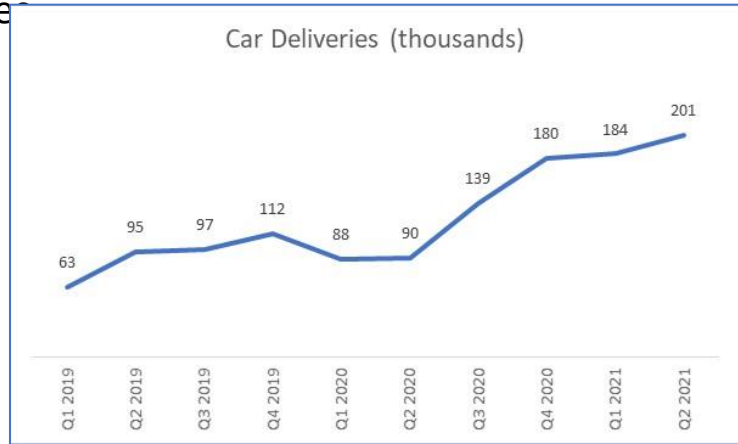


Agenda

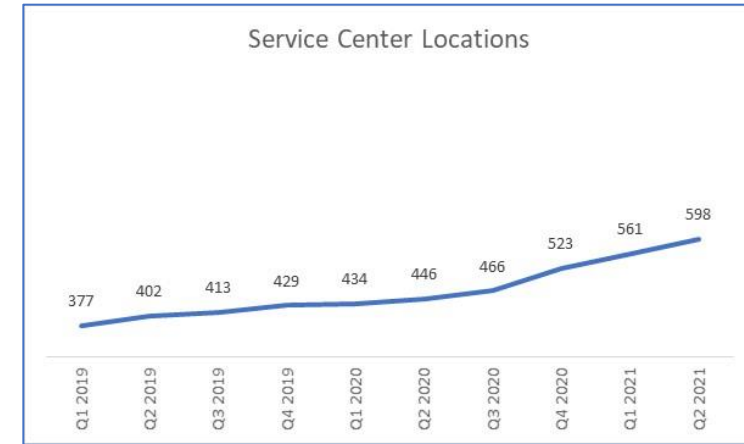
1. Current Situation
2. Problem Identification
3. Problem definition and Strategy
4. Detailed process for 'touchless' experience
5. Potential problems – Risks
6. Financial Analysis
7. Requirement's prioritization
8. Conclusions
9. Recommendations

1. Current Situation

Car company Cars deliveries (Sales) had been increasing steadily in the last years. In Q2 2021 there's been a peak of 201K sales



..The Amount of service center, nevertheless, has no increase in the same pace



In order to get in pace with the peaks in sales, Car company Service team has made huge efforts during the last years:

Mobile APP service appointments



Mobile Service 'Car company Rangers'

