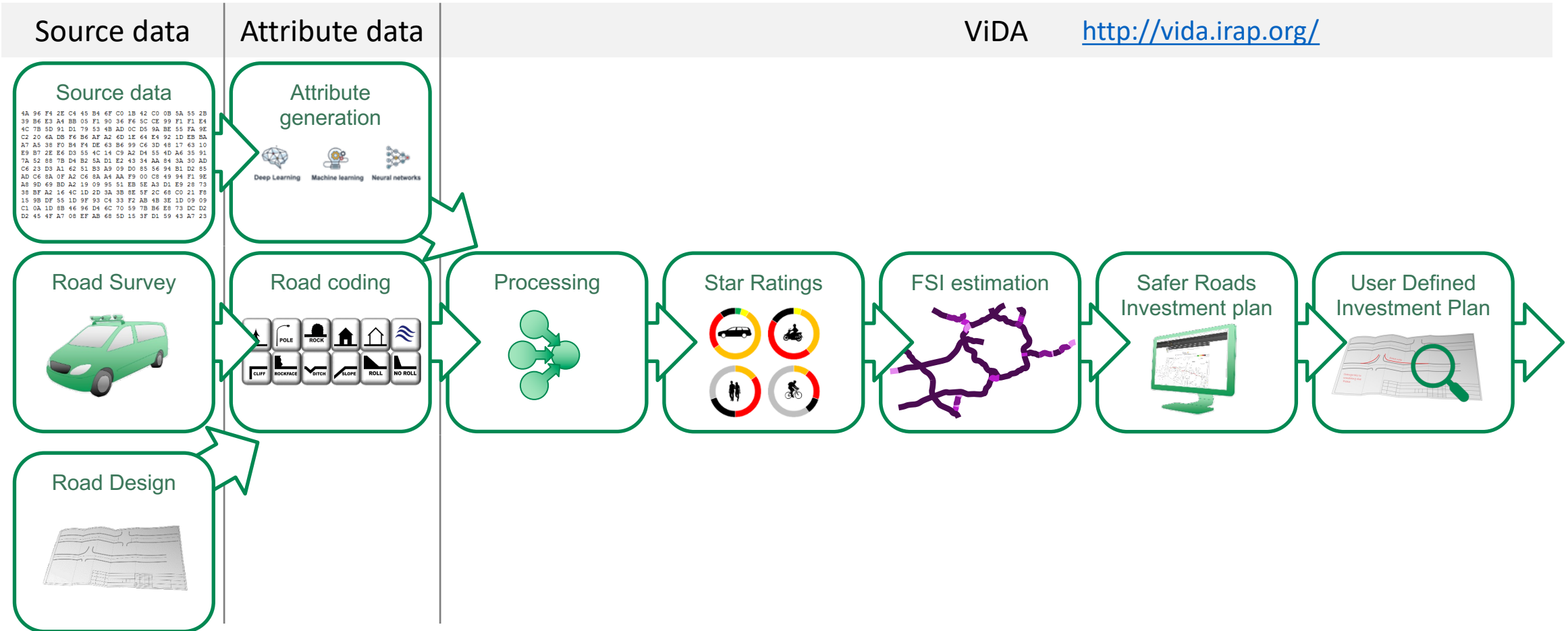


The Route Review Process

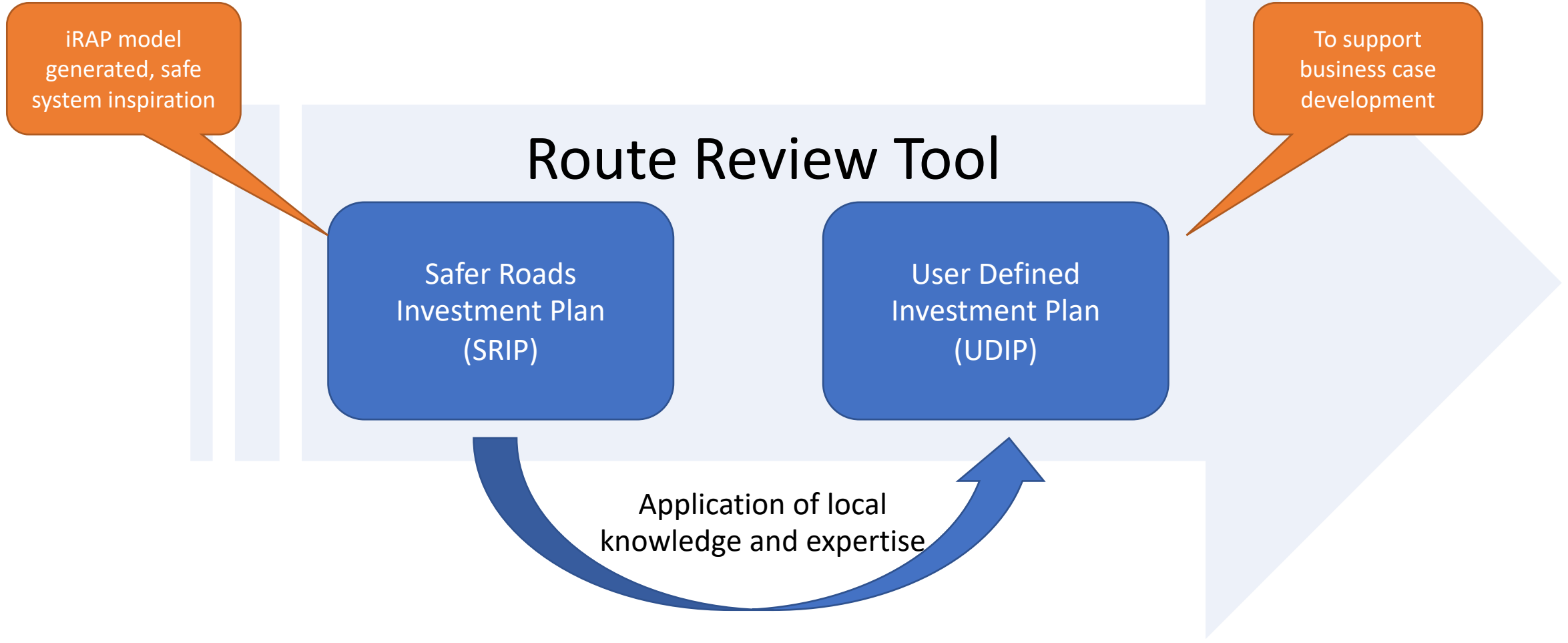


Dr Suzy Charman

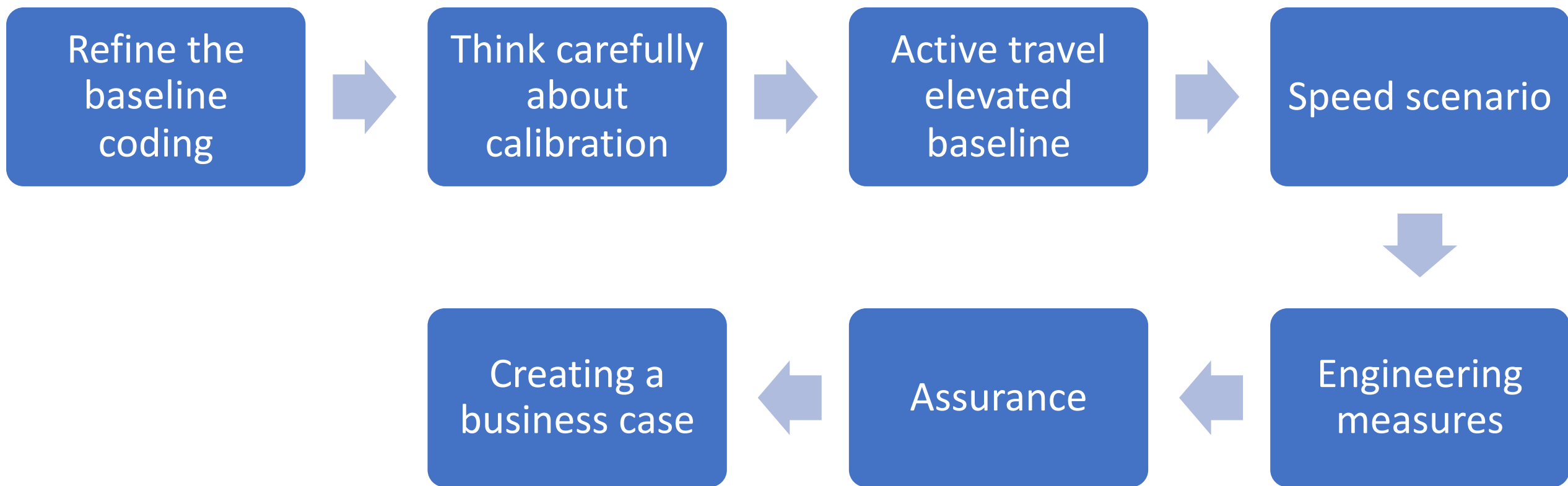
iRAP SRIP-UDIP



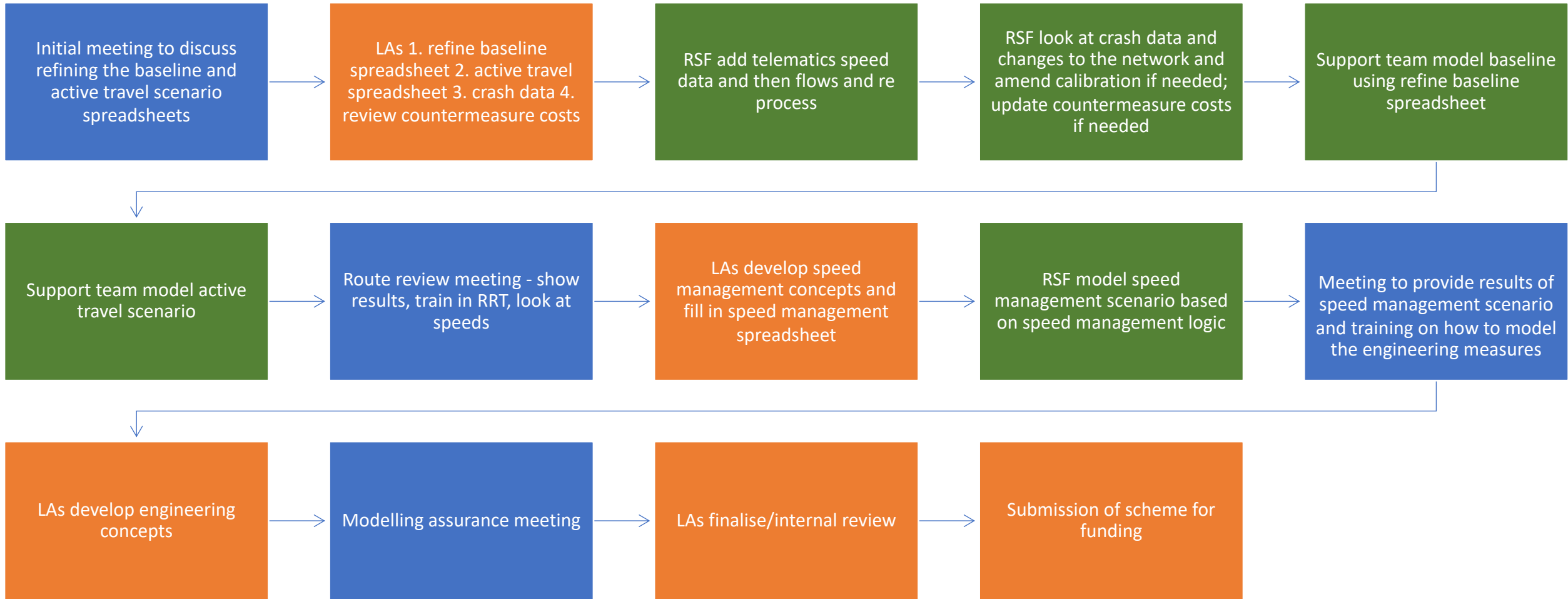
iRAP star rating for route review



Overarching approach we take

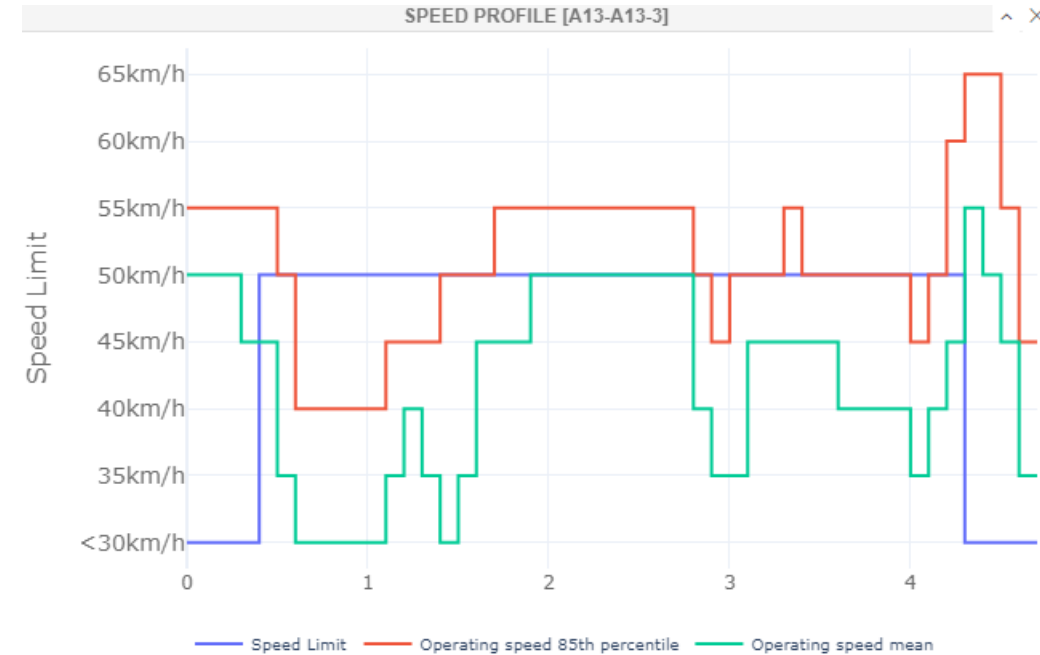


Safer Roads Fund Tasks



Refining the baseline coding

- Telematics speed data
- Pedestrian and cycle flows
- Review of baseline coding of junctions and intersecting road volumes



