1.

Risks General

* The project has a tight deadline as the project needs to be finished when the UAM Vehicle Sharing Software System is expected to be finished.
* The company can go bankrupt if it does not succeed in the project.
* New technical personnel may not be trained in the project domain, and both the tools and architecture may feel foreign to them.
* Working with a external company may delay in the schedule due to late delivery of project components
* Components produced by DATAPRIVÉ may not reach the expected quality.
* Incompatible external components due to non-compliance with specifications provided.
* Poor support for external components as they were not built by the main team.
* The external company SOFTCOM S.L. might ask for a higher budget
* The external company SOFTCOM S.L. might not finish their part in time
* The external company SOFTCOM S.L. might propose a redesign for a better implementation of the payment.
* The external company SOFTCOM S.L. might go bankrupt in the process

Risks Ours

* Paypal expert missing
* No one uses the app. (or not publishing enough rides)
* Carsharing regulation interference with application use.
* personal data
* Workers leave not ending contract
* Inadequate design
* Proposed technology goes out of style
* Increase in prices to upload app on the platforms (app store and google play)
* Insufficient computer resources to accomplish timeline
* Software problems found on the testing and installation that may delay everything
* Lack of expertise with Google Maps SDK or their API DIRECTIONS
* The app speed may differ greatly between devices and internet connection speeds
* The app pioneers on its domain, and inconveniences may appear
* The client may want to see a bigger picture regardless of the increments delivery rates.
* There are differences between developing for IOS and Android, and the team may have to split up or delay some tasks
* Legal problems with app name rights
* Server capacity and budget may be exceeded
* Potential data loss, where personal user data and money in the app could be compromised.

| The project has a tight deadline as the project needs to be finished when the UAM Vehicle Sharing Software System is expected to be finished. Failing would cause bankruptcy. | 0,7 | 0,8 | 0,56 |
| --- | --- | --- | --- |
| New technical personnel may not be trained in the project domain, and both the tools and architecture may feel foreign to them. | 0,9 | 0,3 | 0,27 |

| The external company SOFTCOM S.L. might not finish their part in time Working with a external company may delay in the schedule due to late delivery of project components | 0,5 | 0,8 | 0,4 |
| --- | --- | --- | --- |

| Lack of expertise with Google Maps SDK or their API DIRECTIONS | 0,6 | 0,4 | 0,24 |
| --- | --- | --- | --- |

| Name | Description | Classes | Categories | LIkelihood | Impact Factor | Risk Exposure | Priority | Breaking Point/s | Preventive action/s | Mitigating action/s | Exrended Description |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**RK1**

**Name**

Deadline

**Description**

As a consequence of not estimating correctly the time, a risk of not having the project in time for the deadline may occur, it will happen that the company will go bankrupt.

**Classes**

Project risk:

This risk is considered as a project risk because of the poor estimation of what the project will last.

Business risk:

This risk is considered a business risk because the company would declare bankruptcy if in the deadline the project is not finished.

**Categories**

Estimation and cost:

The company performs a lack of good estimation regarding the time the project would be complete, therefore unrealistic schedules are done.

**Likelihood**

Low: 0,4. As the project estimation was done with the Microsoft Project tool, the estimation would be more likely to be correct.

**Impact Factor**

Very High: 0,8. The company is forced to finish the project before the deadline, not doing so would cause the company to go to bankruptcy.

**Risk Exposure**

A total of 0,32 would be obtained.

**Priority**

According to the results obtained in the risk exposure (0,32), this risk would be the top priority, which makes sense as the result would be to close the company.

**Breaking Points**

Deadline is achieved without having finished the project.

**Preventive actions**

The preventive actions would be as follows:

* Perform a feasibility study, in order to consider all of the project relevant points and perform a good estimation.
* Have a milestone at the end of each phase to control the development of the project that is being carried out on time.
* Give a higher priority to the analysis phase in order to have a correct estimation of the time.
* Hire a team with experience in projects with tight deadlines.

**Mitigating actions**

Talk to a notary and start negotiations with creditor in bankruptcy

**RK2**

**Name**

New personnel training

**Description**

New technical personnel may not be trained in the project domain, and both the tools and architecture may feel foreign to them, increasing the time needed to finish the project and decreasing production.

**Classes**

Technical risk:

This risk is considered technical because the lack of training in the project domain means a threat to the project quality.

