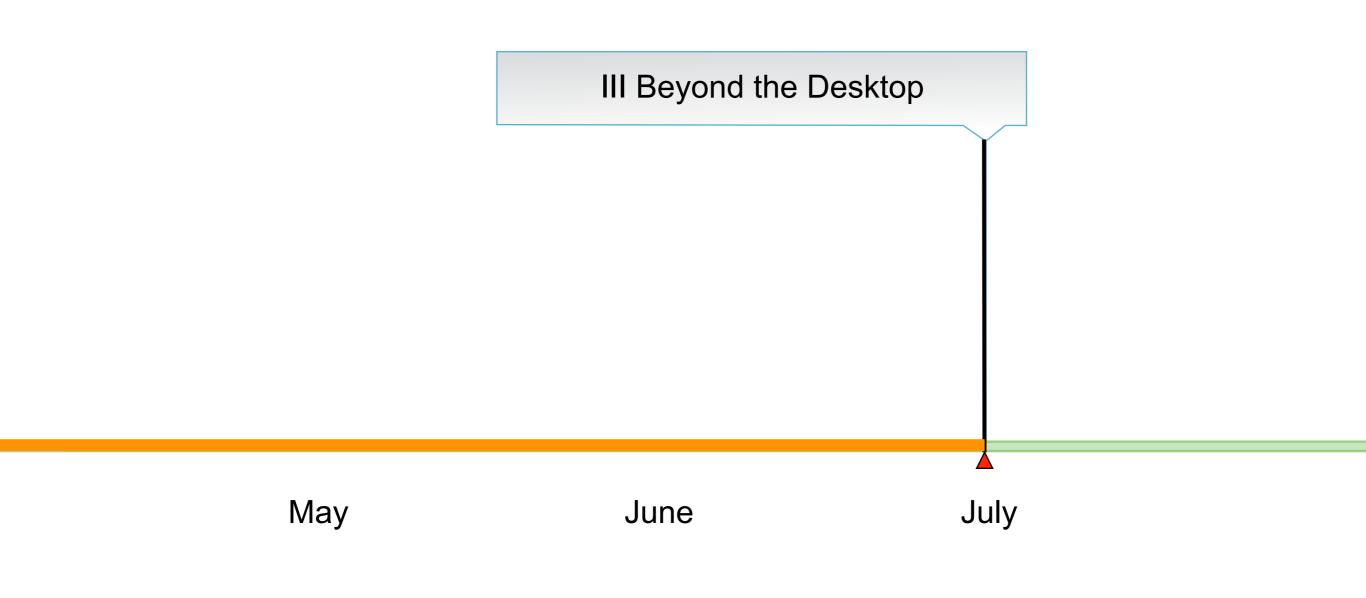
Interaction Design

Chapter 10 (July 14, 2016, 9am-12pm): Service Design



Two fundamental questions...

What is a product?

What is a service?

GRAPHIC DESIGN



2D

PRODUCT DESIGN



3D +Z-axis (spatial depth)

INTERACTION DESIGN





4D +T-axis (temporal dimension)

SERVICE DESIGN



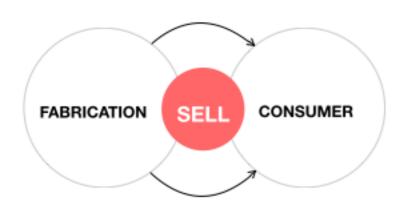




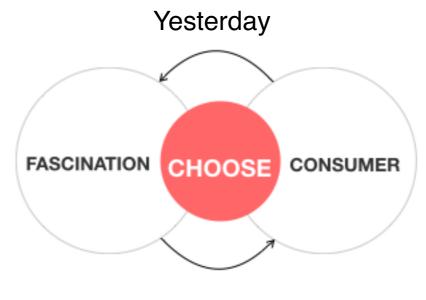
5 D + W-axis (multi-local simultaneity)

A new marketing logic.

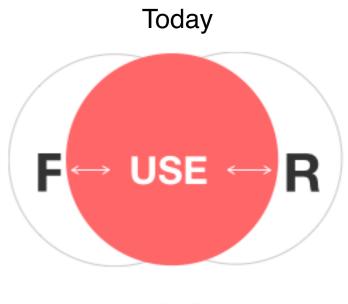
The day before yesterday



FOCUS: SALES



FOCUS: ADVERTISING



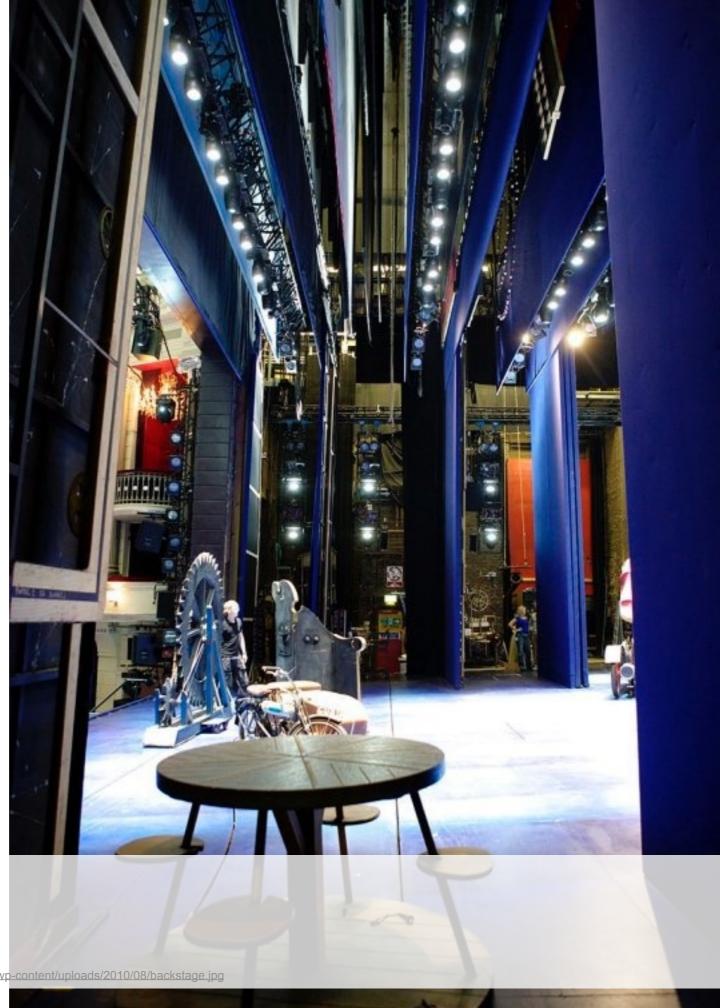
FOCUS: PRODUCTS & SERVICES

Quelle: SinnerSchrader

What do they have in common?



http://www.markabull.com/wp-content/uploads/2011/01/stage.jpg



Back Stage

http://blog.entrepreneurthearts.com/etablog/wp-content/uploads/2010/08/backstage.jpg

You are what you use...not what you own

Slogan From Live/Work



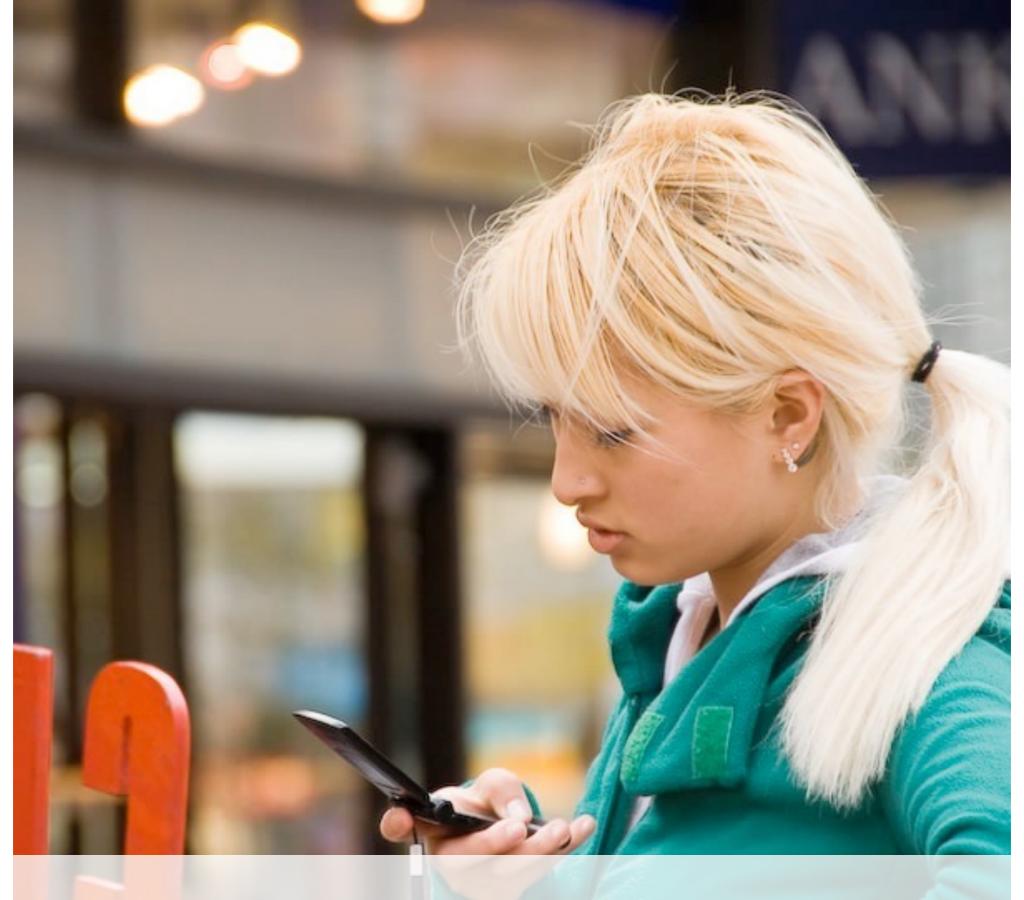


Phone Service

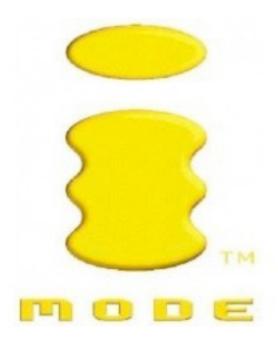
http://3.bp.blogspot.com/_Tin2n1CMss0/TTs.JZ_GCTII/AAAAAAAAAAAFXI/QvUK4TfntBY/s400/telephone_operators_springfield_il_ing