Road nam	Section	Distance	Latitude	Longitud	Carriageway	Streetview link	Vehicle flow (AADT)	Motorcycle %	Pedestrian peak hour flow along the road	Pedestrian peak hour flow along the road driver-side	Pedestrian peak hour flow along the road	Bicycle peak hourly flow	Junction type	Junction channelisa	Junction road volume	Junction quality	Property access points
A104_Part_	A104_Part_1	0	51.67486	0.062163	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Roundabout	Present	10,000 to 15,000 vehicles	Adequate	None
A104_Part_	A104_Part_1	0.1	51.67421	0.061174	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.2	51.67355	0.060196	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.3	51.67288	0.059222	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.4	51.67222	0.058245	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.5	51.67155	0.057272	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.6	51.67088	0.056306	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Commercial Access ≥1
A104_Part_	A104_Part_1	0.7	51.67021	0.055341	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.8	51.66956	0.054359	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	0.9	51.66889	0.053374	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	1	51.66823	0.052397	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	1.1	51.66757	0.051424	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3
A104_Part_	A104_Part_1	1.2	51.66689	0.050453	Undivided road	Streetview	5000	1% - 5%	101 to 200	201 to 300	201 to 300	501 to 900	Merge lane	Not present	10,000 to 15,000 vehicles	Adequate	Residential Access <3

