

Development of Augmented Reality using Computer Vision; Problems & Proposed Solutions with the present AR

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State of the Art :

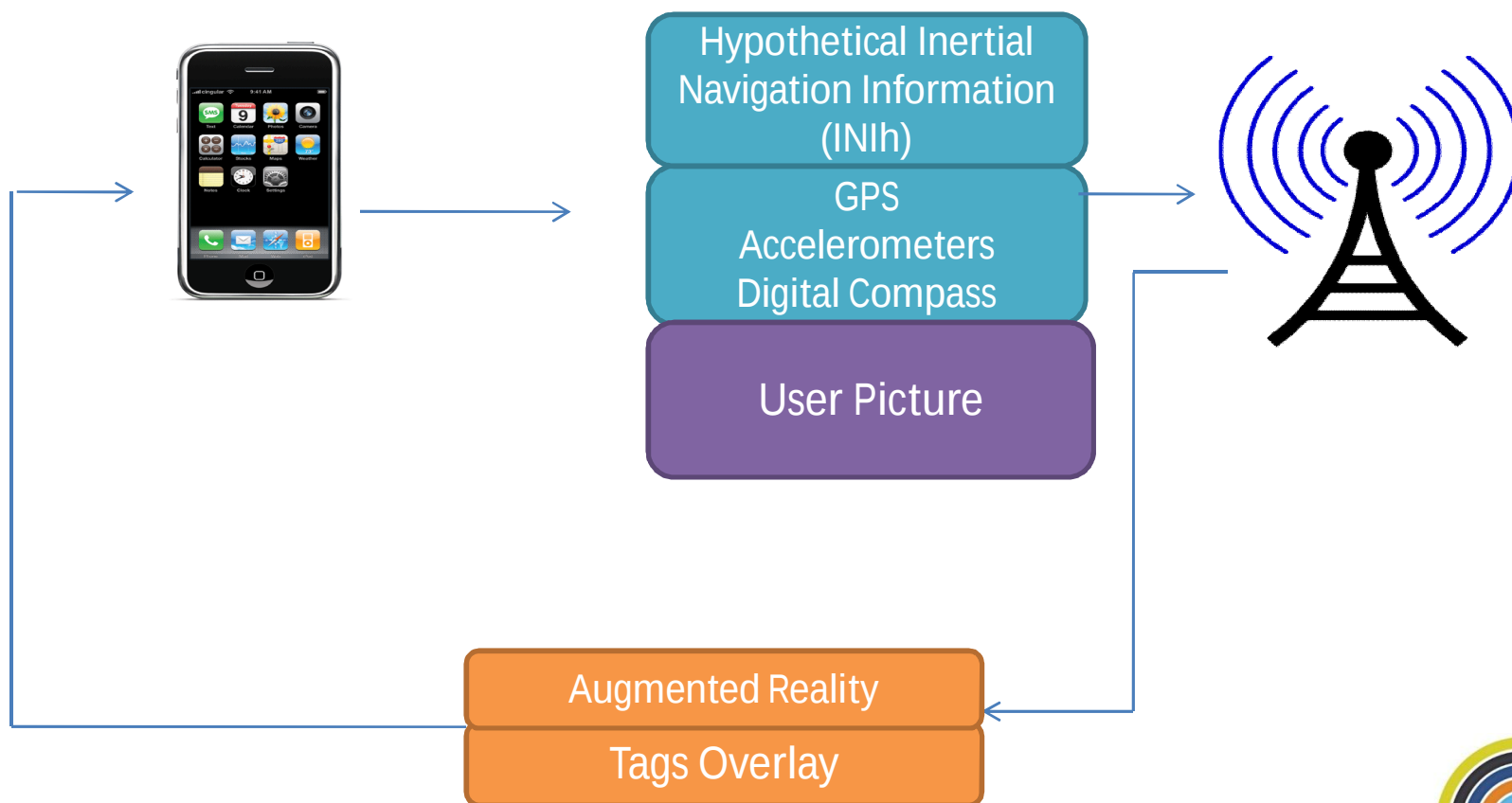
- Geo-tagging is limited to point of interest.
- Using inertial information is not enough to obtain accurate 2D marker less tagging.