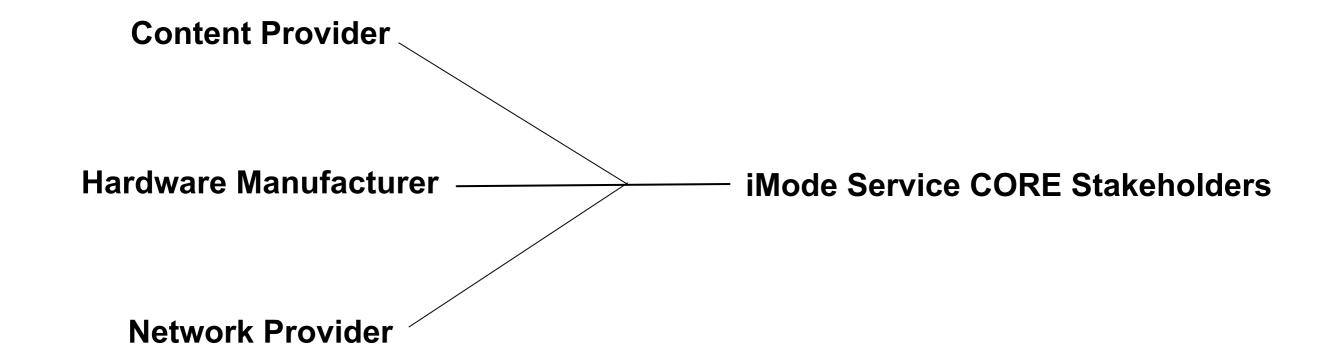


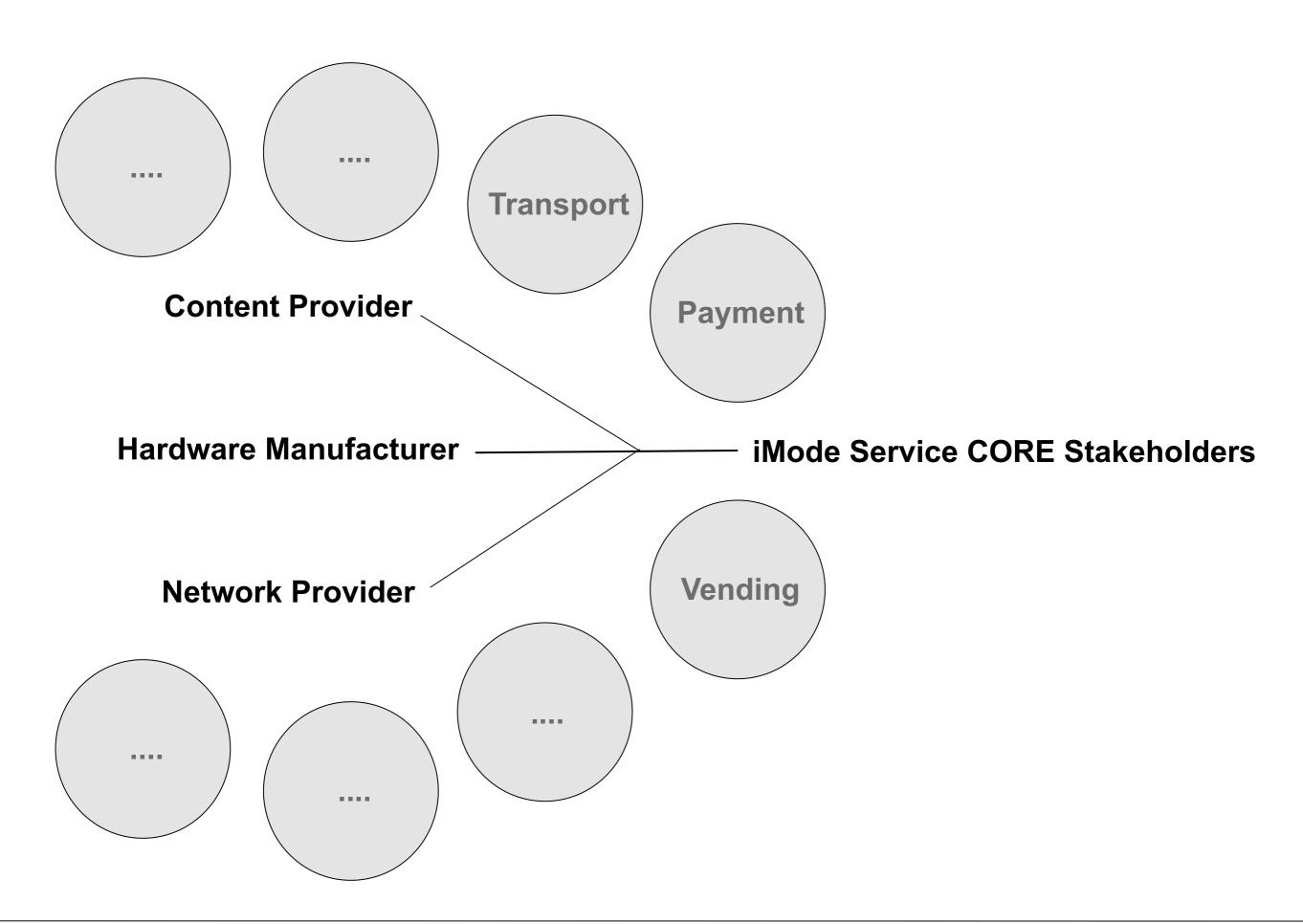
People, Places, Products...



Processes and Performance









Traveling with an Airline

http://www.tropicalisland.de/CPT%20Cape%20Town%20International%20Airport%20South%20African%20Airways%20B747-400%20aircraft%20b.jpg

1998 go to travel agent receive tickets by mail go to the check in desk receive boarding pass check in bags board plane

Today

go to airlines website

receive mobile boarding pass

drop bags at self check in

board plane



Urban Interfaces



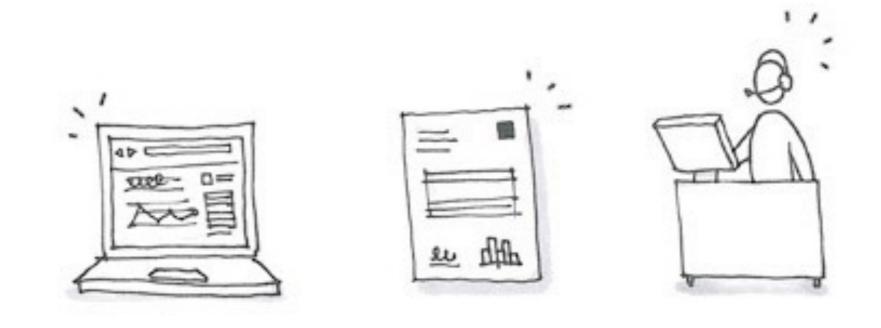
Urban Interfaces

Service Design in a Nutshell

One (over-) view form a company called LivelWork...

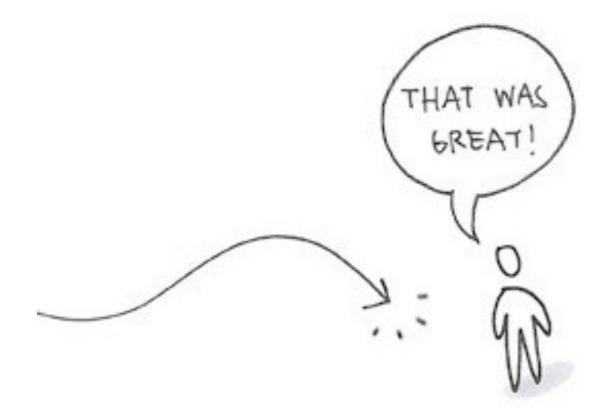


ensures that all the touchpoints work brilliantly...



