

Web based real time seamless change detection and prediction

Organization Name: HERE TECHNOLOGIES

Overview:

Mapping reality requires continuous monitoring and recording the changes that are happening around us to provide us with the insight for decision making. Moreover, predicting the change based on the historical records also serve as a critical and in disposable tool for informed and immediate decision making.

Current Challenges

Seamless and real time change detection on multi scale level is posed with the following problems

1. It is not always real time reducing the impact of the analysis
2. Granularity of change detection is dependent on the resolution of the data
3. No central repository of multi scale change detection
4. Quick prediction of changes based on historical records

The proposal is to build a centralized platform for recording changes real time at multi granular level (starting from changes in landscape to object level changes). This will act as an enabler for a multitude of markets and sectors (government, autonomous vehicles, IoT, utilities). The approach also includes the design and development of algorithms that will detect and predict such real time changes at various scales. For example, algorithms for change detection and prediction for landscape will be different than algorithm for change detection and prediction of traffic signs on roads. The algorithms for prediction are proposed to be developed based on artificial intelligence to make itself learning and accurate over the time

Lastly, the change detection and prediction alone will not be enough unless its targeted users are able to reach out to the solution as soon as they required. For this, we propose leveraging the open location platform of HERE to make the solutioning web based and easily available to all with dynamic visualization

Business Requirements: 400 - 500 words

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We are looking for startups who has the domain knowledge of web development along with wireframe to design a prototype.