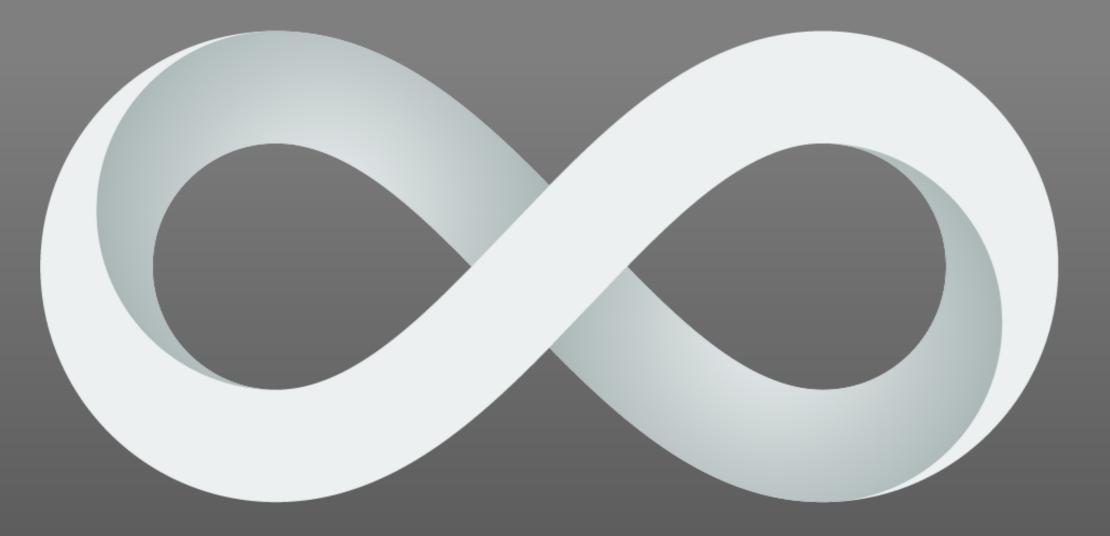


Creating Customer Experiences in a Circular Economy Toolkit



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Introduction

The Customer Experience (CX) and Circular Economy (CE) toolkit is a set of practical considerations, tools, templates and examples designed to assist businesses with engaging customers in circular product and service adoption.

This practical guide fills an important gap in existing CX/CE practice as it presents a cutting-edge view on how to leverage best practices from the CX and behavioural science methodologies to improve your circular business model (CBM) initiatives.

In particular, it will help you in:

- Exploring circular value
- Designing circular products and services
- Delivering circular value.

Who is it for?

This CX/CE toolkit is for any business that is committed to creating a less resource intense and wasteful world where customers are able to participate in circular practices. Whether you are at the start of your CE journey or have already launched circular initiatives, whether you have a background in Sales, Sustainability, CX or Design, this toolkit is there to help you and your teams along your circular journeys.

Research overview

This CX/CE toolkit is based on the findings of a 12-month joint piece of research led by Clarasys and Exeter's Centre for Circular Economy.

The research was developed based on our initial <u>gap assessment report</u> on existing CX/CE literature that revealed a gap in supporting knowledge, theory and tools and how to engage customers in circular business models. In order to make the research outputs relevant and applicable, the research engagement was shaped around a group of multisector large and small organisations all committed to offering circular value propositions to their customers.

Need a refresher on Circular Economy and Customer Experience? Read our research brochure: <u>Engaging Customers in a Circular Economy</u>



Your feedback is really important to help us shape the toolkit's ongoing development. Please complete our short <u>feedback form</u> or get in touch directly.





Our circular innovation headlines

Our research showed that in order for businesses to successfully design, launch and scale circular business models more focus had to be placed on articulating the value of your CBMs to your customer, supporting customers to adopt the new circular behaviours, and enhancing your business delivery capabilities to test, learn and adapt your CBMs

Exploring circular value

Key findings

Circular business models are being built "inside out" resulting in a lack of customer focus. Where considered, the value proposition is tailored to customers that would be early and easy adopters, neglecting the broader customer base.

- CBM business cases tend to be siloed and incomplete impacting investment decisions
- Insufficient focus is being placed on understanding the value proposition behind the CBMs in the eyes of the customer
- A deeper understanding of the the drivers behind customer behaviours is required to enable customers to adopt circular products and services.

Our recommendations

Be intentional about the circular value proposition to your customer from the outset

- Articulate your circular motivations
- Explore the value of CBMs to your customers
- Define your circular innovation business scorecard
- Re-imagine your customer journey
- Define your existing and target customer profiles
- Conduct circular business model user research.

Designing circular products and services

Key findings

Many circular business models are failing because customers are not fulfilling the new roles and behaviours required of them in these systems. Organisations are narrowly focused on communicating the importance of sustainability to their customers and are not considering the other behavioural levers they can pull to drive circular product adoption.

- Circular business models require customers to take on new roles and behaviours
- Sustainability is rarely a powerful enough motivational driver to enable target circular behaviours
- Excellent customer experience can be a powerful catalyst of circular product adoption.

Our recommendations

Design for the circular behavioural change needed from your customer

- Build circular journey design framework
- Identify behaviour change pain points
- Prioritise behaviour change pain points
- Identify behaviour change interventions
- Prioritise behaviour change interventions
- Identify circular stakeholder jobs.

Delivering circular value

Key findings

Much of the innovation in circular business models is small scale and securing investment to scale can be a challenge. Innovators aren't obtaining satisfactory measurement to track success of these "value retaining models" to supply the relevant evidence for investment.

- The breadth of ambition for circular initiatives can't be oversimplified
- Getting organisational commitment is hard
- Current measurement approaches aren't effectively substantiating pilot hypotheses
- Transitioning to BAU (e.g. systems, R&Rs) is an afterthought.

Our recommendations

Evolve expectations and methods of evaluating pilot success of a circular vs a linear business model

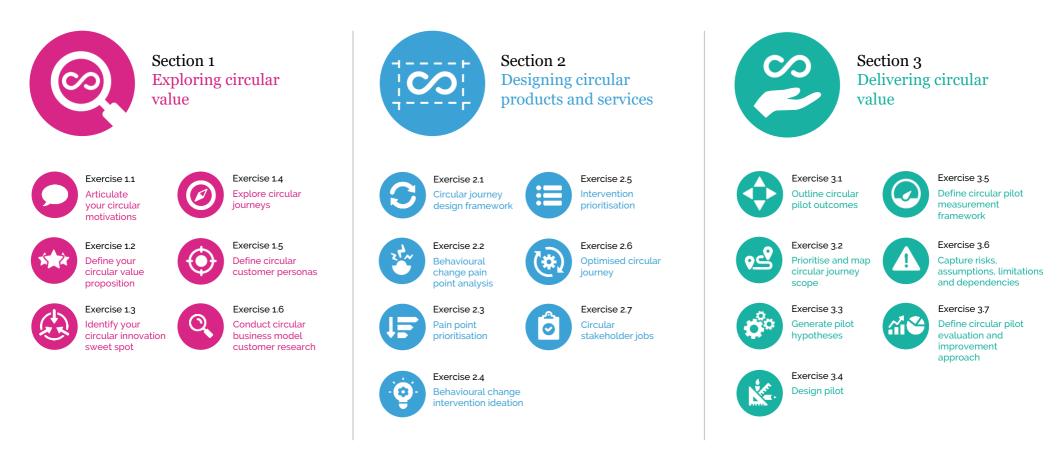
- Define Circular Pilot Measurement Framework
- Capture risks, assumptions, limitations and dependencies
- Define Circular Pilot Evaluation & Improvement Approach
- Design Pilot
- Outline Circular Pilot Outcomes
- Prioritise and Map circular journey scope
- Generate Pilot Hypotheses.





How to navigate the toolkit

This is the navigation homepage. Click an icon below to go to the section or tool of your choice. You can return to this page at any time by clicking the Home icon which can be found in the footer on each page.







A story to bring the toolkit to life

We have included an end-to-end example throughout the toolkit in order to bring the activities, outputs and outcomes to life

Toolkit example

Throughout the toolkit we will be putting ourselves in the shoes of Sarah, the head of commercial propositions for an established brewing company.

She understands the importance and opportunity for organisations to take a leading role in the transition to a circular economy and wants to see whether she can work with her organisation and her retail partners to take a circular proposition to market.



Section 1 Exploring circular value

Sarah is at the start of her circular journey and wants to explore the circular opportunity and understand the value it could add to customers and to her business.



Section 2 Designing circular value

Sarah wants to optimise her customers' circular journey to maximise circular product adoption and drive circular behaviour change.



Section 3 Delivering circular value

Sarah has designed a circular business model and now wants to pilot this to test whether the solution will work in a real context to justify scaling or implementing it. She needs help in effectively scoping the CBM pilot to mirror her organisation at scale.





Exploring circular value

The aim of this section is to jumpstart your circular journey by taking a customer led approach to exploring your CE ambitions and your circular value proposition.

For more information or to speak to one of our team, please contact us at sustainability@clarasys.com

Our research findings

Circular business models (CBMs) have the additional complexity that beyond being attractive for customers and profitable for the business, they are defined by their positive environmental impact.

Organisations should not forget that in order to achieve their desired environmental impact, the value proposition still needs to create gains or remove pains for customers and that the customer needs to be central to their design.

Our research showed an important reason that many organisations are struggling or failing to launch successful CBMs at scale is because:

- They were built "inside out" with a strong focus on hitting sustainability targets, preparing for shifting legislation or trying to streamline operations. And while these are all good reasons to invest in circular initiatives, the lack of customer focus will impact their likelihood of success at scale
- When customers were considered, the value proposition was largely tailored to customers that would be early and easy adopters based on their sustainability values alignment rather than being designed to offer value to the broader customer base

Our recommendation

Spend time upfront understanding the needs and expectations of your B2C or B2B customers, and conducting some additional research on their perceptions of circular experience factors associated with CBMs such ownership, hygiene/ contamination, circular skills and capabilities etc. This will ensure you establish a CE vision and Value Proposition that has the real potential to achieve impact at scale.





Exploring circular value





Articulate your circular motivations

Exercise 1.1

Exercise 1.2 Define your

circular value

proposition



Exercise 1.3

Identify your circular innovation sweet spot



Exercise 1.4 Explore circular journeys



Exercise 1.5

Define circular customer personas



Exercise 1.6

Conduct circular business model customer research





Articulate your circular motivations

Guidance | Template | Example



Exercise 1.1

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Articulate your circular motivations

Outcome: Explore the motivations behind kickstarting your circular ambitions to establish a comprehensive view of the benefits of creating circular business models.

CLARASYS

Guidance

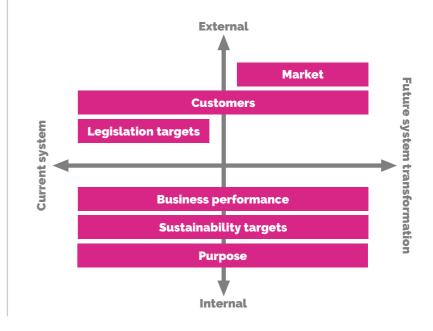
- Fill in the motivation table below to capture a holistic view of your motivations
- 1. Focus on finding a balance across
 - a. revenue and cost opportunities
 - b. horizons 1 (existing market), 2 (emerging market) and 3 (new market)
- 1. Vote on your top opportunities to inform your research and design efforts (make sure you have highlighted at least one customer motivation)
- 1. Capture a high-level customer centric vision of your circular value proposition in a press release format. Consider highlighting in the story how this proposition will offer value to customers, employees, your business and the planet. This will be your initial guardrails as you continue exploring circular value

Top tips

Consider both the value of engaging with circular initiatives as well as the cost of delay or cost of not engaging

Consider articulating the business case across three horizons where:

- **Horizon 1** ideas provide continuous innovation to a company's existing business model and core capabilities in the short-term.
- Horizon 2 ideas extend a company's existing business model and core capabilities to new customers, markets, or targets.
- **Horizon 3** is the creation of new capabilities and new business to take advantage of or respond to disruptive opportunities or to counter disruption.





Articulate your circular motivations

Guidance | Template | Example

Motivation Category	Current system	Future system transformation
Purpose	 How important is sustainability to your purpose and mission? How might CBMs allow you to bring that purpose to life and demonstrate your commitments to your customers? How important is sustainability to your people? How might CBMs create new learning and development opportunities for your people? 	
Sustainability targets	• How might CBMs allow you to deliver on your sustainability targets? How might they allow you allow you to reduce waste or carbon emissions?	• What are your long term sustainability or circularity goals?
Business performance	 How might CBMs improve your resource efficiency? How might CBMs allow you to improve inefficient processes ? 	 How might CBMs enable you to improve the resilience of your supply chains? How might CBMs drive new sources of revenue? How might CBMs allow you to improve your bottom line?
Legislation targets	 How might existing or upcoming legislation impact the way you serve your customers? 	
Customers	 How important are sustainable value propositions to your existing and target customers today? How much demand for sustainable value propositions have you captured? What trends are you seeing on the importance of sustainable value propositions to your existing and target customers? How can circular business models enable you to deliver a better CX? 	 How can circular business models enable you to deliver a better CX? Can a circular business model offer your customers price, quality or convenience advantages? How valuable would be the data you collect from returning customers? Would it allow you to offer more value through better personalized experiences?
Market	What kinds of CBMs are currently being implemented within your sector? Are these succeeding or failing?	 What are the market trends and projections that are associated with circular opportunities? Would implementing CBM allow you to consolidate and improve your market position? Would implementing CMBs help you to enter new markets? Would exploring CBMs allow you to strengthen your relationship with your business partners (e.g. suppliers)? How could your product have value in a secondary market? What products or categories in your business are ideal candidates for resale and/or service vs. ownership models?





Articulate your circular motivations

Guidance | Template | Example

Motivation Category	Current system	Future system transformation	Commentary
Purpose	 Being environmental is central to mission of the company Important value for employees 		Start with the circular motivation category that has the most business focus to get the ball rolling
Sustainability targets	 Net Zero 2025 target Packaging waste reduction targets 	Increase resilience in saturated market	Work with a multidisciplinary group of stakeholders from across the business to articulate your sustainability and business performance
Business performance		 Lower cost of sale Reduced manufacturing costs Increase CLV Improved revenue forecasting 	opportunities and circular ambitions Work with your external insight and legal teams to
Legislation targets	Single use plastics legislation	Deposit return schemes legislation likely to be introduced in future	understand the wider legislative context and market trends Leverage existing customer insight from customer data
Customers	 Captured sustainability demand from certain businesses and customers Customers saying they want to see the steps businesses are taking to improve their impact 	 Growing base of eco conscious customers Lower price point for customers Develop closer relationship with B2C customers Personalised customer offers 	and frontline teams and reach out to a few customers to ensure you can clearly articulate an initial view of the value of
Market	Number of competitors exploring CBMs	 Refillable packaging Catering business segment opp Improved relationship with distributors 	circular propositions in the eyes of your customers





Define your circular value proposition

Guidance | Template | Example



Exercise 1.2

Define your circular value proposition

Outcome: Explore circular business models from a customer centric perspective and articulate how circular business models can enhance your CX and add value to your customers.

Guidance

1. Customer profile

- Using existing knowledge and data, populate your customer profile(s). Make sure to highlight a spread of functional, emotional and social jobs, and their associated gains and pains
- Vote and prioritise for most important jobs, pain pains and gains

2. Value proposition instructions

- Select the circular business model(s) and 6Rs that could be most relevant to your value proposition. If you are not sure which ones are the most relevant... play around with all of them to spark some new thinking!
- Explore the gain creators and pain relievers they would generate value for your customers
- Reflect on whether these would also create certain "pains" for the customers
- Categorise creators against a Kano matrix to differentiate delighter, performers and must haves
- 3. Explore value proposition for the wider system (optional)

Circular Value Proposition Question Bank

Ask yourself: how might this circular product or service help your customer? For example, does it help customers:

- save money by accessing used or refurbished products?
 extend product lifespan and thus avoid the hassle of another purchase?
- access premium products and services that they otherwise could not afford to buy?
- ease their eco-guilt?
- use a product occasionally that they can't afford to own or don't have the space to own?
- look ahead of the curve by participating in something new?
- bring their values to life by accessing new opportunities to have a positive impact on the planet?

