Monitoring of Construction Stages In Satellite Imagery

Sequence

- Introduction
- Methodology
- Results
- Way Forward

Introduction

The aim of this pipeline is to monitor the construction stages of infrastructure in satellite imagery

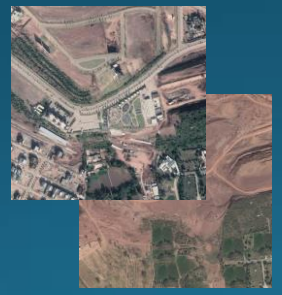
Methodology

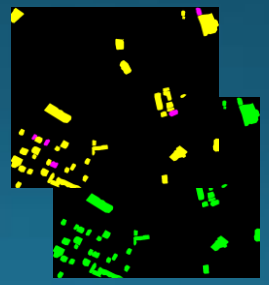
Dataset Generation

Downloading images from Google Earth

Collecting Pre-Post pair of images

Segmentation labeling





Classes

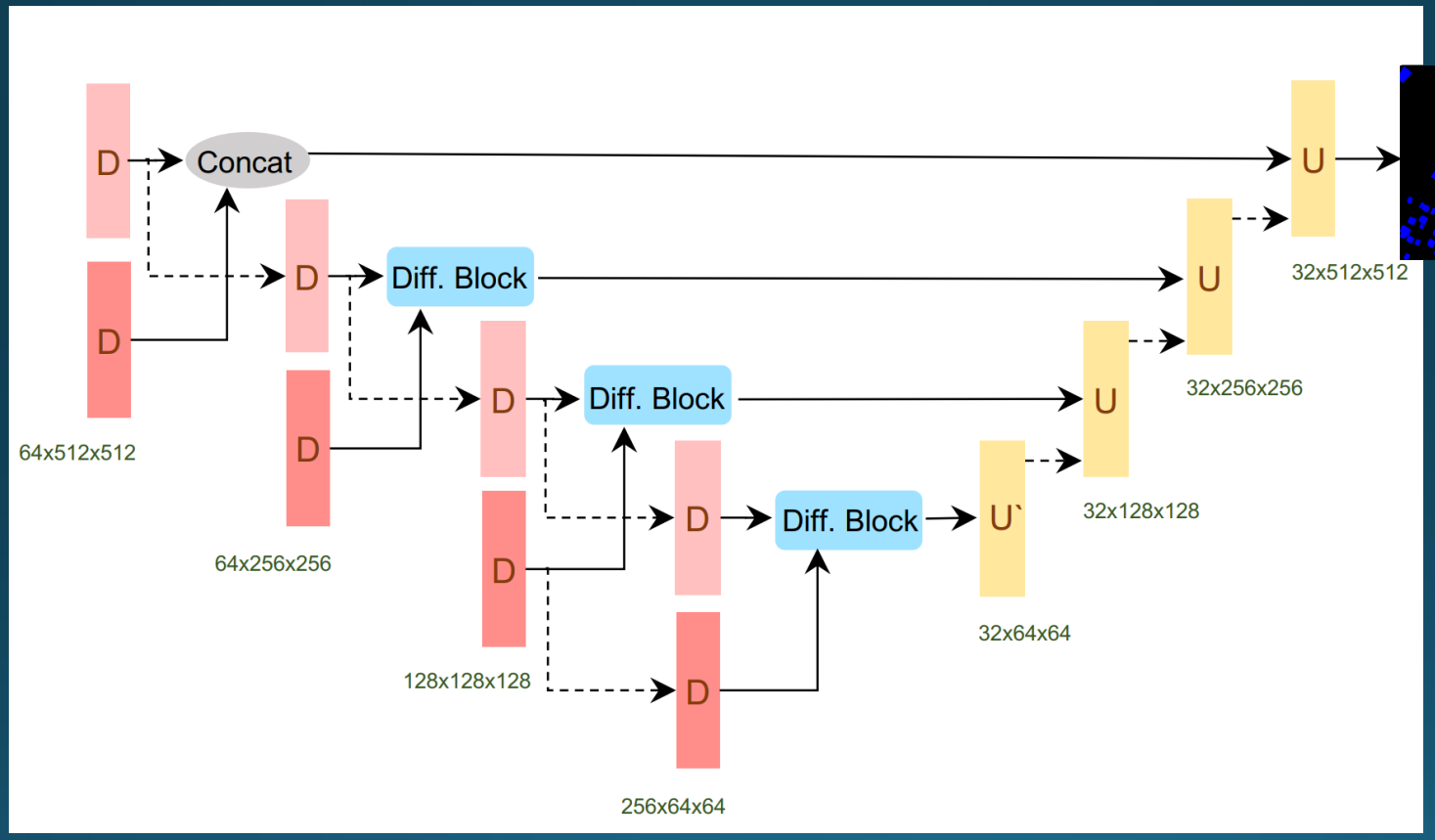
- Background
- Flat Surface
- Excavation
- Foundation
- Building

