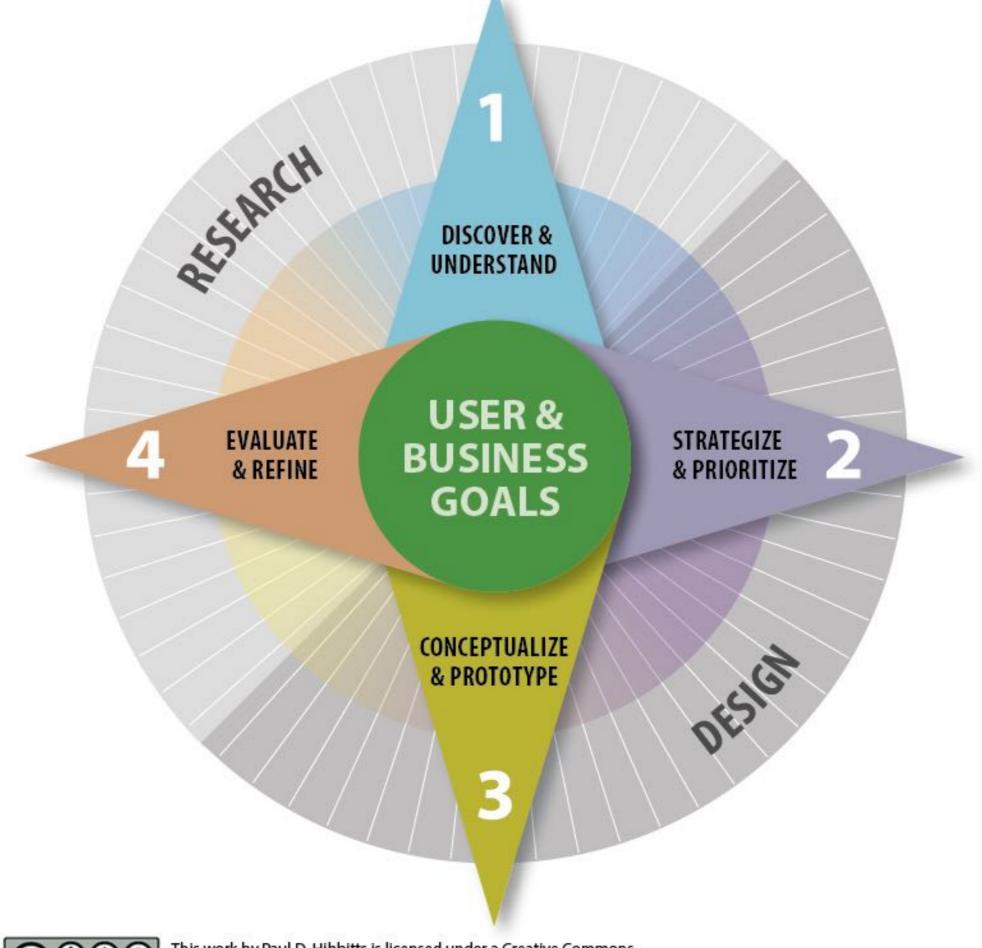
Strategic UX Design

CMPT 363

"The idea is to focus development not only on the UX, but what the UX enables, and—most crucially—what we want to happen after the UX."

— Kathy Sierra

How to make more strategic design decisions?





Topics to Explore

- 1. User Experience Strategy
- 2. Current State and Future State
- 3. Journey Mapping

How to make more strategic design decisions?

User Experience Strategy



https://www.youtube.com/watch?v=4r3QvqPwgPU

What is the difference between tactics and strategy?

Tactics vs. Strategy

Tactic

- Shorter term
- To meet a specific product/project need
- Sub-set of available resources
- The 'How', in the form of a plan

Tactics vs. Strategy

Strategy

- Longer term
- To meet broad organizational needs
- Full set of available resources
- The 'What', in the form of a system

Problem	Solution	Unique V		Unfair Advantage	Customer
Top 3 problems	Top 3 features	Proposition Single, clear, compelling message that states why you are different and		Can't be easily copied or bought	Segments Target customers
	Key Metrics Key activities you measure	attention	ng	Channels Path to customers	
Cost Structure Customer Acquisition Costs Distribution Costs Hosting People, etc.			Revenue Model Life Time Value Revenue Gross Margin		

PRODUCT

MARKET

What are core strategy questions?

What are core strategy questions? (by Joe Natoli)

- 1. What is worth doing?
- 2. What are we creating?
- 3. What value does it deliver? (end-user needs and organizational objectives)

Business Strategic Priorities



Increase Revenue



Decrease Costs



Increase New Business



Increase Existing Business



Increase Shareholder Value

Problem Statement

A brief description of the issue that needs to be solved by a project or group

Sample Problem Statement Format, by Jeff Gothelf

[Our service/product] was designed to achieve [goals]. We have observed that the service/product isn't meeting [these goals], which is causing [this adverse effect] to our business. How might we improve [service/product] so that our customers are more successful based on [these measurable criteria]?

Preferred Problem Statement Format (source unknown)

[Stakeholder] needs a way to [need] because [insight].

Grav Open Course Hub Project Examples

Example #1: Educators need a means to use and provide educational materials outside their LMS to reach their pedagogical goals while still keeping sensitive student data within their LMS.

