Problem: The Menabe region has 3 baobabs species. Currently, this region surffer the highest deforestation rates of Madagascar, mainly due to agricultural land use that impact forest ressources.

1

What is the relationship between forest quality and diversity of Malagasy baobabs visitor species in the Menabe region?

2

How does abundance of agricultural land affect water supply in the Menabe region?

1

What is the relationship between forest quality and diversity of Malagasy baobabs visitor species in the Menabe region?

Two sites:
10 botanical plots to each other

Variable using:
Disturbunce between two sites (Dbh, height and canopy cover)
Couting the number of visitors species

Using chi-sqaure test for difference between both of sites.

Using glm to answer the statistical question

X: forest quality
X1 = disturbed
X2 = undisturbed

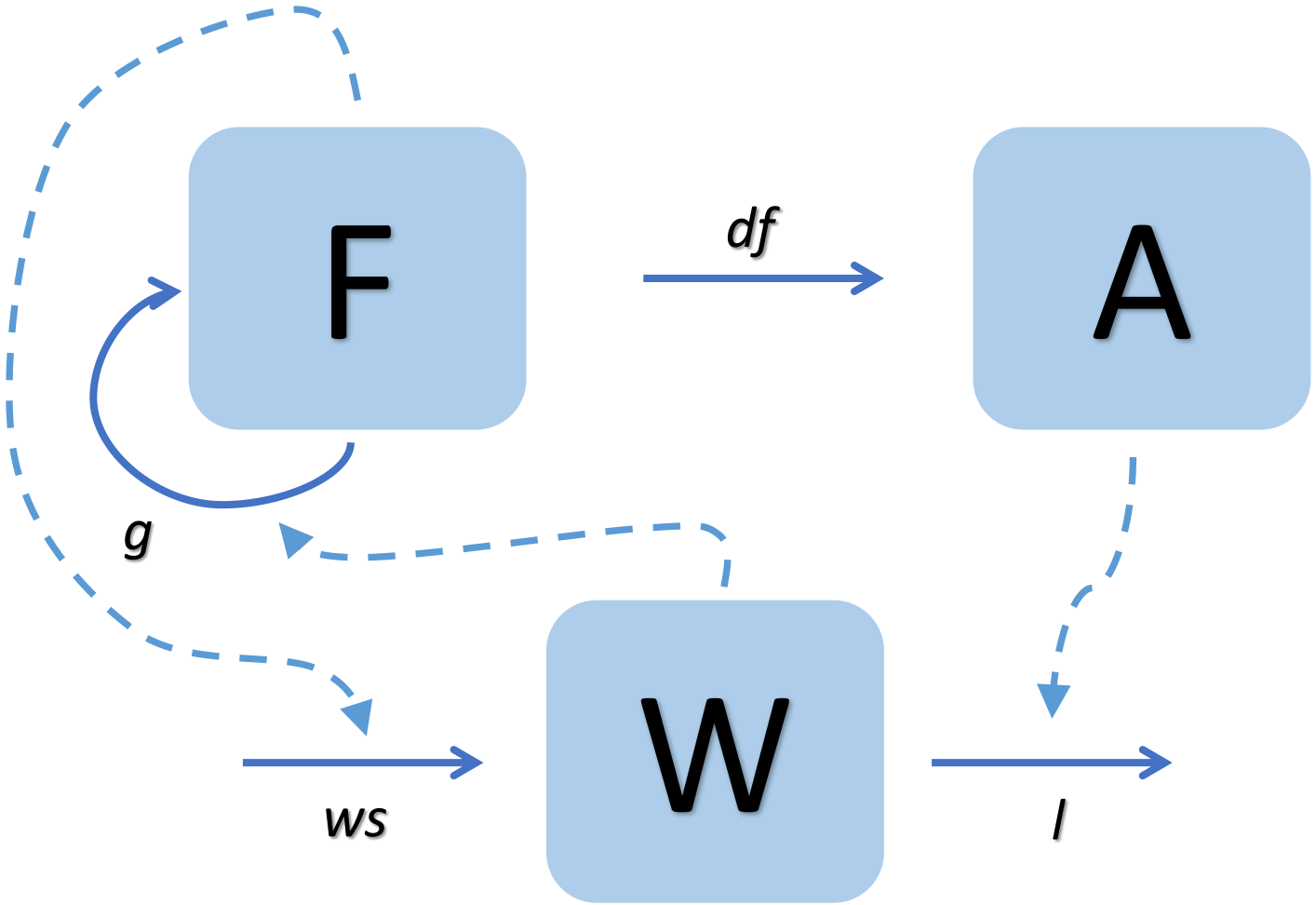
Y: Number of species

R function: glm (nbr_sp ~ X1 + X2, Family= binomial, link= logit, data = Baobab)

Hypothesis: The number of baobab visitor's species is higher when the forest is intact.

2

How does abundance of agricultural land use affect water supply in the Menabe forest?



F : Forest

A : Agriculture land use

W : Water supply

df : deforestation

l : rate water loss

ws : rate water supply

g : growth

Next steps :

- Paufining the methodology
- finding a way to get water yield of madagascar
- Combining all data already have (shapefiles of forest cover and agricultural land use)
- Building the draft of the paper

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