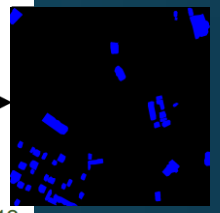
Methodology

Pre-Construction

Post-Construction

3 X 1024 X 1024

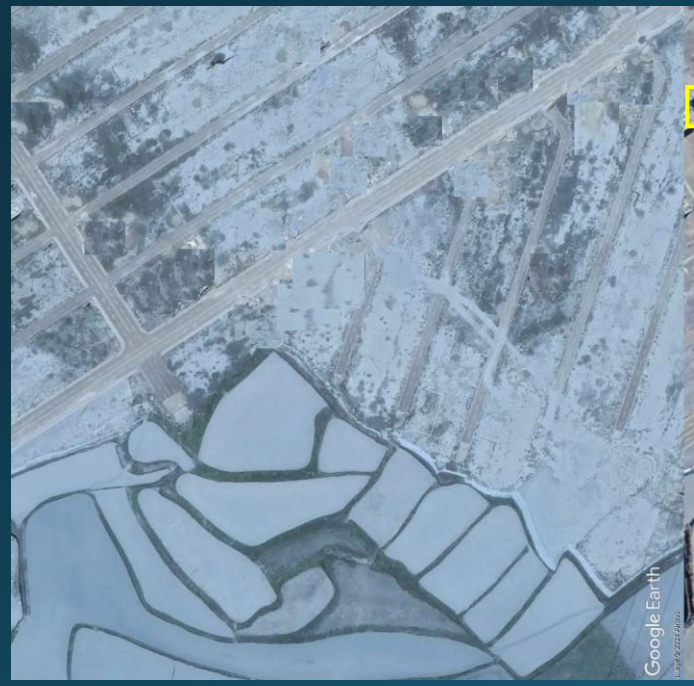




2 X 1024 X 1024

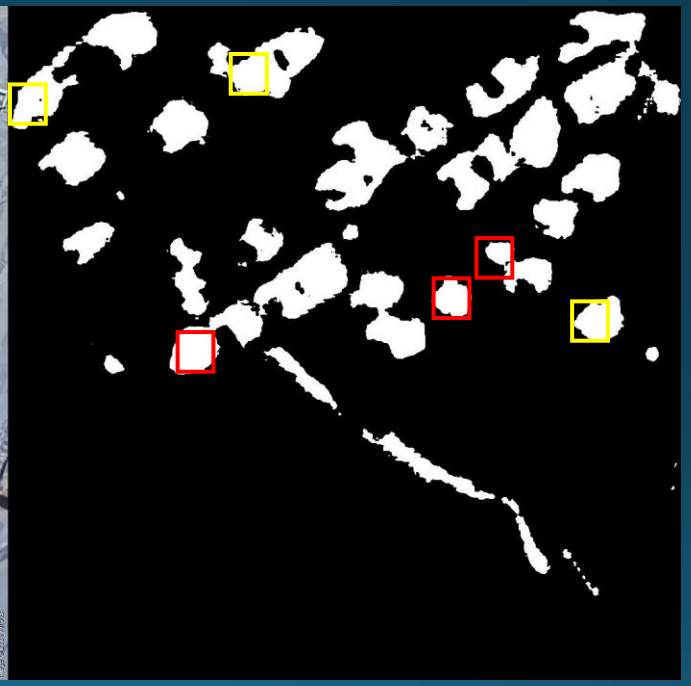
Results

Pre



Post

Result



Classes

- Background
- Flat Surface
- Excavation
- Foundation
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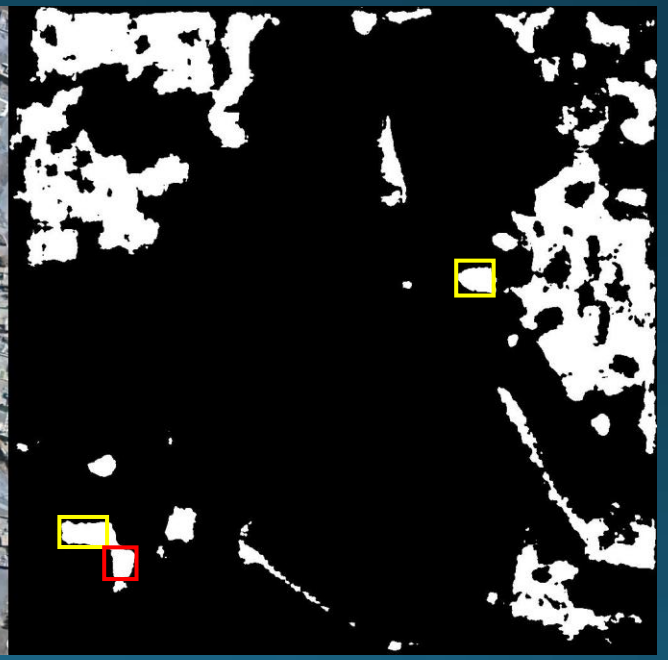
Results

Pre

Post

Result



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Way Forward

- Data collection for Ops related construction stages
- Classification of Construction Stages
- Timeline wise sequential stages classification

Pre

Post.1

Post.2

Post.3

Classes

Background

Flat Surface

Excavation

Foundation

Building