potential increase of environmental impacts due to additional transport between value chains



Reduced waste to landfill. Reduced waste to incineration.

Due to lower item cost, access offered on an ad-hoc basis to users unable to afford purchase of asset.

Increase of jobs in circular materials/ repair and refurbishment/ service/ recovery and recycling sector.

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Adapted by R2Pi



The project has received funding from the European Linco's Horson 2022 research and innevation programme under grant agreement No. 790976

Conclusion

Tomorrow's business can no longer operate under the same principles as yesterday's. It not only needs to create economic value, it needs to do so by working with society and within social/planetary boundaries

Whether you're interested in fashion, energy, agriculture, tourism, or something else entirely, there are countless opportunities to make a difference and build a successful business