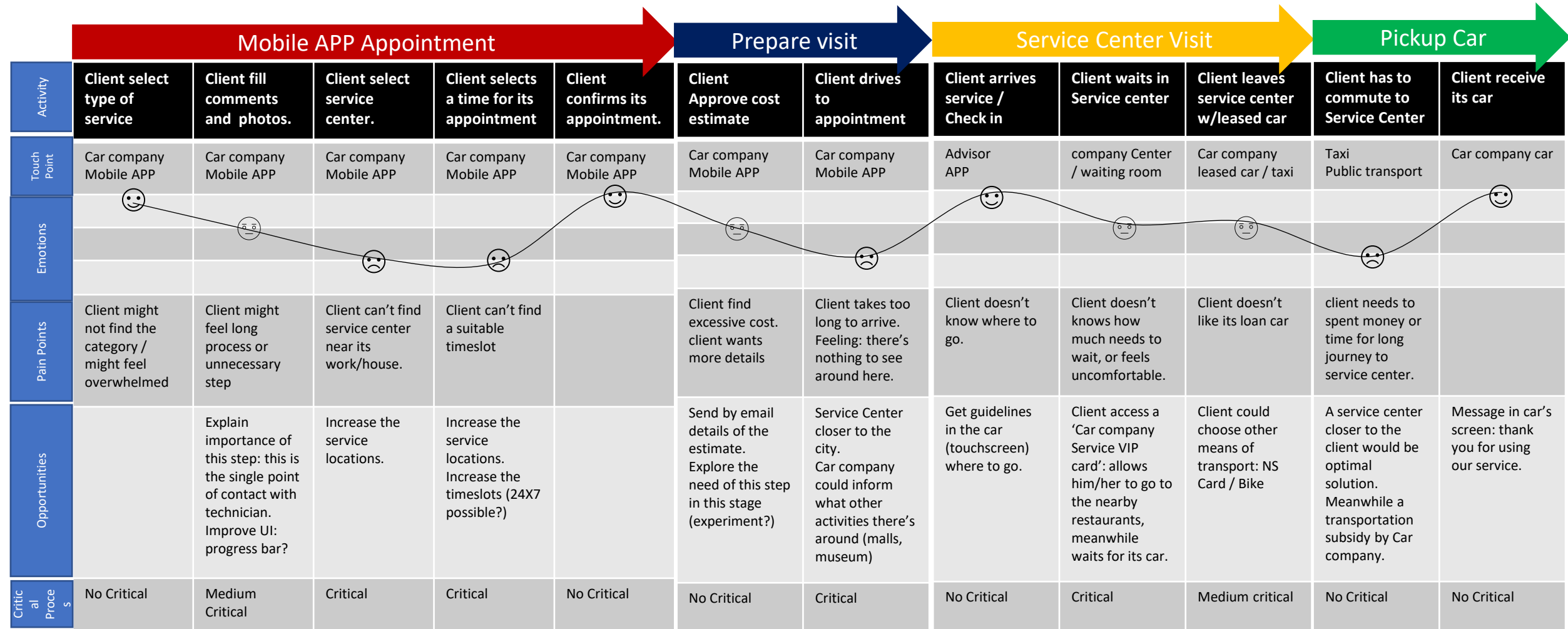


More Service Center



2. Problem Identification

To identify the problem/ main problems from our customers in the service center / rapair process, is important to understand the customer Journey and identify pain points in each phase.



From the CJM the critical painpoints are related to:

- Importance to let the details of the repair clearly in the APP
- There's not enough service centers available

3. Problem definition and Strategy

Previous research has helped to understand and define the problem to tackle:

How might Car company

1. Enhance the customers experience in the service centers,
2. Keep its employees motivated, and
3. Be more costly efficient at the same time?

Solution - Car company 'Tech only Service Center'

1. Inexpensive implementation

- Tech only Service center will not have customer representatives in store, but they will work remotely
- Tech only service center will be smaller than the big regular centers, its capacity will be around 50% of the large ones, with no 'client's waiting room'
- For the same reason, the space rental will be considerably lower

3. Great Customer Experience

- Tech service appointments should be through the APP
- Details where to park, pickup car, return loan car should be in the APP / screen
- Car company Advisors will be phone available during whole process
- Status of the service in the mobile APP should be frequent and accurate

2. Near to the customer

- Tech only service center should be located in the city.
Amsterdam example: Oud-zuid, Park de meer, oud-west
- Tech only service center should be located not far from attractions such as malls, restaurants, etc.
- Tech only service center in city generates a virtuous circle