Example #2: Students need a way to more quickly and easily access all required educational materials so their time online is not wasted by needing to navigate between multiple websites.

A Good Problem Statement is:

- ✓ Human-centered
- √ Has one objective
- ✓ Provides creative latitude
- √ Manageable in scope
- ✓ Not a solution itself

A Good Problem Statement is:

- ✓ Human-centered
- √ Has one objective
- ✓ Provides creative latitude
- √ Manageable in scope
- ✓ Not a solution itself
- ... but what about ethical considerations?

CONSIDERATIONS

POSITIVE NEED

NEGATIVE COLLATERAL

making a connecting creating a fun discriminating exploiting making people task easier people anyone? against anyone? experience dependent? pushing out a helping a group putting down spreading magnifying spreading useful tool social issues? another group? of people information lies?

Methods Helpful in Defining Problem Statements

- Observation
- Exploring PoV (Points of View)
- Asking Why?

A Caveat about Asking "Why"

A Caveat about Asking "Why"

Asking someone "Why" they do something can make them feel defensive, so sometimes alternative phrasing is better such as asking something like "What was your intention in doing that?"

Activity: Problem Statement

GROUPS OF 2-3

Draft an example problem statement regarding the SFU Library, where the stakeholder is "students"

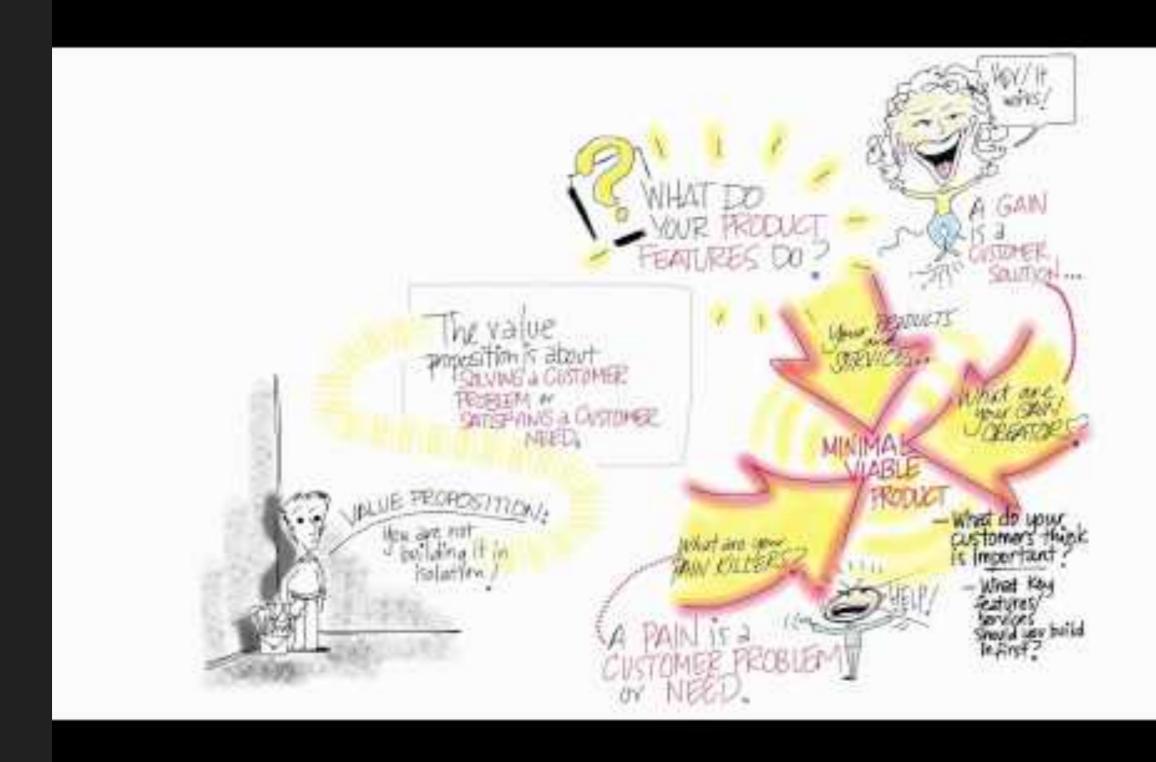
[Stakeholder] needs a way to [need] because [insight].

A good problem statement is:

- √ Human-centered
- √ Has one objective
- √ Provides creative latitude
- √ Manageable in scope
- √ Not a solution itself

Value Proposition (often called unique value proposition)

A brief statement that captures why a consumer would buy or use a product/service.



https://www.youtube.com/watch?v=OkdEB8L2IeM

Preferred Value Proposition Format (source: Steve Blank)

We help [X] do [Y] doing [Z]

For example: The Grav Open Course Hub project helps tech-savvy instructors to reach unmet pedagogical and student experience goals by partnering a modern open platform with their current LMS.

A Good Value Proposition is:

- √ States target audience
- ✓ Highlights the benefit
- ✓ Includes the solution
- √ Element(s) of uniqueness
- √ Is up to date

What about open source software?

"You don't make money with open-source, you make money because of open-source."

