

Landfill Detection Through Satellite Imagery



Problem Statement

Environmental pollution and health effects of illegal landfill sites



Contamination of aquifers by infiltration of polluted water from waste making groundwater polluted and unusable.

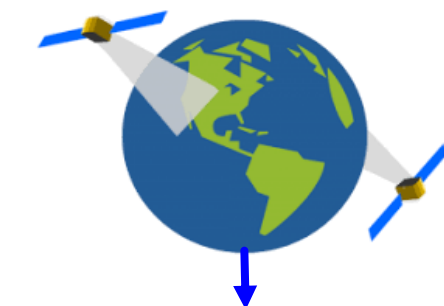


Negative impact on agriculture due to soil and water contamination from poorly managed waste.



Negative impact on air quality leading to long-term respiratory problems, with a negative effect on human health.

Solution proposed



Identification of illegal
landfills using high-
resolution satellite data

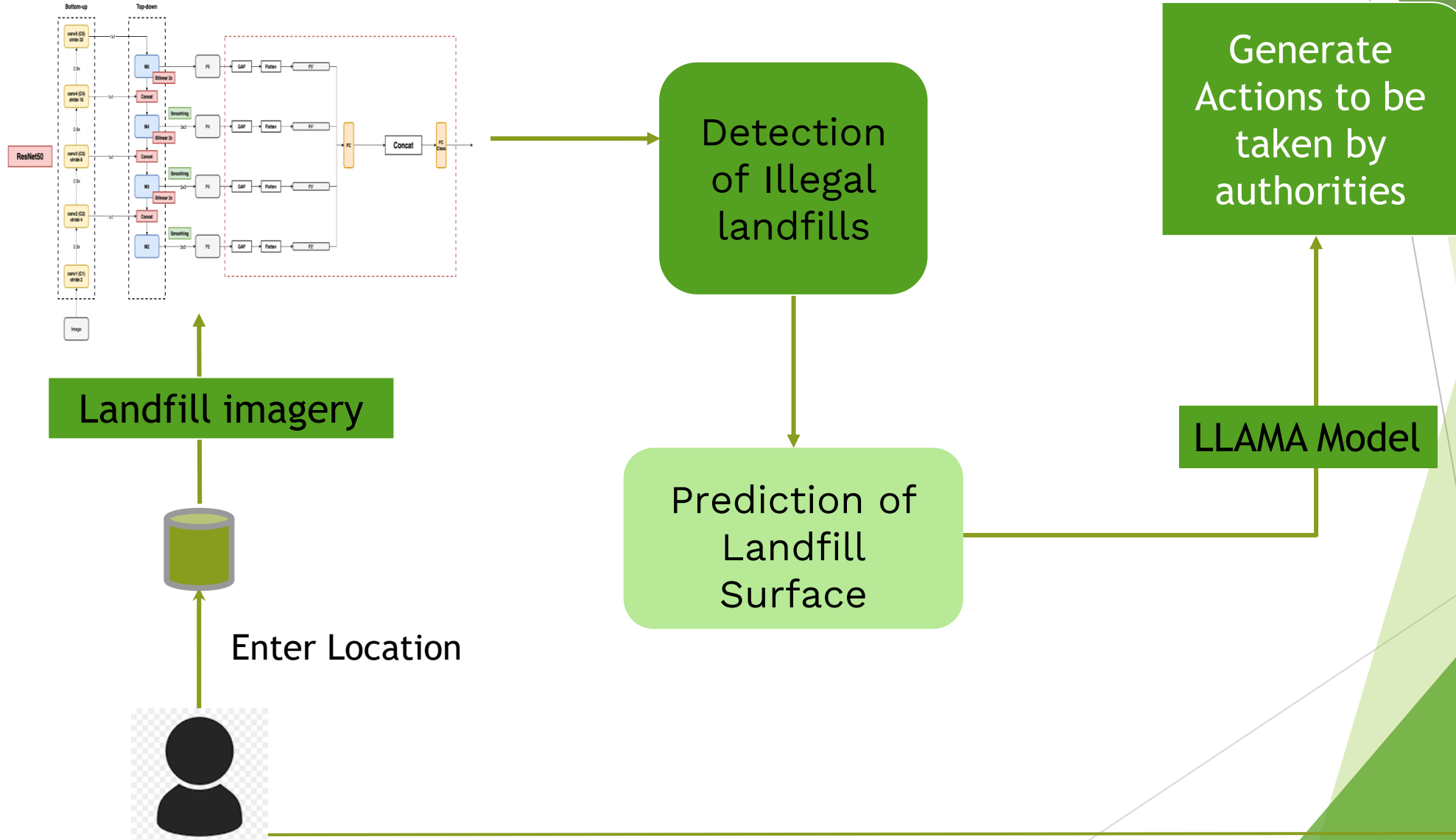


Heat map and surface of
illegal landfill sites



Giving feedback to
