**Results**

**R1. Description of field-based data for passerine diversity**

R1.1. Number or relative frequency of families, genera and species

R1.2. Species traits distribution – diet, habitat, nesting, size, …

**R2. Ecosystem Functional Attributes (EFA) and Types (EFT)**

R2.1 Plots of raw vs smoothed series by land cover type

R2.2. Maps of EFA’s – for example min, average, max and amplitude

R2.3. Maps of EFT’s

**R3. EFA/EFT diversity fine-scale patterns**

R3.1. Map ok 1km grid with EFA standard-deviation of the annual min, average, max and amplitude

R3.2. Map of 1km grid for EFT richness (or count), Shannon and evar indices

**R4. Analysing the relation between passerine diversity and EFA/EFT diversity**

R4.1. Model preliminary testing:

1. Over-dispersion test for Poisson count models
2. Variance Inflation Factors (??)
3. Correlation analyses

R4.2. Modelling passerine diversity patterns and selection of best EFA/EFT indices

1. Modelling results from GLM/Lasso/Elasticnet with Poisson distributed errors
   1. Barplot with by group results of pseudo-R2 measures (Effron, Nagelkerke, etc.)
   2. Comparison of best and worst predicted groups

R4.3. Table with absolute frequency with best indicators across all groups

**R5. Independent validation of the species richness – ecosystem functional diversity hypothesis using GBIF and Terra/MODIS**

R5.1. Results for the average mmSAR procedure – selection of reference sites for analysis

R5.2. Modelling passerine diversity patterns and selection of best EFA/EFT indices

**R6. Assessing the spatiotemporal change of EFA/EFT patterns and species richness**

R6.1. EFA trends for the best indicators previously selected

R6.2. EFT trends for the best indicators previously selected

R6.3. Trends in species richness by group

(…)