— Doc Searls

The top 1-3 problems

you want to solve

Solution

Product

Outline your proposed

solution for each

Problem

Project Execution

A clear message that states what you offer and why you are different.

Unique Value Proposition

	problem	The main problem you are solving The finished story and benefits users will have by using your product Example: Square - start accepting credit cards today			
	Key Metrics How will you measure success?	User Profiles Target audience and early adopters Who are you building this for? Who will your early adopters be?	User Channels List how you will gain new users		
Resources Required What do you need to build an MVP (minimum viable product)? Design, Development, Expertise, Hardware requirements and other costs		Contributor Profiles Contribution types and ideal contributors What do your contributors look like? Be sure to include the different expertise you outline in "Resources Required"	Contributor Channels List how you will gain new contributors		

Can be derived from:

Your users and contributors will likely overlap

Community

How to make more strategic design decisions?

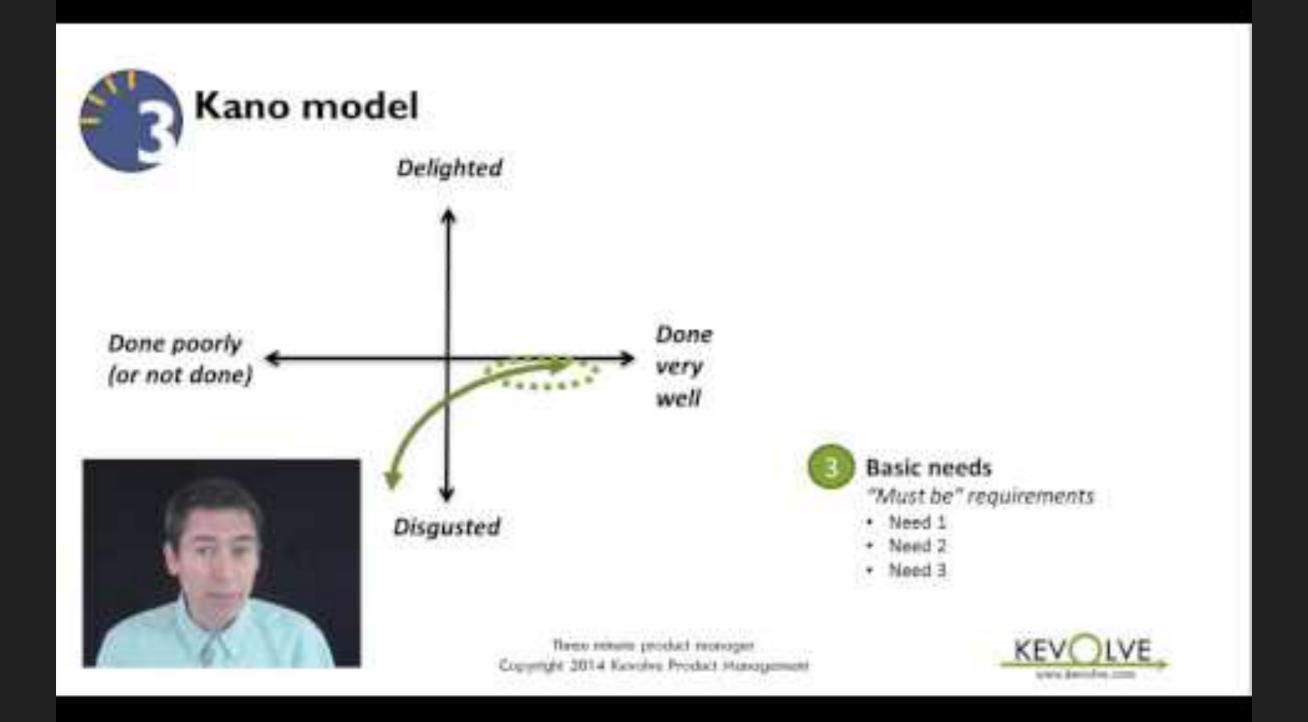
Current State and Future State

Assessing Current State

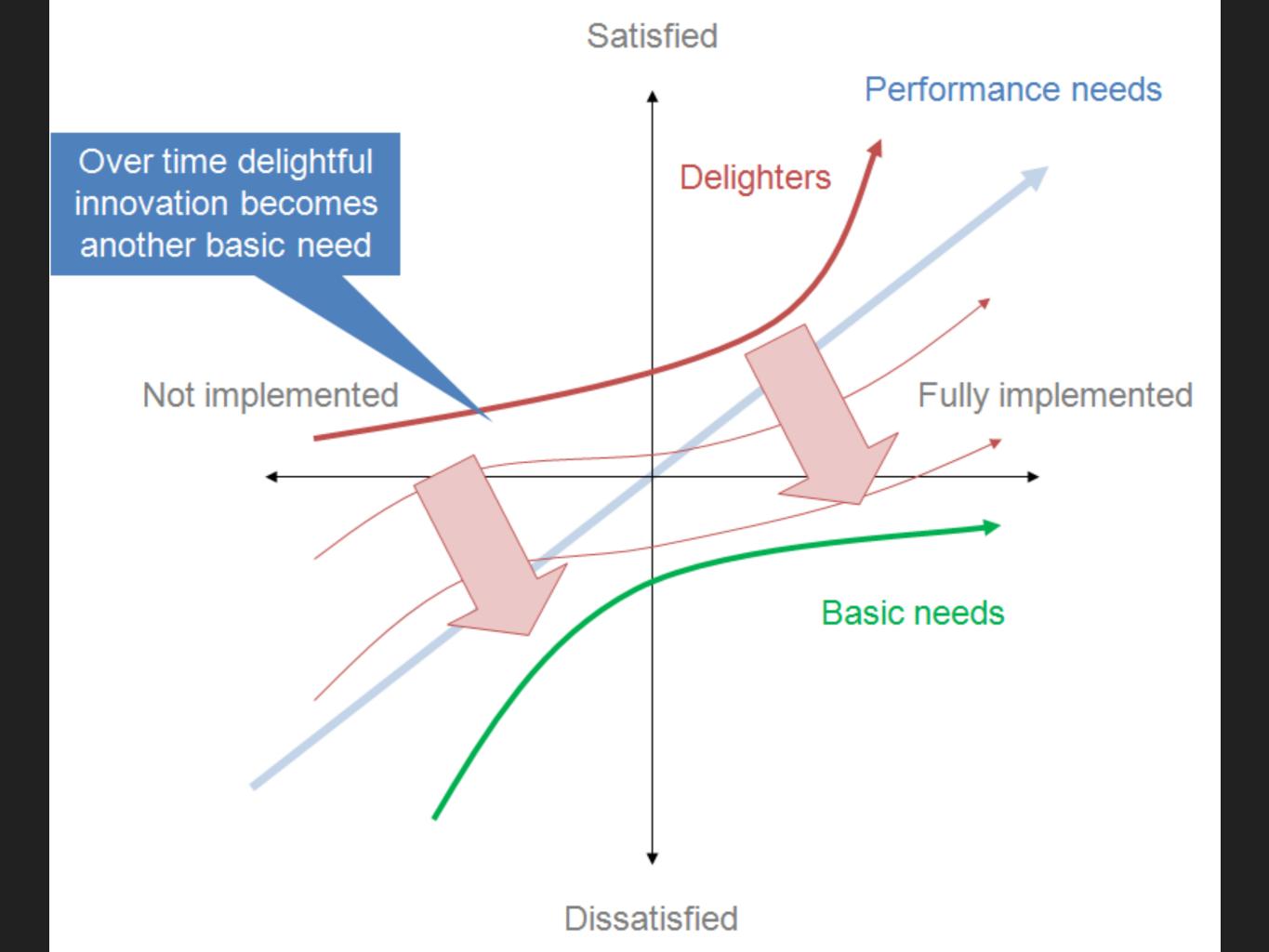
- Kano Model
- Journey Maps

Kano Model

Developed by Professor Noriaki Kano in the 1980s, the Kano Model can help predict customer satisfaction



https://www.youtube.com/watch?v=iuOrEIBVQX4



Kano Question Pair

Functional Form "How do you feel if you had this feature?"

Dysfunctional Form "How do you feel if you did not have this feature?"

- I like it
- I expect it
- I am neutral
- I can tolerate it
- I dislike it

CUSTOMER RESPONSES

Negative Question

	LIKE	EXPECT	NEUTRAL	TOLERATE	DISLIKE
LIKE	-	Attractive	Attractive	Attractive	One Dimensional
EXPECT	Undesired	Unimportant	Unimportant	Unimportant	Must-be
NEUTRAL	Undesired	Unimportant	Unimportant	Unimportant	Must-be
TOLERATE	Undesired	Unimportant	Unimportant	Unimportant	Must-be
DISLIKE	Undesired	Undesired	Undesired	Undesired	82

