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Modelling environmental dynamics aids in the understanding and anticipation of future evolutions. Their prospective simulation supports decision-making for environmental management. This introductory chapter gives an overview about the context, objectives and opportunities (the challenges), followed by a summery of the methodological approaches commonly used in environmental modelling and simulation.

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Keywords: Modelling, spatio-temporal dynamics, environment, valida-tion, geomatics. 1.1 Challenge 1.1.1 Context The modelling of environmental dynamics means the simulation of the be-haviour of an environmental system in space and through time. This re-search challenge has many aspects such as a better comprehension of com-

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Fit a trendline to the data and display equation and R 2 - this is a statistical model. In a new time-series column in the previous sheet, use the statistical model from above to predict a salinity time-series for the above station in the estuary under the two diversion scenarios compared to the base case.

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assess the current status of the science of environmental exposure modelling to identify areas for improvement and recommend practical steps to improve the current situation. The following general principles of best practice in exposure modelling were identified:

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