Top tips

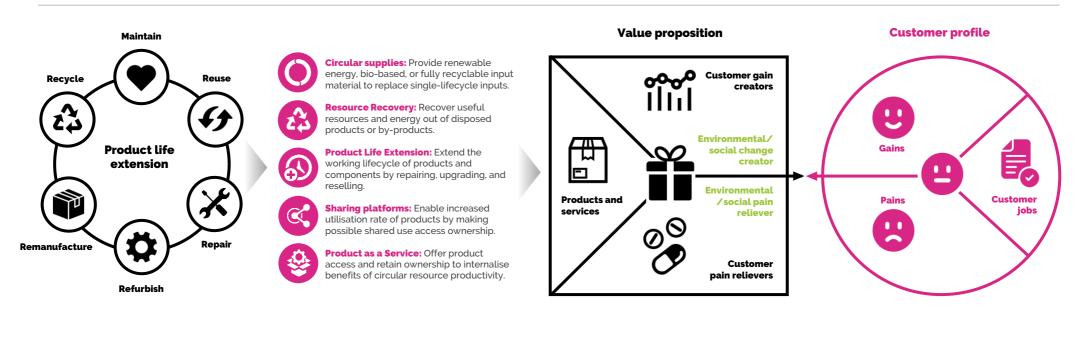
- For additional value proposition guidance check out:
 - Value proposition design¹
- Designing circular business models canvas²
- Find circular opportunities³
- The table below Circular business model overview⁴ – showcases industries and business model subtypes for each CBM

	Circular supply	Resource recovery	Product life extension	Sharing	Product service system
Key characteristic	Replace traditional material inputs with renewable, bio-based, recovered ones	Produce secondary raw materials from waste	Extend product lives	Increase utilisation of existing products and assets	Provision of services rather than products. Product ownership remains with supplier
Resource efficiency driver	Close material loops	Close material loops	Slow material loops	Narrow resource flows	Narrow resource flows
odel ypes	Cradle to cradle			Product- oriented	
Business model sub-types		Recycling	Direct reuse	Co-access	User- oriented
Busin		Upcycling	Repair		Result- oriented
		Down- cycling	Refurbish- ment		
			Remanu- facture		
arity	Main sectors currently	Diverse consumer product	Metals	Auto- motive	Short term lodging
Circularity	applied in sectors		Paper and pulp	Heavy machinery	Transport
			Plastics	Electronics	Machinery
					Consumer products



Define your circular value proposition

Guidance | Template | Example



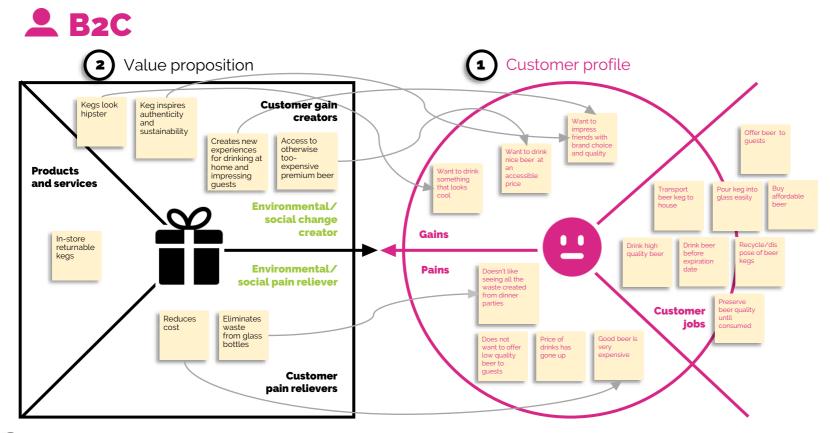
Customer profile	Value proposition description	Customer desirability assumptions				
				Customer pain relievers	:	Customer gain creators
			_			
			Environmental/ social pain reliever	Ċ		
				1	Environmental/ social change	
				ł	creator	



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Define your circular value proposition

Guidance | Template | Example



3	Customer profile	Value proposition description	Customer desirability assumptions
	Pain - Doesn't like seeing all the waste created from dinner parties	Enables access to product in a way that also has a positive impact on environment	Customers are interested in having a positive environmental impact and are comfortable with owning additional circular steps and associated behaviours
	Gain - Wants to drink nice beer at an accessible price	Access to otherwise too expensive premium beer	Customers have the perception the beer kegs are a premium product and have the trust and capabilities to serve the drink in order to have a nice experience

Commentary

1

2

3

Start by creating a customer profile

1. Identify customer jobs, the set of tasks your customers are trying to complete. It is worth at this stage also ranking these jobs by importance to the customers.

2. Identify customer pains. These can be examples of where product and service do not work or don't work well, where they have side effects, they make customers look bad or feel bad. Take the time to prioritise pains by severity to the customer

3. Identify customer gains. These should capture the outcomes and benefits your customers want to achieve whether functional, social or emotional. Take the time to prioritise them by gain relevancy from essential to nice to have.

After looking at the circular business models determine a relevant circular product & service you can test in the value proposition canvas. Outline all the customer and environmental pain relievers and gain creators

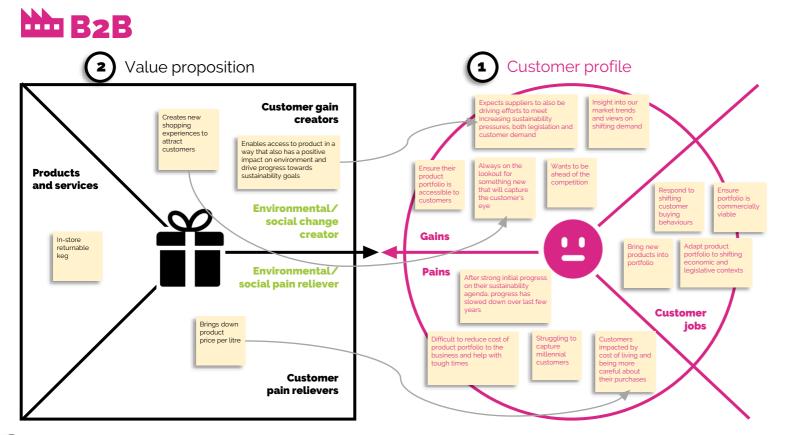
Capture any key value proposition desirability assumptions in your value proposition design log. This will feed into your CBM customer research in exercise 1.6



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Define your circular value proposition

Guidance | Template | Example



Customer profile	Value proposition description	Customer desirability assumptions
Pain - Customers impacted by cost of living and being more careful about their purchases	The returnable keg brings down product price per litre	Customers want and adopt the larger container quantities
Gain - Always on the lookout for something new that will capture the customer's eye	Returnable keg stations creates new shopping experiences to attract customers	New customers will be attracted by the novel experience and new customers will have the time and appetite to try and repeat new shopping experiences in store like returnable kegs

Commentary

1

2

3

Start by creating a customer profile

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Capture any key value proposition desirability assumptions in your value proposition design log. This will feed into your CBM customer research in exercise 1.6



Identify your circular innovation sweet spot

Guidance | Template | Example



Exercise 1.3

Identify your circular innovation sweet spot

Outcome: Establish a high-level set of business case assumptions and a balanced scorecard to inform your research and design decisions as well as how you will measure success of your circular initiatives.

Guidance

- Explore the customer, business and planetary value of your circular motivations by filling in the template on the following page
- 2. Leverage all of your "voices" to build the best picture possible:
 - Voice of the Customer
 - Voice of the Business
 - Voice of the Employee
 - Voice of the Planet
- Discuss and highlight the possible tensions between the circles
- Clearly capture all assumptions made at this stage in the table so they can be robustly tested
- 5. Capture a baseline where current data is available and build a data strategy and plan where more data is required

Top tips

- Spend time working with your finance team to develop the capabilities to highlight how the delivery of circular benefits in turn drives a better CX and business value
- Enhance this activity by working through the innovation sweet spot with a complete Circular Business Model Canvas



Circular innovation sweet spot



Guidance | Template | Example

Exploring circular value

Desirability	Viability
 Are your customers waiting for this? Is this circular solution solving a customer problem? Is the circular solution desirable to your existing or target customers? Does it add value to the lives of customers? Will it improve customer satisfaction or reduce customer effort? Which circular business models add the most value to customers and why? 	 Would these CBMs be profitable for our organisation? How do these CBMs contribute to our long-term growth? Do these CBMs allow us to improve customer lifetime value? Would we be able to sustain these CBMs? Would we be able to scale these CBMs? Do these CBMs enhance our reputation or brand value? Do these CBMs improve our resilience? How will these CBMs impact our existing value proposition? What is our go / no-go criteria?
Circularity	Feasibility
 Do these CBMs enable better recirculation (how much resource, materials, and energy use comes from a prior use phase or returns)? Will these CBMs improve Product value retention? How might these CBMs allow us to reduce our waste or our emissions? Can these CBMs improve our product endurance? 	 Are we able to implement these CBMs? Are we in the right mode of the business to explore this? Do we have sufficient budget to explore these CBMs? Do we have the right business capabilities? Do we have the right partner ecosystem? Do we have the right skills and capacity to launch this? What is the impact on our wider transformation portfolio?



Identify your circular innovation sweet spot

Guidance | Template | Example

Desirability	Viability
Overview	Overview
 Returnable kegs offer our B2C customers the opportunity to access high quality beer at a cheaper price, with the added benefit of creating an exciting user experience. It also meets the rising customer demand for more sustainable value propositions. Returnable kegs offer our B2B customers the ability to attract customers into stores and make progress against their public sustainability targets. Example assumption B2C - Customers have the perception the beer kegs are a premium product and have the trust and capabilities to serve the drink in order to have a great tasting beer B2B - New customers will be attracted by the novel experience and new customers will have the time and appetite to try and repeat new shopping experiences in store like keg return List of indicators NPS, CSAT, CES Time spent at return station understanding instructions Time spent at return station accessing beer 	 Returnable kegs will help us consolidate our market share by enhancing our brand reputation and attracting new customers, and while capturing some demand from our existing value propositions it will have on overall net impact on total sales and margin Example assumption We are able to offer a cheaper price point by moving to a model that increases purchased volumes per customer and overall CLV List of indicators Customer Lifetime Value (CLV) ROI and breakeven
Circularity	Feasibility
Overview	Overview
Returnable kegs will help us progress on our sustainability targets where we aim to reduce carbon, electricity, and water consumption. Returnable kegs would also score high in endurance and resource productivity.	We have a strong relationship with B2B customers that have the relevant infrastructure and business capabilities to implement refillable kegs Example assumption
Example assumption	We can create sufficient space in store to setup return stations and can leverage out-of-store
Kegs can be produced with a reasonable sustainable impact and will be used sufficient times to offset any higher production impact and maintenance impact.	infrastructure to do refill ourselves
List of indicators	List of indicators
 Recirculation (number of times containers have been used) Net impact of single use VS refill 	Net positive impact on sales of overall product portfolio



Explore circular journeys

Guidance | Template | Example



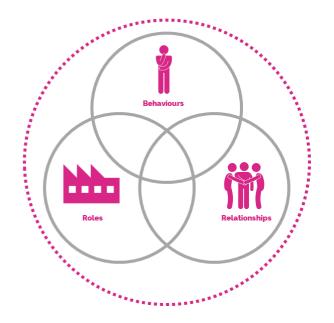
Exercise 1.4

Explore circular journeys

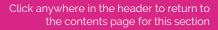
Outcome: Outline the shift from today's linear journeys that require customers to develop 'New Behaviours' and habits to ensure the recirculation of resources within the system, 'New Relationships' between producers, customers and products that are built on transparency, trust and emotional connection with the products they use thereby, inhabiting 'New Roles'.

Guidance

- 1. Outline a high-level circular customer journey (7-9 steps) for your selected Circular Business Model explored in the previous activity
- 2. For each step, capture whether they might require any new:
 - Customer behaviours
 - What new behaviours are expected from customers?
 - How much additional effort would these new behaviours represent?
 - How familiar are customers with these new behaviours?
 - Do customers have the right skills today to perform these new behaviours?
 - Relationships between producers, customers, and products
 - How do these CBMs change the relationship customers have with the product?
 - How do these CBMs change the relationship that customers have with the producers?
 - Business capabilities
 - Do these business capabilities already exist in your business?
 - Do we have partners that could help us deliver on the new business capabilities?
- 3. Highlight key questions and assumptions that need to be further investigated

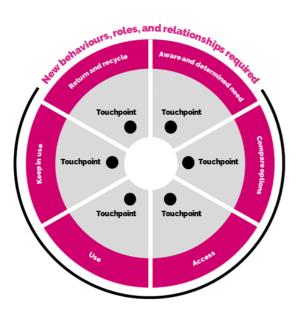






Explore circular journeys

Guidance | Template | Example



Circular customer journey ideation assumptions

Persona: Scenario:

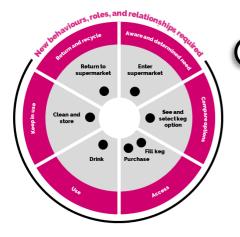
#	Touchpoints	New customer behaviours required?	New relationships between producers, customers, and products?	New business capabilities required?
1				
2				
3				
4				
5				
6				
7				





Explore circular journeys

Guidance | Template | Example



1

Circular customer journey ideation assumptions

Persona: Ethan is a 27yo worker in a tech marketing company.

Scenario: Ethan is on his way home from work and hosting a mid-week dinner party. He needs to buy drinks. His flatmate will sort out the food. Touchpoints New relationships between New business capabilities required? # **New customer behaviours** required? producers, customers, and products? 2 3 3 3 Enter 1 supermarket See and Awareness of circular Customer needs to become Able to articulate the value of circular 2 • select keg offerina "owner" of a circular product offerina option Motivation to engage with that needs to be returned Can work with retailers to create the • a new circular offering relevant space to introduce circular Capable to understand products . what the circular value Establish relevant incentives to make • propositions brings to circular product offering and them behaviours attractive to customers, retailers and suppliers **Collect** keg • Skills and knowledge to • Would need to consider delivery 3 collect kea services to cater for large orders or accessibility requirements for heavy products Purchase Understanding how New pricing models and systems that • • pricing compares to enable circular product purchasing traditional linear . Business capability to communicate the pricing comparison in a clear and alternatives attractive way Drink Ability to use the keg in a 5 seamless wav 6 **Clean and** • Skills and space to clean store and store kegs at home after using **Return to** Retailer and supplier are also Remember to bring Infrastructure requirements to host supermarket returnable containers on "owners" of the value of the the return stations but also the return visit product and need to ensure maintenance of the circular products Has the opportunity and product endurance and capabilities to bring in satisfy hygiene requirements returnable container

Commentary

Decide which Persona(s) you will focus on and what customer scenario you want to explore

Outline an indicative set of customer journey touchpoints. Aim to capture the e2e journey for your scenario in 6-10 steps

Work your way through the touchpoints and for each one capture any reflections or assumptions on whether these touchpoints will require any new...

- customer behaviours
- relationship between producers, customers and products
 new business capabilities

... in order to be successful





Define circular customer personas

Guidance | Template | Example



Exercise 1.5

Define circular customer personas

Outcome: Build a persona that represents your most valuable B2B or B2C customer today, and one persona that represents your ideal target customer profile in the future. You will be using these personas to explore circular value, shape your user research, and to feed into your service design.

Guidance

Using existing insight and where possible user research, follow the templates below to establish your ideal customer profiles

- 1. Gather all the relevant customer data you have available from your CRM, customer surveys, customer analytics, etc.
- Run a series of workshop with your customer-facing staff to bring to life your most common customers (check out This is Service Design Doing⁵ for more guidance)
- 3. Use external insight and market trends to bring to life your target customer profile

Top tips

- The value is in the quality of information you feed into the template so make sure to highlight where you have made assumptions VS where you have data to back up it.
- Always call out where you had insufficient customer insight and had to make assumptions as this will feed straight into your customer research scope.