Project risk:

This risk is considered a project risk because the lack of training in the project domain can end up meaning a delay in the software production schedule.

**Categories**

Personnel management:

A shortage of qualified personnel affects personnel management directly as it is related to the personnel hired.

**Likelihood**

As the new personnel is already hired the likelihood is known to not have a lot of experience and this is not expected to change soon. Therefore, the likelihood for this risk to happen is high.

**Impact Factor**

The lack of training in the project domain would impact the project, as deadlines are tight and budget is already high, but as the project continues, the personnel would gain experience of the project domain and the problem would fade away. This is why the impact factor is medium.

**Priority**

As the impact factor of the risk is only medium, the priority of the risk is the fourth, because other risks deserve more attention and higher priority.

**Breaking Points**

The breaking point for the team to give up the project due to this risk will be when after too much money is invented for training the team is still not trained enough for the project. As the salaries of the team const 1450 € a day we put the breakpoint at one week of training without working. If this is exceeded and the team is not prepared enough, the project should be canceled.

**Preventive actions**

The preventive actions would be as follow:

* To prevent the lack of training of the team we should train the new personnel on the project domain.
* The team selected to be in charge of the project should be the most experienced with the project domain.

**Mitigating actions**

The corrective or mitigating actions would be as follow:

* To mitigate the risk of the lack of training in the project domain a professional with experience on the project domain could be hired to help and guide the team.

**RK3**

**Name**

SOFTCOM deadlines

**Description**

The external company SOFTCOM S.L. might not finish their part in time Working with a external company may delay in the schedule due to late delivery of project components

**Classes**

Project risk:

This risk is considered a project risk because if SOFTCOM misses their final deadline, all the work on top of their final product can not start until they finish, thus delaying the whole project timeline and threatening the project plan.

**Categories**

External sources:

The company we hire is external to our company hence there are decisions within that company that are out of our control.

**Likelihood**

SOFCOM is the only company that has accepted this project with the proposed budget so that might be a hint about their quality, also some critics about the company are not very positive. Nevertheless, there are some good critics, and they are a still existing company (indicating they have projects and more companies trust in them). In a nutshell, there is a 50% (medium) likelihood of them missing a deadline.

**Impact Factor**

If the SOFTCOM company misses their deadlines, this will be a high impact for the project because it would mean our entire timeline is delayed, and this would mean making it tighter in the final stages which might cause our company not to finish the project in time.

**Priority**

This is the second risk with more priority behind RK1 this is because its probability is medium and the impact is high making it something to be very aware of and careful.

**Breaking Points**

When SOFTCOM misses their deadline, a meeting with them will be set where the reasons for their miss will be exposed, once that happens, the initial extra time for them to finnish will be two weeks (Although this can vary depending on the progress they have made and the reasons for the delay).

**Preventive actions**

Weekly meetings with the external company to check on their progress

**Mitigating actions**

There are two possibilities once this happens, either hire a new company (which would probably mean spending a higher budget because no other company was willing to take our initial offer, and also the company would have to be very fast so as not to interfere more time with other development teams ) or hire more personnel for the project which would allow the company to keep working on the project while an specific team is dedicated to make the part of the software that was initially thought to be purchased from another company.

**RK4**

**Name**

New technical personnel training risk

**Description**

New technical personnel may not be trained in the project domain, and both the tools and architecture may feel foreign to them, increasing the time needed to finish the project and decreasing production.

**Classes**

Technical risk:

This risk is considered technical because the lack of training in the project domain means a threat to the project quality.

Project risk:

This risk is considered a project risk because the lack of training in the project domain can end up meaning a delay in the software production schedule.

**Categories**

Personnel management:

A shortage of qualified personnel affects personnel management directly as it is related to the personnel hired.

**Likelihood**

As the new personnel is already hired the likelihood is known to not have a lot of experience and this is not expected to change soon. Therefore, the likelihood for this risk to happen is high.

**Impact Factor**

The lack of training in the project domain would impact the project, as deadlines are tight and budget is already high, but as the project continues, the personnel would gain experience of the project domain and the problem would fade away. This is why the impact factor is medium.

**Priority**

As the impact factor of the risk is only medium, the priority of the risk is the forth, because other risks deserve more attention and higher priority.

**Breaking Points**

**Preventive actions**

**Mitigating actions**