Data Driven Business Model for an E-Bike Sharing Offer

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DATA DRIVEN VALUE CREATION



die Mobiliar

& E-Bike Sharing ?

die **Mobiliar**

Very strong core business, but...

- → need for better customer data
- → little customer interaction
- → need for higher customer loyalty
- → uncertainty through megatrends (mobility, sharing economy, internet of things etc.)

Innovation Strategy @ die Mobiliar



Speedboats = internal start-ups that identify, test and develop new markets and repeatable and scalable business models.

Everybody's got plans... until they get hit.

I know, that I know nothing.

1. Pilot

Goal:

Does the idea technically works?

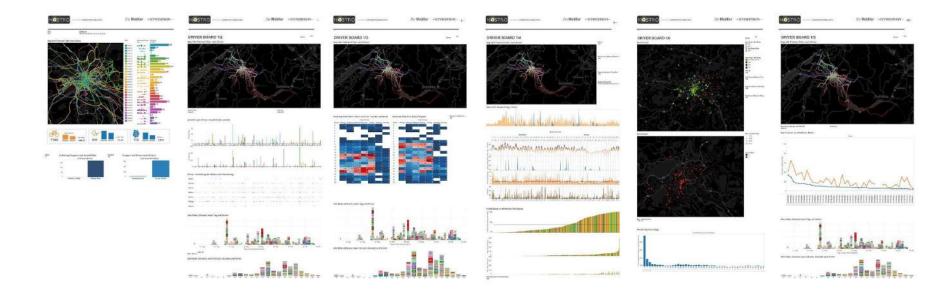
How is the offer used?

Which are possible customer groups?

What are the challenges?

