

Methods and systems for selecting site(s) using geospatial modelling

TECHNICAL FIELD

[001] Embodiments disclosed herein relate to geospatial modelling, and more particularly to selecting a suitable site using geospatial modelling.

BACKGROUND

[002] Current solutions use geospatial modelling for selecting a site for an application. The site is typically selected manually, wherein a user can manually scan/view the maps to decide on a suitable location.

SUMMARY

[003] Embodiments of the present invention disclose methods and systems for selecting a physical site using geospatial modelling data for deploying one or more solutions based on a plurality of parameters comprising, but not limited to, travel demand, energy availability, route patterns, traffic dynamics, and so on.

[003a] According to an aspect of the present invention, there is provided a method for selecting a physical site using geospatial modelling data, the method including: segmenting, by a modelling engine, a pre-defined geographical area into a plurality of contiguous cells; fetching data, by the modelling engine, related to the segmented plurality of contiguous cells; estimating, by the modelling engine, a travel demand coefficient for each of the segmented plurality of contiguous cells using at least one parameter and a weightage corresponding to each of the at least one parameter; estimating, by the modelling engine, an infrastructure index using at least one category of Points of Interest present in each of the segmented plurality of contiguous cells and a weightage corresponding to each category; estimating, by the modelling engine, a power index using at least one power distribution points present in each of the segmented plurality of contiguous cells and a weightage assigned to each of the at least one power distribution point; computing a suitability index, by the modelling engine, for each of the plurality of contiguous cells using the travel demand coefficient, the estimated power index, and the infrastructure index; selecting at least one cell from the segmented plurality of contiguous cells, by the modelling engine, based on the computed suitability index; and identifying at least one site, by the modelling engine, from the at least one selected at least one cell.

[004] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating at least one embodiment and numerous specific details thereof, are given by way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications.

BRIEF DESCRIPTION OF FIGURES

[005] Embodiments herein are illustrated in the accompanying drawings, through out which like reference letters indicate corresponding parts in the various figures. The embodiments herein will be better understood from the following description with reference to the drawings, in which: