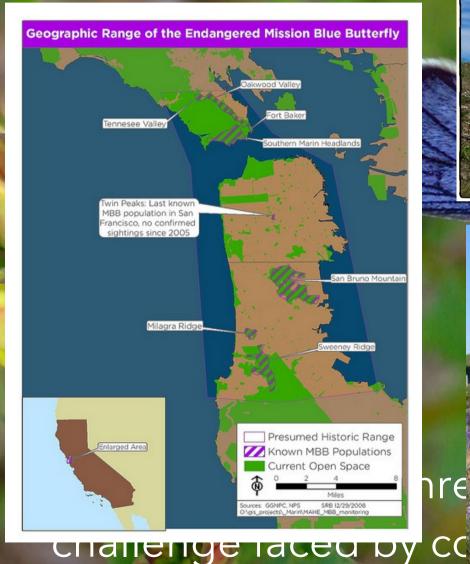




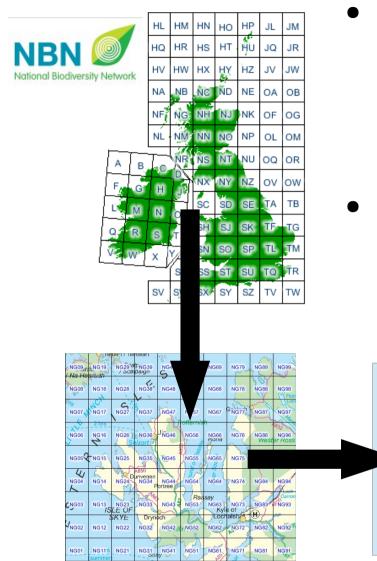


The mission blue butterfly is threatened by lack of suitable habitat.



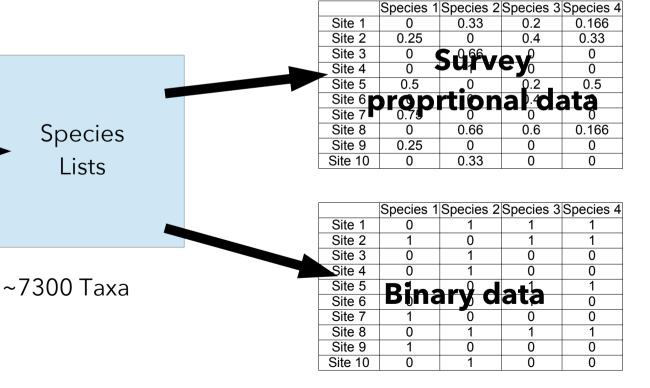






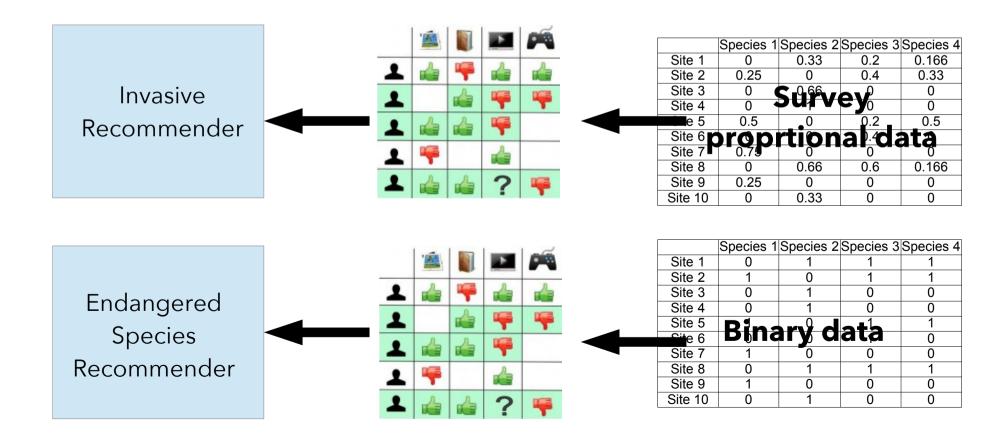
10200 Sites

- Collected and processed species data from National Biodiversity Network
- Species location data has been collected for hundreds of years