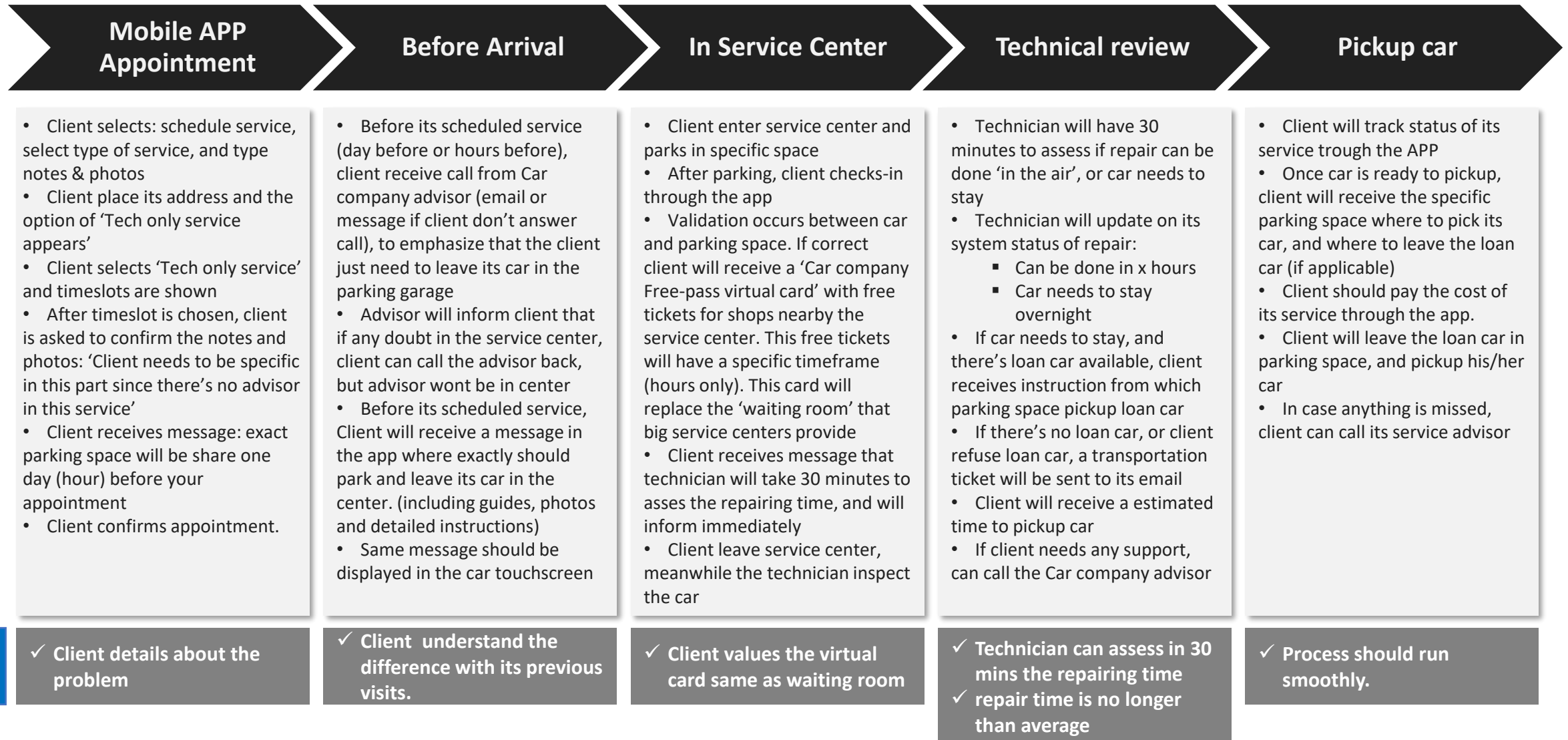
4. Maintain employees' satisfaction

- "In house" advisors will be supporting clients from a remote location (or home)
- Advisors will have the opportunity to develop in the company:
 - Collaborate with the "Car company mobile rangers" team
 - Collaborate with the CX team as "voice of the customer".

'Tech Only Service Center' Strategy Pillars

4. Detailed process for 'touchless' experience

Based in previous pillars, the 'touchless' process should be the following:



5. Potential problems - Risks

Previous 'key factors' for success are also risks in the implementation. This action plan could be considered in case the problems persist.

Problem	Action plan
Client don't leave details of the service in the mobile APP (no photos, no comments)	One more step should be added in the service appointment process: after selecting 'tech only service' client should confirm its comments, or for some specific services a photo is compulsory. otherwise wont be possible to continue.
Client leaves its car in different parking space that the one specified	Parking spaces should have a sensor/mechanism to identify the car is correctly positioned. If is not correct a message will be sent to the client to move the car. If after some time client don't move the car a call from the advisor will be required.
Client is annoyed that there's no waiting room in tech only service center	After service survey will include a specific question about the replacement of the waiting room with the 'Car company free-pass Card'. In case negative feedback client will be remember to choose other service in next appointment (message in the app).
Technician takes more than 30 minutes to assess repairing time	In case there's no update from technician after 40 minutes, an automatic message will be sent to client informing that repair wont be 'in the air' and might take more than 4 hours, and client can pickup loan car (if applicable). If happens frequently: adjust SLA
Repair time takes longer than average	In order to don't create a 'bad reputation' to the Tech only Service Centers, some services/repairs that usually are 'complicated' and uncertain in the repairing time shouldn't be considered for this channel. This will require an extensive analysis to don't give the perception of 'limited services' to the Tech only Service centers.

6. Financial Analysis

- From the financial point of view, we need to consider that the tech service center is a side project to the main Car company business: Cars Sales
- Therefore, the ROI on this project will not be as large as another Car company Business

Revenues for 1 Service Center

= (Average ticket for a car visiting the service) X (Amount of cars visiting the tech service center)

Average ticket = € 334.6/year

Number of Services = 2,304/year (10% increase every year)

Revenue in 10 years = € 13,316,384

Costs for 1 Service Center

- Rental expense for tech service center = € 450,000/year
- Leased equipment = € 24,000/year
- Payroll = € 3,480,000/10 years
- Reparation cost = € 50/car

Costs in 10 years = € 8,917,458

= € 4,4m in 10 years
ROI = 49%

Please forward to
'Appendix' for details on
this calculation

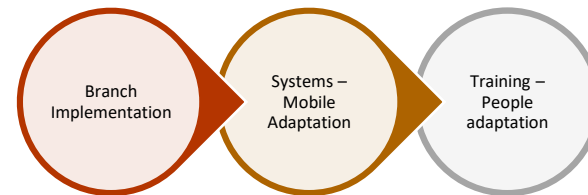
7. Requirement's prioritization

How to prioritize all the requirements?