source: http://www.livework.co.uk/

ensures that the touchpoints work together to create wonderful experiences



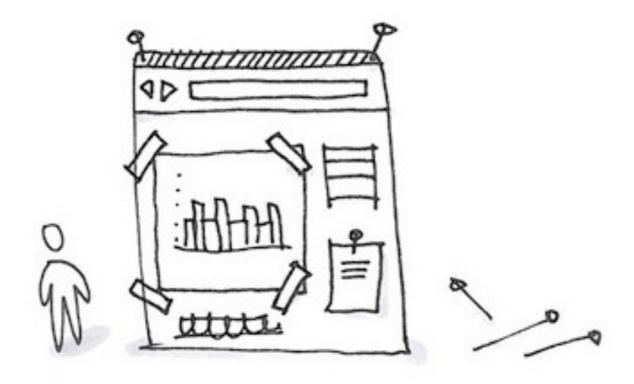
source: http://www.livework.co.uk/

involves people that use and provide the service



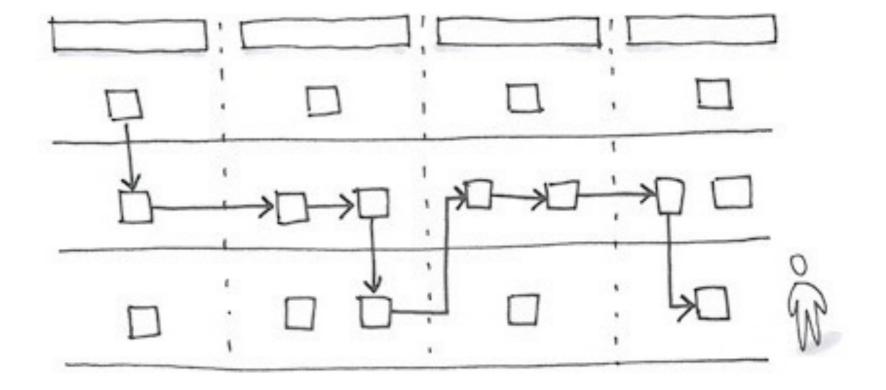
source: http://www.livework.co.uk/

tests a new service with users to make sure all works

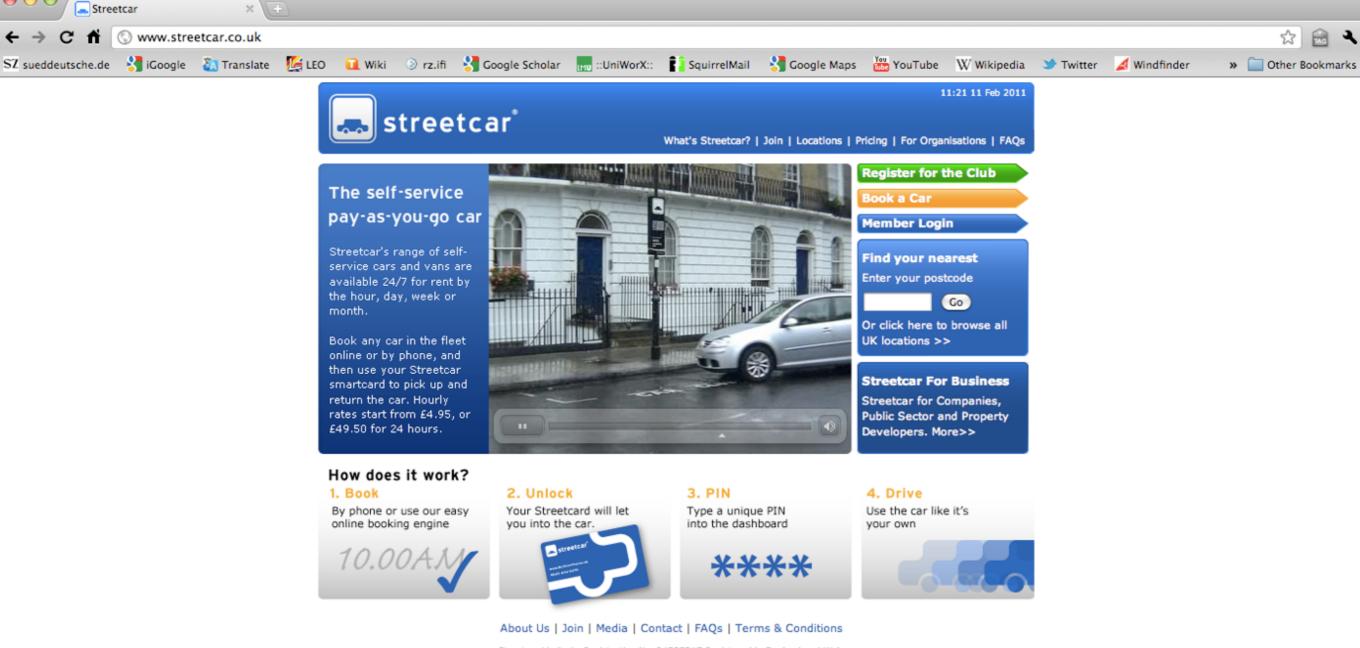


source: http://www.livework.co.uk/

ensures that all parts work together throughout the customer journey



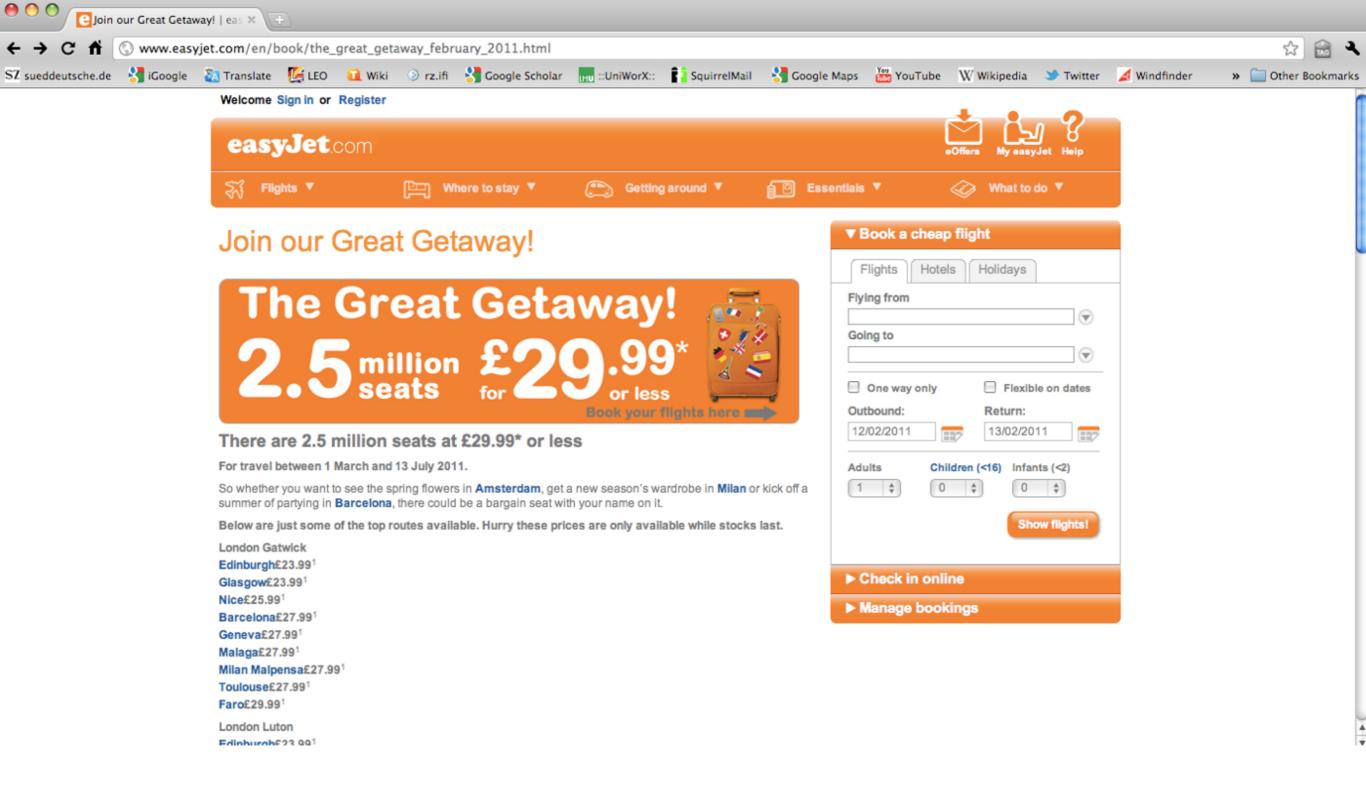
source: http://www.livework.co.uk/



Streetcar Limited - Registration No. 04525217 Registered in England and Wales.

VAT registration number 832 4283 39 Registered Office: Melbury House 51 Wimbledon Hill Road Wimbledon SW19 7QW

Service Example: Streetcar



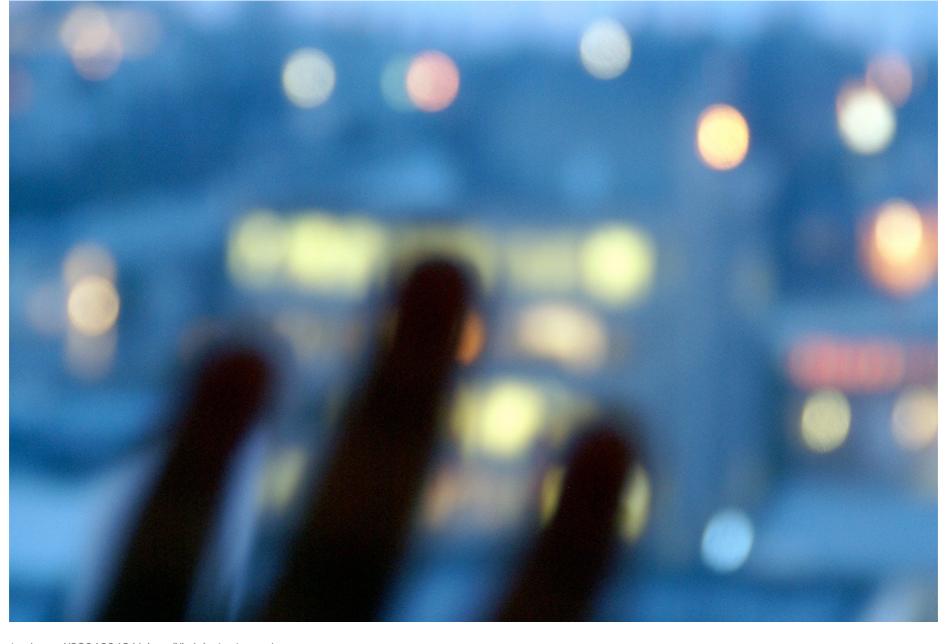
Service Example: EasyJet

What is a service?

- -a chain of activities that form a process and have value for the end user (customer journey)
- -services affect our daily qualify of life (user experience)
- -service design is somehow similar to systems design (service blueprints)
- -service design focuses on the entire system of use (via touchpoints)

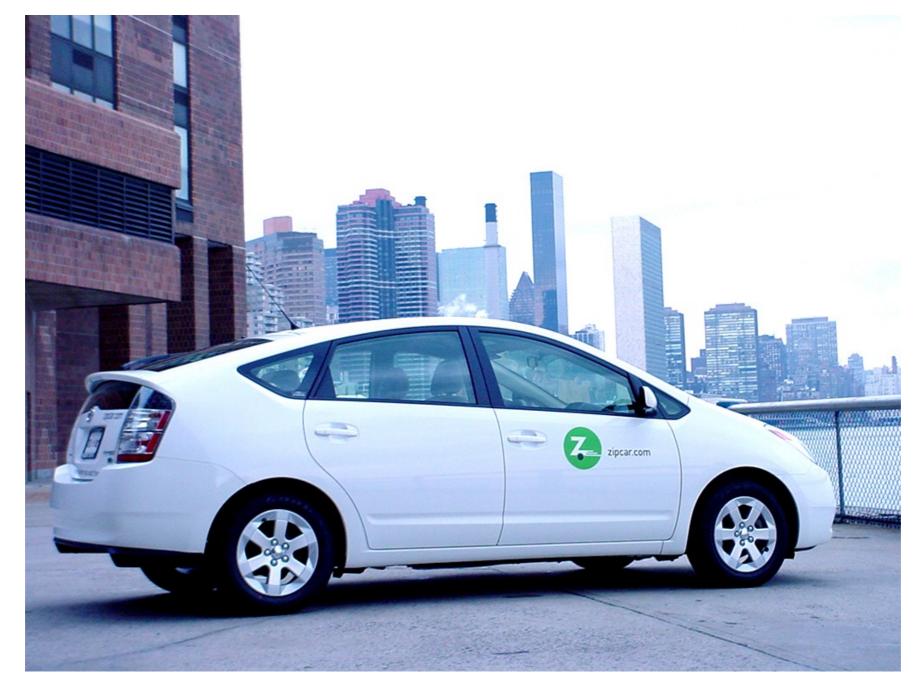
1. Intangible

Although services are often populated with objects, the service itself is ephemeral, customers can't see or touch the service itself-only the physical embodiments



2. Provider ownership

Customers who use a service may come away from it with an owned object such as a cup of coffee or used car, but they don't own the service itself.



