How to choose the right model?

In order to choose the right model it is necessary to establish:

A) Weight:
We suggest to follow these parameters (info based in articles and researchers´ comments):
Maximum percentage of animal's own weight that can be carried on a transmitter:

Specie	%
Birds	3%
Birds with Transmitter on the Tail	1.5%
Bats	5%
Terrestrials of less than 50 grams	10 a 15%
Terrestrials between 50 gr and 5 kg	5%
Terrestrials of more than 5 kg	3%
Fish	2%
Turtles	7%
Snakes	5%

B) Required Life Time:
You need to specify the minimum length of time you need the transmitter to last. Take into consideration that if the average temperature is low the life of the transmitter will decrease at approximately:
- At 0° C (32° F) life decreases 10%
- At -20° C (-4° F) life decreases 20%
- At -40° C (-40° F) life decreases 40%

C) Required Detection Range:
You can prefer more or less detection range in connection to the life of the transmitter depending on the specie, vegetation and tracking methods. In order to have an approximate of the range consider the vegetation and topography of the study site, the specie to be tracked and its height over the floor as well as the height of the tracking antenna. For example:
- In the desert the range will be close to that obtained in LOS (Line Of Sight - Without obstacles)
- Into the forest the range decreases dramatically; approximately 80% less than what you get in LOS for species that are at 3 meters above ground (e.g. monkeys); and about 90% for species on the ground (e.g. rabbits). In the same forest, if the receiving antenna can be raised above the canopy (e.g. on a hill) the range can increase considerably (4 to 10 times better)

D) If the chosen model has the right dimensions for the specie:
Once you have determined the weight, lifetime and detection range will be much easier to determine the model, or models that fit your needs. From the list of possible models it is advisable to check their dimensions to make sure these are not too big for the study specie.

This information is intended only as a guide to facilitate the first approach to the right model for your study specie. Please do not hesitate to contact us at info@telenax.com for more information and advisory.