Define circular customer personas

Guidance | Template | Example



University [CLARASYS]

Demographics	Who are they? Demographics (age, family status, household income, etc.)			
Goal	 What job(s) do they want or need to get done? What is the situation they are in? What is their role in the situation? What decision(s) do they need to make? How will we know they were successful? 			
Expectations	 What is their reason for using the product or service? What are their wants and needs that this product or service needs to fulfil? What is their expectation of engaging with your brand or product line? What does success look like? How is it measured? 			
Behaviours	 What do they do today? What behaviours have we observed? What can we imagine them doing? 			
Motivations	What are their reflective (beliefs, self identity, intentions, goals & plans) motivations? What are their automatic (emotions, wants, needs, desires, habits and drives) motivations? What relative importance do they place on: Quality Price Convenience Sustainability Social status Newness Contamination Trust Identity			
Opportunity	 What time, locations, money, and resources do they have available? Which social norms, environmental, and social cues do they experience? 			
Capability	 What are their physical abilities (skills, stamina or strength)? What are their psychological (knowledge and information processing skills like attention, memory, mental models, language and communication skills) abilities? What is their Circular understanding and skills (e.g. doing small repairs, maintaining products, purchasing subscriptions, etc.)? 			
Pains	What are their fears, doubts, and anxieties?Do they face any problems or challenges?			



Company profile	What is the company profile including: Company size Location Industry
	Revenue Market share Competitors
Key contact(s), role and responsibilities	 Consider the different key stakeholders and capture: Their role What they are accountable for? Their levels of influence and decision making The products or services they are responsible for
Expectations	 What is their reason for using the product or service? What are their wants and needs that this product or service needs to fulfil? What is their expectation of engaging with your brand or product line? What does success look like? How is it measured?
Relationship	 Type and strength of the relationship Our influence / leverage on their product portfolio
Behaviours	 What is the nature of the relationship? (e.g. any pull-push dynamic?) Is there any relevant purchasing cycle? What are key decisions factors to consider? Which stakeholders need be involved to influence. or approve a purchase?
Motivation	Consider in this order the company, department and individual motivations across: Purpose, values, and strategy Objectives Top line / bottom line pressures and targets Sustainability targets
Opportunity	 What is the observed or forecasted customer demand? What are the relevant market trends and legislation? What is their appetite for change?
Capability	 What is the current budget? What distribution channels are in place? What type of infrastructure is in place? What are the current business capabilities? (e.g. delivery, etc.)
Pains	What are their fears, doubts, and anxieties?Do they face any problems or challenges?





Define circular customer personas

Guidance | Template | Example

Ethan B₂C Ethan is a 27yo worker in a tech marketing company Goal He is on his way home from work and hosting a mid-week dinner party. He needs to buy drinks. His flatmate will sort out the food. Ethan needs to decide what drinks to buy and how much he needs to buy so everyone has a good time at the dinner party. Since he is hosting, he wants to find some beverages that are nice. **Expectations** Ethan hopes he can make a quick stop at his local supermarket. He knows they have a good range of beverages that typically come with bundle offers. He is confident he will be able to find a variety of desirable drinks and carry them all home in time to help his flatmate prepare the final touches on the food. He wants drinks that will taste nice and that have a cool packaging to impress his friends. Ethan knows where to find beverages, he is a regular buyer at this shop. He usually buys beers or wine that are on offer for himself but usually buys more expensive products when hosting or Behaviours going to dinner parties. Motivaions Ethan places a strong value on guality and social status Quality Price Co Sustainabilit Social stat Opportunity Ethan has just enough time to buy the drinks (linear or return) and money is not a concern in this scenario. Ethan knows the shop well and even knows one of the sellers there that he regularly asks for product location. Capability Ethan can comfortably carry home the drinks for tonight's dinner party. And while he has not tried returnable options before, he is comfortable with subscription service concepts and making quick pricing comparisons - he usually does try to find the best deals anyway! Pains Ethan is concerned with making sure the dinner party is fun and everyone has a drink they like! He doesn't want the judgement he got last time for buying a cheap beer in a can. He is also annoved that prices do seem to keep rising and that many beers are not even kept in the refrigerator.



Retail supermarket

Company profile	 Supermarket £30Bn revenue UK 				
Key contact(s),	Head of product portfolio (Sarah). Responsible for:				
role and responsibilities	 Managing product portfolio Commercial success of product portfolio Identifying new products that meet new customer demand Managing relationships with suppliers 				
Expectations	 Continued access to our products that customers' love Ensure product portfolio is accessible to their customers Insight into our market trends and views on shifting demand Always on the lookout for something new to attract customers Expects suppliers to also be driving efforts to meet increasing sustainability pressures, both legislation and customer demand 				
Relationship	 Well-established relationship Sarah is a key decision maker Our products are key to their value proposition 				
Behaviours	We have a healthy pull-push relationship. There is a clear purchasing cycle with complex purchase decision factors and a number of people ultimately required to approve a purchase and operationalise products portfolios				
Motivation	While sustainability is not core to their purpose, the organisation has set out some clear sustainability targets and understands it needs to evolve to meet shifting legislation. With current difficult economic times, the organisation also wants to make sure they adapt their value proposition to continue to attract customers that are struggling economically. The organisation has also seen continued growth in demand for sustainable products and they want to meet these and stay ahead of the demand curve to capture customer market share.				
Opportunity	The organisation, like its customers, is also strapped for money. There is however appetite for change, customer demand and critical infrastructure in place to explore circular products.				
Capability	 Limited budget with tough economic climate Strong infrastructure in place including physical and online presence and established delivery services and partners CX/CE skills with well-established customer experience and design teams and sustainability teams 				
Pains	 Struggling to capture millennial customers Difficult to reduce cost of product portfolio to the business After strong initial progress on their sustainability agenda, progress has slowed down over last few years 				





Conduct circular business model customer research

Guidance | Template | Example



Exercise 1.6

Conduct circular business model customer research

Outcome: Test your circular value assumptions captured in previous exercises to validate and enhance your understanding of your customer goals, needs and behaviours when engaging with circular business models.

Guidance

Throughout the Exploring Circular Value section, you have completed a number of customer-centric exercises based on your current customer understanding and some assumptions including:

- Discovery Personas where you highlighted key Circular Experience Design Factors (e.g. convenience, hygiene, social status, etc.) that drive Customer Motivations
- A Circular Value Proposition
- A Circular Customer Journey Exploration including Customer Roles, Relationships, and Behaviours

Before you move into the Designing circular value section, let's validate or disprove those assumptions!

- Follow on from the last activity and continue to outline your top 4-6 Customer Discovery Personas before proceeding with your customer research setup.
- Using the table below, prepare your customer research plan and activities.
- 3. Run your research.
- 4. Consolidate findings into a research wall and update your discovery personas with your findings so they are ready to be used as part of your circular service design

Top tips

- 1. Customers may not be familiar with CE at all which means you might have to tweak your existing research approach and bring in elements of circular education and find ways to gamify circular business models through proof of concepts to bring them to life for your customers.
- 2. A regular challenge we observed when conducting customer research linked to sustainability actions is the gap between customer values and their behaviours. Challenge yourself to close this gap by conducting your Customer Research in the most relevant environment and conditions as possible (for example run your research in the supermarket with people actually on their way back from work).
- Setting up quick reaction feedback experiments can help in better exploring customers' "automatic motivations" vs "reflective motivations" that are otherwise hard to articulate.
- 4. Consider setting up Wizard of OZ proof of concepts to bring the experiments as close to reality as possible.
- Beyond the customer research, take this opportunity to reach out to employees, suppliers, and other relevant actors to validate your wider business assumptions (for example assumptions on new business capabilities required).





Conduct circular business model customer research

Guidance | Template | Example

What	Who	When	Where	How
 Research scope should include questions on: Circular experience design factors Customer goals (JTBD), needs, motivations, behaviours, gains and pains Circular Value proposition assumptions (gain creators and pain relievers) Roles, behaviour and relationship assumption 	 To decide who to involve in your customer research, ask yourself: Which personas need to be included? What is the prioritised order of personas? Are we researching both existing and target customers? Is geographical spread relevant? 	 To determine the best timing for this research, consider: Are there more relevant moments in current customer journey that we can leverage? Is there the need to run research at different times in journey and lifecycle, for example: After sign up / registration After a purchase After repair 	 To determine the best location for your user research, consider: What is the best place to run the research to reduce the mindset to behaviour gap? Is geographical spread relevant? 	 To run your custom research: Use clearly outlined discussion guides to run your sessions and gather the information you need Use a variety of UR methods for example surveys, focus groups, Capture both qualitative and quantitative findings on research walls Leverage UR tools like Sentiment analysis or text and voice analytics to get deeper databased insights



Conduct circular business model customer research

Guidance | Template | Example

ntary

through the list of all the omer assumption you captured so far. Take the to prioritise them and them up as hypothesis. light B2B VS B2C arch questions

rage your thinking on lar motivation drivers and ighted business case ortunities to determine ity personas

about the e2e customer cle of your B2C and B2B omers and make sure to a chat with your omer-facing employees etermine when and where st suitable to get ant and unbiased data customer insight

mportant here to strike ight balance of variety of omer research methods, tity of data and insight you aim to gather, cost of different methods and effort associated with each method.





Designing circular products and services

The aim of this section is to design an optimised circular customer journey that will drive circular product adoption and behaviour change across customer segments

For more information or to speak to one of our team, please contact us at <u>sustainability@clarasys.com</u>

Our research findings

Circular business models require customers to take on new roles and behaviours – In the shift from linear to circular, customers are called on to act as stewards and maintainers of value, products, and materials. Many circular business models fail (either in ideation or implementation) because customers do not adopt the new roles and behaviours that these models require of them. In this sense, the key to the successful implementation of CBM's is being intentional about designing for the behaviour change needed from your customer.

Sustainability is rarely a powerful enough motivational driver to enable target circular behaviours – Even among customers who profess to care about sustainability, there is a substantial gap between values and action. This means that organisations need to think beyond sustainability as a motivational driver and explore the different levers they can pull to drive behaviour change across diverse customer segments.

New customer experiences can be powerful catalysts of circular product adoption – Most organisations initially approach circularity as a requirement rather than an opportunity. The most commonly observed drivers for organisations moving to circularity were centred around meeting sustainability targets and driving efficiency. Interestingly, however, we found that the organisations with the most success in driving circular behaviour change had approached circularity as an opportunity to build new relationships with their customers and integrated additional tasks within desirable new experiences.

Our recommendation

Organisations need to be intentional about designing for the circular behaviour change needed from their customers







Designing circular products and services





Exercise 2.1 Circular journey design framework



Exercise 2.2 Behavioural change pain point analysis



Exercise 2.3 Pain point prioritisation



Exercise 2.4 **Behavioural** change intervention ideation

Bonus tool A: Heuristics and nudges

Bonus tool B: Emotional durability design nine



Exercise 2.5 Intervention prioritisation



Exercise 2.6

Optimised



Exercise 2.7 circular journey

Circular stakeholder iobs





Before starting

Introduction



Introduction

Before starting (1 of 2)

There are **three key concepts** in this section that are important to understand before beginning the exercises.

Key circularity moments (KCMs)

These are the moments in a circular customer journey where the success of the circular business model depends on the customer performing a specific task or behaviour. In our circular refill example, there are two KCMs: the moment the customer decides to purchase the circular product and the moment they return it to the store. If the customer fails to perform either of these tasks then the circular business model also fails.

COM-B framework

The COM-B framework is a behavioural change model which posits that behaviour is the result of an interaction between three components:

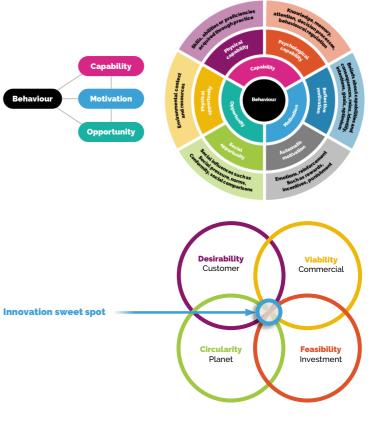
- 1. Capability: can be physical (skills) or psychological (knowledge)
- 2. **Opportunity:** can be social (societal influences) or physical (environmental resources)
- 3. Motivation: can be automatic (emotion) or reflective (beliefs, intentions)

In the exercises in this section, we will explore how we can pull on these 3 different levers of capability, opportunity, and motivation to drive circular behaviour change.

Innovation sweet spot

The innovation sweet spot is a framework that we use in this section to prioritise ideas for interventions and changes to the customer journey. It comprises four criteria:

- 1. Desirability (human)
- 2. Viability (business)
- 3. Feasibility (technology)
- 4. Circularity (planet)





Before starting

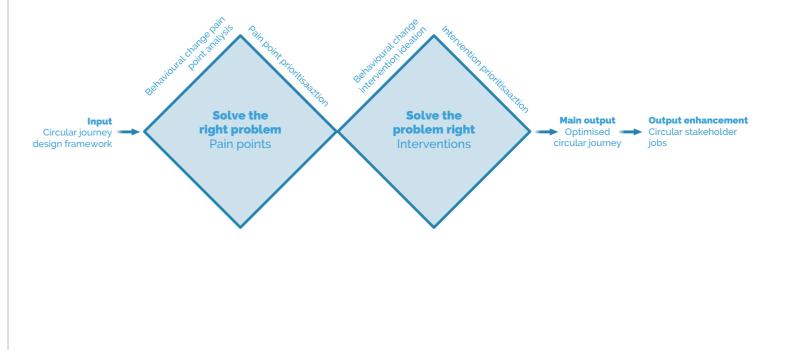


Introduction

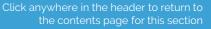
Before starting (2 of 2)

Section methodology

The activities in this section are structured according to the <u>double diamond design thinking approach</u>. The first three exercises are focused on *designing the right thing* and the later exercises are focused on *designing the thing right*. This framework ensures that we are clear on the problem we are trying to solve and enables us to develop targeted and creative solutions. Through this approach, we bring a repeatable structure and rigour to circular innovation.









Circular journey design framework

Guidance | Template | Example



Exercise 2.1

Circular journey design framework

Outcome: Compare experience and effort across linear and circular customer journeys and identify:

- Key moments of circularity
- Key moments of delight
- Key moments of effort

Context

Circular business models require customers to take on new roles and behaviours. This exercise helps us to identify the key differences between an existing linear journey and a proposed circular journey. It also enables us to identify 'key moments' of circularity where the success of the circular model depends on the customer fulfilling a specific task.

