

Roads

Editing & Workflow

July 2018

Road Editing

Objectives

- Ensure network cohesion through:
 - identifying road importance
 - aligning road networks
 - adding missing roads
 - fixing incorrect junctions
- Always consider location-specific context



Road Editing

Scale

Large Scale

- Country-wide analysis of high classification roads
- Aligning entire country
- Adding major high classification roads to country network or regional network

Small Scale

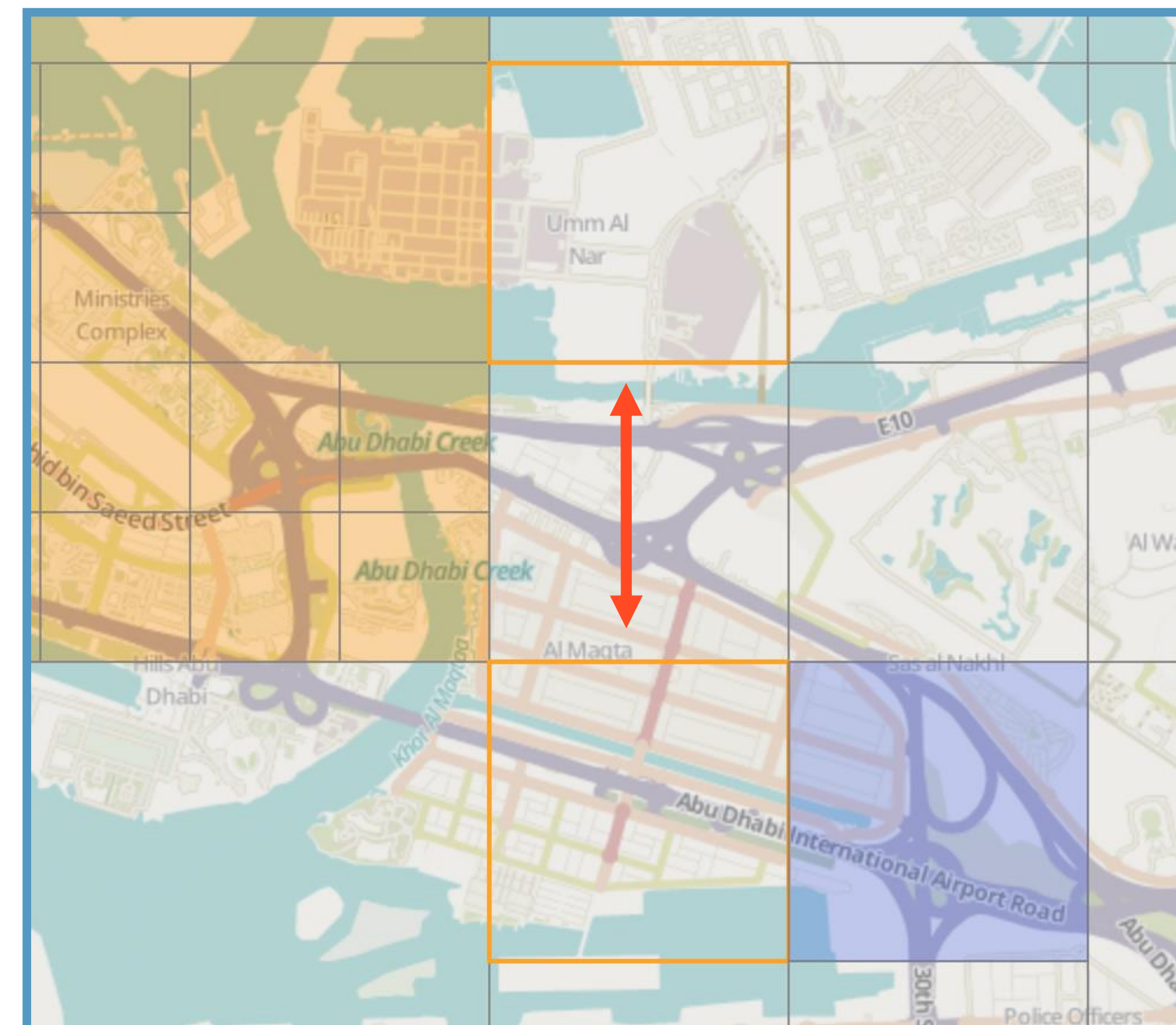
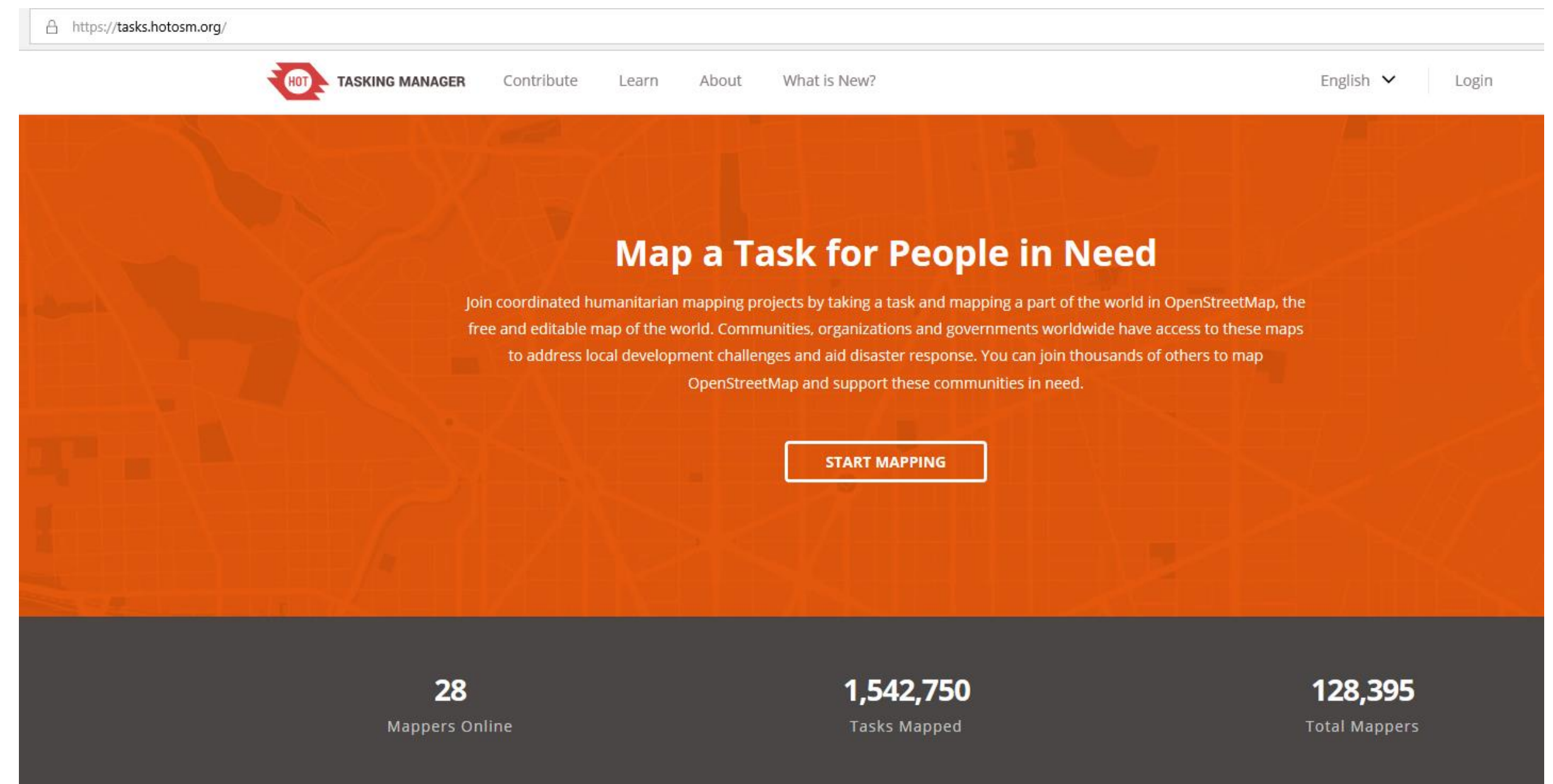
- City-wide analysis of high classification roads
- Aligning city centers and rural areas
- Adding residential and other low classification roads to small area