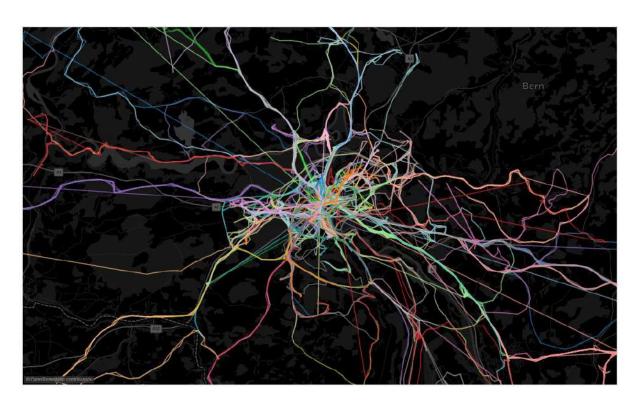


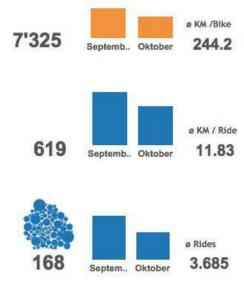
MOSTRO

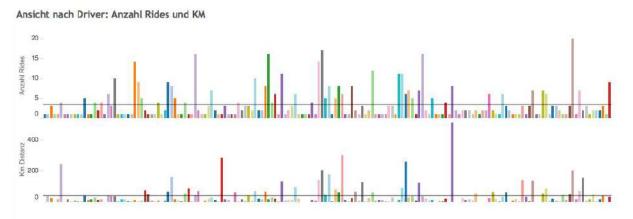


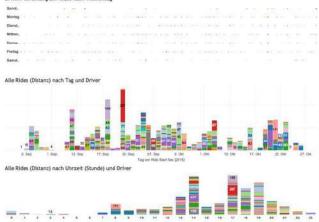


All rides



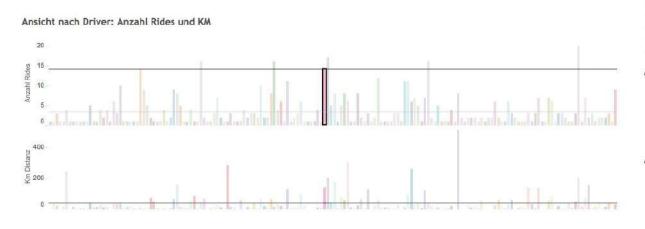


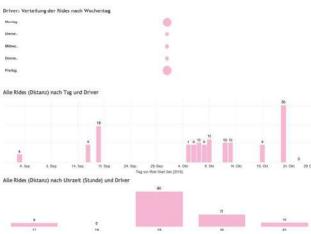




Commuter

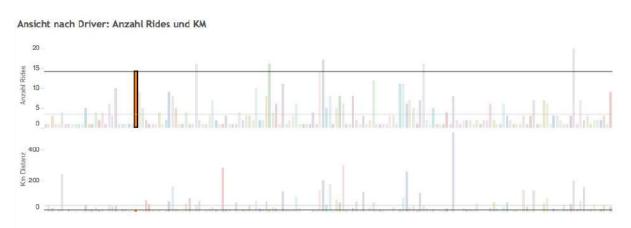


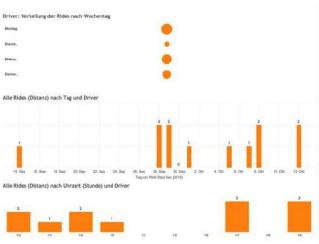




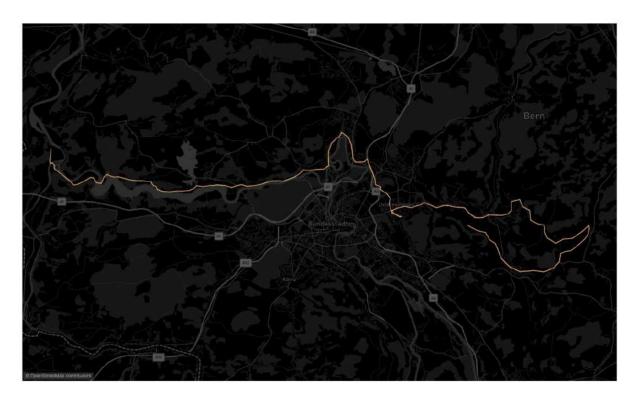
Business users

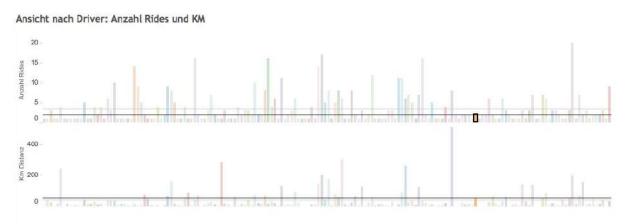


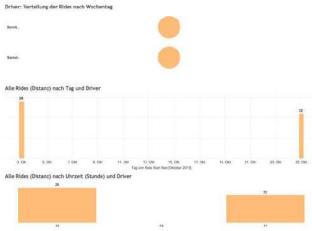