3. Co-created

Services aren't made by the service provider alone; they require the involvement and engagement of the customers as well.



4. Flexible

Each new situation or customer requires that the service adapt to it



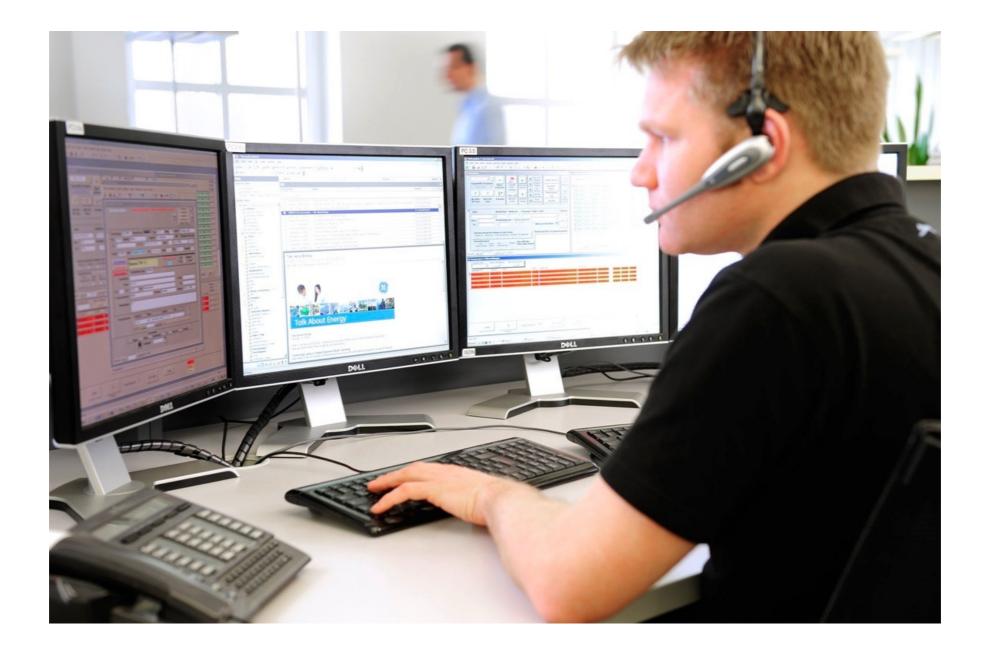
5. Time Based

Services take time to perform, and that time cannot be recovered if lost.



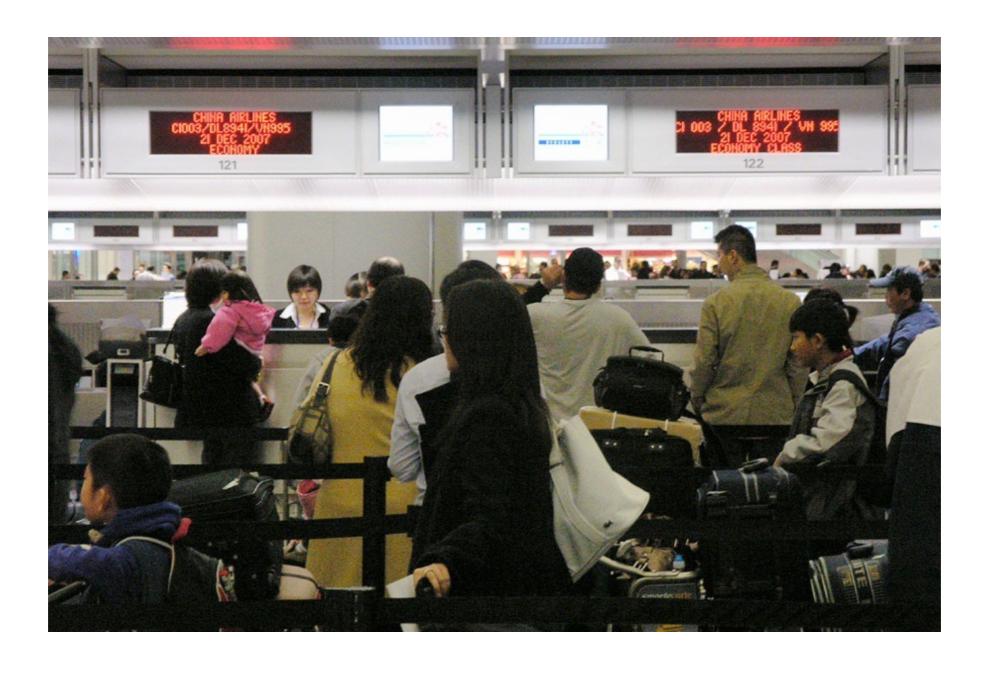
6. Active

Services a created by human labor and are thus difficult to scale.



7. Fluctuating demand.

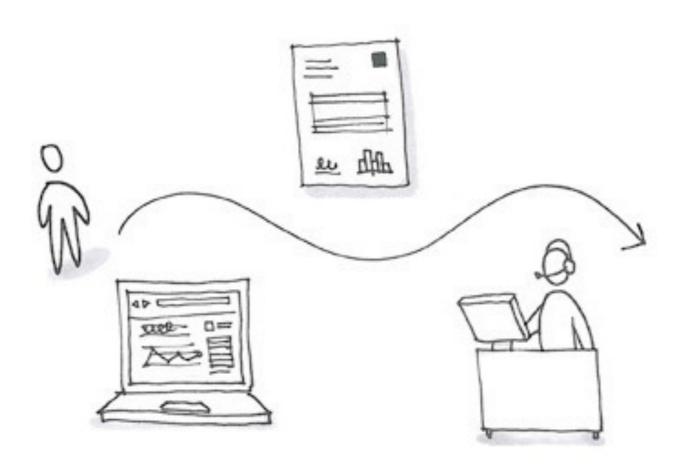
Most services vary by time of the day, season, and cultural mood.



Elements of Service Design:

Service design focuses on multiple "touchpoints" and the users interactions with these touch-points over time.

These touchpoints are typically places, products, processes and people.



source: http://www.livework.co.uk/

Touchpoints

some examples (but not limited):

- -physical locations
- -specific parts of locations
- -signage
- -objects
- -web sites
- -mailing
- -spoken communication
- -printed communications
- -applications
- -machinery
- -customer service
- -partners

.

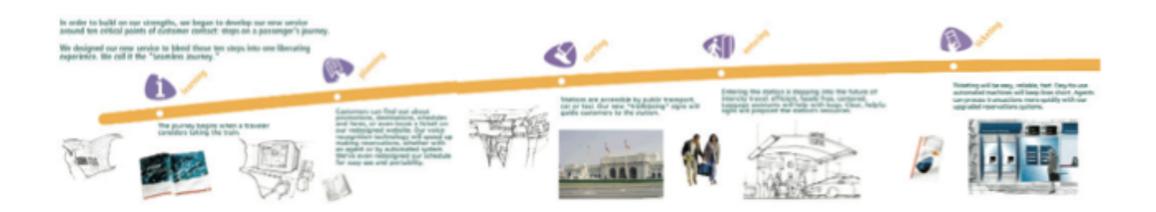
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Touchpoints

Touchpoints are the raw material interaction designers work with. Once a map of existing and potential touch-points is created designers can brainstorm on further details for each touchpoint.



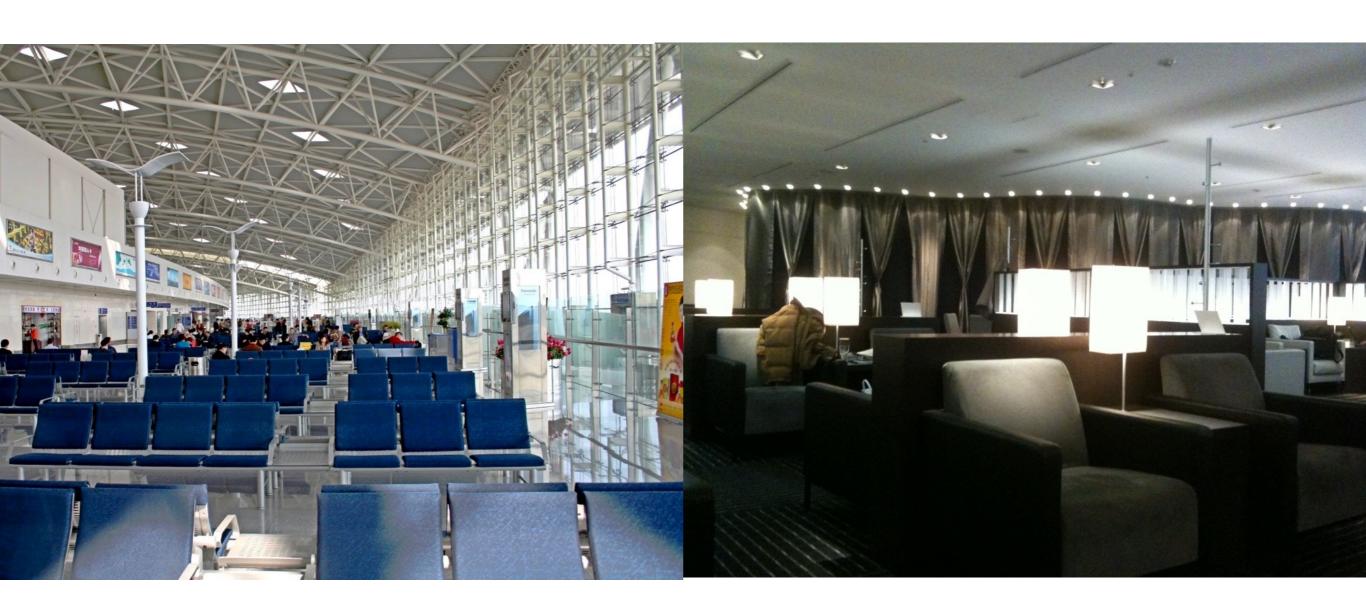


Steps	Physical Aspects	Digital Aspects
1. Learning	Advertising, Travel Agent, Word of Mouth	On-line, Phone info., Intranet
2. Planning	Station Staff, Travel Agent, Brochure, Phone	On-line, Phone info.
3. Starting	Other form of transportation	Radio – up to the minute info.
4. Entering	Station Architecture	Signage
5. Ticketing	Ticket Office, Travel Agent	On-line, Phone info., kiosks
6. Waiting	Waiting Room, Station Facilities	Signage, On-line services
7. Boarding	Doors and Luggage Storage	Auto Doors, Dynamic signage
8. Riding	Seats, Meal Services	Info., Media, Comms
9. Arriving	Station Architecture	Signage
10. Continuing	Other form of transportation	-