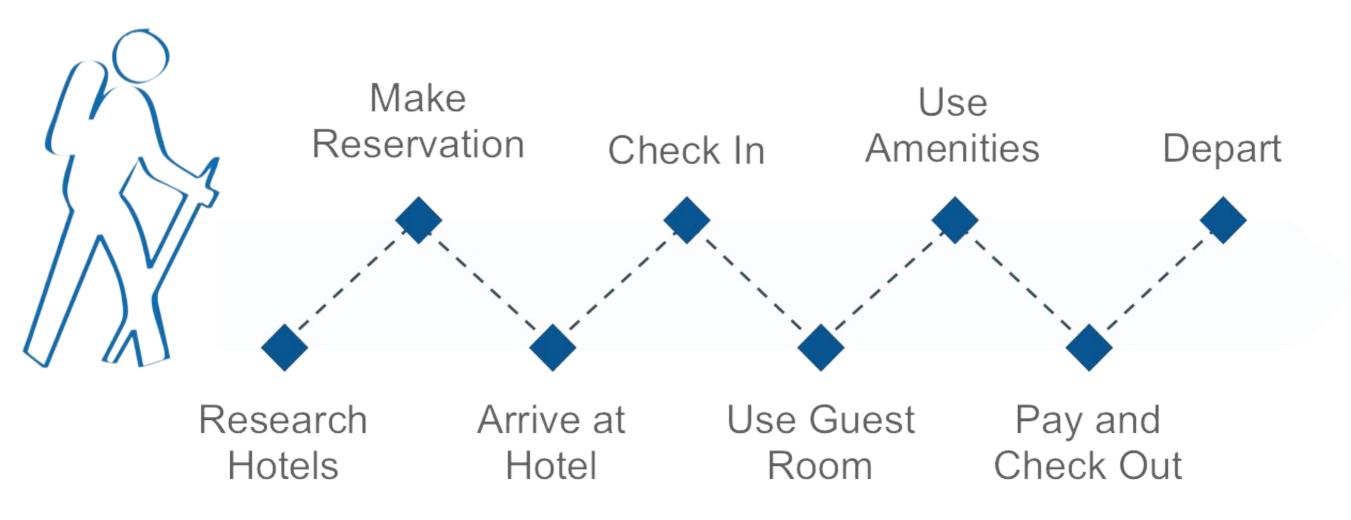
Positive Question

Journey Maps

A timeline-based view of a user's experience, which can be represented in varying levels of detail

Aspects of experience

- Holistic
- Personal
- Situational



© 2013 Medallia, Inc.

The South Mall Visitor Journey SUMMARY OF VISITOR MOMENTS







https://www.youtube.com/watch?v=SFoofPCDgTg

Imagining Future State

- User Stories
- Product Design Principles

Harnessing User Stories

What is a User Story?

At its core, a user story is a *collaborative design tool* that helps teams better view their product from the perspective of those who will actually use it.

(Agile) User Story Structure

As a **role**,

I want to **goal/desire**so that **benefit**

User Stories for Agile

When used within an Agile approach, story size is often dictated by sprint length

Example Agile User Stories

As a Central Canadian Bank customer, I want to register for an online account so that I can pay my bills online.

As a Central Canadian Bank customer, I want to log into my online account so that I can pay my bills online.

As a Central Canadian Bank customer, I want to manage the details of my account so that I can pay my bills online.

User Stories for Requirements

- Includes reaching the user's goal
- User plays a central role
- No interface assumptions are stated
- Can be linked to usage importance and frequency
- Can be initially fairly broad in nature (esp. for strategic usage)

Example High-level User Stories

As a Central Canadian Bank customer, I want to withdrawal funds from an ATM so that I have the cash I need on hand.

As a Central Canadian Bank customer, I want to transfer funds from one account to another so that I have the funds to cover a large cheque.

Activity: High-level User Story

GROUPS OF 2-3

What might be a high-level user story for SFU's Library Website?

As a **role**,

I want to **goal/desire**so that **benefit**

- √ Includes reaching the user's goal
- √ User plays a central role
- √ No interface assumptions are stated
- √ Can be linked to usage importance and frequency.
- √ Can be initially fairly broad in nature (esp. for strategic usage)

Product Design Principles

Unlike generic design principles (i.e. 'easy to use'), product design principles are a set of design principles specific to a particular product or service

Windows UX Design Principles

- Reduce concepts to increase confidence
- Small things matter, good and bad
- Be great at "look" and "do"
- Solve distractions, not discoverability
- UX before knobs and questions
- Personalization, not customization
- Value the life cycle of the experience
- Time matters, so build for people on the go

HTC Sense's Design Principles:

- Make it Mine: personalization needs to reach a level never before possible.
- Stay Close: staying in touch with the people in your life means managing a variety of communication channels and applications.
- Discover the Unexpected: many of the most memorable moments in your life are experienced, not explained

Defining Product Design Principles

- Based on user research/knowledge
- More specific, less generic
- Easily memorized/internalized
- Encompassing broad aspects of the product
- Shared/distributed far beyond UX team

How to make more strategic design decisions?

Journey Mapping

Why Use Journey Maps?

- To visualize the entire experience
- To help build empathy
- To identify areas for improvement
- To create alignment among multiple stakeholders/ teams
- To make better design decisions

Key Aspects of Journey Maps

- Represents one viewpoint
- Communicates the user's perceptions
- Based on actual user research
- Contains "moments of truth"
- Must be actionable (i.e. help inform design decisions)

Creating Journey Maps

Common Elements

- Phases of journey
- Goals or needs (1 or more per phase)
- Touchpoints (1 or more per phase)
- Actions (1 or more per phase)
- Emotions and thoughts (1 or more per phase)
- Ideas for improvements (1 or more per phase)

Website Customer Journey Analysis For SaaS Business

Search	Evaluate	Experiment	Purchase	Retain	
are they originating	ding you? Where solution? How do		What are the steps to payment? Do customers start with a free trial period?	How do customers get ongoing support?	
		Customer goals		All controls	
Locate a solution	Asses if this solution is the best option/fit for needs	Decide if this solution is worth paying for	Get access to all features and benefits according to chosen plan	Get ongoing support and customer service when needed	
		Touchpoints			
Google	Case studies	Trial registration	Cart page	Help pages	
Twitter	FAQ page	Account creation	Checkout	Customer support contact	
LinkedIn	Pricing page	Product tour			
	Blog posts		Cite specific you're ready recommenda testing.	to make	

