# Appendix B Template for Assessment

#### Background

*[insert text on background to project, including photo and/or map of location]*

#### Objectives identification

*[insert text on the objectives of the assessment]*

# Existing scenario

*[insert text on the background of the existing situation]*

#### Setting the context

|  | **Prompt** |  | **Comment** |
| --- | --- | --- | --- |
|  | What is the reason for the **project**? Is there a specific crash type risk? Is it addressing specific issues such as poor speed limit compliance, road access, congestion, future traffic growth, freight movement, amenity concerns from the community, etc. |  | [enter comment] |
|  | What is the **function** of the road? Consider location, roadside land use, area type, speed limit, intersection type, presence of parking, public transport services and vehicle flows. What traffic features exist nearby (e.g. upstream and downstream)? |  | [enter comment] |
|  | What is the **speed** environment? What is the current speed limit? Has it changed recently? Is it similar to other roads of this type? How does it compare to Safe System speeds? What is the acceptability of lowering the speed limit at this location? |  | [enter comment] |
|  | What **road users** are present? Consider the presence of elderly, school children and cyclists. Also note what facilities are available to vulnerable road users (e.g. signalised crossings, bicycle lanes, school zone speed limits, etc.). |  | [enter comment] |
|  | What is the **vehicle** composition? Consider the presence of heavy vehicles (and what type), motorcyclists and other vehicles using the roadway. |  | [enter comment] |

**Safe System Assessment Framework**

#### Safe System matrix – Existing scenario

| **Run-off- road** | | **Head-on** | **Intersection** | **Other** | **Pedestrian** | **Cyclist** | **Motorcyclist** |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Exposure | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| Likelihood | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| Severity | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| **Product** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 448** |

| **Additional Safe System components** | | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pillar** | **Prompts** |  |  |  |  |  |  | **Comments** |
| Road user | Are road users likely to be alert and compliant? Are there factors that might influence this?  What are the expected compliance and enforcement levels (alcohol/drugs, speed, road rules, and driving hours)? What is the likelihood of driver fatigue? Can enforcement of these issues be conducted safety?  Are there special road uses (e.g. entertainment precincts, elderly, children, on-road activities, motorcyclist route), distraction by environmental factors (e.g. commerce, tourism), or risk-taking behaviours? | | | | | | | [enter comment] |
| Vehicle | What level of alignment is there with the ideal of safer vehicles?  Are there factors which might attract large numbers of unsafe vehicles? Is the percentage of heavy vehicles too high for the proposed/existing road design? Is this route used by recreational motorcyclists?  Are there enforcement resources in the area to detect non-roadworthy, overloaded or unregistered vehicles and thus remove them from the network? Can enforcement of these issues be conducted safety?  Has vehicle breakdown been catered for? | | | | | | | [enter comment] |
| Post-crash care | Are there issues that might influence safe and efficient post-crash care in the event of a severe injury (e.g. congestion, access stopping space)?  Do emergency and medical services operate as efficiently and rapidly as possible?  Are other road users and emergency response teams protected during a crash event? Are drivers provided the correct information to address travelling speeds on the approach and adjacent to the incident? Is there reliable information available via radio, VMS etc.  Is there provision for e-safety (i.e. safety systems based on modern information and communication technologies, C-ITS)? | | | | | | | [enter comment] |

# Proposed scenario

*[insert text on the proposed situation and treatment/s. Repeat section pending multiple options scenario]*

#### Setting the context

|  | **Prompt** |  | **Comment** |
| --- | --- | --- | --- |
|  | What is the reason for the **project**? Is there a specific crash type risk? Is it addressing specific issues such as poor speed limit compliance, road access, congestion, future traffic growth, freight movement, amenity concerns from the community, etc. |  | [enter comment]  [enter new comment] |
|  | What is the **function** of the road? Consider location, roadside land use, area type, speed limit, intersection type, presence of parking, public transport services and vehicle flows. What traffic features exist nearby (e.g. upstream and downstream)? |  | [enter comment]  [enter new comment] |
|  | What is the **speed** environment? What is the current speed limit? Has it changed recently? Is it similar to other roads of this type? How does it compare to Safe System speeds? What is the acceptability of lowering the speed limit at this location? |  | [enter comment]  [enter new comment] |
|  | What **road users** are present? Consider the presence of elderly, school children and cyclists. Also note what facilities are available to vulnerable road users (e.g. signalised crossings, bicycle lanes, school zone speed limits, etc.). |  | [enter comment]  [enter new comment] |
|  | What is the **vehicle** composition? Consider the presence of heavy vehicles (and what type), motorcyclists and other vehicles using the roadway. |  | [enter comment]  [enter new comment] |

**Safe System Assessment Framework**

#### Safe System matrix – Proposed scenario

| **Run-off- road** | | **Head-on** | **Intersection** | **Other** | **Pedestrian** | **Cyclist** | **Motorcyclist** |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Exposure | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| Likelihood | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| Severity | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 | / 4 |
| **Product** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 448** |

| **Additional Safe System components** | | | | | | | |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Pillar** | **Prompts** |  |  |  |  |  |  | **Comments** |
| Road user | Are road users likely to be alert and compliant? Are there factors that might influence this?  What are the expected compliance and enforcement levels (alcohol/drugs, speed, road rules, and driving hours)? What is the likelihood of driver fatigue? Can enforcement of these issues be conducted safety?  Are there special road uses (e.g. entertainment precincts, elderly, children, on-road activities, motorcyclist route), distraction by environmental factors (e.g. commerce, tourism), or risk-taking behaviours? | | | | | | | [enter comment]  [enter new comment] |
| Vehicle | What level of alignment is there with the ideal of safer vehicles?  Are there factors which might attract large numbers of unsafe vehicles? Is the percentage of heavy vehicles too high for the proposed/existing road design? Is this route used by recreational motorcyclists?  Are there enforcement resources in the area to detect non-roadworthy, overloaded or unregistered vehicles and thus remove them from the network? Can enforcement of these issues be conducted safety?  Has vehicle breakdown been catered for? | | | | | | | [enter comment]  [enter new comment] |
| Post-crash care | Are there issues that might influence safe and efficient post-crash care in the event of a severe injury (e.g. congestion, access stopping space)?  Do emergency and medical services operate as efficiently and rapidly as possible?  Are other road users and emergency response teams protected during a crash event? Are drivers provided the correct information to address travelling speeds on the approach and adjacent to the incident? Is there reliable information available via radio, VMS etc.  Is there provision for e-safety (i.e. safety systems based on modern information and communication technologies, C-ITS)? | | | | | | | [enter comment]  [enter new comment] |

# Comparison

*[insert text for comparison of existing to option/s]*

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **ROR** | **HO** | **INT** | **OTHER** | **PED** | **CYC** | **M/C** |  |
| **Baseline** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 448** |
| **Proposed / Option 1** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 448** |
| **Proposed / Option 2 etc** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 64** | **/ 448** |