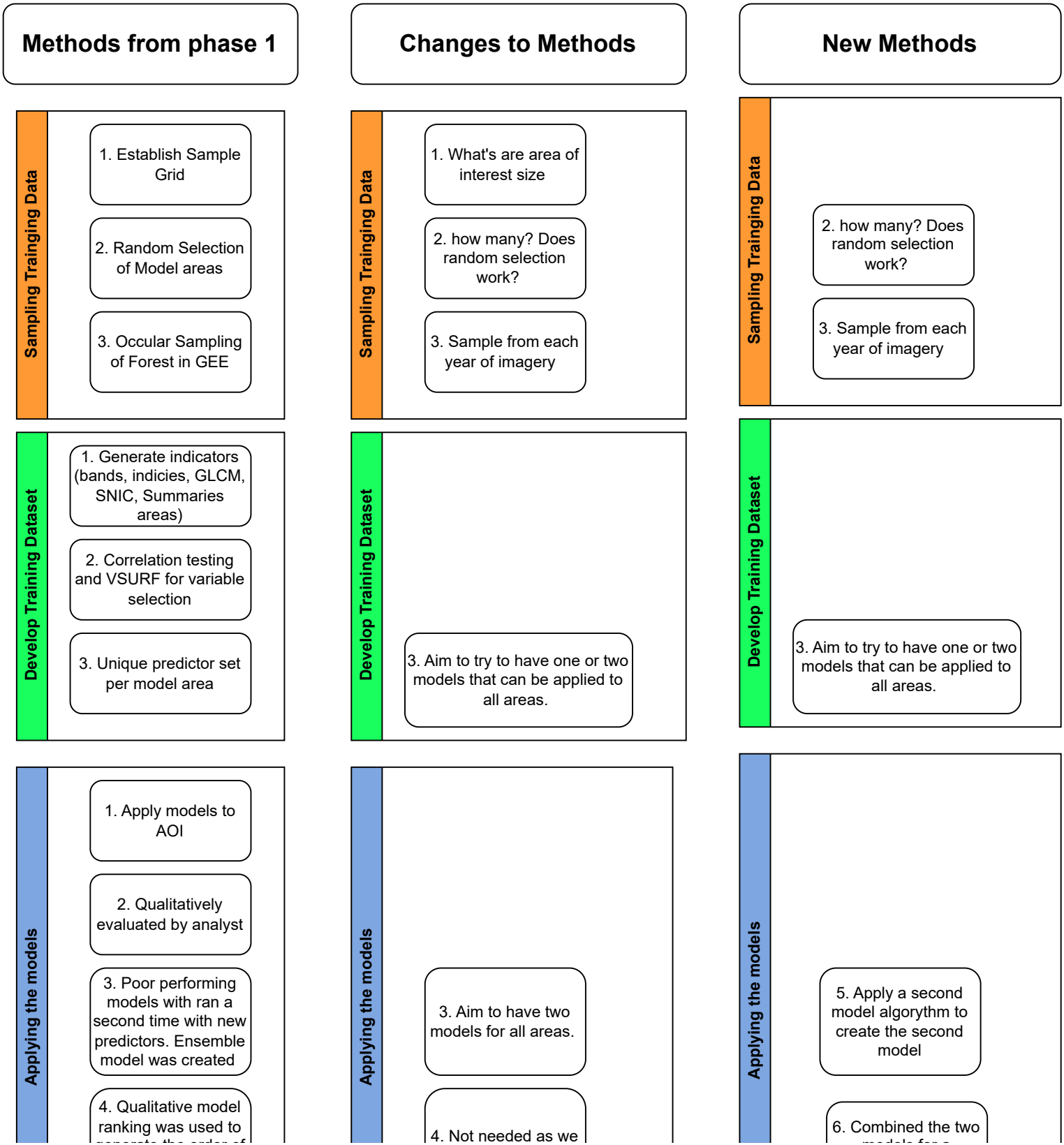

Methods from phase 1
Changes to Methods
New Methods
Sampling Trainging Data
1. Establish Sample Grid
2. Random Selection of Model areas
3. Occular Sampling of Forest in GEE
Sampling Trainging Data
1. What's are area of interest size
2. how many? Does random selection work?
3. Sample from each year of imagery
Sampling Trainging Data
2. how many? Does random selection work?
3. Sample from each year of imagery
Develop Training Dataset
1. Generate indicators (bands, indicies, GLCM, SNIC, Summaries areas)
2. Correlation testing and VSURF for variable selection
3. Unique predictor set per model area
Develop Training Dataset
3. Aim to try to have one or two models that can be applied to all areas.
Develop Training Dataset
3. Aim to try to have one or two models that can be applied to all areas.
Applying the models
1. Apply models to AOI
2. Qualitatively evaluated by analyst
3. Poor performing models with ran a second time with new predictors. Ensemble model was created
4. Qualitative model ranking was used to
Applying the models
3. Aim to have two models for all areas.
4. Not needed as we
Applying the models
5. Apply a second model algorythm to create the second model
6. Combined the two

