**INPUT** 

Users are

provided with a

data specification

provided. It is the

responsibility to

ensure this is

complete and

correct as

possible.

describing what

data is to be

user's

1

## **Command line Interface**

Prompt users for:

1. Their Working Location

 The Calculation Method to be used for each Service Attribute (see table below)

Limits AVC
AVC
IRI
By HATI
VCG
Geometry

Compiles Astrolleuses | Coloniation Masterale

2

## **Validity Check**

The **input** dataset as a whole needs to be checked and the following calculated:

**PROCESSING** 

- 1. Number of rows of data
- 2. For each data category (column) the number of non-blank items (cells)
- For each data category the number of valid items (valid = correct format and within range)
- For the categories that contain dates, the oldest, most recent dates should be reported

3

## Calculate HVIR

For data each row of the .csv there is an independent calculation of the following variables:

- .. The Access Index A
- 2. The Ride Quality Index R
- 3. The Leeway Index W
- 4. The HVIR
- The Maximum Expected Value of HVIR for the road category
- 6. The Minimum Expected value of HVIR for the road category
- 7. The HVIR category (Low, Medium or High)

Each row will either successfully calculate HVIR or fail due to missing or invalid data. Each of these outcomes should be logged.

The input dataset is reproduced with 7 additional data categories

**OUTPUT** 

This is saved to the Working Location

A Processing Log is also saved to the Working Location that includes:

- Time and date
- 2. User settings
- 3. Validity
  Check results
- 4. Stats on
  HVIR
  calculation
  outcomes
  (i.e. reasons
  for failure)

This is saved as a .csv in their Working Location. This is where all outputs will be saved.