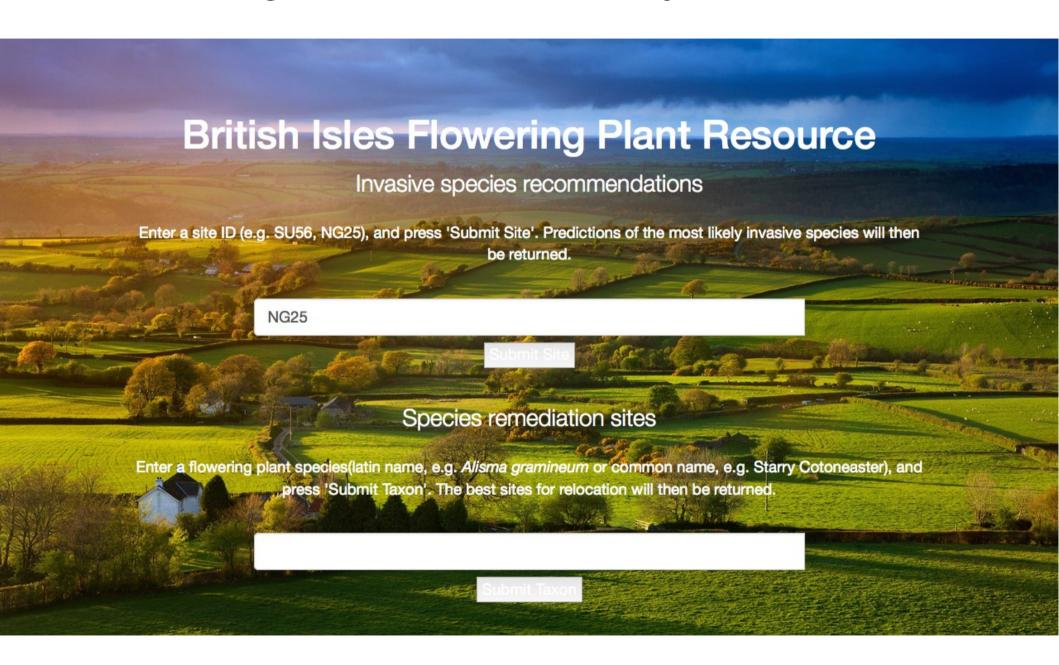


Used a non-negative matrix factorization for collaborative filtering to build invasive species recommender and endangered species location recommender.

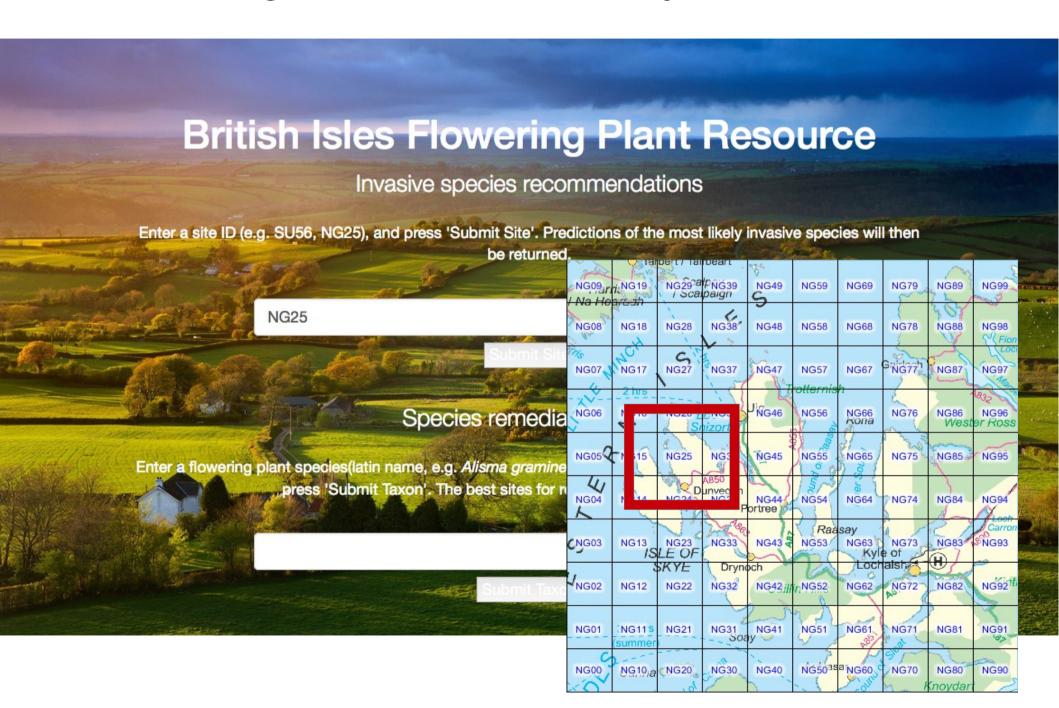
- Used survey proportional data for invasive recommender
- Used binary data for endangered taxa site recommender

