

evaluation and response in case of natural hazards and climate change risks.

Local staff was trained and involved in the project to ensure they could manage, collect and update the database after the end of the contract.

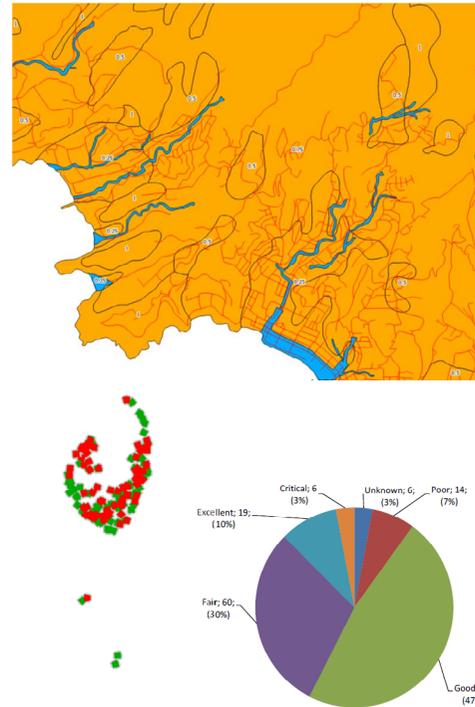
DATABASE DESIGN

The database was designed in Excel format not to require advanced knowledge on database management to be consulted and updated.

The database meets the requirements of a Dbase format to ensure ease of use under a variety of programs, particularly with respect to conventions required of ArcGIS data files. Geographic coordinates were associated to the collected data allowing its management with a GIS tool.

SURVEYING AND DATABASE POPULATION

INES reviewed all existing data from among the various ministries and infrastructure agencies and collected and harmonized these data for its incorporation into the transport infrastructure inventory system. INES conducted a quality assurance/quality control review of data from various sources to eliminate errors and duplication prior to incorporation into the inventory.



Transport infrastructure inventory database and management tool

St. Vincent and the Grenadines



Road recording with a GPS camera and several applications of the management tool.



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A code was assigned to every road, as no road map had been made before. All roads were recorded with a GPS camera so to produce an exhaustive road map of the country. A video of every road was recorded in order to include it in the database.

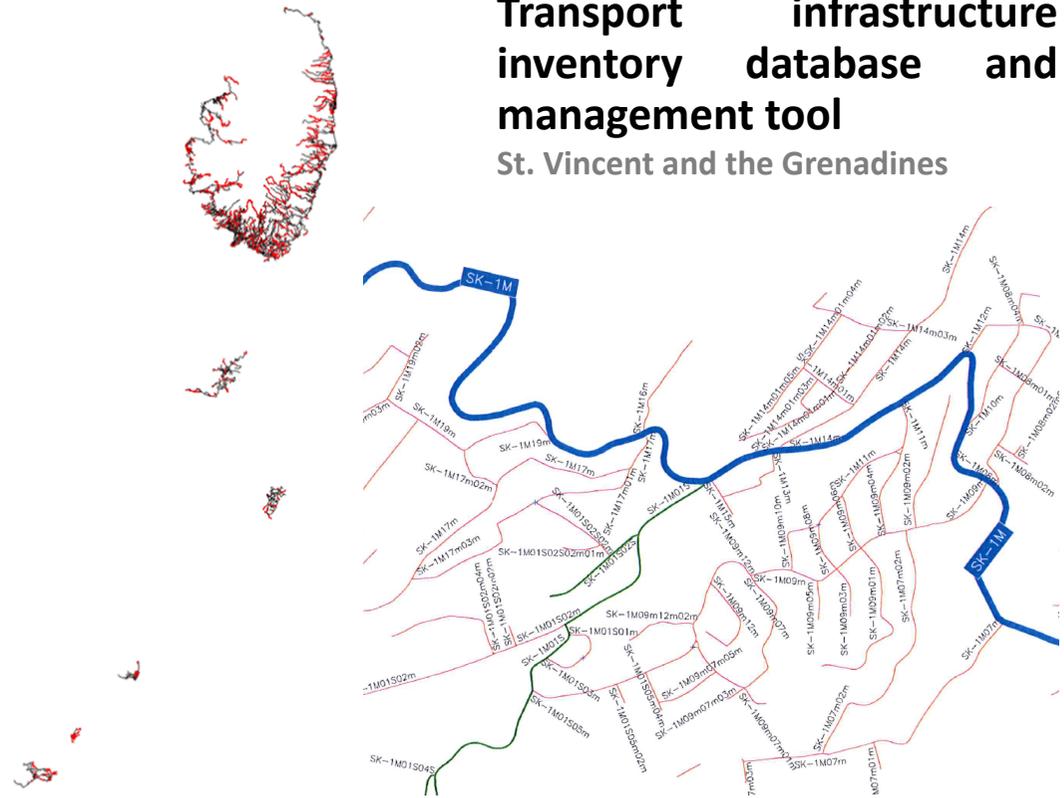
Roads were classified in different categories according to its importance in the network and data such as the road width, number of lanes, existence of barriers and signposting, as well as maintenance and operation data was collected and included in the database.

All bridges in the country were inspected and assessed, including in the database photographs, bridge typology, materials, length and width, structural condition and maintenance and operation information.

Earthworks and drainages were incorporated due to its importance in road operation and natural hazards management.

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Road map with bad condition roads in red and road coding.



Local staff training in the manage of the inventory database.