

- 1** Choose a reach of any mature river that include a river crossing. This reach should include meandering channels. Using the Google Earth or any matching software,
 - (a)** Divide the meandering channels into several reaches; calculate the sinuosity of the meandering and gradient of each reaches.
 - (c)** Make a graph of the relationship between sinuosity and the gradients. Describe in words the results of the graph. Is the relationship linear?
 - (d)** Do you foresee any potential problems with the bridge crossing? Pick up the best location for the river crossing (Hint: Use the time history of the region).