Instructions

Using the circular service design framework below:

- 1. Map your as-is linear journey In 7 to 12 steps highlight the key touch points in your current customer journey
- 2. Map your draft to-be circular customer journey using the outputs from the previous circular value proposition and circular journey design exercises, map your draft circular customer journey in 7-12 steps
- Outline linear experience and effort based on existing customer data, draw out the current customer experience and customer effort curves for your as-is journey
- 4. Outline circular experience and effort based on your current circular customer research and a number of clearly outlined assumptions, draw out the current customer experience and customer effort curves for your as-is journey
- 5. Key Moments highlight on the map the following key moments:
 - a. Key Moments of Circularity the touch points in a circular customer journey where the success of the circular business model depends on the customer performing a specific task or behaviour, e.g. if the customer does not perform these, then the circle breaks
 - b. Moments of Delight the touch points that have the biggest potential "value", "reward", or "fulfillment" for your persona
 - c. Moment of Circular Effort the touch points that represent the highest increase in relative effort (based on complexity, physical, and psychological effort and familiarity) compared to the as-is journey for your persona

Top tips

Look out for moments where circular experience is low and circular effort is high. These will be good starting points when we come to identify pain points in exercise 2.2

Consider how spikes in circular effort could be mitigated by optimisation of the circular experience. This will be important when we brainstorm interventions in exercise 2.4



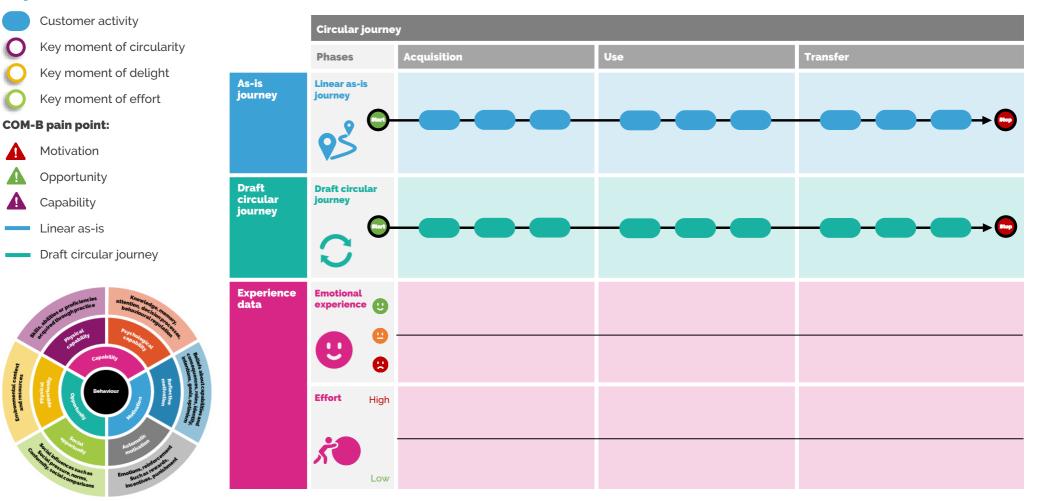


Circular journey design framework

Guidance | Template | Example

Key

Scenario:

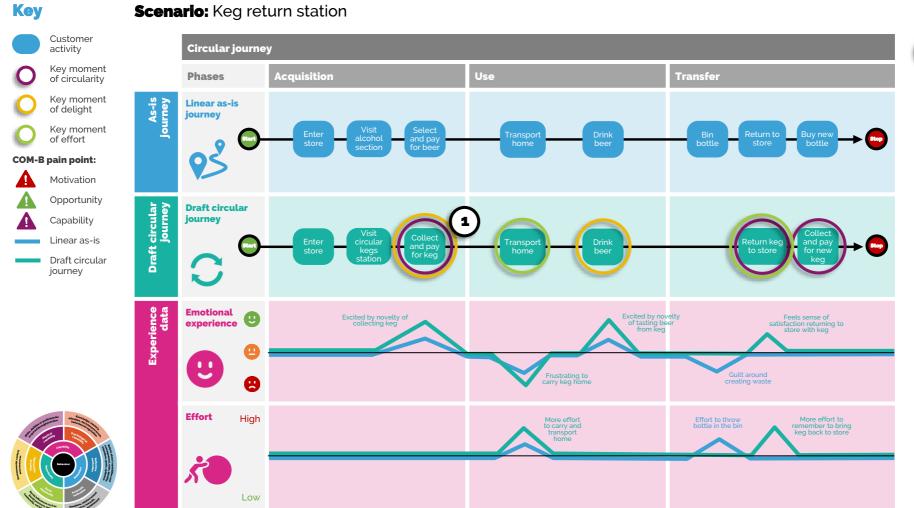






Circular journey design framework

Guidance | Template | Example



Commentary

Note that in this 1 journey the key moments of circularity and key moments of efforts do not always overlap. For example, "collect and pay for keg" is a key moment of circularity because the circular business model depends on the customer's decision to purchase the circular product. This is not a "key moment of effort however because the effort required to purchase a normal beer bottle (linear product) and a keg (circular product) are very similar.

On the other hand. "transport home" is a key moment of effort because the keg (circular product) is much heavier and harder to carry than a bottle (linear product). This is not a "key moment of circularity" however, because the customer has already made the decision to purchase the (keg) circular product and they are not interacting directly with the business model. Their next key moment of circularity will be returning that keg to the store.



Behavioural change pain point analysis

Guidance | Template | Example



Exercise 2.2

Behavioural change pain point analysis

Outcome: Use the COM-B framework to identify behaviour change pain points for customers on their circular journey

Context

The COM-B framework helps us to pinpoint the obstacles an individual faces in adopting a new circular behaviour. In this exercise, we pair the lenses of COM-B and personas to provide a granular view of the pain points customers are encountering around circular behaviour change.

Guidance

- For each persona (created in Exercise 1.5), make a separate copy of the circular journey design framework that you completed in the previous exercise (Exercise 2.1)
- 2. Use the COM-B framework to identify potential pain points for each persona around the different key moments of circularity

Ask yourself:

For each key moment of circularity, where might the customer encounter a pain point around their capability, opportunity, or motivation?

 Look across the wider journey and add any further COM-B pain points you can think of

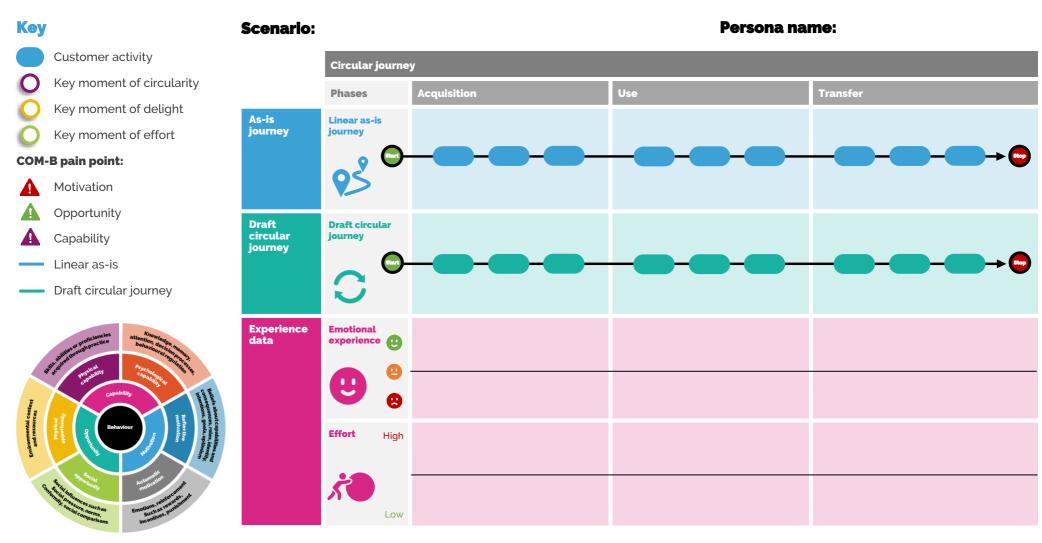
Top tips

- Keep the pain points specific to the persona. Try to imagine the journey through their eyes and write any pain points in the first person e.g. "I'm in too much of a rush to learn how this keg offering works"
- Remember to colour code the pain points depending on their COM type
- If you are struggling to know where a pain point fits in the COM-B framework, refer back to the wheel for further guidance
- Use the experience/effort curves to help you identify where potential pain points may arise in the journey. Look for moments when experience is low and effort is high. Note that these curves may also differ according to persona so don't be afraid to adjust them as appropriate





Guidance | Template | Example



Repeat exercise for other personas





Normally you

would make a

copy of this

Some pain

points may

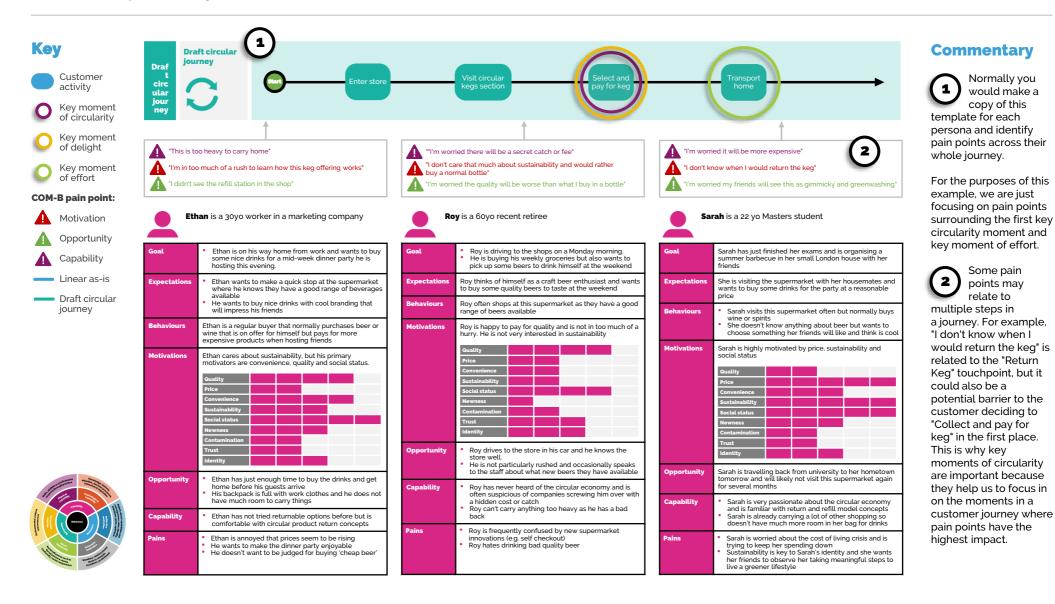
relate to

Behavioural change pain point analysis

Guidance | Template | Example

University of Exeter

CLARASYS





Pain point prioritisation

Guidance | Template | Example



Exercise 2.3

Pain point prioritisation

Outcome: Build a prioritised list of COM-B pain points that will have the highest impact on circular product adoption across your target personas

Context

If we want to design circular customer journeys that scale across customer segments, then we need to identify the highest priority pain points across these groups. This exercise provides us with a matrix to help us prioritise which pain points we want to design for in the following activities.

Guidance

- Copy across all the pain points you identified in the previous exercise into the table below and sort them by the key circularity moment they are most closely associated with (don't worry about which persona they belong to)
- 2. Score the impact 1-5 (severity x probability) of each pain point for each persona

Ask yourself:

- How likely is this pain point to break the circle?
- How likely is it to stop the persona completing their circular journey?
- 3. Attribute persona weighting (if relevant)

Ask yourself:

- Does one persona make up a larger percentage of my target customer base than the others?
- Do I want to adjust the weighting so that I am designing more intentionally for that persona?

Top tips

If you have identified pain points for other steps across the journey that are not circled as key circularity moments then group them with whatever key circularity moment you think they are most closely related to (e.g. "This is too heavy for me to carry home" would be associated with 'Fill keg')





Pain point prioritisation

Guidance | Template | Example

Key circularity moment	Pain point					
	Impact: How likely is this	to break the circle? Sco	re 1 (low impact) to 5 (hig	Jh impact)		
		Personal weighting				
		x1.?	x1.?	x1.?		
	Pain point	Persona name 1	Persona name 2	Persona name 3	Score	Priority
		Personal weighting				
		x1.?	x1.?	x1.?		
	Pain point	Persona name 1	Persona name 2	Persona name 3	Score	Priority





Pain point prioritisation

Guidance | Template | Example

l bottle	Impact: How likely is this to break th	ne circle? Score 1 (lo	ow impact) to 5 (high	n impact)								
		Personal weighting										
		x1.0	X1.0	x1.0								
	Pain point	Ethan	Roy	Sarah	Score	Priority						
	"I don't know how to fill and pay for this"	3	3	3	9	4th						
	"I'm in too much of a rush to learn how this keg offering works"	4	3	4	11	3rd						
	"I didn't see the keg offering in the shop"	4	3	4	11	3rd						
	"I'm worried there will be a secret catch or fee"	2	5	2	9	4th						
	"I don't care that much about sustainability and would rather buy a normal bottle"	2	5	2	8	5th						
	"I'm worried the quality will be worse than what I buy in a bottle"	4	5	3	12	2nd						
	"I'm worried it will be more expensive"	3	3	5	11	3rd						
	"I don't know when I would return the keg"	3	3	3	9	4th						
	"I'm worried my friends will see this as gimmicky and greenwashing"	3	1	4	8	5th						
	"This is too heavy to carry home"	5	4	4	13	1st						

Commentary

1

2

Note that while pain points were identified through the lens of individual personas in the previous exercise, here we are assessing the impact of each pain point across multiple personas so we can prioritise which ones we want to solve for

To keep things simple here we have assigned all three personas the same weighting. If you want, you can adjust these weightings so they better reflect the breakdown of your target customer base

Behavioural change intervention ideation

Guidance | Template | Example



Exercise 2.4

Behavioural change intervention ideation

Outcome: Create a backlog of COM-B interventions that will address priority pain points and optimise the circular journey

Context

This exercise helps us to ideate solutions for COM-B pain points with the support of a table that matches the pain point type to specific categories of interventions.

Guidance

For each priority pain point:

- Make a copy of the template below
- With reference to the COM-B type of the pain point, use the table below to identify which intervention types would be most effective in addressing it
- Brainstorm different ideas for each intervention category
- **BONUS:** Use Exercise 2.5 Heuristics and nudges and Exercise 2.6 Emotional durability design nine to gather further ideas

Top tips

- This is the fun part! Don't be afraid to throw some wacky or disruptive ideas out there. We will prioritise later, the focus of this exercise is on ideation and innovation
- If you are struggling to get the ideation started, try a crazy 8's exercise where you set the timer for 8 minutes and challenge each team member to write 8 intervention ideas in the table before the clock runs out



Behavioural change intervention ideation

Guidance | Template | Example

Pain point:

Which intervention type does the pain point lend itself to?

Intervention type	S								
СОМ-В	Education	Persuasion	Incentivisation	Coercion	Training	Restriction	Environmental restructuring	Modelling	Enablement
Physical capability									
Psychological capability									
Physical opportunity									
Social opportunity									
Automatic motivation									
Reflective motivation									

Repeat for other pain points





Behavioural change intervention ideation

Guidance | Template | Example

Pain point 1: "This is too heavy to carry home'" (1)

Which intervention type does the pain point lead itself to?

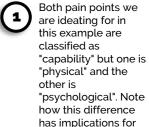
Intervention types									
СОМ-В	Education	Persuasion	Incentivisation	Coercion	Training	Restriction	Environmental restructuring	Modelling	Enablement
Physical capability									 Delivery service Different size kegs Easy carry strap Click and collect
Psychological capability									
Physical opportunity									
Social opportunity									
Automatic motivation									
Reflective motivation									

Pain point 2: "I'm worried the quality will be worse than what I buy in a bottle"

Which intervention type does the pain point lead itself to?

Intervention types									
СОМ-В	Education	Persuasion	Incentivisation	Coercion	Training	Restriction	Environmental restructuring	Modelling	Enablement
Physical capability									
Psychological capability	 Dedicated area/stand with education Someone in the shop to explain Campaign Packaging Video on website Video in store 	 Testimonials Quality certification Beer expert in store to explain Taste test Limited edition beer for refill only Different beers on refill each month 	 Taste guarantee - bring it back if you don't like it App where people can review the beer 						
Physical opportunity									
Social opportunity									
Automatic motivation									
Reflective motivation									

Commentary



2

intervention types. This table is intended as a guide not a rule so don't worry if some of your intervention ideas fit into categories that are not recommended. If this does happen. however, ask yourself: have I classified this pain point correctly? Could I be more specific or break it down differently so that my interventions are more targeted?

the recommended



Bonus tool A: Heuristics and nudges

Guidance | Template | Example



Bonus tool: Heuristics and nudges

Outcome: Identify specific heuristics and nudges that will help address customer pain points

Context

Heuristics and nudges are small-scale behavioural interventions that can help overcome barriers and activate triggers for target behaviours. This exercise helps you to consider how you can use nudge theory to overcome pain points and drive circular behaviours.

Guidance

- 1. Read the list of heuristics and nudges below
- 2. For each prioritised pain point you identified in exercise 2.3 use the list of heuristics and nudges to brainstorm potential interventions

Ask yourself:

How could I use these heuristics and nudges to help drive the circular behaviour I need my customers to perform?

3. Refer back to exercise 2.4 and include your new intervention ideas to the intervention type table

Top tips

- If you get stuck, try to think through the eyes of your personas. What small nudges might mitigate their pain point and incentivise them to adopt the circular behaviour required?
- Make sure to keep the nudges specific to the pain point you are addressing





Bonus tool A: Heuristics and nudges

Guidance | Template | Example

Pain point:



Anchoring and adjustment – People use a known reference point to determine an unknown outcome Nudge: Carefully choose the first piece of information you give to people Example: Tip options starting from 15%



Defaulting – People generally take the path of least resistance and rarely move away from the default option **Nudge:** Consider if people do nothing, what happens? **Example:** Canteens making the default side salad to promote healthy eating



Optimism – People don't believe bad things will happen to them and also think things will be quicker, easier, and cheaper than in reality **Nudge:** Ask people to consider the likelihood of something happening to someone else as a base rate

Example: Using a project premortem to identify key risks

6	
2	

Availability – People will engage more with items that are visible and easy to access **Nudge:** Make the desired behaviour easy for people to see **Example:** Supermarkets putting items they want to sell at the front of the store



Temptation – People will give in to short-term gains in spite of potential short-term risks **Nudge:** Make the desired behaviour easy for people to see **Example:** Supermarkets putting items they want to sell at the front of the store



Feedback – People are more likely to change behaviour if they can see the impact of their actions in real time **Nudge:** Give people visual feedback in the moment

Example: Smart meters for energy consumption

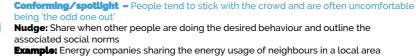
Repeat for other pain points





Mindfulness – People rarely pay attention to what is happening around them **Nudge:** Disrupt the norm to grab people's attention **Example:** Charities asking for an unusual amount of money to be donated (e.g. £17)







Priming – People will be influenced by previous information or experiences they have engaged with

Nudge: Lead people to the behaviour you want to achieve over time Example: Supermarkets pushing the smell of freshly baked bread to increase bread sales



Loss aversion – People are more concerned about losing something they already have rather than gaining something new Nudge: Outline what people stand to lose Example: Free subscriptions



Representativeness – People make assumptions based on their own world view and experiences (stereotypes) Nudge: Give feedback based on known assumptions and stereotypes - draw attention to the

bias **Example:** Adverts leading consumers to a conclusion, and then giving a different response



Bonus tool A: Heuristics and nudges

Guidance | Template | Example

Pain point: "I'm worried the quality will be worse than what I buy in a bottle"



Anchoring and adjustment - People use a known reference point to determine an unknown outcome Nudge: Carefully choose the first piece of information you give to people **Example:** Tip options starting from 15%



Defaulting - People generally take the path of least resistance and rarely move away from the default option **Nudge:** Consider if people do nothing, what happens?

Example: Canteens making the default side salad to promote healthy eating



Optimism - People don't believe bad things will happen to them and also think things will be quicker, easier, and cheaper than in reality

Nudae: Ask people to consider the likelihood of something happening to someone else as a base rate Example: Using a project premortem to identify key risks



Availability – People will engage more with items that are visible and easy to access

Nudge: Make the desired behaviour easy for people to see Example: Supermarkets putting items they want to sell at the front of the store



Temptation - People will give in to short-term Limited gains in spite of potential short-term risks edition beer Nudge: Make the desired behaviour easy for offering people to see **Example:** Supermarkets putting items they want to sell at the front of the store

Feedback - People are more likely to change behaviour if they can see the impact of their actions in real time Nudge: Give people visual feedback in the moment

Example: Smart meters for energy consumption



often uncomfortable being 'the odd one out' **Nudge:** Share when other people are doing the desired behaviour and outline the associated social norms **Example:** Energy companies sharing the energy usage of neighbours in a local area

Conforming/spotlight – People tend to stick with the crowd and are

Mindfulness – People rarely pay attention to what is happening around them

Example: Charities asking for an unusual amount of money to be donated (e.g. £17)

Priming – People will be influenced by previous information or experiences they have engaged with Nudge: Lead people to the behaviour you want to achieve over time Example: Supermarkets pushing the smell of

Nudge: Disrupt the norm to grab people's attention

freshly baked bread to increase bread sales

Loss aversion – People are more concerned about losing something they already have rather than gaining something new Nudge: Outline what people stand to lose **Example:** Free subscriptions

Advertising campaign highlighting quality of beer in kegs through the keg offering

e.g. blind taste test results

feedback from

Highlight

Circular beer app where people can share reviews of different beers they have tasted

are solving for, When the pain point other customers

changes, so too will the relevant category e.g. nudges related to 'Availability' may come into play for the pain point "I didn't see the keg offering in the shop".

Commentary

Note that not all nudge

categories listed here

specific pain point we

are relevant to the

Taste guarantee

Representativeness - People make assumptions based on their own world view and experiences (stereotypes)

Nudge: Give feedback based on known assumptions and stereotypes - draw attention to the bias

Example: Adverts leading consumers to a conclusion, and then giving a different response







Click anywhere in the header to return to the contents page for this section

Bonus tool B: Emotional durability design nine

Guidance | Template | Example



Bonus tool: Emotional durability design nine

Outcome: Ideate changes to your circular product/service that could enable a greater emotional connection with your customers and incentivise them to perform target circular behaviours

Context

Our research found that the organisations that were most successful in driving circular product adoption were those that integrated new circular tasks within exciting and desirable customer experiences. This exercise helps you to mirror that approach and challenges you to think through circular behaviour change as an opportunity to build deeper emotional relationships with customers.

Guidance

1. For each Key Circularity Moment use the emotional durability design nine template to brainstorm ideas for interventions

Ask yourself:

- How can we strengthen the Relationship between the persona and the circular product/service or brand?
- How might we use storytelling and Narratives to communicate the value of the circular product/service and capture the unique shared history that exists between the offering and persona?
- How might we allow the persona to embed aspects of their Identity into the circular product/service interaction?
- How can we use Imagination, delight, intrigue and surprise to increase engagement with the circular product/service?
- How might we enable an on-going Conversation between the persona and circular product/service long term?
- How might the circular product/service emulate a sense of Consciousness to increase engagement?
- How can you ensure the circular product/service delivers on both structural Integrity (durability and longevity) and value integrity (quality, reliability, honesty and transparency)?
- How does the Materiality (look, feel, style) of our circular product/service develop and change over time and through use?
- What is the Evolvability of the circular product/service over time?
- 2. Refer back to exercise 2.4 and add these ideas to the intervention table for the pain point they address (if they are not relevant to any of the pain points you prioritised then keep them to the side for the following exercises)

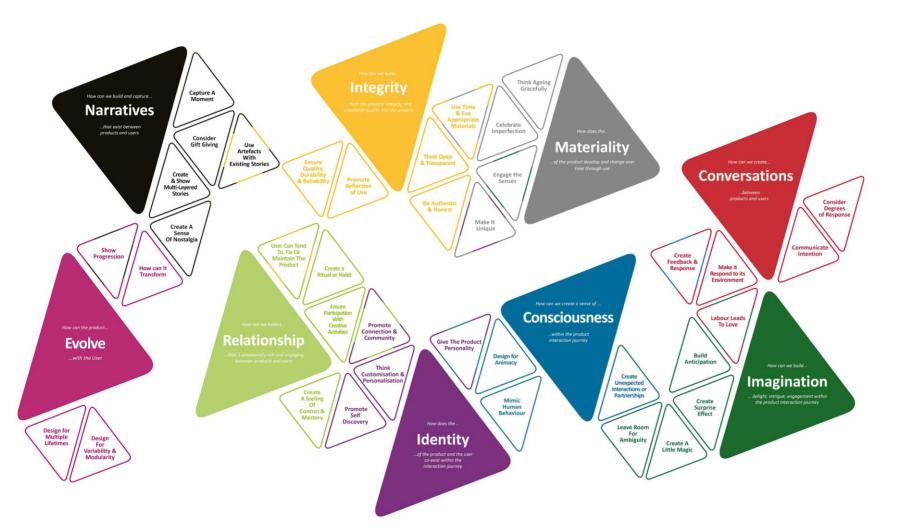
Top tips

- If you get stuck, try to think through the eyes of your personas. How could you build a product/service that would make them more emotionally engaged in their circular journey?
- Consider what other products or brands you have felt emotionally connected to and explore the reasons why
- See the website for the Emotional Durability Design Nine toolkit to download the tools and explore the concepts of emotional durability in more detail <u>https://eddnine.wixsite.com/</u> <u>framework</u>



Bonus tool B: Emotional durability design nine

Guidance | Template | Example



Emotional Durability Design Nine

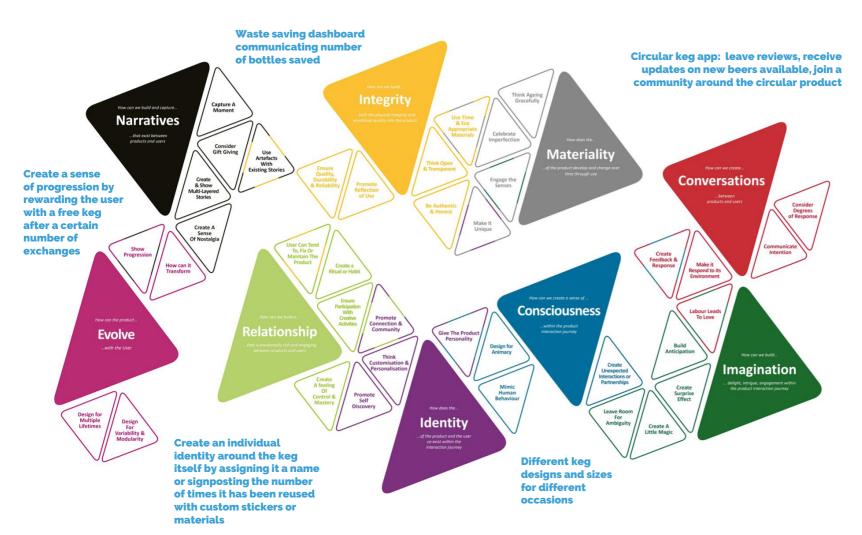
Developed in partnership with Philips Lighting and University of Brighton





Bonus tool B: Emotional durability design nine

Guidance | Template | Example



Commentary

Note that this ideation exercise differs from exercise 2.4 and 2.5 in the sense that it focuses around a key circularity moment and not a pain point. Once you have completed this exercise and identified some potential interventions, remember to return to exercise 2.4 and associate each idea with the relevant pain point it addresses.

Emotional Durability Design Nine

Developed in partnership with Philips Lighting and University of Brighton





Intervention prioritisation and design decision log

Guidance | Template | Example



Exercise 2.5

Intervention prioritisation

Outcome: Generate a prioritised list of interventions to optimise the circular journey

Guidance

- Take each intervention identified in the previous exercise and score against the innovation sweet spot matrix. For each criteria ask yourself:
 - **Desirability** (ask for each persona individually). Does it improve:
 - customer capability?
 - customer motivation?
 - customer opportunity?
 - customer satisfaction?
 - Feasibility
 Does it have an acceptable impact on:
 - our people?
 - our ways of working?
 - our technology infrastructure?
 - Viability
 - Can the business accept:
 - set up cost
 - run up cost
 - impact on revenue
 - impact on cash flow
 - Circularity

Does it have a positive impact on:

- resource use
- closing waste loops
- emissions
- pollutant release
- 2. For each intervention capture key assumptions behind your scoring

Top tips

- Note: not all interventions will have a direct impact on circularity. For example, the activity of repositioning the circular kegs at the front of the store would have a neutral impact on resource use, emissions, and pollutant release in its own right, even if it will likely contribute to the success of the circular refill model as a whole. In these situations, assign the intervention a neutral score of 3 and focus vour evaluation on the other areas of the innovation sweet spot.
- Similar to the pain point prioritisation matrix in Exercise 2.3, you can apply a weighting to your different personas to influence the overall intervention prioritisation so it reflects your target customer base
- Before moving onto the next exercise, build simple wireframes or proof of concepts and speak to your customers to validate your design assumptions



Jniversity of Exeter



Intervention prioritisation and design decision log

Guidance | Template | Example

Priority score: Which solution scores highest against the innovation sweet spot? Score 1-5 (5 being highly desirable, viable, feasible, and circular)

Solution pr	ioritisation												
Key circularity	Pain point	Inter-	Interventions		ty (custome	r)		Viability (business)	Feasibility (technical)	asibility Circularity		Priority	Assumptions
moment	(in priority order)	vention ID		×1?	X1.?	X1.?	Average	e.g. revenue cost	e.g. process, systems	(planet) e.g. waste, energy			



Intervention prioritisation and design decision log

Guidance | Template | Example

Priority score: Which solution scores highest against the innovation sweet spot? Score 1-5 (5 being highly desirable, viable, feasible, and circular)

Solution	prioritisati	on							2			1	
Key circularity	Pain point (in priority	Inter- vention	Inter- ventions	Desirabil	lity (custom	ıer		Viability (business)	Feasibility (technical)	Circularity (planet)	Total	Priority	Assumptions
moment	order)	ID		×1.4	x0.9	×0.7	Average	e.g. revenue cost	e.g. process, systems	e.g. waste, energy			
Fill keg	"I'm worried this won't taste as good as the beer I buy in a can"	ID01	Taste guarantee	5	4	3	4	5	4	3	16	1st	A taste guarantee will assuage people's concerns around quality and give them the confidence that they are not compromising on taste by choosing the circular product.
		ID02	Limited edition beers	5	4	2	4	4	3	3	13.6	2nd	The limited edition beers will motivate people to choose the circular product because they will be intrigued to taste the new flavour which will not be available to them through the linear product.
		ID03	Taste test	5	2	2	3	2	2	3	10	3rd	A taste test would be difficult to implement because it would require unreasonable demands on staff and could also create legal complexity.
		ID04	Free first keg	4	4	5	4	1	1	3	9.3	4th	A free first keg would be difficult to implement because it would require a means of capturing customer data to prevent abuse of the system. It would also likely not be viable from a cost perspective.
	"This is too heavy to carry"	ID05	Different size kegs	4	4	4	4	4	4	3	15	1st	The different keg sizes will allow people who are concerned about weight of the keg to choose a lighter option they can transport home more easily.
		IDo6	Easy carry strap	4	4	4	4	4	4	2	14	2nd	The easy carry strap will help people to carry the keg more easily and will also allow them to save room in their bag, trolley, or car for other shopping. The strap does involve increased material in the production of the product but this is offset by the benefit of enabling more people to engage with the circular service.
		ID07	Delivery service	5	4	4	4.3	1	2	2	9.3	3rd	A delivery service would create increased emissions through transport and would also require large-scale infrastructure transformation and upfront costs.
		ID08	Click and collect	3	2	2	2.3	2	2	3	9.3	3rd	A click and collect service would not effectively address the pain point around weight. People who do not have a car will still be unable to transport the keg home, even if they can collect it at a convenient time.

Commentary

1

2

Note that

interventions are prioritised separately for each pain point. This is to ensure that none of the pain points are left unaddressed. If you want to consider viability,

consider Viability, feasibility, and circularity across multiple stakeholders (e.g. supplier, retailer etc.) then you can create additional columns and calculate an average score (in the same way you do with personas)

Optimised journey

Guidance | Template | Example



Exercise 2.6

Optimised circular journey

Outcome: Outline the features of your new optimised circular customer journey

Context

Now that you have prioritised your interventions you are ready to map your optimised circular customer journey.

Guidance

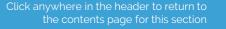
- Copy your linear as-is journey and draft circular journey across from Exercise 2.1 (including the experience and effort curves)
- 2. Using your prioritised interventions from the previous exercise, map out your optimised circular journey
- 3. Map the emotional experience and effort of your new optimised circular journey

Ask yourself: :

How does the effort/experience in your optimised circular journey compare to your initial draft circular journey and linear as-is journey?

Top tips

Compare your optimised circular journey and your linear as-is journey. Ask yourself: if my customer could choose between these two journeys which one would they prefer?