Place

- -the settings for the service delivery
- -the environment needs to provide the space necessary to perform the actions of the service
- -it needs to tell the user cues for these actions such as signs, costumed menus or displays





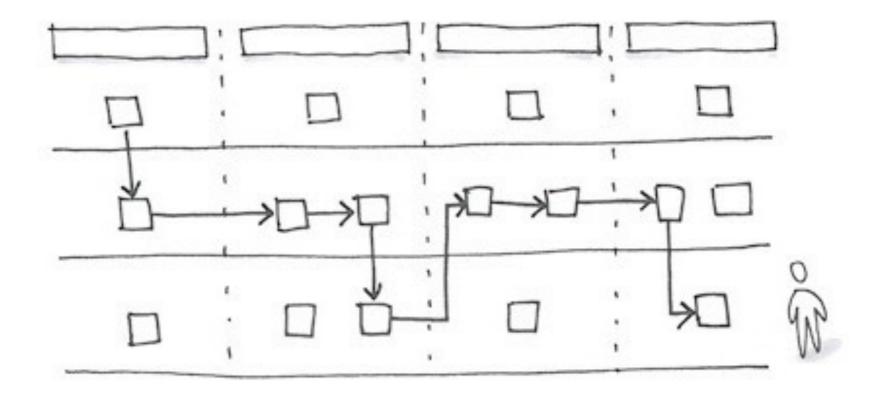
Products

- -artifacts that facilitate interaction
- -products populate the environment (place)
- -they provide the potential for users active participation



Processes

- -the process describes "how" the service is ordered, created and delivered to the user
- -processes can change subtle or radically within the service through different environments and over time
- -often there are multiple pathways and therefore processes through a service experience



People

-through people services come alive, usually through complex choreography -users and employees perform different parts of the service for achieving a particular result



Service Design leads to:









source: http://www.livework.co.uk/

Service Design....

-can lead to environmentally friendly solutions. (Car sharing service)
-can boost good business models: well designed and executed
services will increase sales and helping tying users to a specific brand

The introduction of new technology (sensors, smart-phones) makes this discipline highly relevant for interaction designers as their expertise involves bridging the gap between technology and people.

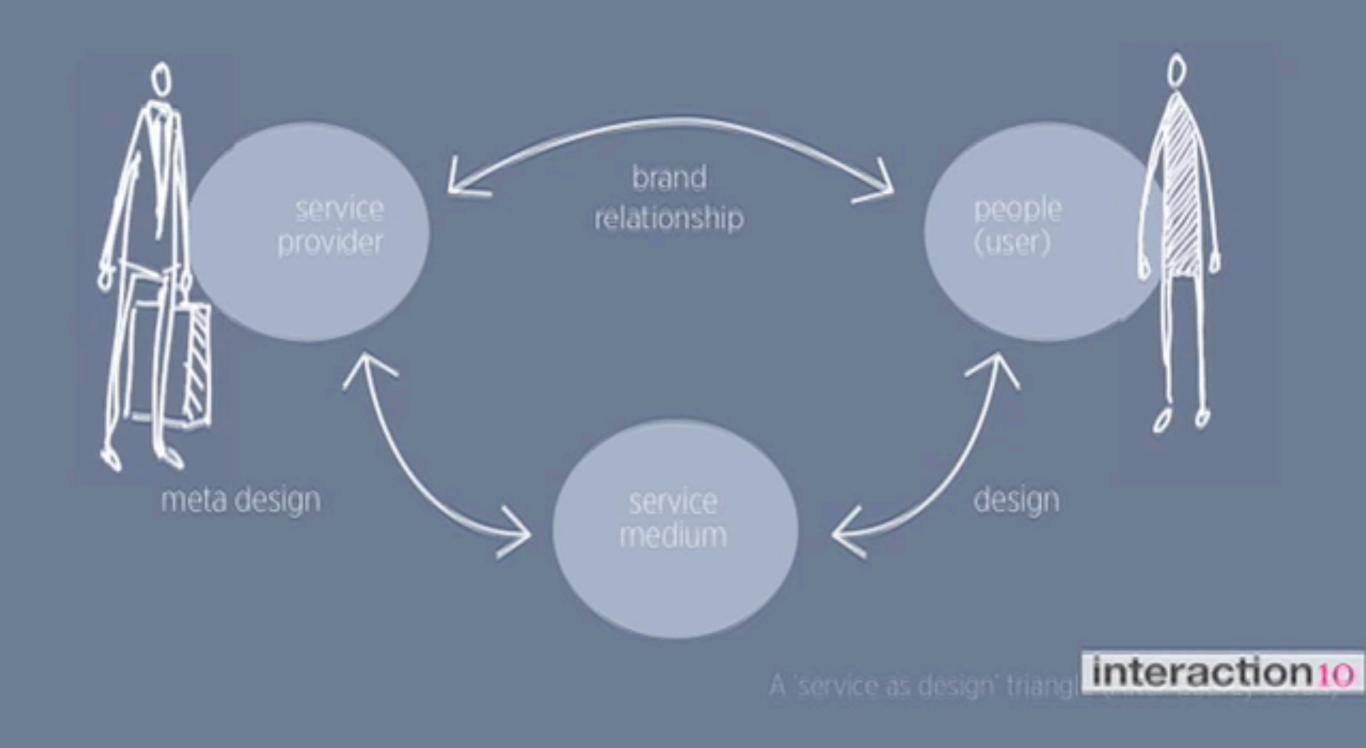
Applying interaction design techniques to service design can lead to richer experiences.

Shelley Evenson

- -teaches service and interaction design at CMU, Pittsburgh
- -Co-founder of seeSpace and chief experience scientist for Scient



Service as design triangle

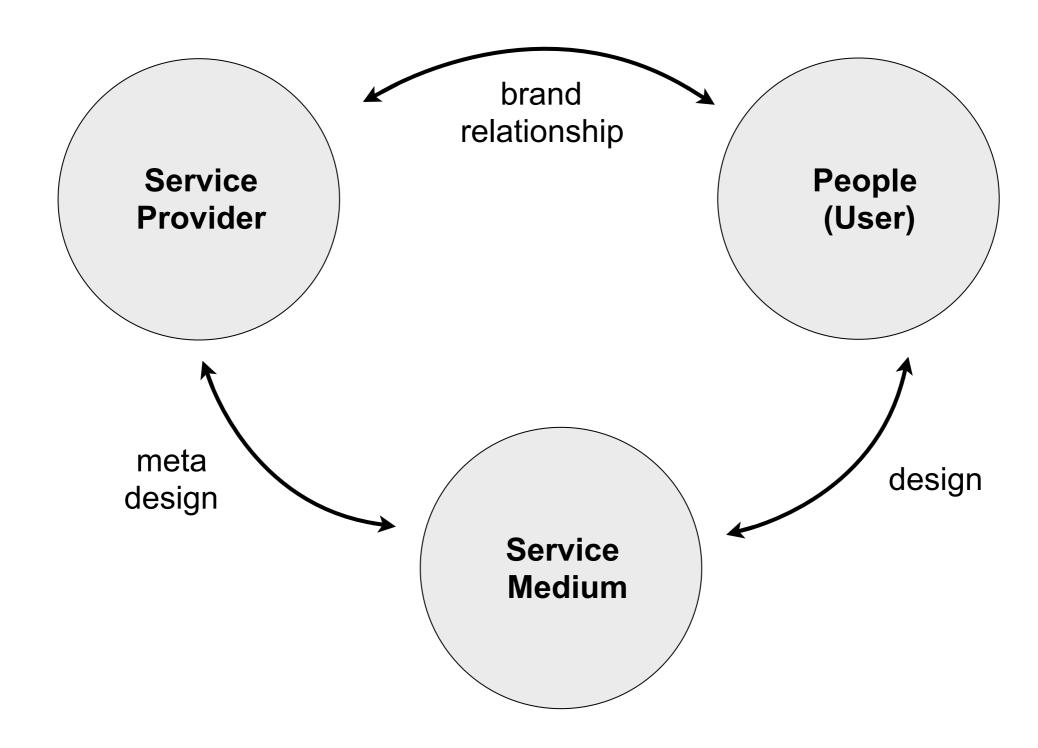


Service design can involve

person2person interaction = check in desk
person2machine interaction = self check in kiosk

machine2machine interaction = airport baggage system

Service as Design Triangle:



Service design addresses the functionality and form of the service medium. The aim is to ensure that service interfaces are **usable** and **useful**, **effective** and **efficient**, **desirable** and **differentiated** from the provider and the persons point of view.