Road Workflows

Road Workflow

OSM Tasking Manager

- Interactive website that breaks down a determined geographic area into manageable grid of tasks
- Best for editing small scale, but always keep large scale in mind
- Editing by multiple users simultaneously



Be careful when editing near other editors!

Road Workflow

Analyses

Before editing, analyze:

- OSM Community Activity

- Determine size and activity of local OSM community
- Research local community forums and resources
- Learn local editing guidelines
- Identify helpful users and potential problem users

- High Classification Routes

- Research official highway naming scheme
- Review quality of high classification network cohesion
- Identify problem areas and urgent fixes

- Medium and Low Classification Routes

- Review data quality of medium to low classification network cohesion
- Identify problem areas and common issues
- Typically, problems are low-impact and not urgent

Road Workflow

High Classification Routes

- All highway values primary up to Motorway
- Sometimes includes tertiary and secondary depending on local network
- Goals of editing high classification routes:
 - Add missing roads
 - Fix classification inconsistencies
 - Improve network cohesion

highway	motorway		A restricted access major divided highway, normally with 2 or more running lanes plus emergency hard shoulder. Equivalent to the Freeway, Autobahn, etc..		
highway	trunk		The most important roads in a country's system that aren't motorways. (Need not necessarily be a divided highway.)		
highway	primary		The next most important roads in a country's system. (Often link larger towns.)		
highway	secondary		The next most important roads in a country's system. (Often link towns.)		
highway	tertiary		The next most important roads in a country's system. (Often link smaller towns and villages)		

Road Workflow

High Classification Routes

Always research local OSM Country guidelines.