Proposed Phase 2 methods

Sampling Trainging Data

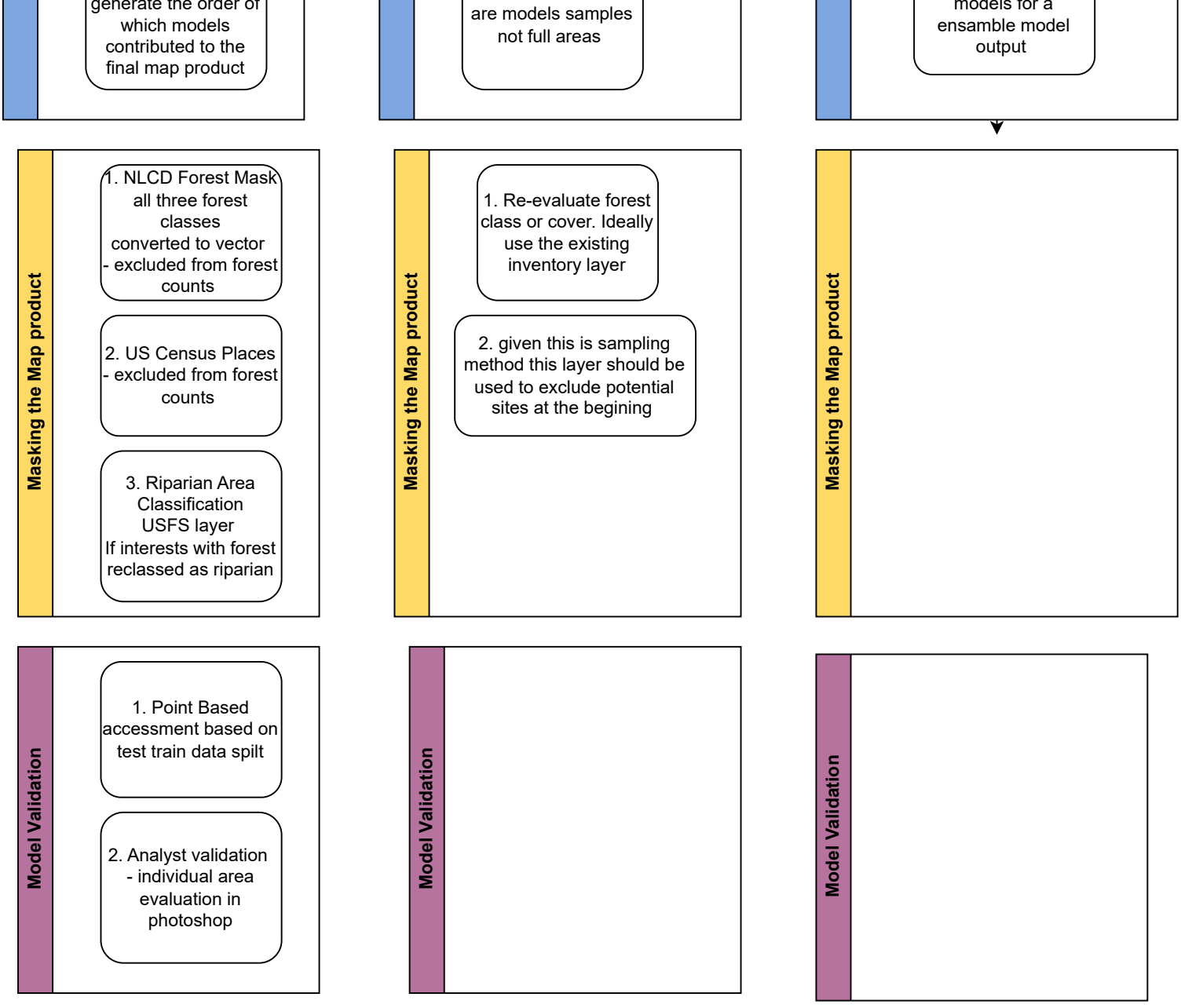
1. Establish Sample Grid
2. Select total number of areas from within that GRID to model
3. Exclude any sampling grids that contain a Census Places area
4. Sample presence absence values from the AOIs for each year the model is being created

