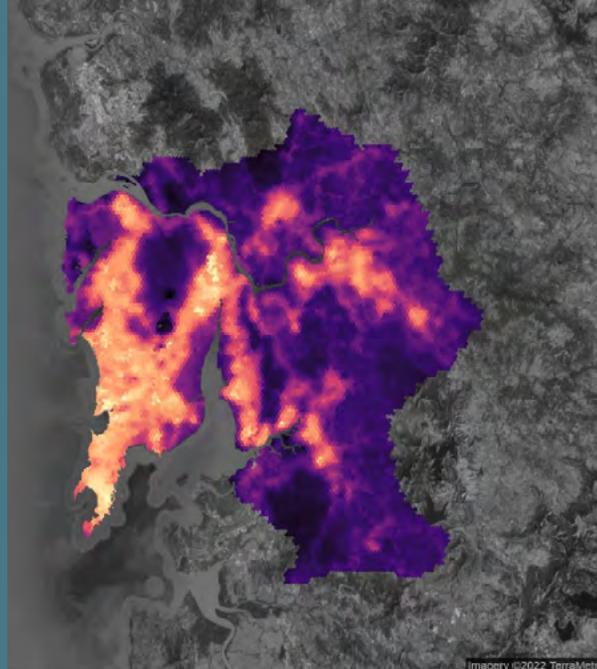


# EMPLOYMENT DISTRIBUTION IN URBAN AREAS



◀ Predicted spatial distribution of jobs in Mumbai, India

- **Description:** GFDRR has developed a methodology to proxy for the spatial distribution of jobs in urban areas using only globally available and public data (through OpenStreetMap and Google Earth Engine). The methodology has been successfully tested and validated against employment data in 14 cities of the developing world.
- **Sector:** Transport, urban, disaster risk management (DRM), poverty
- **Sub-sector (if any):** NA
- **Applications:** Possible uses include inputs into accessibility analyses (Transport), inputs into quantitative urban models, spatial form analyses (degree of polycentricity / monocentricity, employment dispersion indices), exposure of employment to natural hazards. The team is open to discussing producing some of these further analyses in addition to the baseline employment layer.
- **Final output:** By default the final output is a GIS layer in geo-package format. However, it is also possible to produce figures of the underlying GIS layer. As discussed above, the team may consider pursuing further analyses should there be interest on a case-by-case basis depending on team member availability.
- **Examples/cases:** Please check the [paper](#), short [demonstration note](#), and [blog](#). Examples of the output geo-packages and figures are available upon request.
- **Data required (if any):** None
- **Geographic scope:** City level (default boundaries Functional Urban Area)
- **Hazard covered:** None for the default deliverable but possibly all if the desired output is job exposure to hazards.
- **Cost:** USD 1,000 per city with scale economies and lower unit cost for more than 3.
- **Time required:** ~1 – 2 weeks depending on team member availability
- **Limitations/caveats:** While every care has been taken to validate the model, with very good results, the predicted employment maps remain the outputs of a model with possible discrepancies.