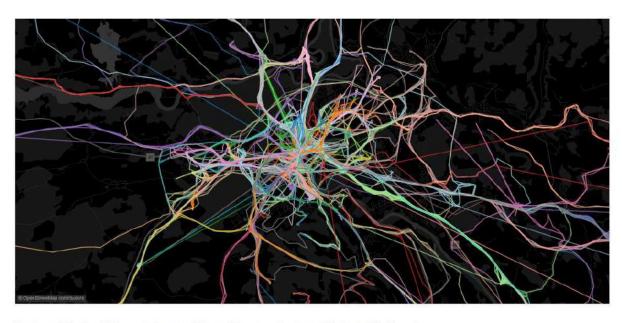
Leisure excursions

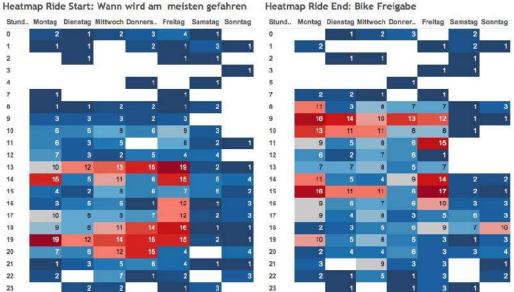




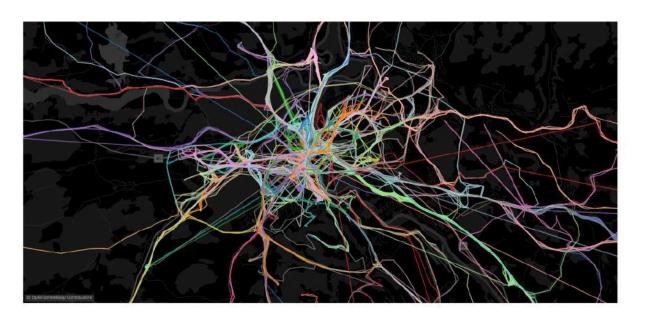


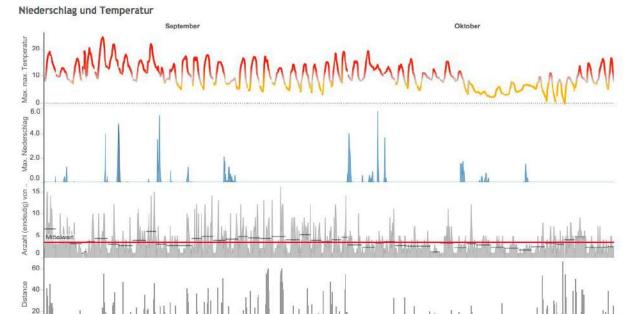
Fleet capacity utilization Date & Time



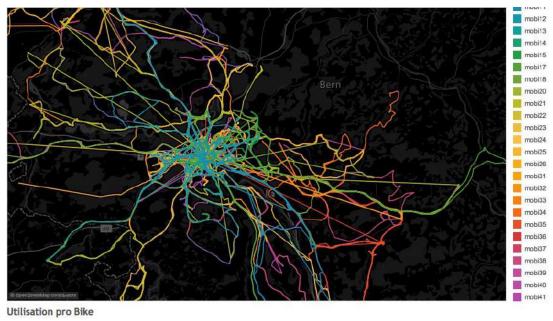


Weather

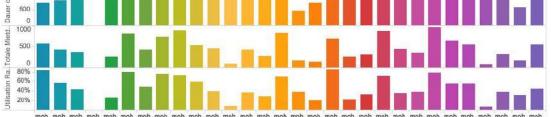




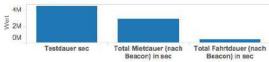
Overall utilization



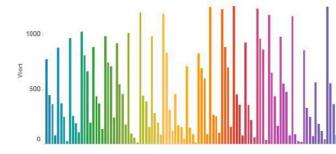




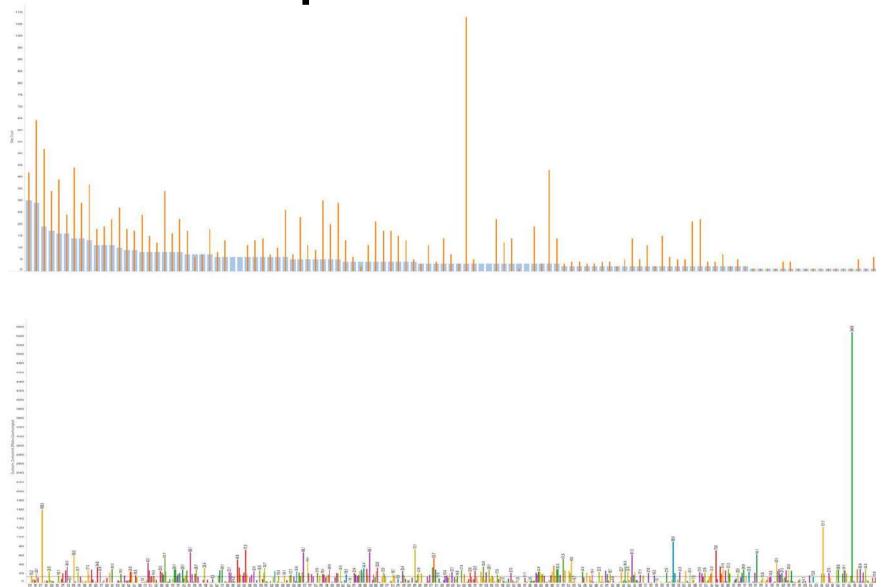
System Utilisation.



