**Driverless cars in security on the roads**

**Document Control**

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Document Approvals

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| --- | --- | --- | --- |
| **Role** | **Name©** | **Signature** | **Date** |
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| Project Office Manager  *(if applicable)* |  |  |  |

# Executive Summary

Today’s world is so advanced that at one moment you might think that all the problems already have been solved by others during this century. However, it is not true as there some modern problems that need our attentions paid to in order to be resolved properly. Now, while world is much more concentrating on climate change as its consequences is believed to lead to natural disasters such as tsunami, high-levelled earthquakes and melting of ice glaciers on both poles that in turn might create a domino effect by exacerbating a new sort of problems. But, before being so involved in climate-change-related problems some modern tech problems do deserve our attentions in the same way as that is absolutely thought to have a domino effect as well. One of them is how we can decrease the casualties’ rate happening on the roads by launching driverless cars into the roads and how it will be perceived by other countries if the goal we have set is already being achieved by other countries in the world. That is, the goal of the project will be to lower road-related emergency cases in order to make driving on the road much more secure than it was before with mechanic cars that required drivers to steer. At the same time, it might be the reason for developing a new type of driverless cars that creates competitional spirit among the car business leaders by igniting the inspiration on these high-tech cars. As it is already supported project by famous car company Tesla that in fact might encourage others to see its advantages on the roads and make them to change to driverless cars. Its timeframe to be fully supported by others is expected to show a steady transition of people to these cars within these decades.

# Background

## History

There are plenty of features that allow autonomous cars to operate on their own while monitoring the objects in their surroundings. These tools use various sensors to collect data and make decisions on their own. With the same features Tesla company is making people to place a faith on how brightly would be our future if there was a complete transition to these driverless cars. Tesla has already rolled out autonomous features much faster than its competitors. In September, the company announced that it would allow drivers to test its Full Self-Driving technology on a limited number of Tesla cars. The company noted that the technology can allow the drivers to safely navigate across various scenarios while monitoring the objects in front of them.

## Requirements

Business Problem

The autonomous cars are main reasons for 1.3 million people dyeing every year globally by being the leading cause of death in people under 30.

Business opportunity

The opportunity that these cars provide is that it is already supported by others and they know that this change will have positive effect on the safety of the roads. There will be greatly improved safety with its high-levelled interconnectivity, reduced congestion and reduced pollution and emissions. For elderly, young and disabled people it would be useful to commute on the driverless cars to their destinations by elevating mobility options to new levels. In terms of other opportunities, it is expected to have greater convenience, efficiency and reliability. For the last part, there would be reduced costs and maintenance requirements in respect to these self-driving cars.

## Solution

The promise of driverless cars has been around for a long time. It could transform our daily commute and make our cities more sustainable. It could also make our travel safer.

Greater Road Safety

Increased autonomy has the ability to eliminate unsafe and dangerous driving habits. Reduced devastation from intoxicated driving, narcotic driving, unbelted car occupants, speeding, and distraction may hold the most potential.

Greater Independence

Blind people, for example, are capable of self-sufficiency, and highly automated vehicles can assist them in living the life they desire.

Saving Money

Medical fees, lost work time, and vehicle maintenance are all costs that can be avoided with HAVs.

More Productivity

All occupants could safely engage in more productive or interesting activities, such as responding to emails or watching a movie, in a completely autonomous vehicle.

Reduced Congestion

HAVs maintain a safe and consistent distance between vehicles, helping to reduce the number of stop-and-go waves that produce road congestion.

Environmental Gains

Less traffic saves fuel and reduces greenhouse gas emissions from unnecessary idling.

# Proposal

## Vision and Goals

*“Our vision is to improve safety on the roads till the end of the decades in order to provide people with the full transition to driverless cars”.*

1. *“To roll our more driverless cars by 2030”*
2. *“To fix some problems related to our driverless cars”*
3. *“To enter some driverless car ethics into the law in order to match with road policy requirements ”*

## Deliverables

Every project produces deliverables which form part of the solution that solves the business problem or opportunity. These deliverables with are key to the success of the project and they also define the scope of what must be produced. Therefore it is critical that you list all of the key deliverables that are to be produced in as much depth as possible.

Use the following table to describe deliverables to be produced by the project. Note: a deliverable is something that is produced that is handed over to the customer at the end of the project, as part of the solution. It might be a new product, a new service or a new system for instance.

|  |  |  |
| --- | --- | --- |
| **Project Deliverables** | | |
| **Title** | **Description** | **Notes** |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |

## Timeframe

All projects must be delivered within a specific *timeframe*. Every business problem or opportunity must be solved by the project within a specific timeframe to maximize the value to the business.

This timeframe is critical to success, because if the project delivers the solution after the timeframe specified, then the business may not benefit to the level that was intended.

So you need to specify the timeframe for delivering the project. Describe what the timeframe is and why it is so important that the project deliver the solution within this period of time.

[Specify the timeframe here]

Ideally you will also include an initial *project plan* for the delivery of the project. Although it is very early stages, the reason for this is that it gives your Project Sponsor confidence that everything has been thought through and that the project can realistically be delivered within the timeframes specified.