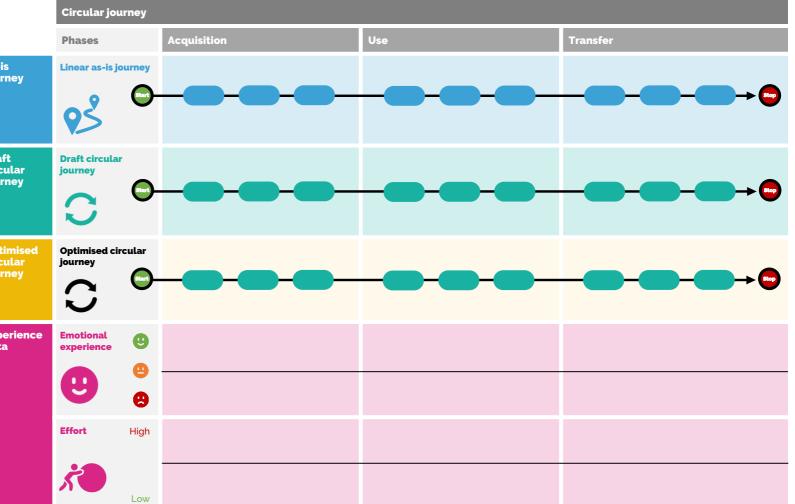
Optimised journey

Guidance | Template | Example



Scenario:

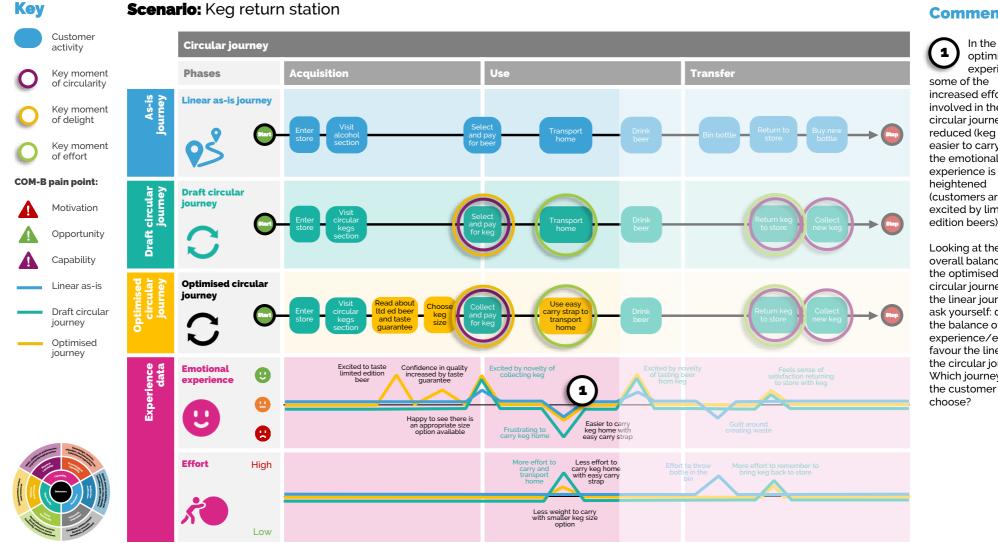






Optimised journey

Guidance | Template | Example



Commentary

optimised experience, some of the increased efforts involved in the draft circular journey are reduced (keg is easier to carry) while the emotional experience is heightened (customers are excited by limited edition beers).

Looking at the overall balance of the optimised circular journey vs. the linear journey, ask yourself: does the balance of experience/effort favour the linear or the circular journey? Which journey would the customer

Circular intervention requirements

Guidance | Template | Example



Exercise 2.7

Circular stakeholder jobs

Outcome: Outline at a high level the different responsibilities stakeholders would take on in implementing and delivering the optimised circular journey

Context

The implementation and delivery of circular customer journeys often require the collaboration of a wide range of stakeholders. This exercise helps to kickstart discussion at a high level around the different responsibilities each stakeholder would take on in delivering the journey.

Guidance

- **1.** Copy across your optimised circular journey from the previous exercise into the template below.
- 2. For each stakeholder:
 - include any "jobs to be done" and people involved per individual customer interaction under the relevant journey step in the "in-journey jobs lane"
 - include any wider "jobs to be done" and people involved in supporting the journey beyond individual customer interactions under the relevant journey step in the "supporting org jobs lane"

Top tips

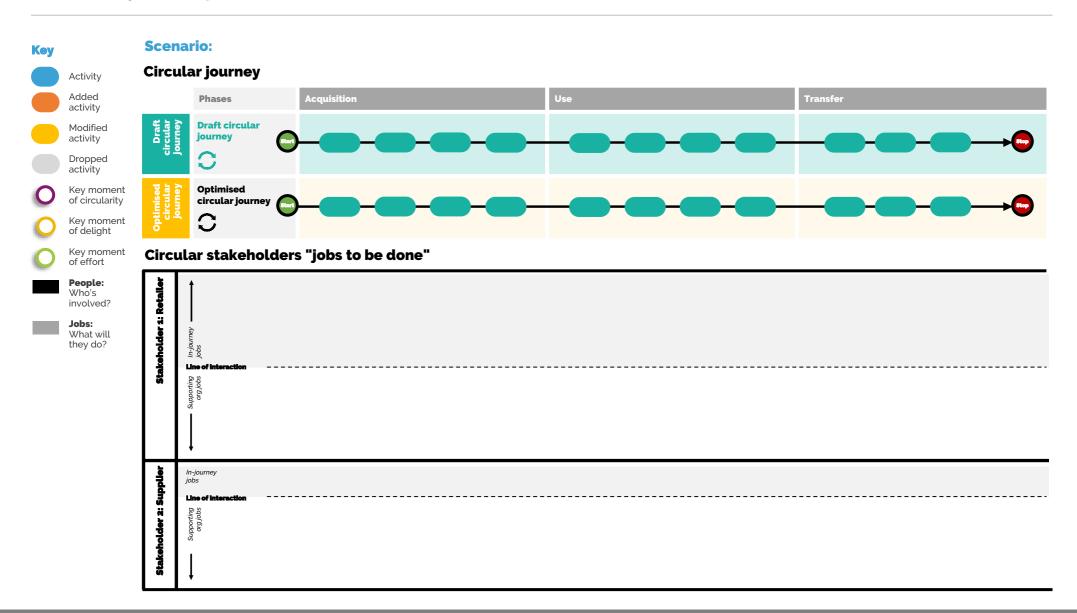
- Use this tool together with all the stakeholders involved in delivering your circular journey to help find agreement on who is responsible for what
- Note that small changes to the customer journey can have a big impact on how responsibilities are shared across stakeholders. Bear this in mind as you make further iterations to your journey and use this tool to communicate the impact on different groups
- Once you have completed this exercise consider if you need to adjust the innovation sweet spot score of any of your interventions. For example, this exercise may highlight that a particular intervention would involve significant setup or running costs, thereby lowering its viability score and necessitating some adjustments





Circular intervention requirements

Guidance | Template | Example

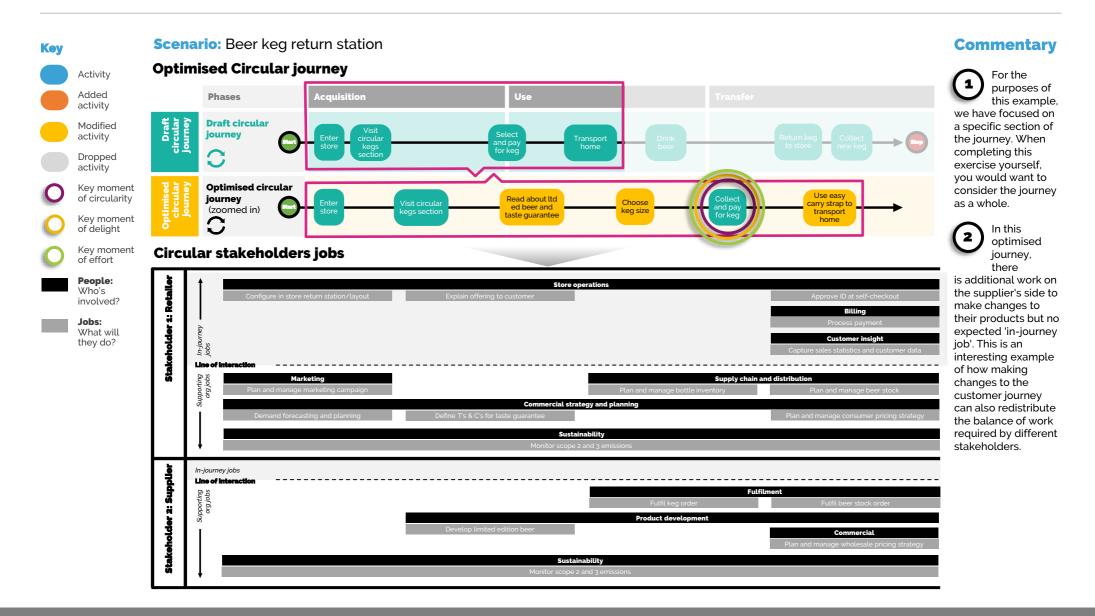






Circular intervention requirements

Guidance | Template | Example





Delivering circular value

The aim of this section is to help you effectively scope your CBM pilot in order to test whether the solution will work in a real context to justify scaling or implementing it.

For more information or to speak to one of our team, please contact us at <u>sustainability@clarasys.com</u>

Our research findings

Much of the current innovation in circular business models is smallscale and securing investment to scale can be a challenge. Innovators aren't obtaining satisfactory measurement to track success of these "value retaining models" to supply the relevant evidence for investment:

- The breadth of ambition for circular initiatives can't be oversimplified

 success for circular business models covers a broad range of
 factors across the innovation sweet spot. This means pilot design
 needs to provide an opportunity to evaluate success for all.
- Getting organisational commitment is hard whilst organisations are increasingly committed to exploring the circular space, much of the work is small-scale or pilot activity and convincing the wider business to provide investment to expand the initiative can be a challenge.
- Metrics need to substantiate hypotheses Innovators aren't planning for or conducting satisfactory measurement during the innovation process to track and confirm the success of these "circular - value retaining models".
- Transitioning to BAU is an afterthought much of the work involved in small-scale or pilot activity is happening in 'incubator' environments for example; leveraging purpose-built technology, involving dedicated teams. This means that at the point of scaling, BAU operating models (internal systems, processes and tech and OD) need to be designed and operationalised to support circular models.

Our recommendation

In order to pilot circular business models effectively, firstly measures of success need to evolve to include environmental performance but secondly, expectations of what success will look like requires a shift in mindset. Organisations need to be prepared for 'good' or 'success' of a circular model to look different when compared to a linear equivalent.





Delivering circular value



Introduction **Before starting**





Exercise 3.3

hypotheses

Generate pilot



Exercise 3.1 Outline circular pilot outcomes



Exercise 3.2 Prioritise and map circular journey scope



Exercise 3.4 Design pilot



Exercise 3.5 Define circular pilot measurement framework

Exercise 3.6

Capture risks,

assumptions,

dependencies

limitations, and



Exercise 3.7 Define circular pilot evaluation and improvement approach









Introduction

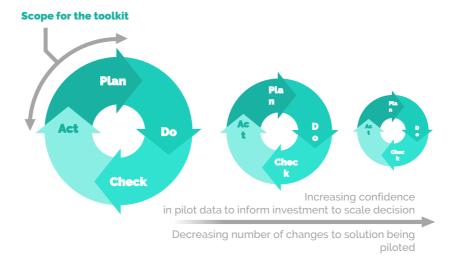
Before starting

Context

- Pilots are used when you are looking to roll out a solution. You want to test whether the solution will work in a real context to justify scaling or implementing it. Success for a pilot is when the solution being tested works as anticipated.
- Pilots differ from proof of concept or prototype work in that they aim to test a solution NOT an idea.
- You may have already carried out a POC or prototype where you tested an assumption or an idea in order to gain insights and improve it.

Method

Pilot activity should be viewed as several continuous, iterative "pilot sprints" where each sprint brings increasing confidence in the decision to scale, whilst the number of changes being made to the solution decreases:



Each pilot sprint comprises:

- Planning to outline what will be piloted and how it will be piloted
- Running the pilot for an agreed period of time as designed
- Evaluating pilot data to identify what has been learnt
- Acting on evaluated data to implement adjusted solutions

This toolkit focuses on the "Plan" phase of an initial pilot sprint which will define the scope for the pilot as well as considering how subsequent phases of the sprint will operate. The Plan phase is built using the 5Ws method³ to consider all aspects of the scope.

Expectations

Running a pilot is much more resource intensive than running a POC or prototype. Therefore, it's critical that before you begin a pilot:

- You confirm you have tested and validated ideas and assumptions quickly and cheaply through your design iterations
- You appropriately plan the pilot to make best use of the investment in order to provide the data you need (proportionally, you should expect that the first pilot sprint will take longer than future sprints due to the planning phase)





Circular pilot canvas

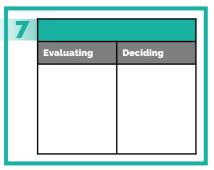
The seven exercises included in this section on Delivering Circular Value will build on each other to create the Circular Pilot Canvas. Each numbered section below relates to one of the seven exercises that follow:

4	Who	Where	When	:	Why					6	How
				Ш	What is the overa	rching reason that we are doing a pilo	t?		Ш		Risks
				Ш	We want to				Ш		
				Ш	Based on your ove	erarching reason what are the key que	stions you are trying	to answer about your design?	Ш		Assumptions
				Ш	Impact	Desirability questions	Impact	Feasibility questions	Ш		Limitations
				Ш					Ш		Limitations
				Ш	Impact	Viability questions	Impact	Circularity questions	Ш		Dependencies
				Ш					Ш		

3	What			1
	Intervention	Output	Outcome	
				1
				1
				1
]

Why		
Impac	t	

)	How								
	Metric	Measurement							



2 Key mo	ments of circularity			
Summa circular	ry of experience and r stakeholder jobs			
Interve	ntions and assumptions			



Outline circular pilot outcomes

Guidance | Template | Example



Exercise 3.1

Outline circular pilot outcomes

Context

The first step in designing an effective pilot for an optimised circular journey you want to test is to confirm the high-level outcomes for the pilot (the WHY). This should be carried out with key stakeholders across the initiative involved and will ensure everyone is aligned on what needs to be achieved by conducting the pilot. To prepare for successfully scaling, a pilot should be included in the Commercial Strategy so ensure representation in your pilot team. Also consider including partners or suppliers throughout defining the pilot scope to ensure their expectations are being met from the pilot as well.

Guidance

- 1. Discuss and agree the overarching reason for doing the pilot. Ask yourself:
 - What do you want to know after completing the pilot?
 - What do you want to be able to do after completing the pilot?
 - How do you want to **feel** after completing the pilot?
- 2. Confirm the impact you want your circular business model to have by reviewing your circular innovation scorecard from section 1 to remind yourself of the measures of success you wanted to track for your business case. These measures of success represent the impact you want to have with your circular business model and should be balanced across the innovation scorecard. Consider:
 - Has the high-level business case and associated circular innovation scorecard evolved in line with the work to design circular products and services?
 - Are relevant stakeholders and leadership on board with the latest business case? Do they agree with your understanding of what success looks like?

3. Discuss and agree questions you might have for your pilot. Consider:

- Using the innovation sweet spot as prompts for your discussion; identifying questions you have for each of the four categories
- Doing this using the innovation sweet spot can be a good way to set expectations with key stakeholders (particularly investment decision makers) about the differences between linear and circular pilots and align on early thoughts on what good looks like

What is the overarching reason that we are doing a pilot?

Based on your overarching reason what are the key questions you are trying to answer about your design?

What overall impact are you trying to have with your design?

Circular pilot canvas





Outline circular pilot outcomes

Guidance | Template | Example

Why			
What is the ov	verarching reason that we are doing	a pilot?	
We want to			
Based on you	r overarching reason, what are the k	ey questions you are t	trying to answer about your design?
Impact	Desirability questions	Impact	Feasibility questions
Impact	Viability questions	Impact	Circularity questions



Circular innovation: sweet spot





Outline circular pilot outcomes

Guidance | Template | Example

Why

Click anywhere in the header to return to

What is the overarching reason that we are doing a pilot? 1 We want to demonstrate that the circular experience we have designed is successful in a real environment, gathering compelling data to secure the funding we need to make this experience a reality for all of our customers. 2 Based on your overarching reason, what are the key questions you are trying to answer about your design? Impact **Desirability questions** Impact **Feasibility questions** • Will customers gain satisfaction **Customer is Minimal impact** • How much capacity does it take pilot. satisfied from our design? to roles/ to run our design? • Will customers actually capabilities • Are our people able to perform participate in the design? their roles in the design? • **Viability questions Circularity questions** Impact Impact Customers How much will it cost to run our Reduced • How many resources will we purchase easy design? packaging save through our design? carry kegs • Are our revenue assumptions • How much will our design the model is based on accurate? reduce energy? Lower GHG

Commentary

The overarching reason you articulate can be a good sense check of whether now is the right time to pilot. If your reason could be answered through a proof of concept or prototype, consider doing this first prior to expending unnecessary resource.

At this stage you haven't confirmed the pilot hypotheses and goals - these outcomes should remain fairly high level and the exercise shouldn't take too long to complete.