Rail Europe Touchpoints by Channel

Sta	Researc age & Plann		Shopping	Booking	Pre-Travel (Documents)	Travel	Post-Travel
Channels	(0	\longrightarrow	1	0	0
Website	Maps Test intinerar Timetables Destination P FAQ General prod & site explora	ages	Schedule look-up Price look-up Multi-city look-up Pass comparison	Web booking funnel - Pass - Trips - Multiple Trips	Select document option (from available options) - station e-ticket - home print e-ticket - mail ticket	Contact page for email or phone	
Call Center	Order brochu Planning (Pro Schedules General ques	ducts)	Site navigation help	Automated booking payment Cust. Rep booking Site navigation help	Call re: ticket options Request ticket mailed Reslove problems (info, pay- ment, etc.)	Call with questions regarding tickets General calls re: schedules, strikes, documents	
Mobile	Trip ideas		Schedules	Mobile trip booking		Access itinerary Look up schedules Buy additional tickets	
Communication Channels (social media, email, chat	Chat for web	nav help	FB Comparator Email questions Chat for website nav help	Chat for booking support	Email confirmations Email for general help Hold ticket	Ask questions or resolve prob- lems re: schedules and tickets	Complaints or compliments Survey
Customer Relation	s						Request for refund, escelation from call center.
Non-REI Channels	Trip Advisor Travel blogs Social Media General Goog searching	gle	Airline comparison Kayak Direct rail sites	Expedia		Travel Blogs Direct rail sites Google searches	Trip Advisor Review sites Facebook

Rail Europe Experience Map

Guiding Principles

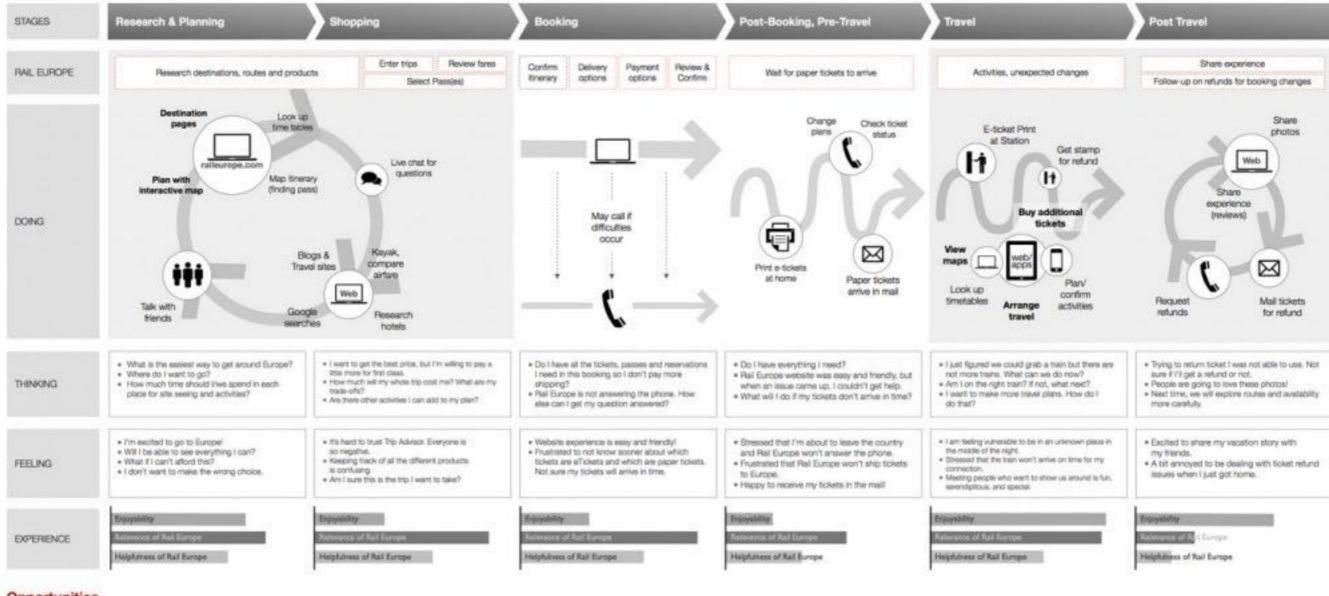
People choose rail travel because it is convenient, easy, and flexible.

Rail booking is only one part of people's larger travel process.

People build their travel plans over time.

People value service that is respectful, effective and personable.

Customer Journey



Opportunities



Information sources

Stakeholder interviews Cognitive walkthroughs Customer Experience Survey Existing Rail Europe Documentation









Dylan

Tech Writer Brooklyn NY GOALS -Open a joint savings or checking account. Manage and transfer funds online CHALLENGES- Not having money set aside for vacations and special needs

"I want to do everything online!"



Stage: 01 Consider Needs

Stage: 02 Discovery/Research

Stage: 03 Shop/Sign-Up

Stage: 04 Set-Up Payees Stage: 05 Manage Bills/Transfer Stage: 06 Learn/Become Advocate



· I want to open a joint bank account with my future wife to start saving for a house.

.....7

- · I want to open a bank account so that I can contribute to an IRA
- · I want to evaluate/compare the costs of account services.
- · I want to know the nearest branches with ATMs.
- I want to sign-up for an account online.

----->

- . I want to sign-up at a branch so that I may confirm/get sold on advantages.
- · I want an easy to setup a recurring payment.