1) Use Tasking Manager to download highway data

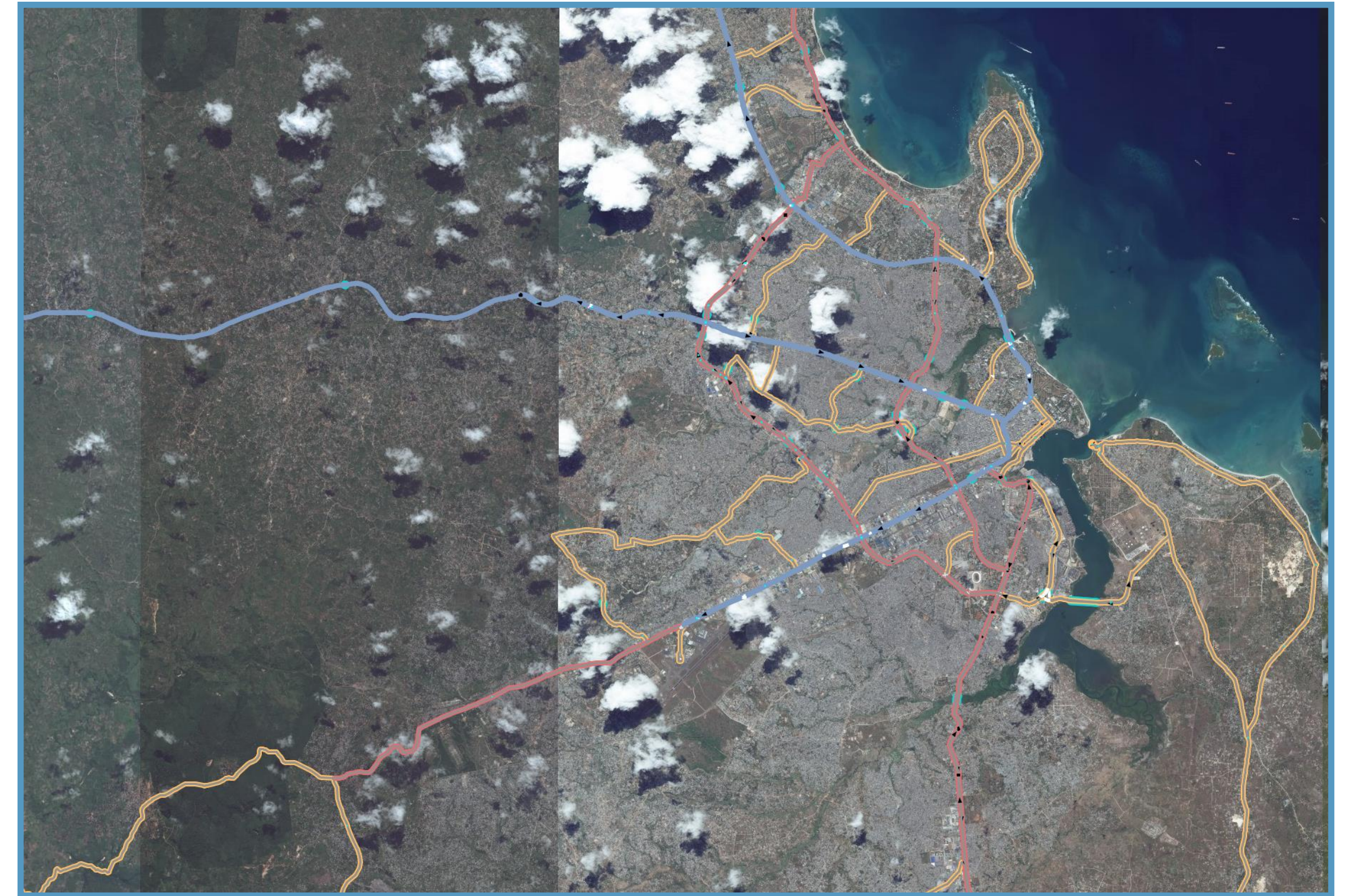
2) Review data issues

- Bad classifications
- Clusters of high classifications
- Missing highways
- Poor alignment
- Routing issues with junctions
- Incorrect names or reference tags

3) Capture location of problem areas

4) Create a plan for editing

- Start with quick sweep of classification updates
- Remember highway links for tertiary and above
- Add missing highways
- Clean up alignment
- Review classifications again



Road Workflow

Localized Area Editing

- Includes broader scope of roads than high classification route review and editing
- Focus on higher classification roads down
- Evaluate all arterials and residential highways in a given area
- Review and adjust highway classifications
- Fix missing roads, poor alignment, and any routing issues
- Edits to extremely low classification routes, i.e. tracks and paths, are low impact and therefore lower priority in time sensitive scenarios



Road Workflow

Localized Area Editing

Always research local OSM Country guidelines.

- 1) Download a tile from the Tasking Manager
- 2) Start with the high classification routes in the tile
 - Motorway and Trunk are the most critical
 - High classification junctions must route properly
- 3) Use neighborhood boundaries or major roads to mentally divide the tile into manageable sections to edit one at a time
 - Correct road alignment
 - Add missing arterials and residential roads using imagery, GPS tracks, and government data
 - Update classifications for accuracy and network cohesion



Road Workflow

General Maintenance

- Repeat analyses and workflows for an area
- Goals:
 - Ensure data quality
 - Check for malicious edits
 - Improve data further
 - Ensure edits still align with local community's guidelines (guidelines may change)
- Most useful if done regularly for all areas edited

General Maintenance Workflows

- OSM Community Analysis
- High Classification Route Analysis
- High Classification Editing
- Localized Area Editing (High Classifications Down)
- Low to Medium Classification Route Analysis
- Low to Medium Classification Editing