Here the overarching reason captures **what the team want to be able to do** after completing the pilot.



Guidance | Template | Example



Exercise 3.2

Prioritise and map circular journey scope (1 of 2)

Context

Once you are clear on the overarching reason for conducting a pilot and the questions that need answering, what actually needs to be piloted needs to be defined by evaluating; key moments of circularity, behavioural change interventions critical to success, and the 'minimum level of experience' required to deliver a meaningful pilot. Key moments of circularity are a great way to bring focus to your pilot scope as they highlight where the circle will break if the customer doesn't perform specific actions. However, it is important that your scope extends beyond these isolated moments and provides an 'end-to-end experience' from which the circular business model can be evaluated.

Guidance

- 1. Visually map out the key moments of circularity from your circular journey and stakeholder jobs that your pilot needs to bring to life. Include at a high level:
 - The optimised experience the key moments deliver
 - The required stakeholder jobs to enable the key moment
- 2. Review behavioural change interventions captured for your circular journey and stakeholder jobs and identify and add to the visual map priority decisions for inclusion in the pilot. Ask yourself:
 - **Criticality:** Which are critical to the success of the circular business model design? Which decisions have the biggest impact on the overarching circular business model?
 - **Confidence:** Which decisions do you have least confidence in? Which decisions have not been validated through early evaluative testing (e.g. proof of concept or prototype)?

You should include:

- Interventions that map to a key moment of circularity already identified (whether prioritised or not)
- Interventions that have been prioritised for the pilot

Good practice is to capture interventions and assumptions as the experience is being created and so this exercise is intended to prioritise those decisions and assumptions for testing and to be absolutely clear on where they map to the optimised experience and stakeholder jobs.

Circular pilot canvas



(continues overleaf)





Guidance | Template | Example



Exercise 3.2

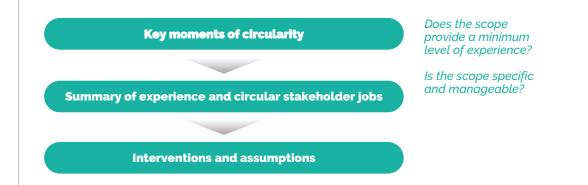
Prioritise and map circular journey scope (2 of 2)

Context

Once you are clear on the overarching reason for conducting a pilot and the questions that need answering, what actually needs to be piloted needs to be defined by evaluating; key moments of circularity, behavioural change interventions critical to success, and the 'minimum level of experience' required to deliver a meaningful pilot. Key moments of circularity are a great way to bring focus to your pilot scope as they highlight where the circle will break if the customer doesn't perform specific actions. However, it is important that your scope extends beyond these isolated moments and provides an 'end-to-end experience' from which the circular business model can be evaluated.

Guidance (continued)

- 3. Review the visual map and ensure the scope provides a minimum level of experience i.e. a meaningful end-to-end experience for the customer. Consider:
 - Does the selected scope together deliver an end-to-end experience for customers that meaningfully represents the circular journey in a real context?
 - Does the selected scope include the necessary stakeholder jobs to provide a meaningful representation of the demands on the business in a real context?
 - Are there any dependencies between the key moments, interventions, and elements of experience and stakeholder jobs that must be piloted together?
- 4. Review the visual map and confirm the scope you have defined for the pilot is specific and manageable. Ask yourself:
 - Are there any product selection decisions you need to make for the scope you want to pilot i.e. will all products be piloted?
 - Will the selected scope give insights that answer the questions you have about your design across the innovation sweet spot?
 - How big is the scope? e.g. number and size of key moments, interventions
 - Where the scope feels large, is there a way to break down the pilot into smaller, more manageable pilots? Is there any more rudimental testing that could be carried out to increase your confidence of any low confidence interventions?







Guidance | Template | Example

University [CLARASYS]

Key moments of circularity			
Summary of experience and circular stakeholder jobs			
Interventions and assumptions			

Note

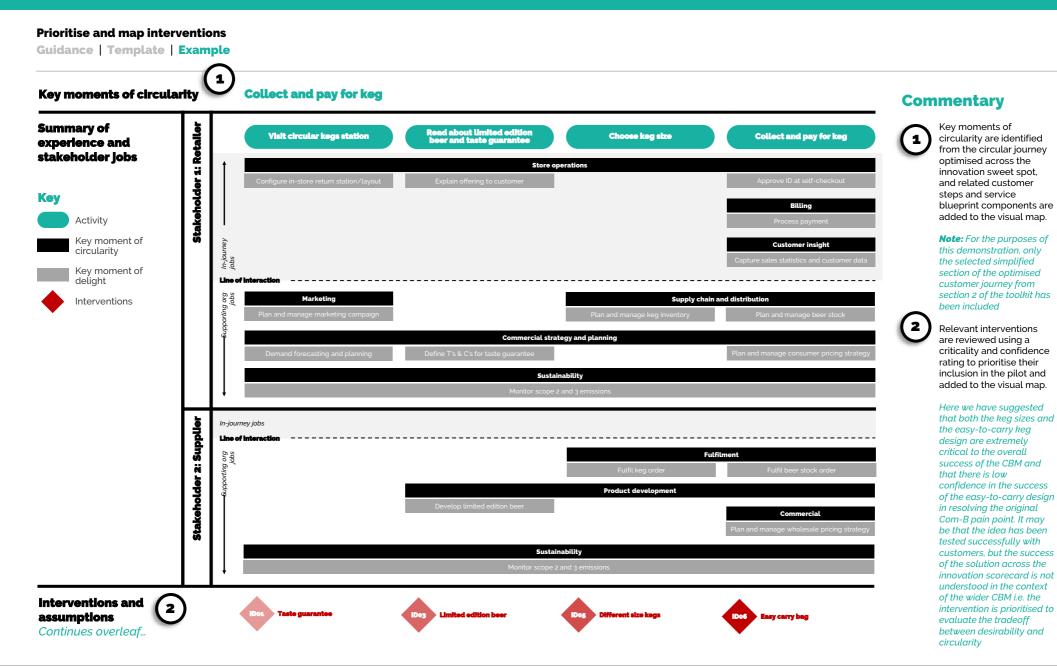
Interventions should be referenced from the optimised circular journey and circular stakeholder jobs in section 2





University

of Exeter





Guidance | Template | Example

Interventions and assumptions Continued

3

Solution prio	Solution prioritisation								
Key moment of circularity	Pain point (in priority order)	Intervention ID	Interventions	Priority (per pain point)	Assumptions	Criticality rating	Confidence rating	Pilot prioritisation	(
Fill keg	"I'm worried this won't taste as good as the beer I buy in a can"	ID01	Taste guarantee	1	A taste guarantee will assuage people's concerns around quality and give them the confidence that they are not compromising on taste by choosing the circular product.	Medium criticality	Medium confidence	4	
		ID03	Limited edition beers	2	The limited edition beers will motivate people to choose the circular product because they will be intrigued to taste the new flavour which will not be available to them through the linear product.	Medium criticality	High confidence	2	
Transport keg home	"This is too heavy to carry home"	ID05	Different size kegs	1	The different keg sizes will allow people who are concerned about weight of the keg to choose a lighter option that they can transport home more easily.	Extremely critical	Medium confidence	8	
		IDo6	Easy carry strap	2	The easy carry strap will help people to carry the keg more easily and will also allow them to save room in their bag, trolley or car for other shopping. The strap does involve increased material in the production of the product but this is offset by the benefit of enabling more people to engage with the circular service	Extremely critical	Low confidence	12	

Commentary

3

Given the use of the selected simplified section of the optimised customer journey from section 2 in this scenario, the outlined scope here does not deliver an end to end experience for customers. Nor does the service blueprint information fully capture the demands on the business and supplier in a real context. In practice, this scope would be expanded to meaningfully represents the circular journey and the service blueprint would be completed to a greater level of detail ahead of exploring a pilot.



Generate pilot hypotheses

Guidance | Template | Example



Exercise 3.3

Generate pilot hypotheses

Context

By clarifying the key moments of circularity and interventions your pilot needs to validate, you now have the foundation of your pilot scope (the WHAT). Before designing your pilot, you need to articulate clear, traceable hypotheses that will validate whether the circular business model you've developed delivers the impact you want to have. To do this, your hypotheses should be built; 1) working backwards from the impact and 2) working forwards from the interventions in your pilot scope.

Guidance

- **1.** Transfer the impact you captured in Exercise 1: Outline circular pilot outcomes to the final column of hypotheses
- 1. Using all the information you've gathered to date, build a series of pilot hypotheses forwards from each in-scope intervention detailing the output and the anticipated outcome. Consider:
 - Intervention: What are the specific activities and changes that will be implemented to go about realising the circular initiative? This should include detailed descriptions of what is being implemented and to whom. Interventions should include those designed in the circular journey to address pain points across the innovation sweet spot; desirability (e.g. behavioural change), feasibility (e.g. cost), viability (e.g. current organisational fit) and circularity (environmental credentials)
 - Output: What evidence will there be that the activities were performed as planned?
 - **Outcome:** What kinds of changes will come about as a direct or indirect effect of the activities? Outcomes should be articulated across the innovation sweet spot (see guidance below for prompts)
- 3. Once a mapping of interventions, outputs and outcomes is complete, review outcomes by building backwards from the impact column. Consider:
 - Will the outcomes you've identified from the forward working, deliver the impact you want your circular business model to have?
 - Are there any other outcomes you anticipated?
 - Are there unexpected outcomes that don't align to the overarching impact?

Note: The columns of this exercise aren't a one-to-one relationship i.e. many interventions together may result in an outcome being realised.



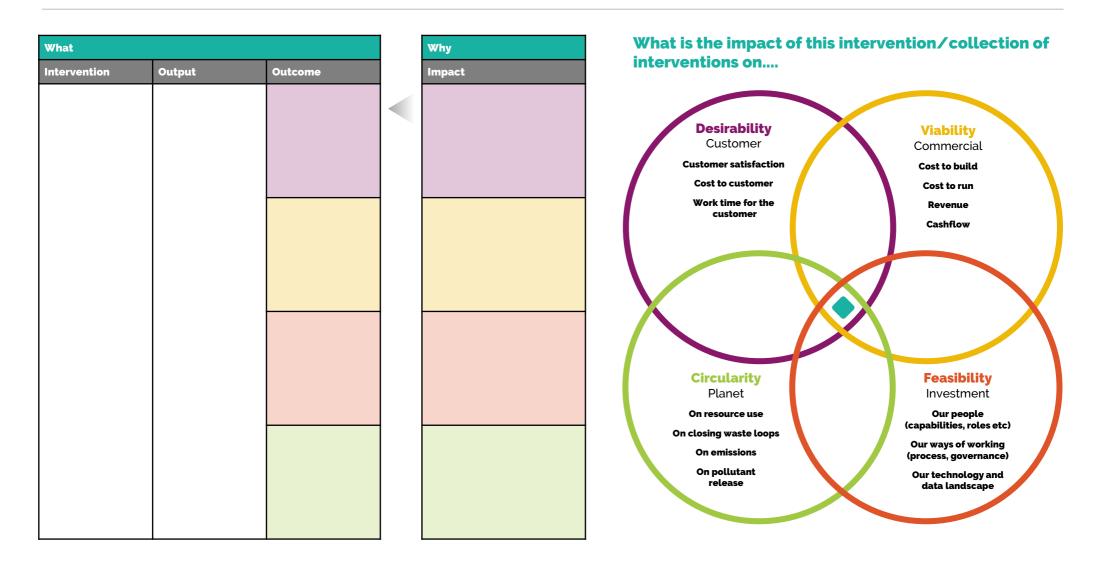
Circular pilot canvas





Generate pilot hypotheses

Guidance | Template | Example







Generate pilot hypotheses

Guidance | Template | Example

What			Why
Intervention	Output	Outcome	Impact
Provide an 'easy- to-carry' key that allows the customer to carry the keg 'hands free'	All customers will be able to carry all kegs 'hands free'	Customers find it easy to carry the keg home	Customer is satisfied
		Customer adopt non-easy carry kegs	Customers purchase easy carry kegs
		Customers return with the keg to collect another keg	Reduced packaging Lower GHG
		Current colleague roles and capabilities support the E2E easy carry keg journey	Minimal impact to roles/capabilities

Click anywhere in the header to return to the contents page for this section

Commentary

All interventions deemed in scope in the 'prioritise and map interventions' exercise should be included. The relationship between interventions, outputs, and outcomes is not 1:1 - many interventions may lead to a single output and set of outcomes. The user should challenge themself to think of outcomes across the innovation sweet spot for each intervention.

Note: This exercise uses only a single intervention to demonstrate and has not been completed in full



Design pilot

Guidance | Template | Example



Exercise 3.4

Design pilot

Context

Now you are clear on what you are trying to achieve (the WHY) and the scope of your pilot (the WHAT), you now need to work through who will participate, where it will take place and when it will happen (the WHO, WHERE and WHEN).

Guidance

Define detailed scope for your pilot. Consider:

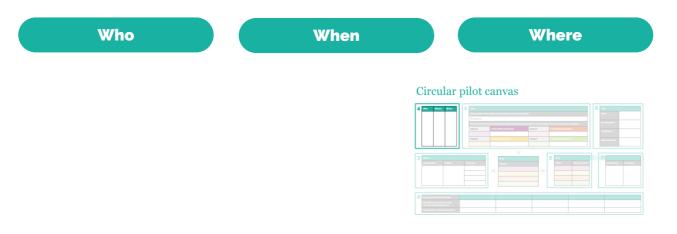
- Who: Who will be targeted in the pilot?
 - Which customer personas need to be included to allow for a meaningful interpretation of results?
 - Which interventions require validation with specific customer personas?
 - Which employee roles and teams need to be included to best represent a full-scale initiative?
 - How might you ensure meaningful representation whilst maintaining a manageable scope?

• Where: Where will the pilot take place?

- Does location have an influence on the customer persona?
- Is a single location sufficient to produce data that can be extrapolated to a full-scale model?

• When: When will the pilot start and finish?

- How long does the pilot need to run for to allow for meaningful data to be collected? (You may need to revisit this once metrics have been defined)
- How quickly can the pilot be operationalised?









Design pilot

Guidance | Template | Example

Who	When	Where





Design pilot

Guidance | Template | Example

University [CLARASYS]

Who	When	Where	Commentary
 Customer: All customer personas need to be included in the scope because the type of validation varies: Roy - validation that the keg design allows Roy to lift a heavy item (has a car) Sarah & Ethan - validation that the keg design allows Sarah and Ethan to transport the keg from supermarket to home (no car) Business: To validate the design will work at scale, interjourney jobs (i.e. supporting org jobs) must be accounted for but may need to be piloted differently to intra-journey jobs (i.e. those happening in the journey). For example, although the supplier's fulfilment stakeholder jobs take place outside the circular journey, they are critical to measuring the success of the CBM as the pilot needs to demonstrate how the distribution and reverse logistics network would be accommodated in the supplier's BAU operations whilst meeting outcomes across the innovation scorecard (i.e. is it desirable, viable, feasible, and circular?) 	 The pilot needs to be running long enough to launch and reach BAU (i.e. where there is no additional launch support such as marketing) The pilot needs to be running at BAU for long enough for customers' buying and return behaviours to be observed and influenced Once the keg design is finalised, anticipate 3-5 months to set up return stations and upskill teams 	 The pilot must run in multiple locations; Cover all personas to test desirability assumptions Include different store categories e.g. superstore, local concepts Include locations across the supply chain enabling the experience e.g. the distribution and reverse logistics network Provide element of scale to pilot and test viability, feasibility, and circularity assumptions 	 Who, When and Where are defined for the scope (the What) that has already been documented. You may find that working through this exercise prompts you to return to earlier exercises - this is fine, but remember to revisit the outcome with the project team. Note: exercise uses only a single intervention and identifies only a few considerations to demonstrate the thinking. It has not been completed in full. Here we've called out the difference in the validation we require from the 3 personas outlined because of the expected relationship between appeal and access to a car. This thinking might prompt the team to return and refine their desirability outcomes outlined in pilot hypotheses.