There are several teams involved in this project:

- Real state team: To find a proper space.
 - Branch implementation team: To lease equipment and make the service center up and running.
 - CX Mobile Team: to make adjustments in the APP
 - Car company Advisors team: To train in its new function for remote service.
 - Technicians team: To train them in the updates in the app for the new Journey
- ... and probably others that I'm missing.

In a high level overview, the process should follow:



Enter into more details and assumptions would take much more time to develop. To come with a proper prioritization, I'd use scrum-agile (for example to have an MVP in the Mobile app changes).

8. Conclusions

- Due to the exponential sales in Car company Cars, the number of service centers need to increase quickly.
- **My case has focused in opening new service centers, more than replacing the current ones.**
- Car company shouldn't focus in big service centers, but in many small ones inside the city, this will also generate branding and create a virtuous circle increasing more sales.
- Car company client is already experiencing 'Touchless' service experiences with the 'Car company rangers', so the transition shouldn't be a problem.
- Competition is fierce in the EV sector in Europe, and Car company can't expose to bad advertising. Employees in the service centers should evolve and Car company should use its expertise in many other departments.

9. Recommendations

- Open new 'tech only' service centers, clients will have a smooth transition.
- The main point of contact for scheduling appointments is the mobile app, Car company should enhance the capabilities in the software development team to have the app always up and running.
- Marketing team should increase communication about the importance of being specific in the appointments (take photos, comments, etc), this will help the technicians and the client to repair faster.
- Car company should use the service advisors as part of their CX team, to understand better their customers.

Appendix

Revenues

Repair Service	Cost	Average	Prob event	Cost
Brake caliper replacement	\$357 - \$593	475	0.1	47.5
Oxygen sensor replacement	\$271 - \$444	357.5	0.1	35.75
Window motor regulator replacement	\$592 - \$851	721.5	0.15	108.225
Wheel bearings replacement	\$325 - \$394	359.5	0.2	71.9
Repair cost in 5 years				263.375
Repair cost per year				52.675

Year	Maintenance Service	Cost
1	Tire rotation	100
2	Full service with A/C	525
3	Tire rotation	100
4	Full service with brake flush	585
5	Tire rotation	100
	Total maintenance 5 years	1,410
	Maintenance cost per year	282
	Total (Maintenance + Repair)	334.675

This calculation
just for the
Average Ticket

Source for maintenance costs: <https://www.motor1.com/reviews/406938/Car-company-maintenance-cost/>

Year	Amount of Services	Revenue
1	2,496	835,349
2	2,746	919,018
3	3,021	1,011,053
4	3,323	1,112,125
5	3,655	1,223,237
6	4,021	1,345,728
7	4,423	1,480,268
8	4,865	1,628,194
9	5,352	1,791,181
10	5,887	1,970,232
Total Revenues		
10 years		13,316,384

Amount of services =
8 services per day x 25 days per month
x 12 months.

Amount of services increase in
10% every year.
Revenues = Amount of services x 334.6
EUR (average Ticket).

Costs

Payrolls

- Manager: 1 for 72K per year
- Admin: 1 per 36K per year
- Technicians: 3 in first 3 years. 4 in 4 next years, 5 in last 3 years. Each of them with 60k per year

Year	Technicians	Admins	Manager
1	180,000	36,000	72,000
2	180,000	36,000	72,000
3	180,000	36,000	72,000
4	240,000	36,000	72,000
5	240,000	36,000	72,000
6	240,000	36,000	72,000
7	240,000	36,000	72,000
8	300,000	36,000	72,000
9	300,000	36,000	72,000
10	300,000	36,000	72,000
Total	3,480,000		

Reparation

Reparation cost is a % of the average maintenance ticket: 15%
 $0.15 \times 334 = 50$

Rental

Rented Space is 80 x 80 m2
Cost per m2 per year is 50 EUR
Total rental cost per year = $80 \times 80 \times 50 = 320,000$

Total Cost 10 years:

Rental: $320,000 \times 10$
Leased Equipment = $24,000 \times 10$
Reparation Cost = $0.15 \times 334.575 \times 39,789$
Payroll = 3,480,000

Total costs 10 years = 8,917,458