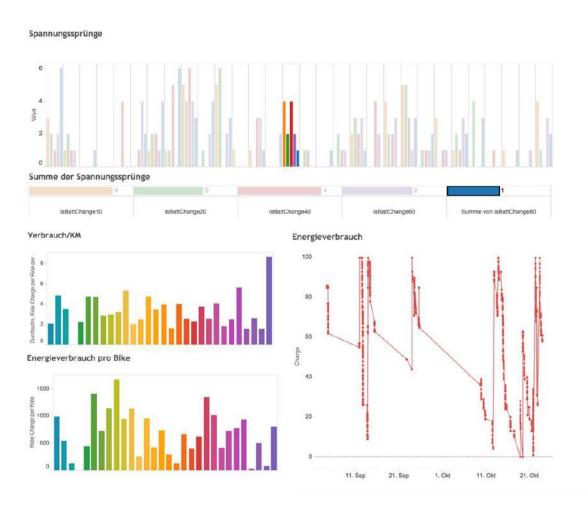
Mietdauer vs Fahrtdauer

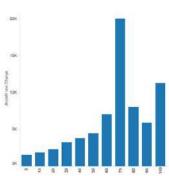


Technical aspects



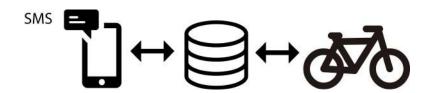
Energy





Data findings

- 1. Various user groups (excursions, commuters, business users + others)
- 2. User behavior changes over time (service level / battery charging)
- 3. Communication between Mobile DB Bike needs to be improved
- 4. Weather influences are less noticeable than imagined
- 5. App / Service Dashboard requirements are defined



Osterwalder Business Models



Städte Unternehmen Bewirtschafter IT-Dienstleister Bike-Lieferant



Garantieren, dass Bikes zur richtigen Zeit am richtigen Ort in der richtigen Menge und Qualität sind



Bikes Ladeinfrastruktur Bewirtschafter und Kundenservice IT



VALUE

Mehr Effizienz, Unabhängigkeit und Flexibilität auf der ersten und letzten Meile

Alle 300m das für mich passende Bike



Kundenservice (per Mail und Telefon)

Self-Service: Schadenmeldung in App



CLIENTS

Pendler **Business User** Ausflügler



CHANNELS

App Website Bike Social Media



COST CENTRES

Kosten für Bikes, Software, Betrieb IT, Bewirtschaftung, Löhne, Marketing/Sales,



REVENUE STREAMS

Nutzungspreise (pro Minute, in Zukunft Abos); Werbung auf Bike; Lizensierung der Software

TAKE AWAY 1

1. Testing / measuring is mandatory and brings insights.

- 2. To operate a free floating e-bike sharing system economically, it needs:
 - intelligent technical systems
 - → early implemented automation (e.g. processes, monitoring)
 - → scalability possibilities (interface capability)



2. B2B Pilot Zürich25+



2. B2B Pilot Zürich25+

17557.4 km

Zürich

Melbourne

- 6 weeks
- 8 companies
- 357 customers



Goals & data findings

Goal:

Understand use case B2B (scalability)

Where can value be created?

Optimization expenses

Multi client capability

Technical development:

Bike:

Theft protection

Tools:

For B2B customers to rent,
App for administrators

Operation:

Initialization service team

→ simplyfied fleet management tool

Measurements:

User behavior

System stability & reliability:

- → GPS accuracy (from 150m to 0-2m)
- → Accessibility of bikes

Lesson learned:

- → Frame size
- → Operating costs
- → Weather



2. B2B Pilot Zürich25+

Customer and employee feedback → great enthusiasm

«Good vibes, positive feedback»

«Increases efficiency»

«We want to have»



Osterwalder Business Models



Städte Unternehmen

Bewirtschafter IT-Dienst-leister

Bike-Lieferant



Garantieren, dass Bikes zur richtigen Zeit am richtigen Ort in der richtigen Menge und Qualität sind



Bikes Ladeinfrastruktur Bewirtschafter und

Kundenservice



COST CENTRES



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CLIENTS

Pendler **Business User** Ausflügler

Unternehmen / Mitarbeiter



CHANNELS

App Website

Bike

Social Media

Flottenmanagement-System



REVENUE STREAMS

Kosten für Bikes, Software, Betrieb IT, Bewirtschaftung, Löhne, Marketing/Sales,



Nutzungspreise (pro Minute, in Zukunft Abos): Werbung auf Bike; Lizensierung der Software, Flottenmanagement-Fee