Our Work :

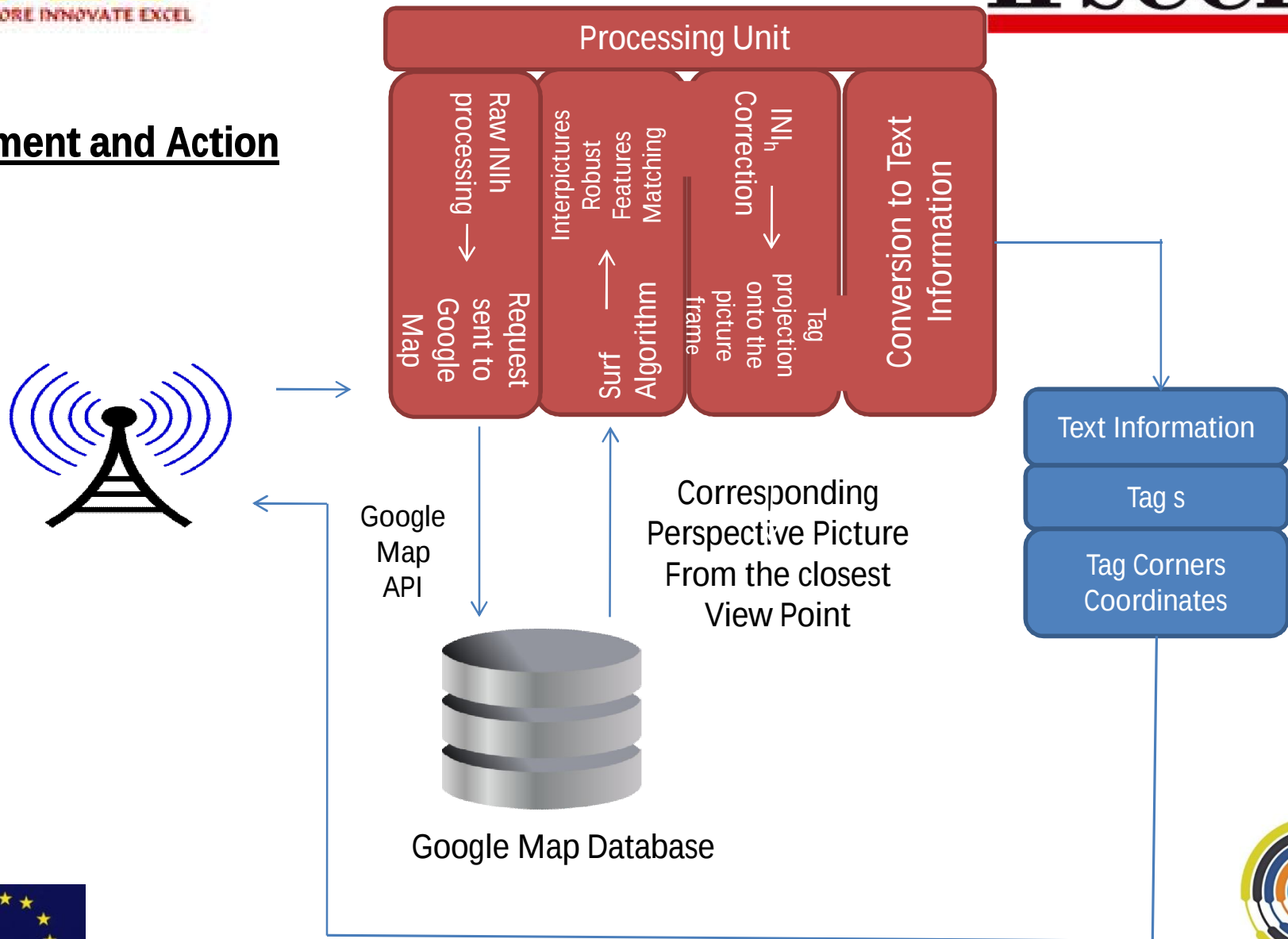
- Takes advantage of the biggest geographical database available : *Google Street View*.
- To improve GPS information with the fusion of computer vision to obtain accurate Region of Interest stored in a database.