Guidance | Template | Example



Exercise 3.5

Define circular pilot measurement framework (1 of 2)

Context

You should by now have a full picture of why you are piloting, what you are trying to achieve, and the scope of your pilot (WHY, WHAT, WHEN, WHERE, WHO). You are now ready to start thinking through how you will know if the pilot is a success (HOW). Here, success means that the pilot data gives you sufficient evidence to address the overarching reason and questions you have for running the pilot and effectively builds the requirements for a go/no-go decision. This exercise builds on the expected outcomes you have already defined across the innovation sweet spot by articulating the specific metrics that will allow you to evaluate success against the impact you want to have.

CLARASYS

Guidance

- 1. Identify relevant, meaningful indicators for each of the outcomes you have already defined across the innovation sweet spot. Consider:
 - Level, breadth, and quality: How do you know you're measuring the right things?
 - Have you compared indicators to the overall impact? In some instances this may be one in the same, in others, component parts of the CBM will contribute to the overarching impact and the indicators should be defined as such.
 - Have you considered lead and lag indicators for the outcome you want to validate?
 - Have you represented each component of the innovation sweet spot with appropriate stakeholder input?
 - Do the indicators you've identified holistically measure the type of success you want to bring about? e.g. desirability metrics may centre around volume (how many customers) but 'how many' might not represent success for circular impact - for reuse 'how often' would be more important.
 - Triangulation: How will you mitigate against data limitations of relying on single source data? (<u>read</u> <u>more here</u>)
 - Have you considered multiple methods to study the same activity? i.e. consider multiple research approaches or sources (quantitative, expert opinion) in order to mitigate the limitations of one source of data
 - Have you considered multiple sources related to the same activity? i.e. a variety of metrics



(continues overleaf)



Guidance | Template | Example



Exercise 3.5

Define circular pilot measurement framework (2 of 2)

Context

You should by now have a full picture of why you are piloting, what you are trying to achieve and the scope of your pilot (WHY, WHAT, WHEN, WHERE, WHO). You are now ready to start thinking through how you will know if the pilot is a success (HOW). Here, success means that the pilot data gives you sufficient evidence to address the overarching reason and questions you have for running the pilot and effectively builds the requirements for a go/no-go decision. This exercise builds on the expected outcomes you have already defined across the innovation sweet spot by articulating the specific metrics that will allow you to evaluate success against the impact you want to have.

Guidance (continued)

- 2. Articulate and refine metrics for each of the indicators you've identified. Consider:
 - Baseline: What is the baseline measurement for this metric?
 - Does a baseline measurement exist for this metric? What is the baseline? (This may be more relevant for transformation from a linear model)
 - Is there a comparable metric (another internal initiative, external, industry) that might inform a baseline?
 - When do you expect target metrics to be achieved and are these realistic for circular pilots? (Some circular innovation metrics have a longer lead time to be realised)
 - Do you need to consider lead and lag indicators for the outcome you are trying to gather data on? (This is worth considering where a particular circular metric has a long lead time)
 - Target: What is the target measurement for this metric?
 - Are there specific goals or KPIs for the initiative (perhaps from the initial business case) for which these metrics are a key contributor? How does this influence the target measurement? What would the measurement need to be for the initiative to be a success?
 - Acceptance: What would be the range of accepted values for this metric?
 - What's the lower tolerance for the pilot to be deemed a success overall? (consider the balance of metrics as a whole)
 - What would be deemed a failure for this metric?
 - Alignment: Who is the audience for the pilot data?
 - Who are the decision makers on the 'success' of the pilot? Do they agree that the target metrics, if reached, demonstrate success?
 - Have expectations been set with stakeholders about the differences between linear and circular pilots?
- 3. Outline for each metric you've captured how measurement will take place. Consider:
 - How will measurement be taken? Who takes this measurement? Does this happen manually or is it automated?
 - When will the measurement be taken? (Frequency, timing)
 - Where will the measurement be taken? (Location considerations)





Guidance | Template | Example

When	Why
Outcome	Impact

How				
Metric	Measurement	Evaluating	Deciding	
		-		

Top Tip

This simple structure works well for ideation with the team, but you might want to consider documenting agreed indicators, metrics and measurement in a spreadsheet program (e.g. Google sheets, MS Excel etc) to allow you to group and organise multiple metrics being tracked across your pilot.



Guidance | Template | Example

When	Why		How A	2	0	Com
Outcome	Impact		Indicator	Metric	Measurement	\mathbf{O}
Customers find it easy to carry the keg home	Customers engage with the new role and behaviour required of them	h	Customer is satisfied Customer effort is	CSAT, CES		Q
Customers adopt non-easy carry kegs	Customers purchase easy carry kegs		reduced Customers purchase	Sales volumes,		
Customers return	We reduce our packaging waste		easy carry kegs	revenue		
with the keg to collect another keg	We lower our GHG emissions	┥└╼	 Customers return the easy carry keg time and time again 	Avg. no of returns per customer		
Current colleague roles & capabilities support the E2E easy carry keg journey	Minimal impact to roles/capabilities		Low number of new roles needed Low % change to existing roles	New hires Training hours		Here fo

Click anywhere in the header to return to the contents page for this section

Commentary

Indicators, metrics, and subsequent measurement should be defined for each of the outcomes you anticipate for your pilot. For some outcomes, the indicator may be one in the same as the overarching impact you have already defined, whereas for others there may be multiple component indicators contributing to the overarching impact

Here for the desirability outcome,

customers find it easy to carry the keg home, metrics are represented by not just the customer satisfaction, but also the reduction in effort expected due to the easy carry design and also by their willingness to re-engage with the model i.e. the number of times the customer performs the role required of them.



Capture risks, assumptions, limitations and dependencies

Guidance | Template | Example



Exercise 3.6

Capture risks, assumptions, limitations and dependencies

Context

Now you have a nearly complete view of the pilot itself as well as how you intend to measure success, it's time to think through potential stumbling blocks. This will allow you to proactively put action in place by iterating the pilot design to avoid later issues.

Guidance

Capture risks, assumptions and limitations for your pilot by reviewing your pilot canvas. Consider:

- Risks: What events could have an adverse impact on the success of the pilot if they were to occur?
- Assumptions: What things do you assume are in place that contribute to the success of the project?
- Limitations: What decisions about scaling the circular journey and stakeholder jobs will the pilot NOT allow you to make?
- **Dependencies:** What inputs (projects/activity) are you reliant on for the success of the pilot? What benefactors (projects/activity) rely on the success of the pilot?

Note: In particular, you should consider the system or infrastructure risks, assumptions, limitation and dependencies for this circular offering as most products and services are still delivered through linear value chains. e.g. tax incentives, policy, distribution and logistic networks etc.

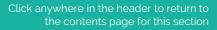
Consider actions you could take to reduce the impact of the risks, assumptions and limitations you've captured. Consider:

- **Risks:** Will you accept or mitigate against the risk? What mitigation options are available to you?
- Assumptions: How much confidence do you have that your assumptions are in true? What could you do to validate this?
 - Limitations: What options do you have to modify the pilot and obtain the data you require to answer the overarching questions you have?
- **Dependencies:** How can you confirm the inputs you are reliant on occur as required? What do you need in place to monitor and manage incoming and outgoing dependencies?

Revisit your pilot design and make changes based on any actions you prioritise.







Capture risks, assumptions, limitations and dependencies

Guidance | Template | Example

How	
Risks	
Assumptions	
Limitations	
Dependencies	

Top Tip

This simple structure works well for ideation with the team, but similarly to a conventional RAID log you might want to consider documenting in a spreadsheet program (e.g. Google Sheets, Microsoft Excel) to allow you to review, add status to each item and continuously review throughout the pilot itself.



Capture risks, assumptions, limitations and dependencies

Guidance | Template | Example

How		Commentary
Risks	There is a risk that the pilot won't fully demonstrate the environmental performance of the circular model vs the linear model because it won't be possible to optimise the distribution and reverse logistics of the model at pilot scale	Risks, assumptions dependencies are
Assumptions	 We assume that the cost to run the new circular business model will reduce over time as we achieve economies of scale We assume that there will be a drop-off from customers who instantly engage with the mode 	effectiveness of th desired outcomes exercise prompts r
Limitations	Duration of the pilot to evaluate:	 the design, consider assess the impact
	 Long-term purchasing and return behaviours of customers Financial success of pilot due to economies of scale 	Note: Exercise der considerations – re
	Return and refill logistics to evaluate:	much more compr
	 Environmental performance of the distribution and reverse logistics network Operational viability of the distribution and reverse logistics network 	Here we've called o environmental perf
Dependencies	There is a dependency on establishing:	limitations articulat distribution and rev
	 Return stations within store locations selected Collection for refill from store locations Refill locations in reverse logistics network 	a risk would require the pilot might be a data for the perform
	This will require close collaboration with the retailer to implement.	



ns, limitations, and re captured for the the pilot in achieving the es **NOT** the design itself. If this risks, assumptions etc for ider revisiting section 2 to ct of these.

emonstrates only a handful of real-life scenario would be prehensive

out a risk related to erformance. This is linked to the lated relating to the everse logistics network. Such ire the team to consider how able to provide indicative ormance of the model at scale.



Define Circular Pilot Evaluation & Improvement Approach

Guidance | Template | Example



Exercise 3.7

Define circular pilot evaluation and improvement approach

Context

The final stage in preparing your pilot design ready to operationalise is to plan for the evaluation and decision making of your pilot data. This will ensure you have agreed actions in place for insights that are gathered throughout the pilot; iterating the pilot, gathering more data, or acknowledging for the end of the pilot.

Guidance

- . Outline how the data collected through the pilot will be analysed and insights produced. Ask yourself:
 - What information and reporting requirements do you have for the pilot data? (dashboards etc)
 - Who will analyse and produce insights for the data?
 - Are specific skills/knowledge needed to be able to produce insights?
 - Does responsibility sit with multiple roles/teams for analysing data?
 - Who will have oversight of the data being evaluated as a whole?
 - How often should data from the pilot be reviewed? (daily, weekly, monthly)

2. Outline how the insights produced from pilot data will be reviewed and inform decisions. Ask yourself:

• Throughout the pilot:

- Who needs to be involved in reviewing insights and making decisions throughout the pilot?
- When and how often will this group meet to review insights?
- How will decisions be made? Take a look at the decision-making guide below as an example.
- How will the requirements set in "Define measurement" be iterated during the pilot? i.e. will the measure of success change?

• At the end of the pilot:

- Have the requirements set in "Define measurement" been iterated at all during the pilot?
- Who needs to be involved in reviewing pilot outputs and making decisions on go/no-go?
- What are the next steps for either a go or no-go decision to ensure continued momentum?







Define Circular Pilot Evaluation & Improvement Approach

Guidance | Template | Example

How	
Evaluating	Deciding





Define Circular Pilot Evaluation & Improvement Approach

Guidance | Template | Example

How						
Evaluating	Deciding					
 Commercial propositions will have oversight of the pilot outputs as a whole 	• We will hold a monthly pilot review with representation across functions as well as including the retailer					
 Daily/weekly/monthly dashboard of pilot metrics (e.g. sales, CSAT, returns, etc.) required 	• We'll make de following dec		bservations from the data based on the			
 Retailer responsible for collecting and sharing this data with supplier. Commercial propositions pilot team responsible for analysis and insights produced from the data 			Size of devia deviation fro			
			High	Medium	Low	
	The We know deviation is in our control deviation		Make change	s in pilot		
		We don't know what is causing the deviation	Investigate fu	ırther	Deprioritise	
	The deviation control	n is out of our	Wait to review at the end of pilot			

Commentary

Roles and responsibilities for the evaluation and decision making of pilot data is captured across the stakeholder groups involved in delivering the circular pilot experience.

Note: exercise demonstrates only a handful of considerations – real-life scenario would be much more comprehensive





Conclusion and next steps

This CX/CE toolkit is a blueprint for engaging customers in a circular economy

There are three things we'd suggest are critical for success in engaging your customers in circular designs:

- **1.** Be intentional about the circular value proposition to your customers from the outset
- 2. Design for the behavioural change needed from your customers
- Evolve both your expectations and methods of evaluating success of a circular business model when compared to a linear business model through piloting

Next steps

We are excited to continue to support organisations in accelerating their transition towards a circular economy. We hope you have found this CX/CE toolkit helpful and would love to hear your feedback and offer you support on your circular journey.

For more information or to speak with our team please contact us at sustainability@clarasys.com





About us [clarasys]

Clarasys

Our mission at Clarasys is to help our clients tackle their toughest business challenges, helping them transform their organisations. In this digital, data age, everyone expects the best experience – at work, as a citizen, as a business partner, and as a customer. We think they should have it.

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We are The Experience Consultancy.





The Exeter Centre for Circular Economy

The Exeter Centre for Circular Economy (ECCE) was formally launched in September 2018 by <u>Dame Ellen MacArthur</u>. ECCE is a new research centre comprising staff based in three locations, Streatham, Penryn and London. We are a multi-disciplinary team composed of economists, engineers, designers, sociologists, management academics, and practitioners.

Our vision is 'to be the leading UK centre for Circular Economy engaging in innovative research, knowledge transfer and executive education projects. We engage in projects that develop Circular Economy theory and practice designed to transform our economy, creating regenerative wealth and well-being'.

For more information or to speak with our team please contact us at sustainability@clarasys.com

A special thanks to all the authors and contributors to this toolkit: Harriet Shelton, Loic Le Fouest, Jacob Brockmann and Sam Maguire from Clarasys and Dr Merryn Haines-Gadd, Nellie Salter, Dr Zaneta Muranko and Prof Fiona Charnley from the University of Exeter





Find out more

For the past year, Clarasys and Exeter University's Centre for Circular Economy have been committed to getting under the skin of the issues and complexities around engaging customers in the circular economy.

We have engaged with leading organisations in the food and beverage, consumer goods, and retail sectors to gain a wide understanding of the challenges faced. As such, we have been able to gain a huge amount of insight and create tools and thinking that we feel will help organisations navigate their way through this complex landscape.

You can explore these resources for yourself on our <u>Customer Experience in a</u> <u>Circular Economy page</u>. We hope you find them useful.



Your feedback is really important to help us shape the toolkit's ongoing development. Please complete our short <u>feedback form</u> or get in touch directly.





Podcast: Circular initiatives: Should firms be incorporating customer experience

We chat with Dr Merryn Haines-Gadd, Research Fellow at the Exeter Centre for Circular Economy, to discuss what customer experience means in a circular world.

CX is critical to successful adoption of circular products and services

Learn how to future-proof your business by considering your customers' experience when adopting circular products and services.



Engaging Customers in a Circular Economy — why we undertook the research

Preliminary literature review findings of Customer Experience in the Circular Economy

Debunk convenience to get the circular economy moving

Understanding the concept of convenience is the key to successfully engaging customers in a circular economy...

Engaging Customers in a Circular Economy - Report

Upcoming research report, discussing our most recent findings.



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References and useful links

Section 1: Exploring circular value

- 1. <u>Value Proposition Design</u>: how to create products and services customers want
- 2. <u>Circular Canvas: Tool to Design Circular Business Models</u>
- 3. The Circular Design Guide: Find circular opportunities
- 4. Business Models for the Circular Economy (chapter 2)
- 5. This is service design doing: Co-creating Personas

Section 2: Designing circular products and services

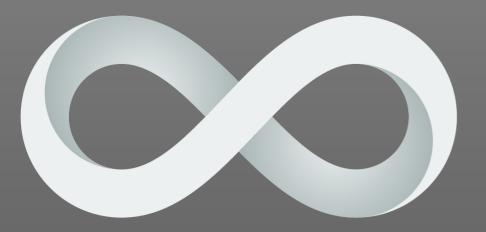
- 1. <u>COM-B framework</u>: explains the COM-B model for behaviour change in further detail
- 2. Emotional durability design nine: website from one of our toolkit co-creators that provides further background on this tool
- 3. Circular Design Guide: toolkit from IDEO and the Ellen Macarthur Foundation which applies a product lens to circular design
- 4. Crazy 8's: guidance for the Crazy 8's ideation method

Section 3: Delivering circular value:

- 1. <u>Circular Business Model Plan from Circular X:</u> Provides some useful prompts for operationalisation of a pilot.
- 2. Principles of triangulation: Diversifying user research methods by considering multiple ways of collecting and interpreting data.
- 3. The five Ws method: Exploring a problem from multiple aspects during project initiation.









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