·····>

- · I want to know the number of pending payments so that I won't incur finance charges
- · I want to manage and view my account balances.
- · I want to send a one-time payment.
- I want a debit card with my local team or mascot.
- · I want a replacement debit card rushed to me so that I may use it on my upcoming vacation

Opportunity

Targeted leads by area/state

- · Focus on key account service information first then provide deeper dives e.g. No ATM fees
- · Branch locations (proximity) at a universal navigation location
- Online sign-up enables 24/7 account creation
- · Payees/payments in one place
- · No checks to order (save a stamp)
- Transfer funds (person to person, bank to bank) through email
- Marketing information continues to give me the latest on how to avoid fees
- New personalized credit/debit · New overdraft protection
- services

Challenges

Are questions for new and existing customers addressed e.g. Is bad credit a problem to open an account?

- · Where is the high level account comparison information?
- · There are so many navigation options . . . where do I begin?
- Assuring Identity theft / online sensitive users safety is addressed in branch or online.
- · What if I have questions during this online sign-up process?
- · Assuring identity theft/online sensitivity to users is addressed.
- · Seniors may need hand holding during first time setup, what are their options for assistance?

Go to branch for large amounts for complicated transfer

Failure to create learning materials/e-newsletters to speak to changing benefits or extra fees for transactions, e.g. outgoing wire-transfers at branch vs. online fees

Touchpoints

- Mobile (Fiends & Family) Advice)
- TV & Media
- · Ads

- Mobile
- · PC or Tablet

- Mobile (Assistance Only)
- · PC or Tablet
- · Branch

- Mobile
- · PC or Tablet
- Branch

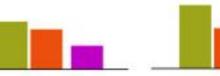
- Mobile
- · PC or Tablet
- · Branch

- · Email (Promotional)
- · PC or Tablet (Personalized Pushed Info)

Experience







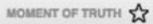






Journey Map Wealth Management

Stages	Research	Evaluate and Compare	Commit	Use and Monitor	Refine and Review
Goals	Decide on a service/ account which works best for me	Learn about services/account options at current and competitor banks.	Open my account with the selected firm	Grow my investment account	Easily adjust investment approach as needed
Activities / Touchpoints	Ask for advice or recommendation from family and friends	Make an appointment with an FA	Contact FA and finalize investment plan	Receive check in calls from FA	Meet with FA to review account performance against investment plan to ensure its on track
	Research investment services/account options at current and other banks	Meet FA to discuss needs, goals and dreams	Receive and review investment plan from FA	Manage and monitor ☆ the account	Meet with FA to refine investment approach if a life
	Meet with my current	Receive and review investment plan from FA	Receive application approval	Receive monthly account statements/notices	event has occurred Receive refined
	banker <u>m</u>	Compare investment plans gathered from several FA appointments	Transfer funds from different accounts	Call FA when I don't understand something about my account	investment approach for approval
		Look up FA references and credentials online	Meet with FA to walkthrough the account set-up and services	activity/statements	refined investment approach
Opportunities	Provide jargon free wealth management information or links within the info to definitions of the terms being	Pre-qualifier questionnaire provides customer with time to think through their goals, needs, etc. prior to the	Account application is pre- populated based on questions asked at preliminary FA meeting	Ability to view investment plan against current account performance	New FA transition period needed prior to current FA leaving
	Provide comparison view of wealth management services/accounts	Educational short video to help customers understand investing and process to open account	FAQs for account opening process and funding	Reduce financial jargon in account statements Online 5 minute education video, which explains graphs and charts, portfolio, etc.	Tools which allow the customer to explore investment options/approaches Educational webinars or videos

