Here is an example of a generic project plan:



[Include your [Project Plan](https://www.projectmanager.com/templates/project-plan-template) here]

## Resources

In order for your sponsor to approve the Project Proposal, they will want to have an understanding of the amount of resources required to undertake it. Complete the following table which sets out the generic resources including *people*, *equipment* and *materials* needed to undertake the project. These are only generic figures to give the Project Sponsor an idea of the level of resourcing required to finish the project.

|  |  |  |
| --- | --- | --- |
| **Project Resources** | | |
| **Type** | **Quantity** | **Notes** |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |

## Budget

Since you’ve specified above the type and quantity of resources required to undertake the project, you will have a general feel as to the size of budget needed also.

The Project Sponsor will always want to know how much it is going to cost them. Estimate the total budget for the project based on the cost of the resources specified in the table above. Then add contingency and any other additional costs need to be factored in. You need to consider whether to include intangible costs also, like the cost of downtime or the cost of a change in culture or process within the business.

[Write the Budget here]

If you are able, provide a calculation of the *Return on Investment* for the business. This is simply a formula which shows the additional revenue or benefit that will be gained by the business versus the additional cost, over time.

For example, the cost of the project may be $100,000 however the business may gain $300,000 in benefit over the first 12 months after the project is complete. Therefore the return on investment is $200,000 over the first 12 months.

[Describe the Return On Investment here]

## Ownership

You need to make clear in this document; who owns the project delivery, who the project is being delivered for and who will be kept informed of the status of the project during its life cycle. Note:

* ***Project Sponsor:*** This is the person responsible for the delivery of the project. The Project Manager will report correctly to them.
* ***Customer:*** This is the person who will take ownership of the deliverables once the project is complete. This is also usually the person paying for the project.
* ***Project Manager:*** If the Project Manager is known at this time, then please add them to the following table. However often at this stage, a Project Manager may not be appointed until the document is approved. Complete the following table to make these facts clear:

|  |  |  |
| --- | --- | --- |
| **Project Ownership** | | |
| **Role** | **Name** | **Contact Details** |
| Project Sponsor | [list here] | [list here] |
| Project Customer | [list here] | [list here] |
| Project Manager | [list here] | [list here] |

## Reporting

Every Project Sponsor is concerned about not receiving the right information at the right time. Use this section to describe how you are going to communicate the status of the project regularly to all of the project stakeholders (including the sponsor, customer, team and any other vested parties).

This includes describing whether you are likely to run weekly team meetings, have a project blog, distribute project reports or use [project management software](https://www.projectmanager.com/) that comes with a dashboard for everyone to log in and see the status of their projects.

[Write your content here]

## Risks & Issues

Risk and issues occur which try and prevent the project from producing the deliverables on time. Use the following two tables to list all of the known risks and issues upfront.

* ***Risks:*** A risk as defined as “any event which could take place *in the future* that will prevent the project from producing the deliverables on time”. For instance, a risk might be that the business is unable to resource the project fully as required. For each risk, you need to specify the likelihood of it occurring (high/medium/low).
* ***Issues:*** An issue is “something that is *right now* affecting the project”. For instance, it might be that an issue is that at the moment, there is little funding available to initiate a new project such as this one. For each issue, you need specify the impact it is having on your ability to kick off the project.

|  |  |  |
| --- | --- | --- |
| **Project Risks** | | |
| **Risk** | **Details** | **Likelihood** |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |

|  |  |  |
| --- | --- | --- |
| **Project Issues** | | |
| **Issue** | **Details** | **Impact** |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |
| [list here] | [list here] | [list here] |

## Implications

You need to tell your Project Sponsor about the implications of not undertaking the project.

Given that the project is based on a real business problem opportunity, if that is not solved by initiating this project then what are the implications for the business?

Describe these implications here. If possible, quantify the cost to the business in *not* initiating the project.

[Write your content here]

## Success Criteria

Every Project Manager wants the project be a success. But what is it that defines success?

Is it that the project is delivered on time and budget, or that the project deliverables are produced to the level of quality expected. Is it that the customer was kept informed throughout the project and is happy with the result? Or is it simply that the business problem has gone away or the opportunity has been realized as expected?

You need to think about the success criteria carefully and then specify them here. We suggest listing five key success criteria, against which the project will be measured.

[Write your Success Criteria here]

## Authorization

This is the section in which your Project Sponsor will authorize the project if they want it to be initiated. If the project is authorized, then you have done a great job in completing this Project Proposal!

|  |  |  |
| --- | --- | --- |
| **Project Sponsor**    *Name:*  *Position:*  *Date: \_\_ / \_\_ / \_\_* | **Customer**    *Name:*  *Position:*  *Date: \_\_ / \_\_ / \_\_* |  |

# Appendix

## Supporting Documentation

Provide any documentation you believe supports this Project Proposal. It may be:

* Company history
* Research materials
* Statistics or estimates
* External quotes or tenders
* Detailed cost / benefit spreadsheets
* Other relevant information or correspondence. ©

[Include your content here]

**[](http://www.projectmanager.com/pricing?utm_source=project_manager_com&utm_medium=template&utm_campaign=word-proj-prop&utm_content=footer)**