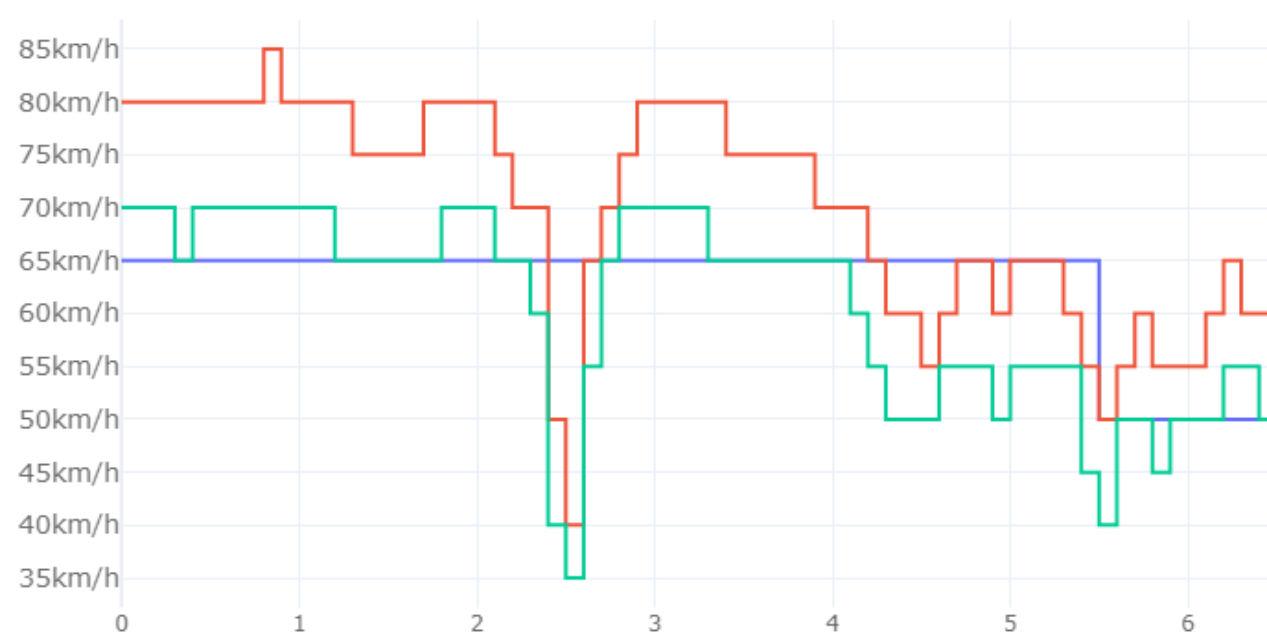
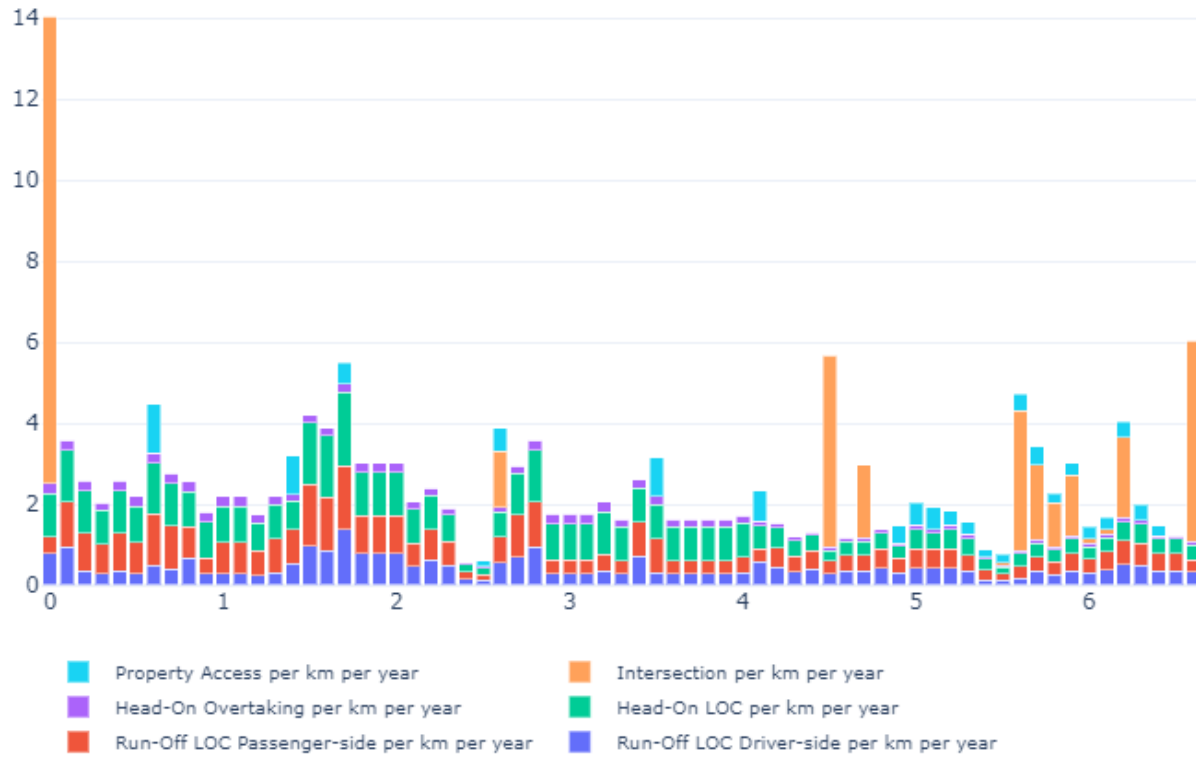
Careful calibration