TAKE AWAY 2

With increased knowledge business cases develop further

That means for a project team:

- being flexible in one's own idea: nothing remains as it is
- working agile with open and changeable systems and structures
- make quickly new approaches and test them



3. B2C Pilot Zürich200 The first free floating offer for flexible mobility.







Goal

1. 300m

2. Co-Production/Co-Creation

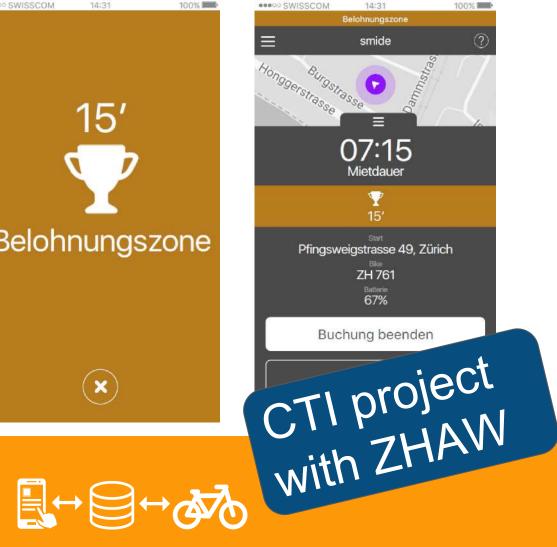
3. Further measurements on behavior



Getting customers to do the job for you





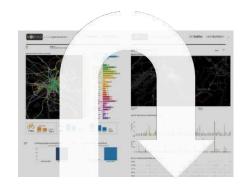




TAKE AWAY 3

- 1. Pilot means: develop MVP's
- 2. Keep your head up
- 3. Be always one step ahead.

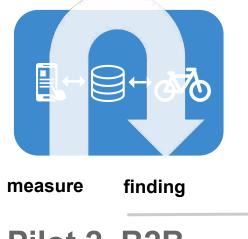
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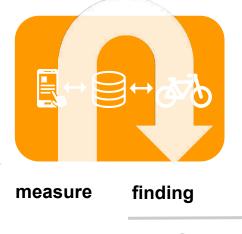
measure

finding

Pilot 1 B2E

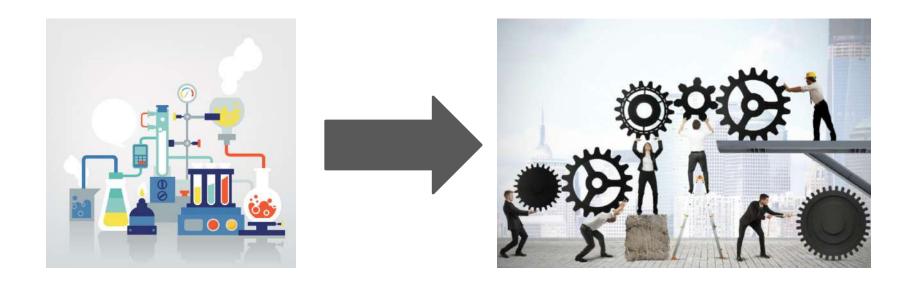


Pilot 2 B2B



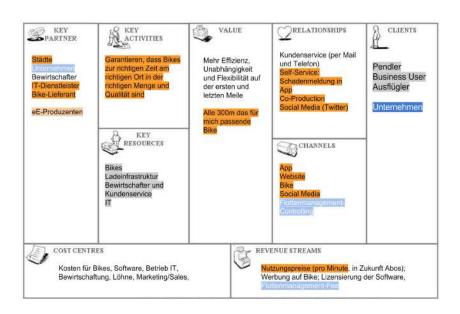
Pilot 3 B2C

NEXT STEPS



From experimentation to operation!

NEXT STEPS



B2B2C?

- → filling low capacities?
- → e.g. garage or hotel

Scaling?

- → New cities, countries, companies?
- → Selling SW/HW-package or only SW?

Refining the Business Model

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