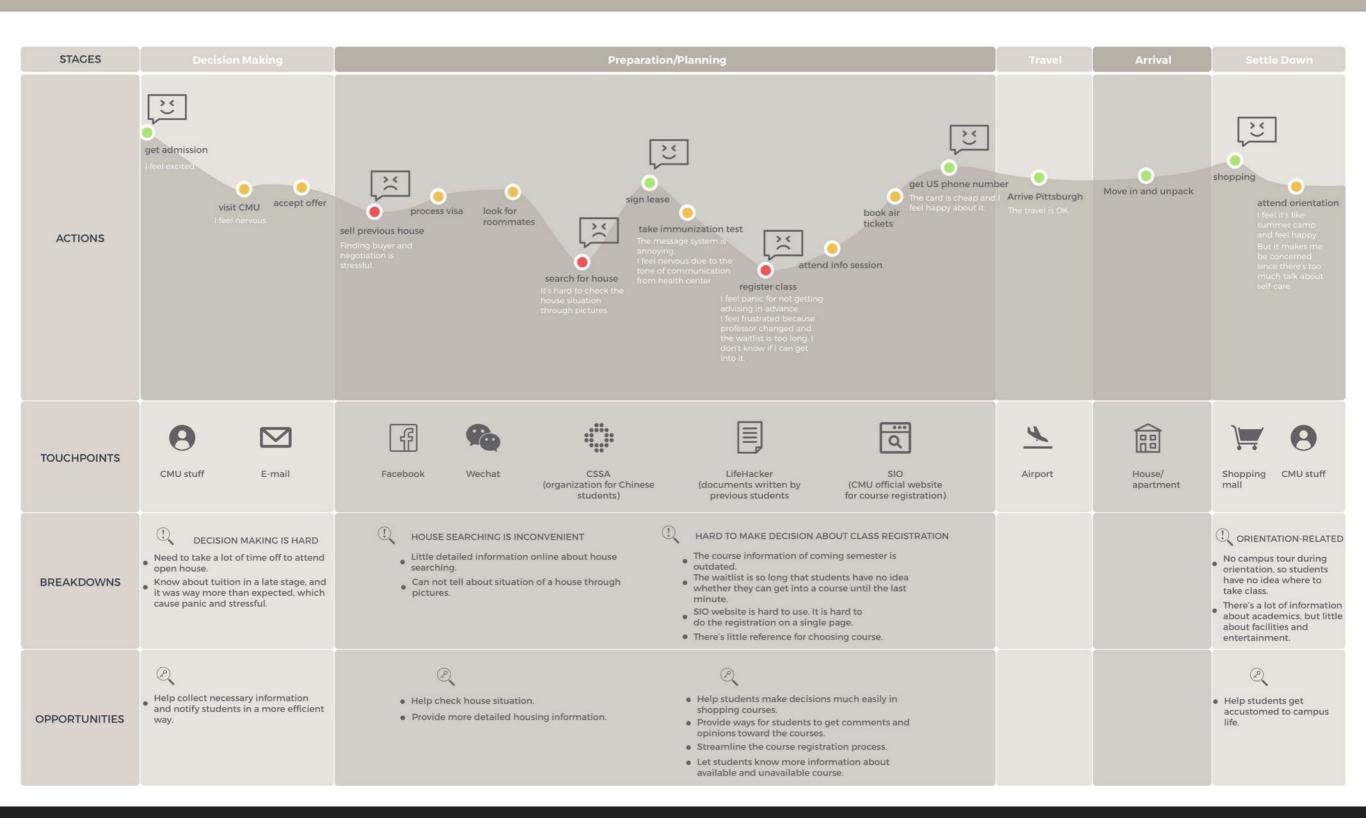




Customer Journey Map

Current students' journey to CMU

This is an as-is journey map of current students' journey to CMU, starting from the moment they got admitted till they settled down in Pittsburgh.



(Suggested) Process

- 1. Conduct background research
- 2. Identify user group and map audience/purpose
- 3. Consider appropriate level of granularity
- 4. Decide what you need to learn
- 5. Write down your existing assumptions
- 6. Talk (and observe if possible) with users
- 7. Start with touchpoints and actions, and organize as timeline
- 8. Group touchpoints and actions as phases, and then align user goals/needs
- 9. Further build-out as text map first, then visualize if appropriate

Interview Tips

- ✓ Explain the purpose of the interview up-front
- √ Minimize yes/no type questions
- √ Focus on learning about their circumstances, motivations, experiences and feelings
- √ Get comfortable with silence
- ✓ Ask them to share stories and examples
- ✓ Watch out for described workarounds, difficulties, etc.
- ✓ Paraphrase to show you are listening and to confirm facts

Activity: Journey Mapping

GROUPS OF 2-3

Create a text-only journey map for a user searching for a book (required by a course) on the SFU Library Web site, checking that book out and returning it

- √ Phases of journey
- √ Goals or needs (I or more per phase)
- √ Touchpoints (I or more per phase)
- √ Actions (I or more per phase)
- √ Emotions and thoughts (I or more per phase)
- √ Ideas for improvements (I or more per phase)

Summary

- User Experience Strategy
- Current State and Future State
- Journey Mapping

References and Suggested Books

- Kano Model, Wikipedia (https://en.wikipedia.org/wiki/Kano_model)
- Mapping Experiences: A Complete Guide to Creating Value through Journeys, Blueprints, and Diagrams by James Kalbach
- Running Lean, by Ash Maurya
- The Complete Guide to the Kano Model (https://foldingburritos.com/ kano-model/)
- Think First: My No-Nonsense Approach to Creating Successful Products, Memorable User Experiences + Very Happy Customers by Joe Natoli
- User Experience Mapping: Enhance UX with User Story Map, Journey
 Map and Diagrams by Peter W. Szabo

Image Credits

```
https://blog.leanstack.com/business-models-vs-business-plans-4a802e15c51d
http://www.forbes.com/sites/anthonykosner/2013/11/23/how-design-and-user-experience-translates-to-the-bottom-line/
https://mozilla.github.io/open-leadership-training-series/articles/opening-your-project/develop-an-open-project-strategy-with-open-canvas/
https://en.wikipedia.org/wiki/Kano_model
https://uxmag.com/articles/leveraging-the-kano-model-for-optimal-results
https://digitalmarketing.temple.edu/elile/2016/07/14/the-nine-key-steps-towards-creating-a-customer-journey-map/
http://www.customerbliss.com/smithsonian-built-journey-map-samir-bitar-cb4/
https://www.uxmatters.com/mt/archives/2011/09/the-value-of-customer-journey-maps-a-ux-designers-personal-journey.php
https://conversionxl.com/blog/customer-journey-mapping-examples/
https://customerthink.com/5-ways-customer-journey-mapping-can-transform-your-business-right-now/
https://www.mycustomer.com/experience/engagement/nine-sample-customer-journey-maps-and-what-we-can-learn-from-them
http://xnchen.com/class-star
```