RISSB Product Proposal (and Prioritisation)

(The information you provide in this form will be used to help stakeholders determine where this project sits within the railway's priorities.

The more thorough your submission, the better the decision-making process in prioritising new ideas.

Light blue italicised text is for guidance and can be deleted as the form is completed. Feel free to write more words, text boxes will expand as necessary.)

Primary information	
Type of product being suggested:	*Guideline*
Title of product being suggested:	*Guideline for the implementation of graffiti detection tools*
Date of suggestion:	*30 January 2019*
Reason for suggestion:	*Graffiti detection is an emerging technology for railway operators and maintainers to automate the identification of graffiti to improve deterrence and promptly perform rectification which improves passenger amenity.*
Railway discipline area:	*Maintenance*

Scope:
The scope of the document will cover the needs of operators / maintainers regarding the live, detection, identification of graffiti and associated data processing. It will include details such as types of graffiti detection, suggested interchange formats, data to be captured and proposed areas of integration with existing systems.

Objective:
The objective of the guideline is to provide an advice for suppliers in this emerging field regarding the needs of railway operators and maintainers.

Hazard identification: *(what safety hazards would the proposed document seek to address)*

1	*Graffiti vandals in the rail corridor.*	6	
2		7	
3		8	
4		9	
5		10	

Benefits: *(enter wherever applicable in below categories)*

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Safety
Improving the speed of identification and rectification of graffiti should improve deterrence to vandals and therefore reduce the risk of vandals being struck by rolling stock.
Improving customer amenity by reducing graffiti can improve passenger perception of safety.

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Improving customer amenity by reducing graffiti can improve passenger perception of safety.

Interoperability[i] / harmonisation[ii]

Harmonisation of terminology and data processing output.

Financial

Improving the speed and rectification of graffiti should improve deterrence to vandals and therefore reduce long term maintenance costs.

Environmental

Positive impact to visual environment by timely identification and removal of visually intrusive graffiti vandalism

Impacts:

Railway operating environments may greatly differ within Australia and therefore it may be challenging to develop a base level guideline for potential suppliers.

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i **Interoperability** is the ability of a process, system or a product to work with other process, systems or products (aka compatible systems through managed interfaces).

ii **Harmonisation** - the act of bringing into agreement so as to work effectively together (aka uniformity of systems).

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Other items to aid RISSB project planning

(This information will help RISSB plan the project should it be successful at prioritisation.)

Structure:	
(Any advice on how the product should be structured e.g. 'as per asset lifecycle' etc. This might be general advice, or it could be a first attempt at an actual 'contents page' if possible.)	

| **Reference / source materials:** *(This is very important; it will directly impact the tone/style/flavour of the product. It will also have a big impact on the research we will ask our Author to undertake and therefore impact timescales/cost. Do this section carefully because addition of new material later could impact on those. It may also be important here to stipulate reference / source materials that the SC would like to avoid.)* |

#	Reference / source material	Available from
1	*Graffiti Monitoring System (Jacaranda Flame Consulting, University of Sydney)*	*Fleet Branch, Infrastructure and Place, TfNSW*
2		
3		
4		
5		
6		
7		
8		
9		
10		

Assumptions:	
(There are many assumptions that are common across all RISSB projects – industry stakeholders will provide input and do it in a timely way, the promised reference materials will be available etc. This section is for assumptions specific to this project.)	
Constraints:	
(As above)	

Australian Standards considerations: (only applies if proposed product is to be a Standard)	
Does proposed Standard duplicate an existing Australian Standard *(Where such duplication occurs, justification or explanation shall be included in the standard)*	*yes /* no
(if yes – please list)	
Will proposed Standard be developed for conformance assessment purposes? *(relates only to inspection and testing activities subject external certification)*	*yes /* no
(if yes – please detail expected certification activities)	
Are there are any International Standards on the same subject	*yes /* no
(if yes – could Int.std.be adopted or used as a basis for this development	*yes* / no
(if no – please provide reasons)	

Expected effort required at key stages:	
Activity *(There are other activities in a RISSB project which are well understood and easier to control. This section relates to some of the more variable activities.)*	# Days *(Baseline estimates for consideration)*
The Author's research into the reference / source materials.	

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The Author's further (if required) development of draft headings for the document (including any work that may be required on the scope, purpose and hazard references).	
The Author's production of the draft content building on the above.	
The Author's production of a further draft based on Development Group comments on the above.	
The Author's development of the 'post public consultation' draft based on the guidance of the Development Group in addressing public comments. *(Try to imagine the subject of the product, how complex/political it is and therefore what the reaction might be at public consultation.)*	
Independent validation[iii] (applies only to standards).	
The Author's finalisation of the product incorporating Development Group's validation comments.	

[iii] Independent validation is to:

1. Check that clauses relate to the identified hazards
2. Check that the standard is of comparable quality to other similar domestic / international standards
3. Check that the standard is fit for the Australian railway (and is therefore nationally applicable)
4. Provide a recommendation for any deficiencies from the above