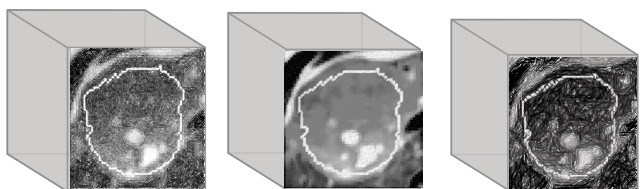


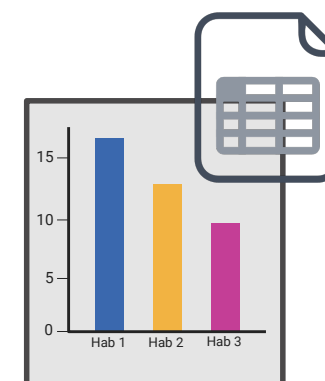
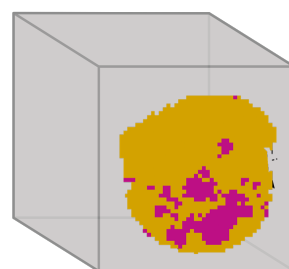
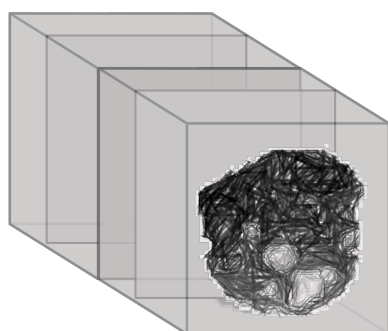
## Input



- Feature maps (3D NIfTI)  
*e.g. handcrafted radiomics, ADC...*



## Imaging Habitats Pipeline



### Preprocessing

- Background masking
- Log transformations
- Standard scaling

▶ *Output:* 4D NIfTI (x, y, z, features)

### Clustering

- Algorithms: GMM, K-means, HDBSCAN
- Scope: single / Pooled / Hybrid
- Cluster number: automatic or manual

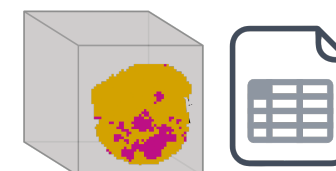
▶ *Output:* Habitat map 3D NIfTI (x, y, z)

### Analysis

- Feature statistics per habitat
- Habitat proportions
- Spatial Entropy

▶ *Output:* Summary statistics (CSV)

## Output



- Habitat maps (3D NIfTI)
- Summary statistics (CSV)