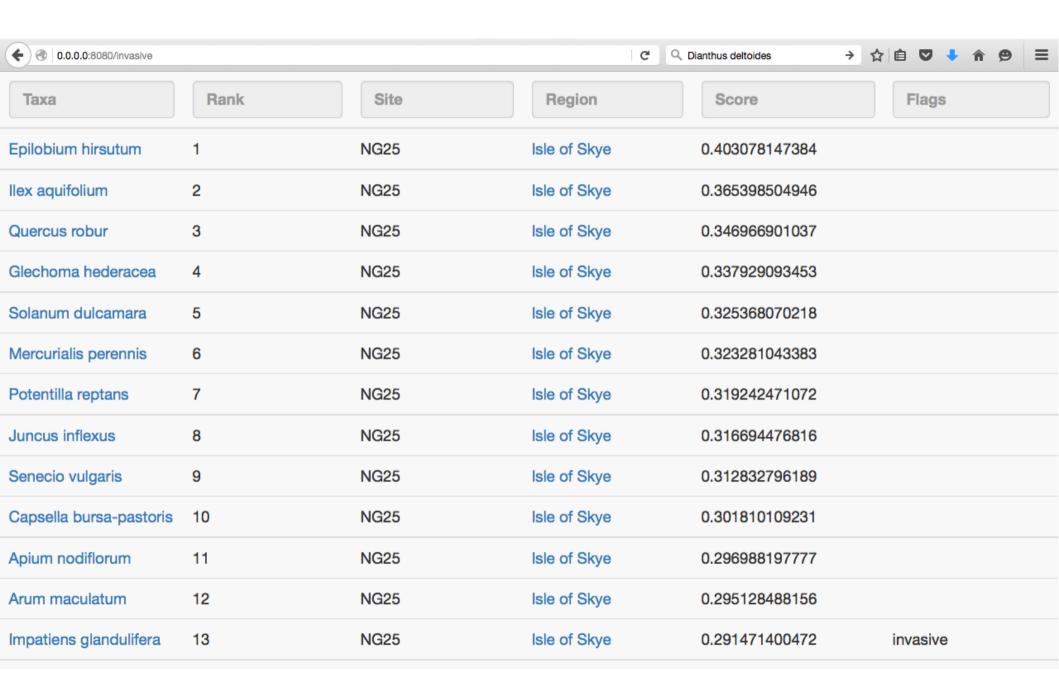


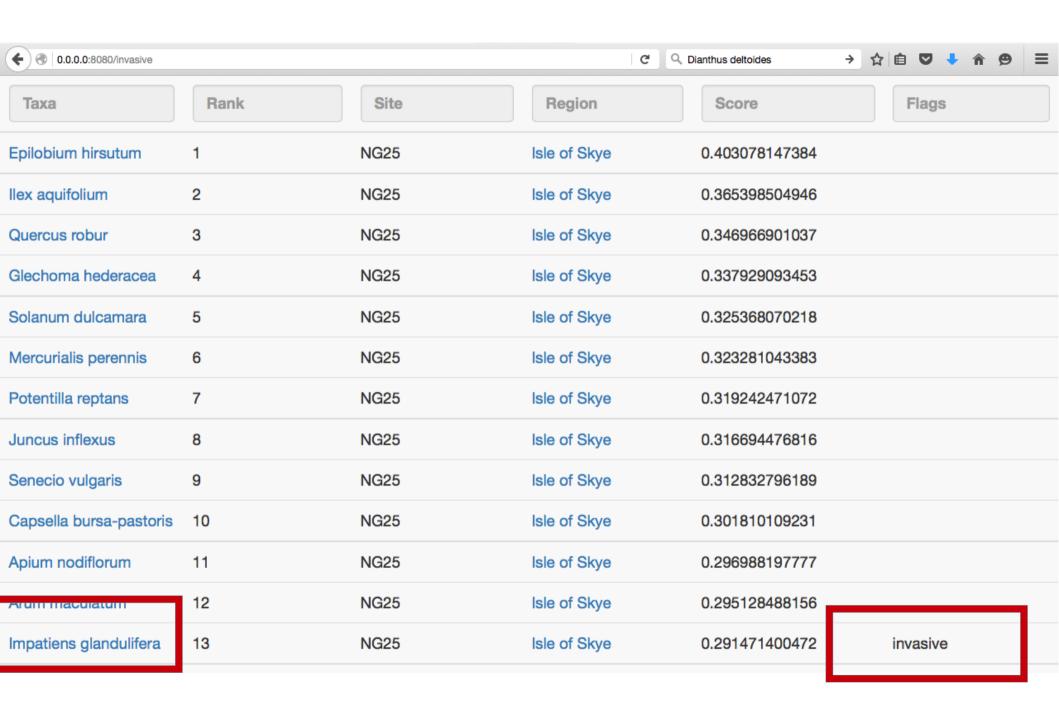
## NG25, a region on the Isle of Skye...



## NG25, a region on the Isle of Skye...







## Next Steps

- Introduce broader dataset, at a finer resolution (2x2 km instead of 10x10km)
- Get access to restricted data about protected species to improve predictions about them
- Test predictions on the ground