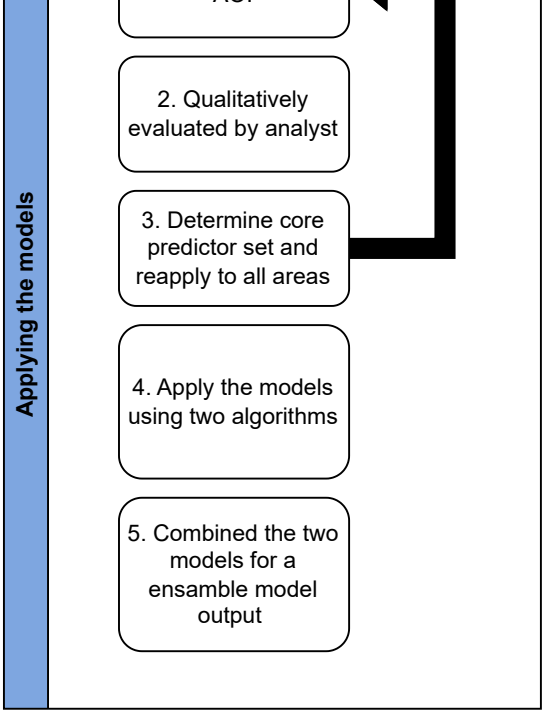
Develop Training Dataset

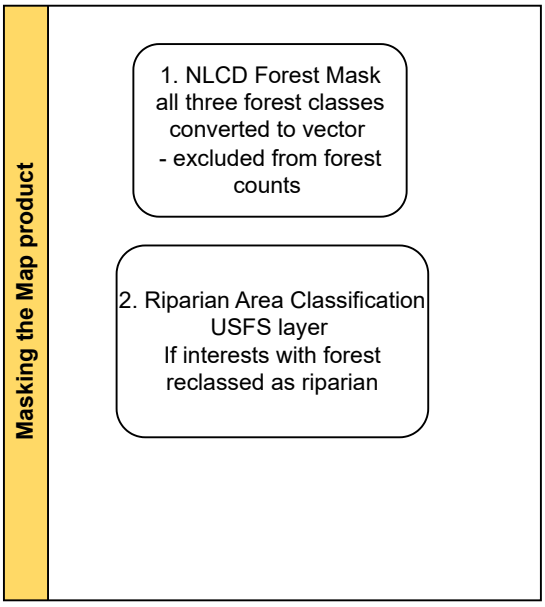
1. Generate indicators (bands, indicies, GLCM, SNIC, Summaries areas)
2. Correlation testing and VSURF for variable selection
3. Aim to try to have one or two models that can be applied to all areas.

   This requires applying and evaluating models
4. based on evaluation in "Applying Models" Section confirm a predictor set(s) to use for each model.

1. Apply models to AOI


generate the order of which models contributed to the final map product
are models samples not full areas
models for a ensamble model output
Masking the Map product
1. NLCD Forest Mask all three forest classes converted to vector - excluded from forest counts
2. US Census Places - excluded from forest counts
3. Riparian Area Classification USFS layer If interests with forest reclassed as riparian
Masking the Map product
1. Re-evaluate forest class or cover. Ideally use the existing inventory layer
2. given this is sampling method this layer should be used to exclude potential sites at the begining
Masking the Map product
Model Validation
1. Point Based accessment based on test train data spilt
2. Analyst validation - individual area evaluation in photoshop
Model Validation
Model Validation


Applying the models
2. Qualitatively evaluated by analyst
3. Determine core predictor set and reapply to all areas
4. Apply the models using two algorithms
5. Combined the two models for a ensamble model output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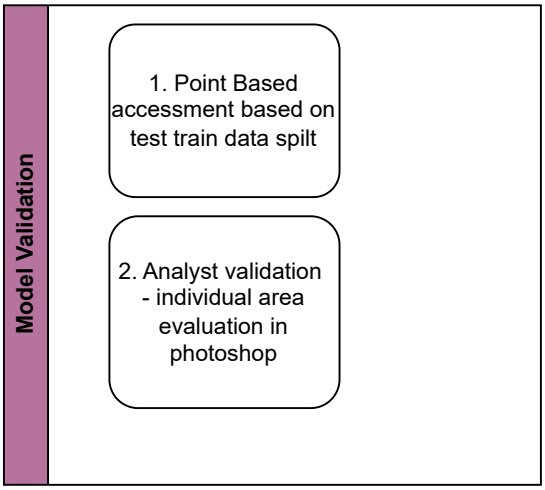
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