after Birgit Mager

AN INTRODUCTION TO

SERVICE DESIGN

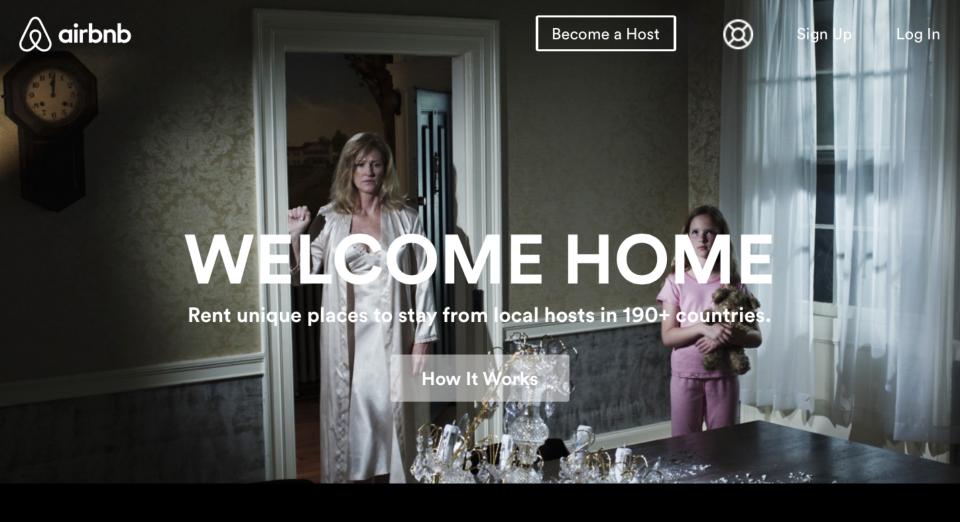
Veronika Ritzer LMU München, 14.7.2016



SERVICE HAS ALWAYS BEEN THERE



SERVICE HAS ALWAYS BEEN THERE
TECH HAS CHANGED THE GAME



SERVICE HAS ALWAYS BEEN THERE

TECH HAS CHANGED THE GAME

PEOPLE'S EXPECTATIONS, NEEDS AND VALUES HAVE CHANGED













WHICH CHANGED BUSINESS FROM A CAR TO MOBILITY

FROM A SNEAKER TO FITNESS





FROM AN ASSEMBLY MACHINE TO A PRODUCTION SYSTEM

FROM SELLING TO MARKETS TO EMPOWERING PEOPLE

THE ECONOMY HAS CHANGED FROM PRODUCT TO SERVICE THINKING

THE ECONOMY HAS CHANGED FROM PRODUCT TO SERVICE THINKING

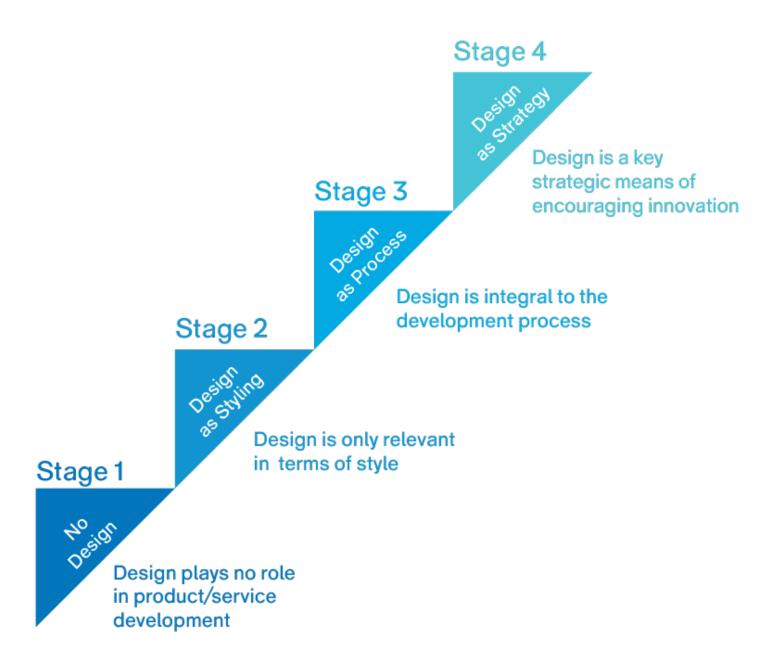
- AND DRASTICALLY
INCREASED COMPLEXITY

THIS MASSIVE SHIFT AND ITS CHALLENGES REQUIRES A NEW THINKING FOR BUSINESSES:

- 1 A NEW APPROACH & METHOD
- **2** A NEW ORGANISATIONAL STRUCTURE

A NEW APPROACH & METHOD:

SERVICE DESIGN



SOURCE: http://www.designcouncil.org.uk/sites/default/files/styles/dc_-_wysiwyg_-_smart_embed/public/assets/images/designladder EDIT sd 3.png?itok=vJCAbrNL

A NEW APPROACH & METHOD:

SERVICE DESIGN

WHY DESIGN?

- Balancing and aligning customer and business insights, creating customer satisfaction and business results
- Embracing complexity and interdisciplinary challenges
- Open end problem solving
- Human centric thinking





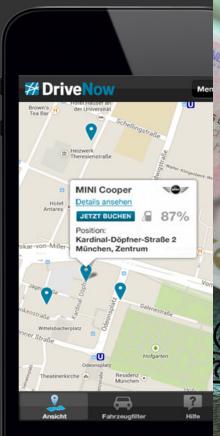




DriveNow











A NEW COMPLEXITY

PRODUCTS FOR THE
(CONSUMER) MARKET ARE
COMPLEX ECOSYSTEMS —
CENTERING AROUND THE USER.



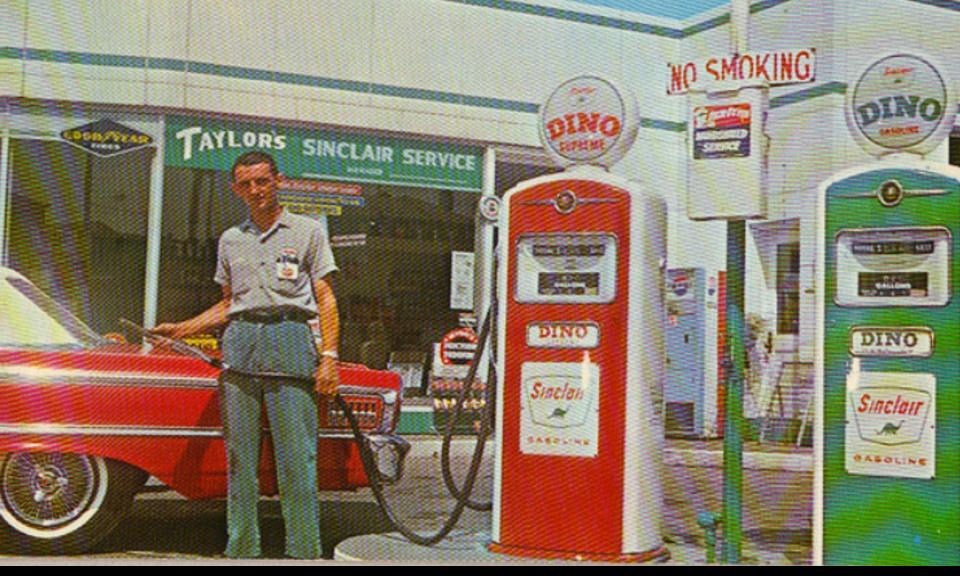
Source: http://normanswei.files.wordpress.com/2009/07/car-wash-picture.jpg

WE DON'T OWN ANYMORE – WE SHARE



Source: https://flic.kr/p/77WrYu

WE ARE BUILDING A NEW IDEA OF STATUS SYMBOLS

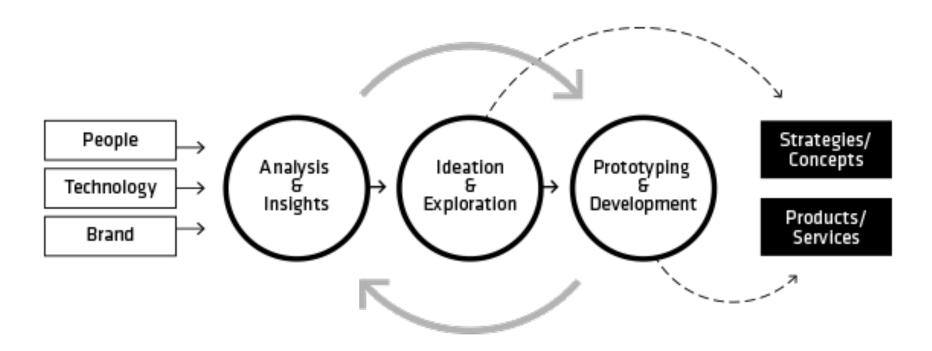


Source: https://flic.kr/p/5UXC81

WE DON'T NEED GAS STATIONS ANYMORE – WE CHARGE AT HOME

HOW CAN WE ANTICIPATE
FUTURE NEEDS WHEN THEY ARE
BUILT ON NEW LIFESTYLES AND
CHANGING VALUES WE DON'T
KNOW YET?

BY INCLUDING THE USER IN THE INNOVATION PROCESS RIGHT FROM THE START. WE CALL IT CO-CREATION.



SERVICE DESIGN CAN INVOLVE...