Input from User



Treatment and Action



Illustration



User's Image

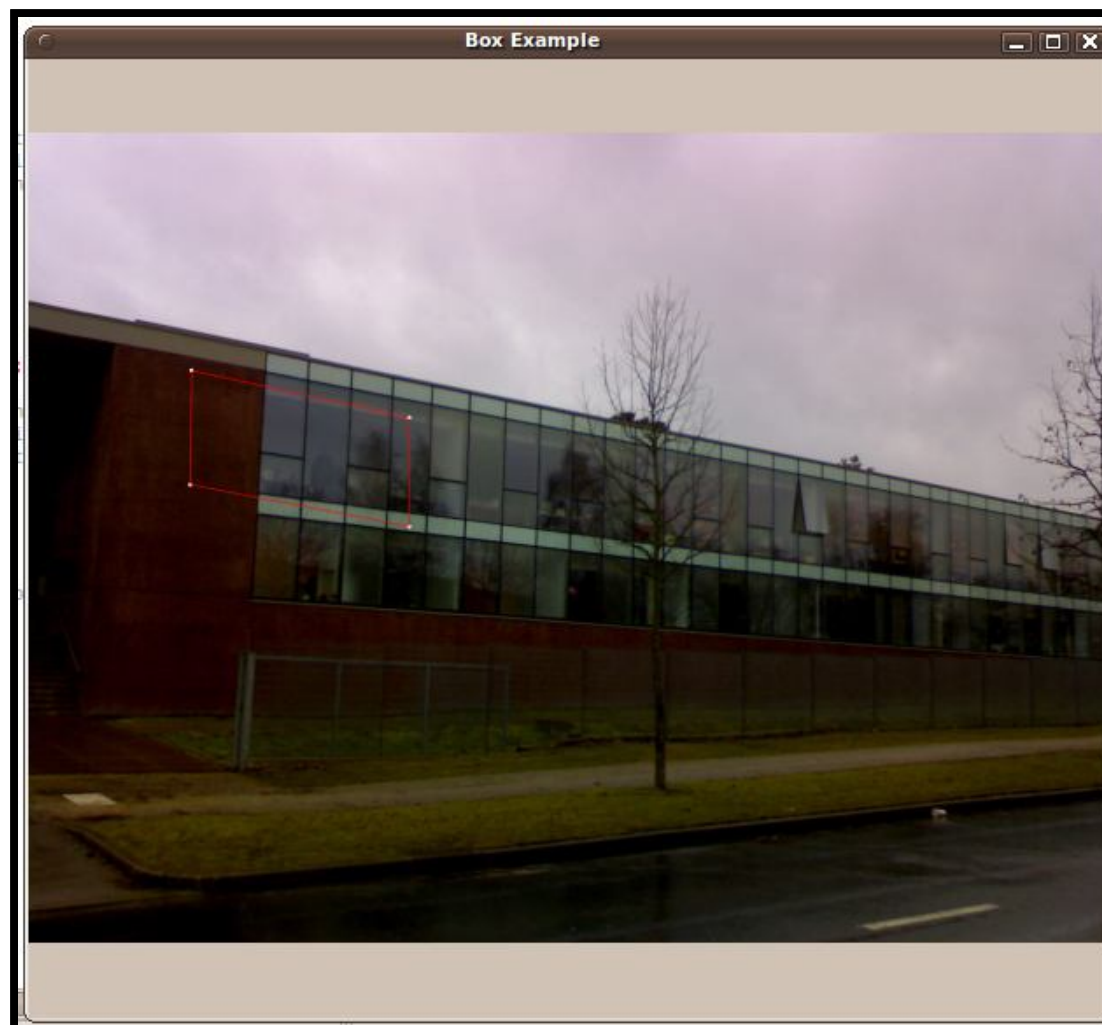
Google Street
View Image



Extracting correspondence between Google Street View And User Image



User's Augmentation



Major Concerns

- Interoperability
- Multi-person AR
- AR for human- Broader domain
- Secured Web AR
- Incognito/ Privacy Issues
- Open AR Experience

Thank you!