stakeholders on landfill
situation

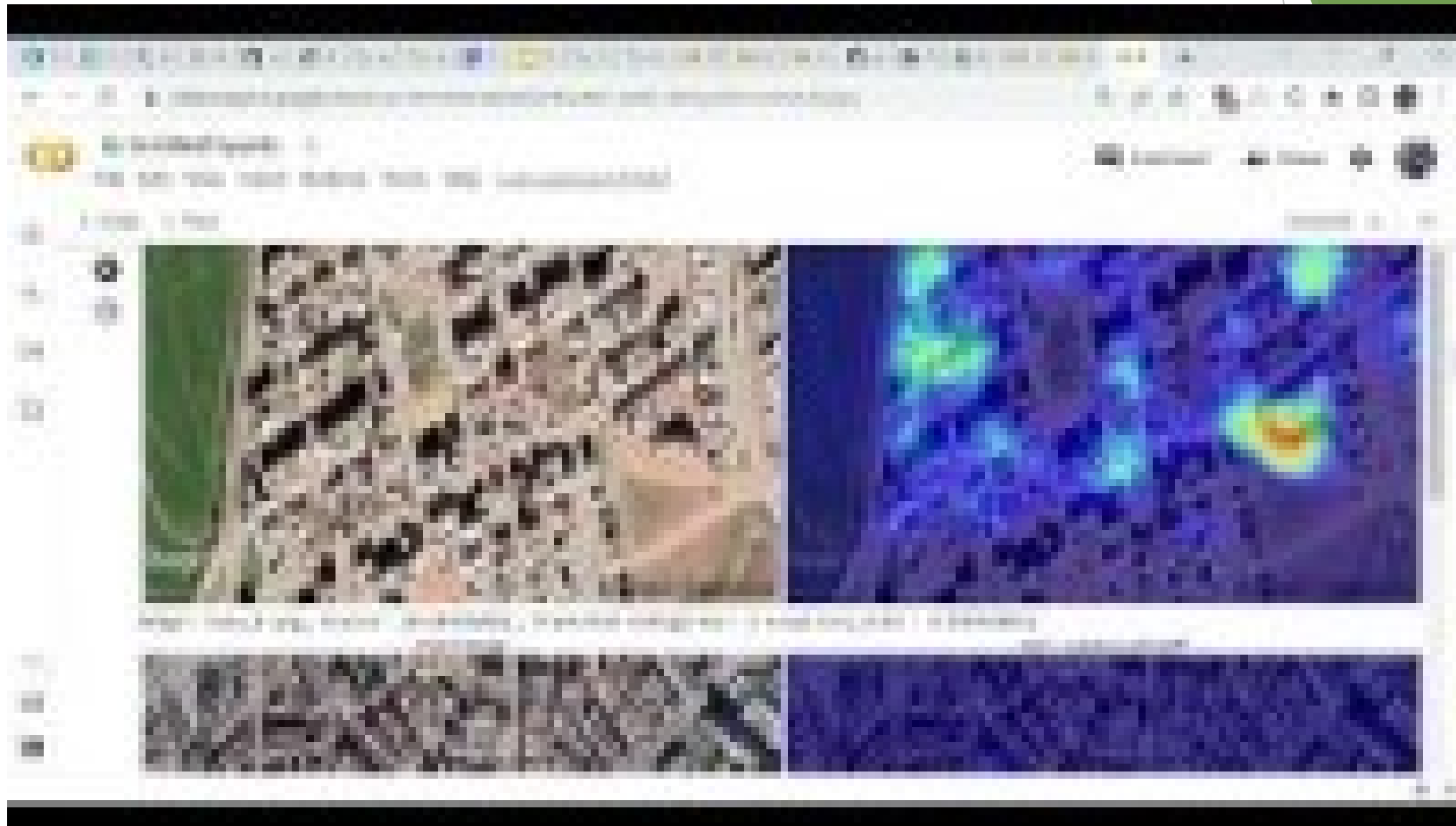
System Design



What is next?

- ▶ Collaboration with New Stakeholders
- ▶ Building a platform for Stakeholders
- ▶ Detecting misplacement of landfills, ex: having a landfill over Groundwater
- ▶ Expansion Planning

DEMO



Conclusion

This project has the potential to make a significant impact on landfill management practices in Morocco by improving public health and protecting water sources. The project team is committed to working with stakeholders to ensure that the project is successful and that the benefits are maximized.

EcoSavers Team



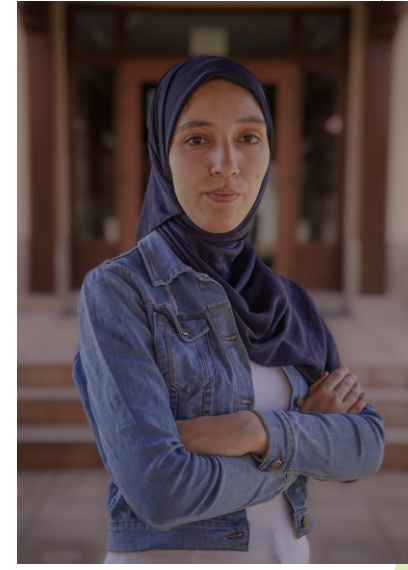
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