PERSON 2 PERSON INTERACTION

= CHECK IN DESK

PERSON 2 MACHINE INTERACTION

= SELF CHECK IN KIOSK

MACHINE 2 MACHINE INTERACTION

= AIRPORT BAGGAGE SYSTEM

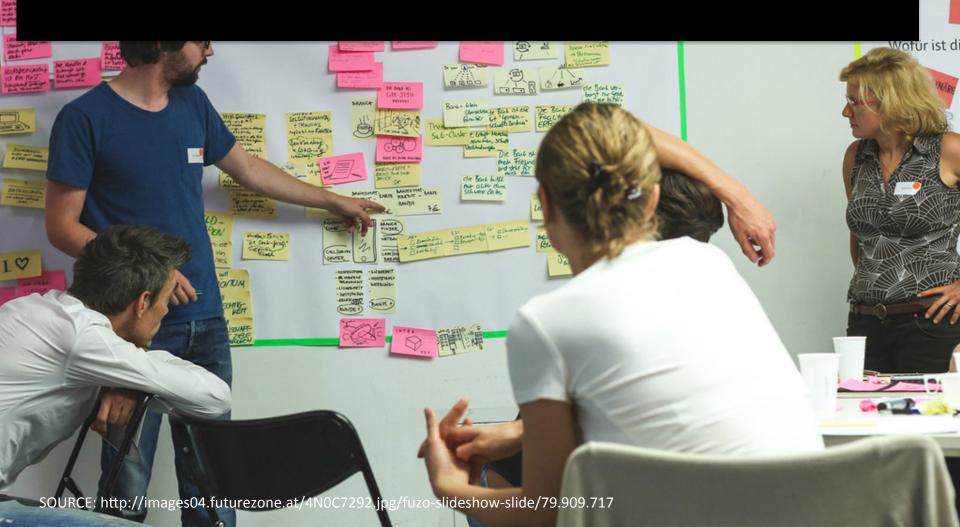
5 SERVICE DESIGN PRINCIPLES





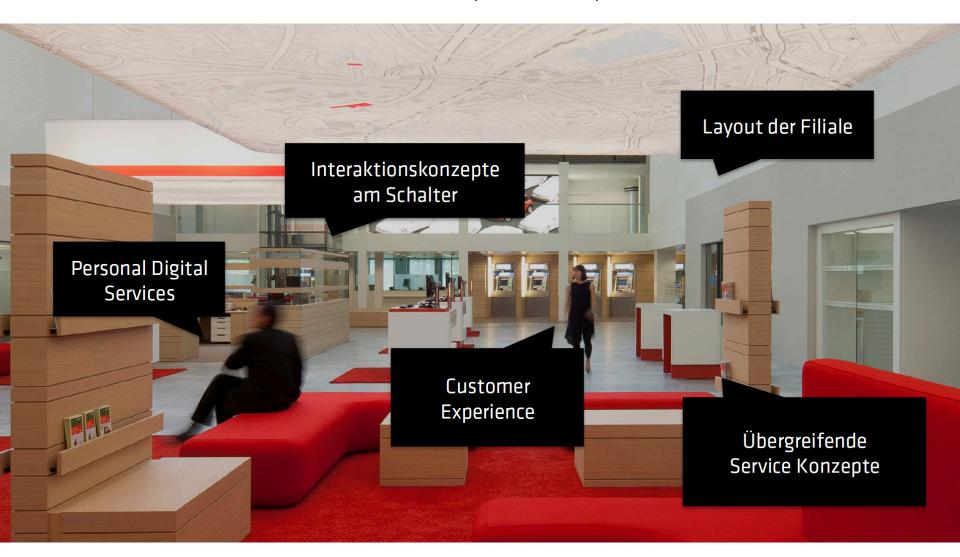
2 – INVOLVE ALL STAKEHOLDERS

LEARN FROM THE EXPERTS BY CREATING TOGETHER WITH THEM





TOUCHPOINTS ARE TYPICALLY PLACES, PRODUCTS, PROCESSES AND PEOPLE



SOURCE: IXDS GmbH

4 – LEARNING BY PROTOTYPING TEST THE EXPERIENCE AND ITERATE

137 Bress

CHOOSE FROM 115T OF POPULAR FITNESS PROGRAMS BUILD YOUR OWN FITNESS PROGRAM SOURCE: http://aaronbrako.com/images/prototyping/paper/4.jpg