- Huge challenges when you are calibrating on a route basis – low crash numbers
- Number of fatalities – derived from fatal and serious divided by typical ratio for road type
- % by road user – derived based on typical %s for road type but some roads are just very different and require a tailored approach e.g. Oxford
- Ensuring the calibration period marries with the coding

- Are there modelled/estimated desired levels of active travel for the route?
- Create a new scenario to reflect elevated active travel
- Advantages – testing countermeasures against who *should* be able to use a route to walk and cycle, not just who is brave enough now
- Elevated active travel flows = higher FSIs to model treatment against

Speed scenario

User group: Vehicle



Speed scenario

Distance	Latitude	Longitude	Carriageway	Streetview link	Existing Speed limit Code	Existing Speed limit	New Speed Limit	Speed Management measures	Comment on Proposed Speed Reduction Measures
0	51.2358431	-0.3220275	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.1	51.2361621	-0.3206889	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.2	51.2364001	-0.3193083	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.3	51.2365885	-0.3179094	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.4	51.2369278	-0.3165845	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.5	51.237305	-0.3152849	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.6	51.2376445	-0.3139595	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.7	51.2378668	-0.3125736	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.8	51.23793	-0.3111461	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
0.9	51.2378691	-0.3097171	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1	51.2380469	-0.3083273	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.1	51.238342	-0.3069754	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.2	51.2384388	-0.3055572	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.3	51.2386163	-0.3041594	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.4	51.2390079	-0.3028784	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.5	51.2396137	-0.3018346	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.6	51.2403207	-0.3009532	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.7	51.2410269	-0.3000704	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.8	51.2416347	-0.2990262	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
1.9	51.242037	-0.2977542	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2	51.2422333	-0.2963595	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.1	51.2422135	-0.2949353	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.2	51.2419404	-0.2935756	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.3	51.2415675	-0.2922738	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.4	51.2414037	-0.2908702	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.5	51.2412531	-0.2894592	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.6	51.2409091	-0.2881404	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.7	51.2404871	-0.2868772	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.8	51.2402682	-0.285496	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
2.9	51.2403179	-0.2840714	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3	51.2405983	-0.2827133	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.1	51.240932	-0.2813836	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.2	51.2412654	-0.2800538	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.3	51.2415944	-0.2787211	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.4	51.2419191	-0.2773858	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.5	51.2422698	-0.2760673	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.6	51.2426737	-0.2747901	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.7	51.2431901	-0.2736214	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.8	51.2437643	-0.272521	Undivided r	Streetview	8	40mph	40mph	Not Applicable	
3.9	51.2443008	-0.2713756	Undivided r	Streetview	8	40mph	40mph	Not Applicable	

Speed Management measures

Speed limit only change

Average speed camera - no speed limit change

Speed limit + average speed camera

Fixed enforcement or engineering measures - no speed limit change

Speed limit + Fixed enforcement or engineering measures

Not Applicable

Not Applicable

Engineering measures

- Preferred route is to use RRT as a record is there of the planned interventions, no changing core coding files etc. so less room for error
- Many ways of doing this – consider cross section route long interventions first, then go back to junctions/crossings etc. OR work your way along from one end to another
- If you do this in the core coding files outside of ViDA we find assurance needs to be more demanding

- The meaning of the ViDA countermeasures needs to be understood and checked
- E.g. clear roadsides = clearing all obstacles to 10m
- Spreadsheet containing what the ViDA meaning of countermeasures is
- Need to go through and check understanding
- At the moment sometimes proxies are needed e.g. if you are only clearing to 5m for example

Creating a business case

- Showing the link between FSI worm and treatment proposed
- Raw baseline and scenario star rating maps and tables – for all modes that are relevant (note on maps copyright)
- Estimated FSI impacts – from FSI download go into wider economic appraisal forms
- FSI worm before and after to demonstrate improvement