4 – DESIGNING OVER TIME

START BEFORE THE BEGINNING, FINISH AFTER THE END





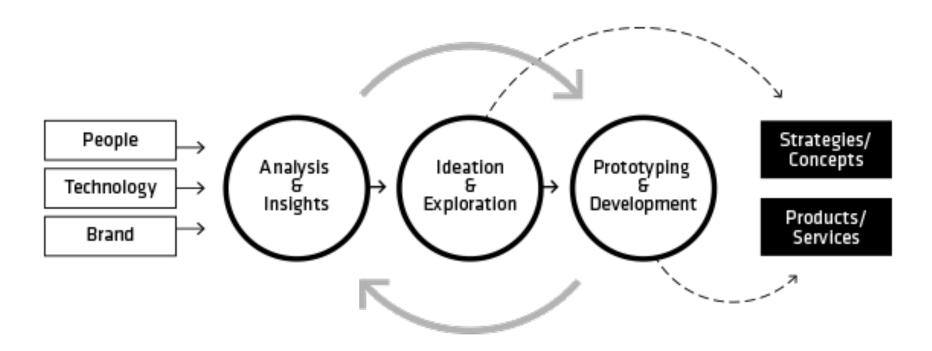


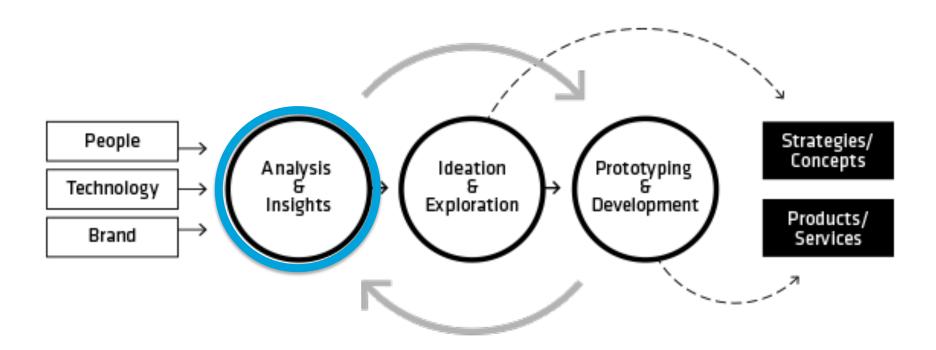


4 – THINK HOLISTICALLY CONSIDER FRONT AS WELL AS BACK STAGE



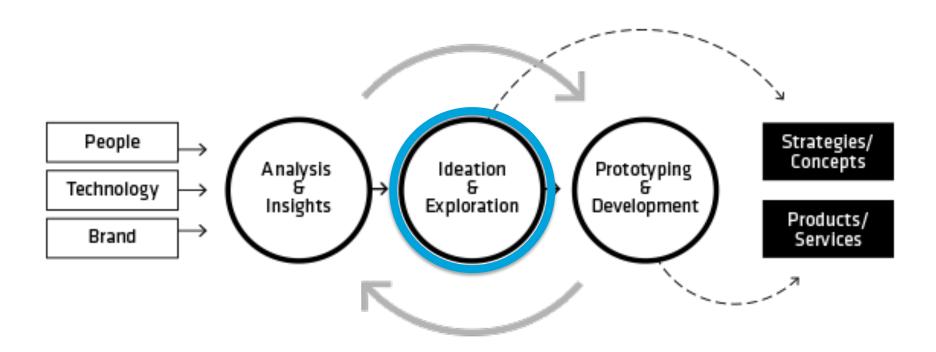
SERVICE DESIGN TOOLS

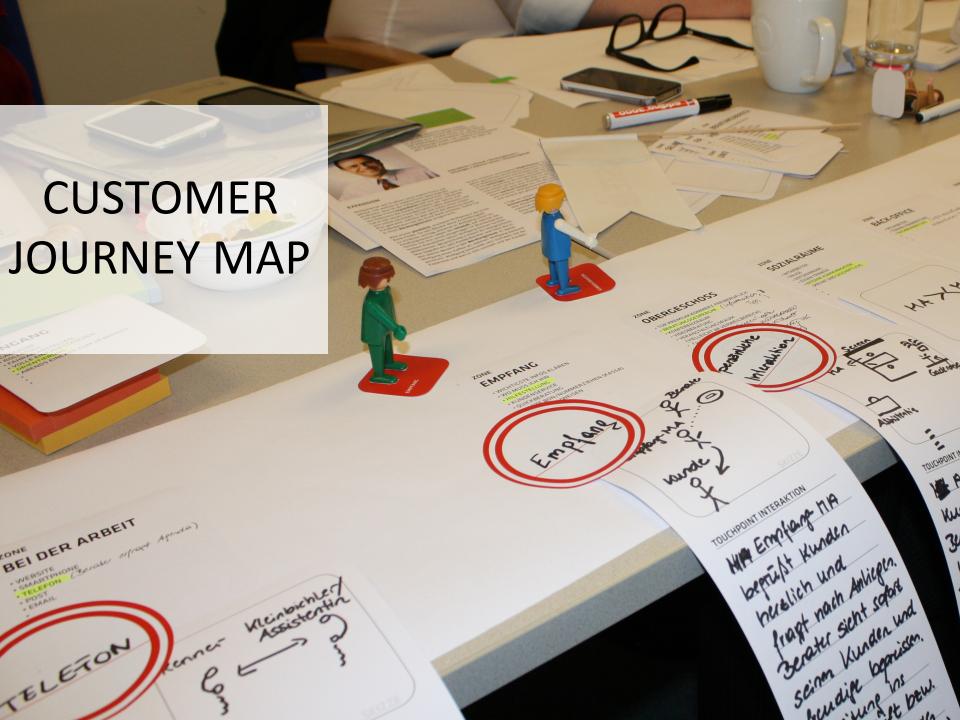




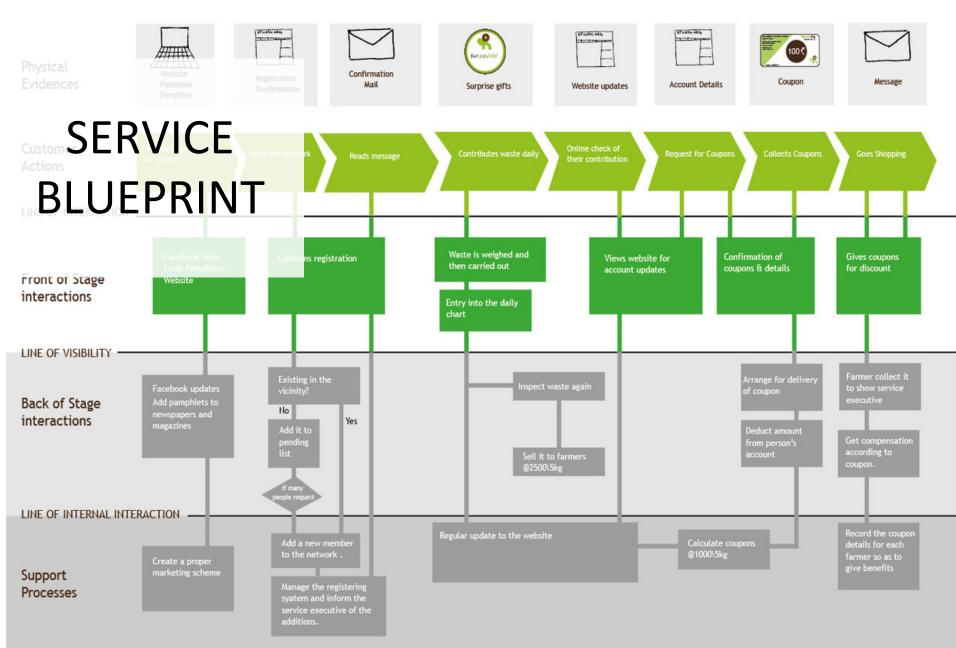




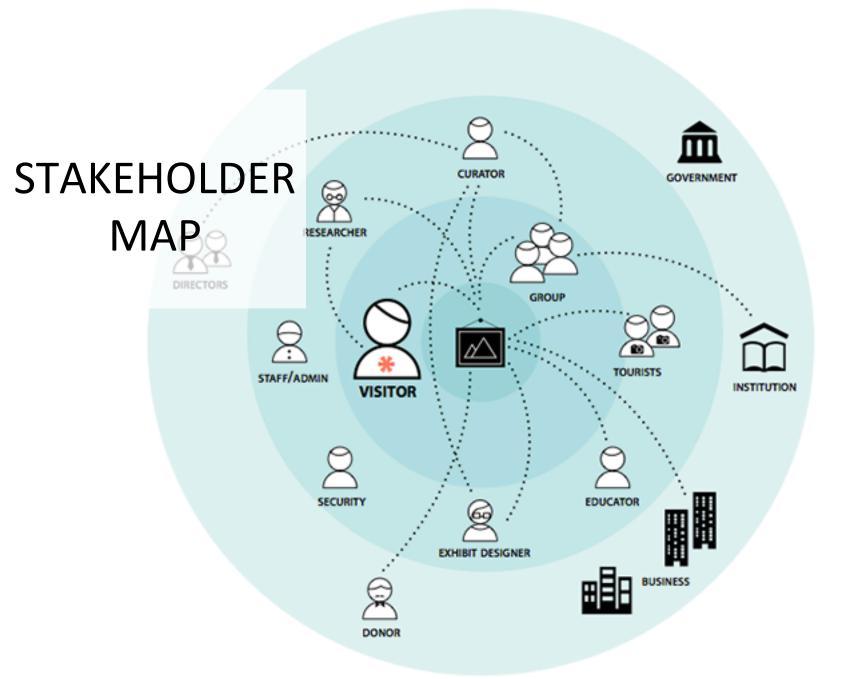


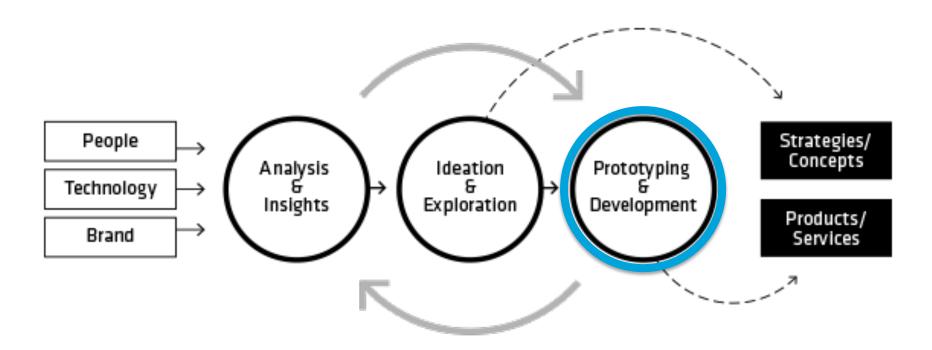


Service Blueprint - Rehash.Org



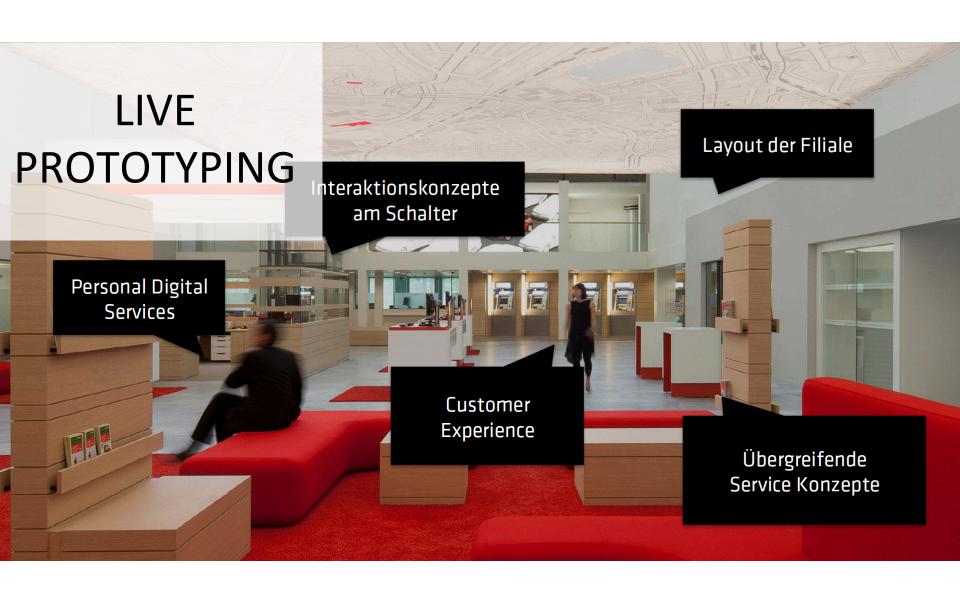
SOURCE: http://65.media.tumblr.com/tumblr_mbxb2phPRR1rh9ygro1_r1_1280.jpg







PAPIER ODER PROGRAMMIERT? DIE PHASE IM PROZESS DEFINIERT DEN PROTOTYPEN



WHAT'S IN IT FOR THE CUSTOMER?



1998

go to travel agent

receive tickets by mail

go to the check in desk

receive boarding pass

check in bags

board plane

Today

go to airlines website

receive mobile boarding pas

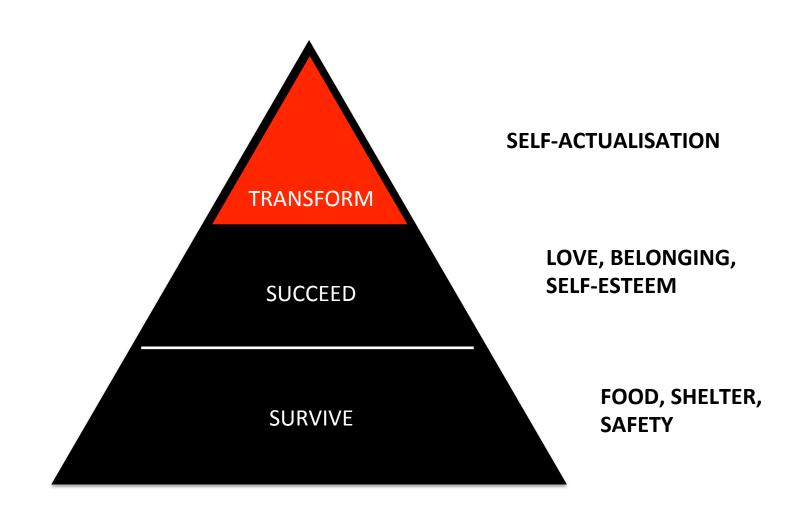
drop bags at self check in

board plane

- Saving time
- Saving money
- More fun using a service
- Allowing choice
- More practical

- Saving time
- Saving money
- More fun using a service
- Allowing choice
- More practical
- Sharing instead of owning
- New forms of living idealistic and activist ideas (urban gardening,...)
- Do it yourself culture
- Global thinking being connected
- Open knowledge
- Empowered consumer

WHAT'S NEXT?



WHAT EXACTLY IS IN IT FOR BUSINESSES?

THE IMPACT OF SERVICE DESIGN



...better customer experience







SOURCE: http://www.livework.co.uk/

OPPORTUNITIES WITH CONSEQUENCES

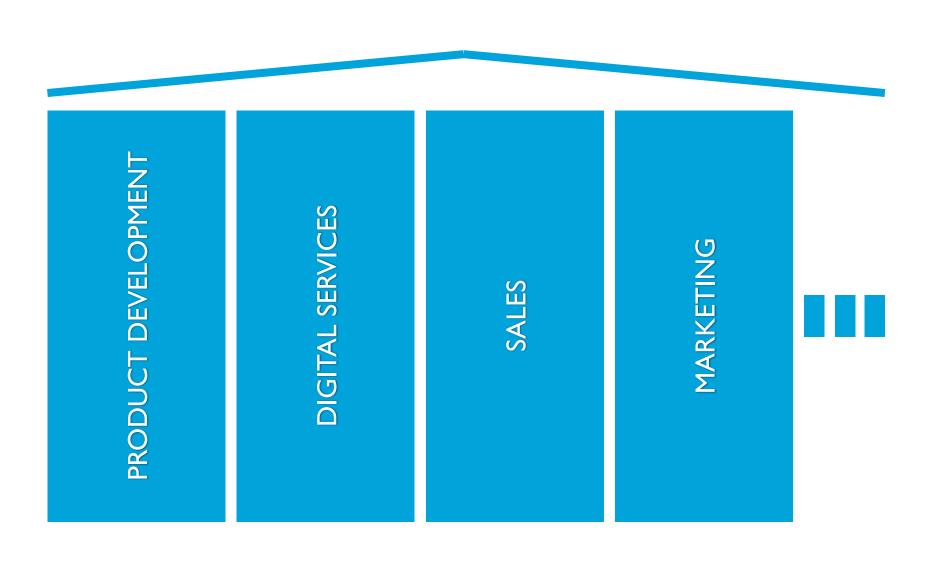
A NEW ORGANISATIONAL STRUCTURE:

CROSS-SILO COLLABORATION

"ERGEBNISOFFENE PROJEKTE"

It is not about designing an app – it is about **the right solution** that meets user AND business needs.

Organisational design and silos



Organisational design will define whether teams work towards a common goal & vision – and if interdisciplinary work can be lived in reality!

References (Books):

- [1] Buxton, W. Sketching User Experiences, Morgan Kaufmann 2007.
- [2] Copenhagen Institute of Interaction Design, Service Design Workshop 2008.
- [3] Moggridge, B. Designing Interactions, MIT Press, 2006.
- [4] Rogers, Y., Preece, J. & Sharp, H. Interaction Design, Wiley & Sons 2011.
- [5] Saffer, D. Designing for Interaction, New Riders 2009.